

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100670 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 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N SD1176 Date Calibrated 8/17/11vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/131. 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 10/11/131. Simulator S/N SD1199 Date Calibrated 1/11/12ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DR6267 Date Calibrated 1/10/12iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/11d. 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 dmt: 100670

Date: 04/27/2012
Time: 10:57:16

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 48.0°C PASSED

PUMP INFO

Flow Rate = 4.764 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 dmt: 100670

Date: 04/27/2012
Time: 11:33 AM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 48.0°C

Current Barometer 29.6 in
Volume (Ltr) 1.45

Settings

Lamp: 1.75 V
Bias: 79 V
Cooler: 1.76 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.066 V

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LF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 09/21/2011
Time: 14:17:27

Ca = 0.1500
CAL = 0.983698 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0023 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0886 0.0500 <= Xq < 0.2000
a21 = 1.179698 1.050 <= a21 < 1.300
a31 = 0.439665 0.300 <= a31 < 0.800

4/19
WF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/27/2012
Time: 13:27:48

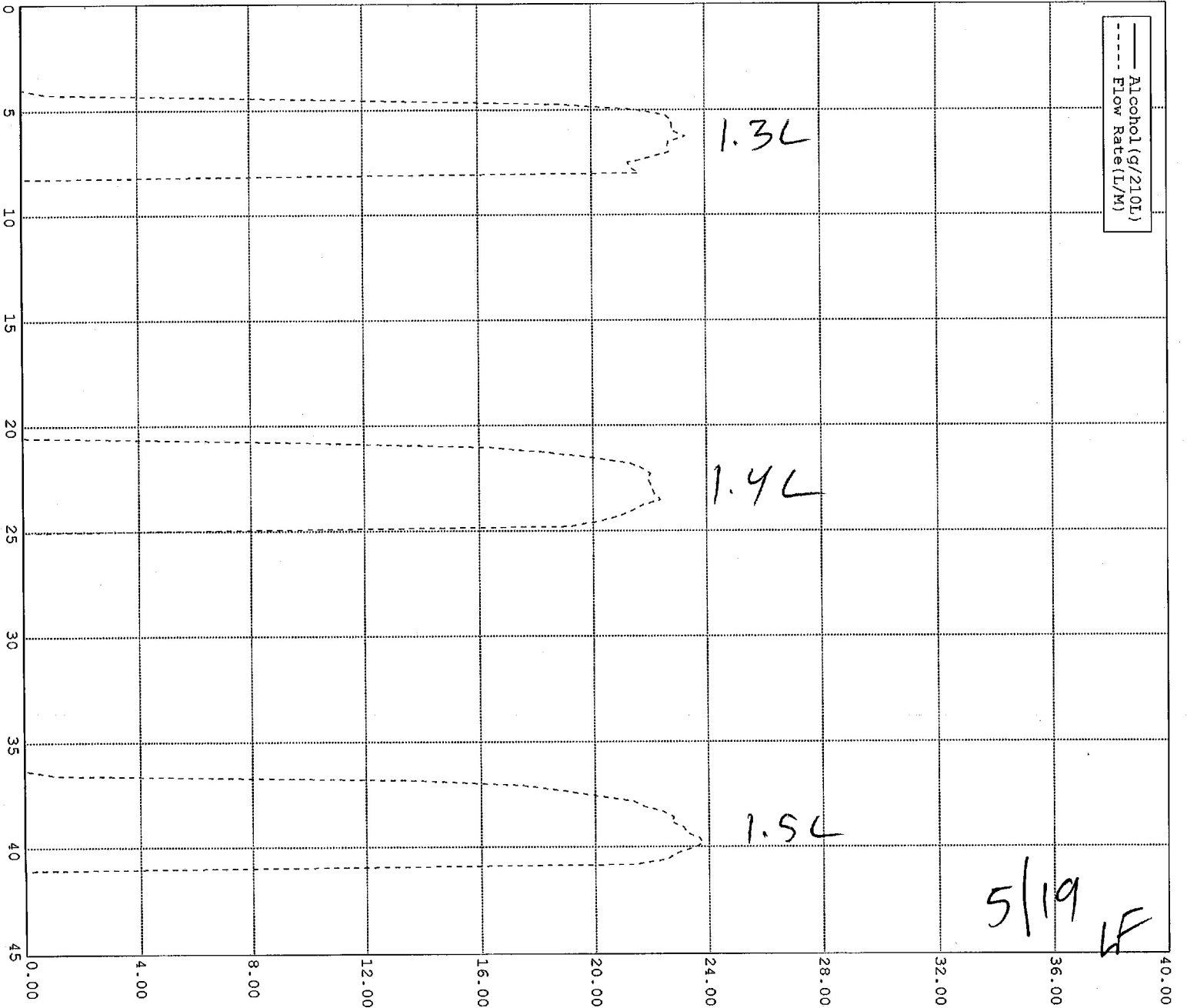
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:37
BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.079	13:38
BLANK TEST	0.000	13:39
SUBJECT SAMPLE	0.000	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.079	13:41
BLANK TEST	0.000	13:42



LINEARITY CHECK

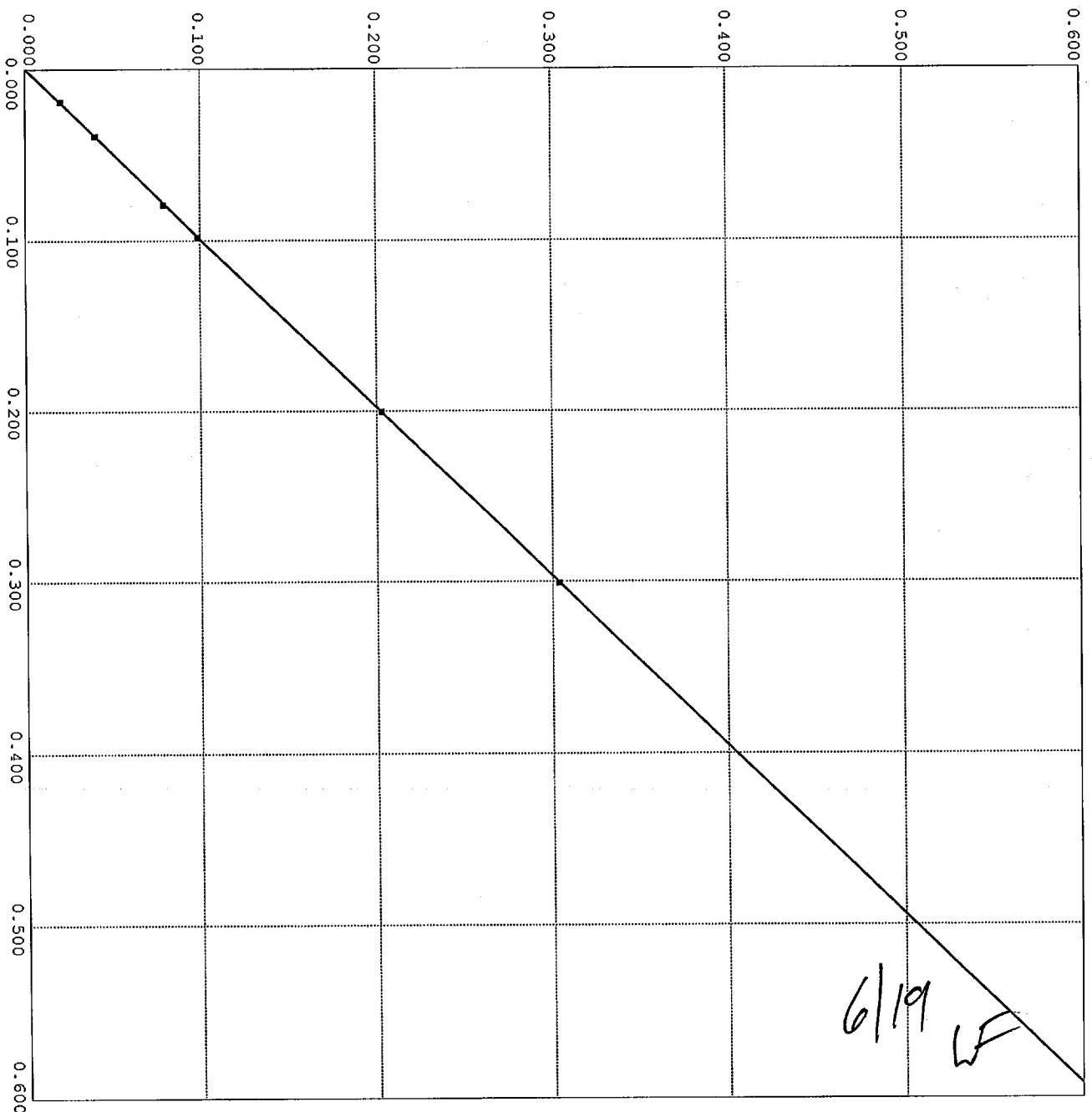
Alaska Department of Public Safety
 DATAMASTER dmt: 100670

Date: 04/27/2012
 Time: 14:01:11

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0002
0.039	0.0403	0.0002
0.079	0.0799	0.0003
0.098	0.0996	0.0002
0.200	0.2038	0.0004
0.300	0.3045	0.0005

SLOPE = 1.012983
 R² = 0.999976



LINEARITY CHECK: Control Test 1

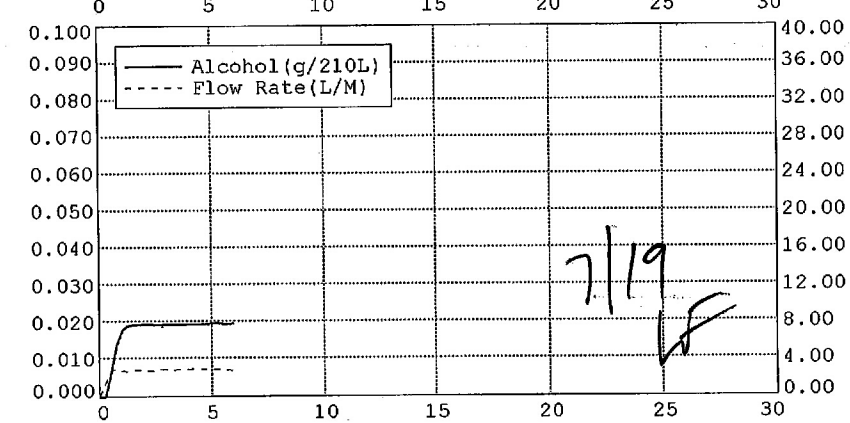
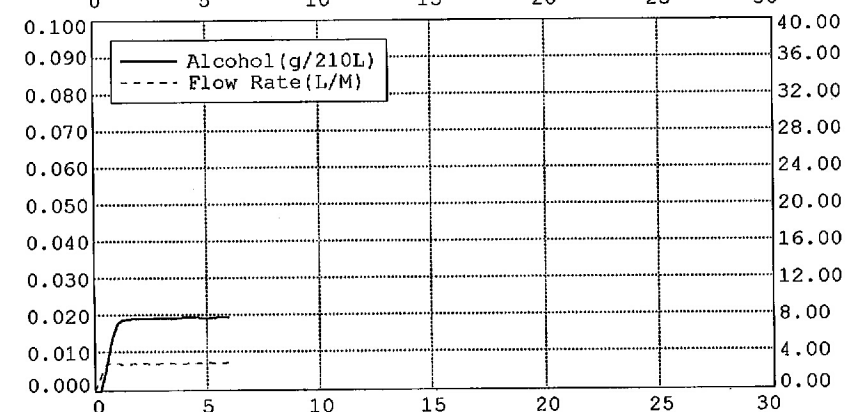
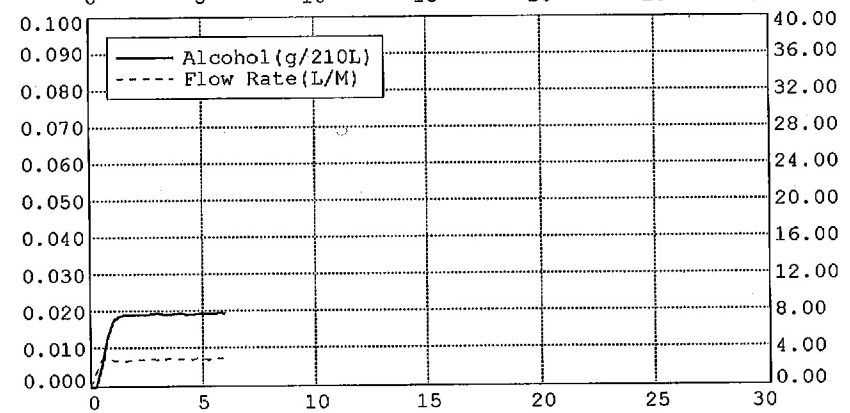
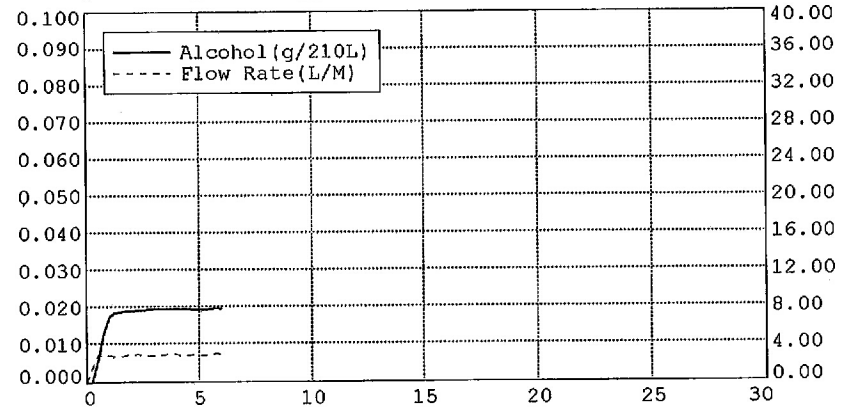
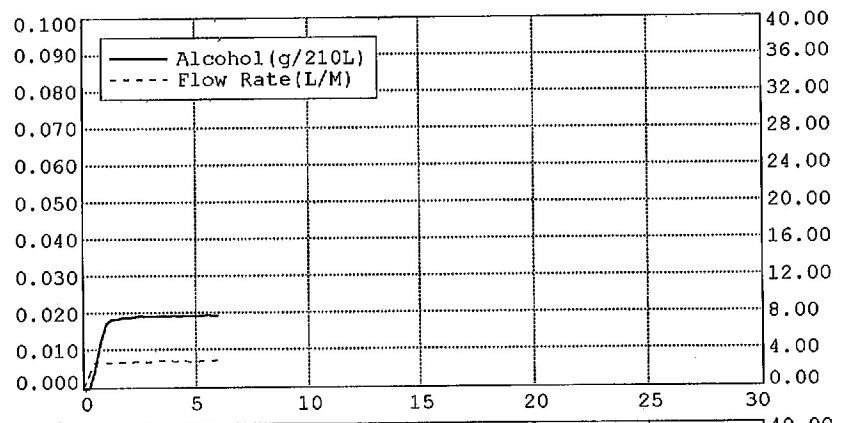
Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/27/2012
Time: 14:01:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.55: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:59
INTERNAL STANDARD	VERIFIED	14:59
EXTERNAL STANDARD	0.020	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.020	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.020	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.020	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.020	15:03
BLANK TEST	0.000	15:04

Average = 0.0205
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

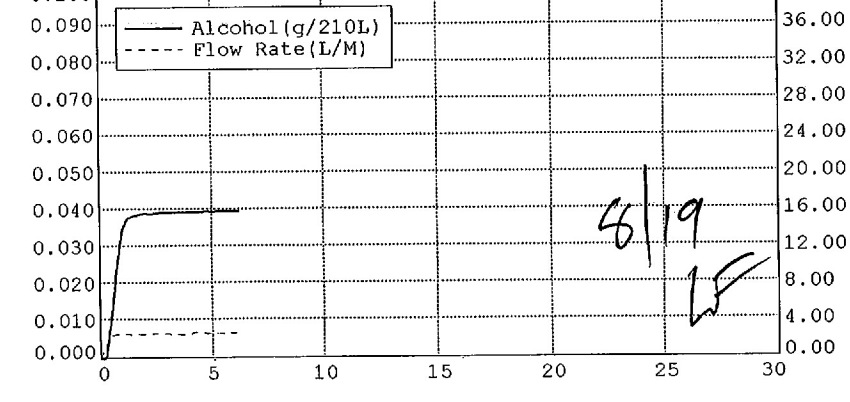
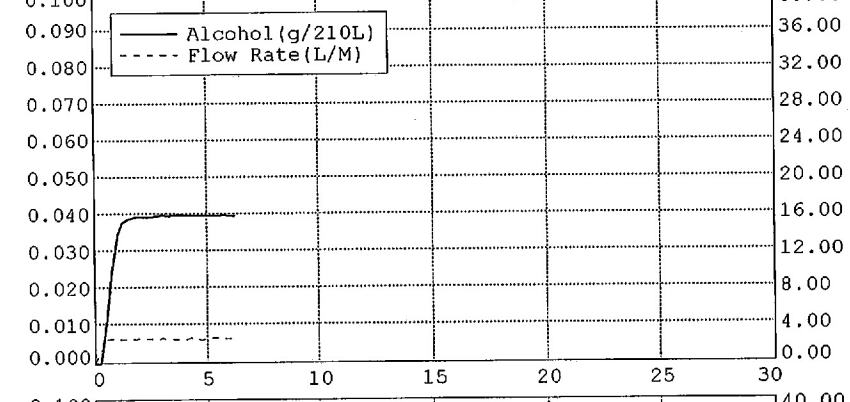
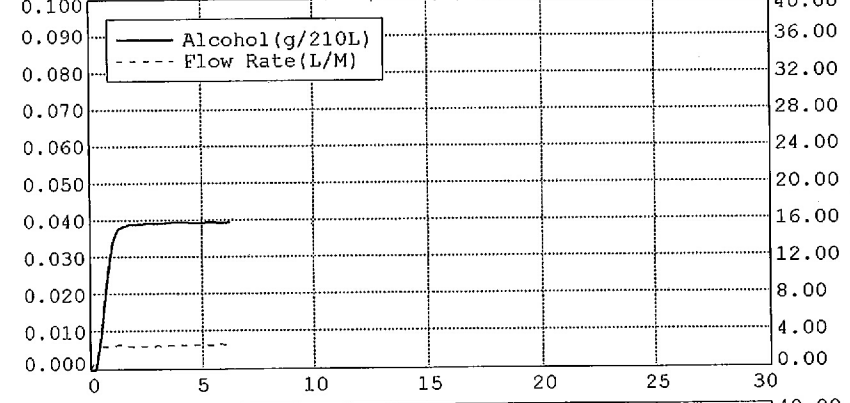
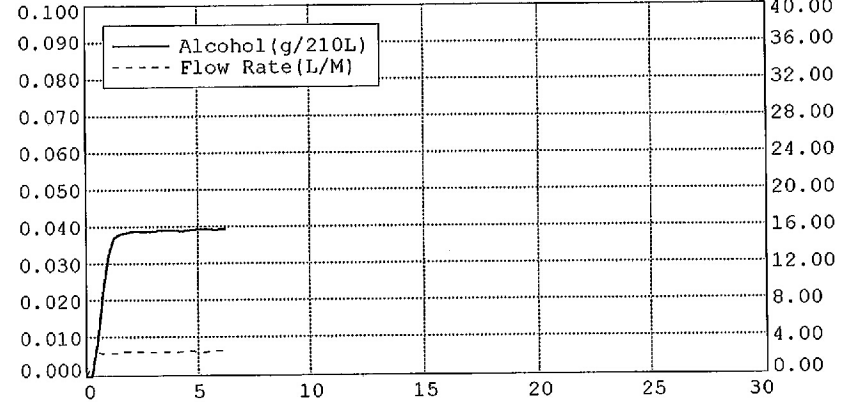
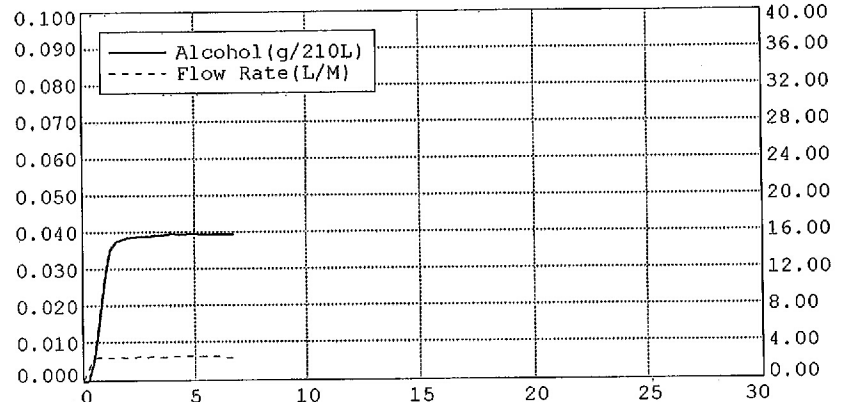
Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/27/2012
Time: 15:05:50

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.55: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.040	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.040	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.040	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.040	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.040	15:12
BLANK TEST	0.000	15:13

Average = 0.0403
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

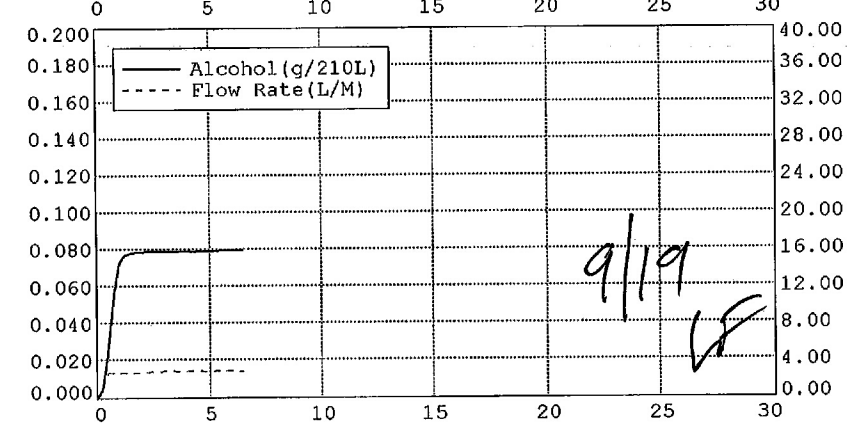
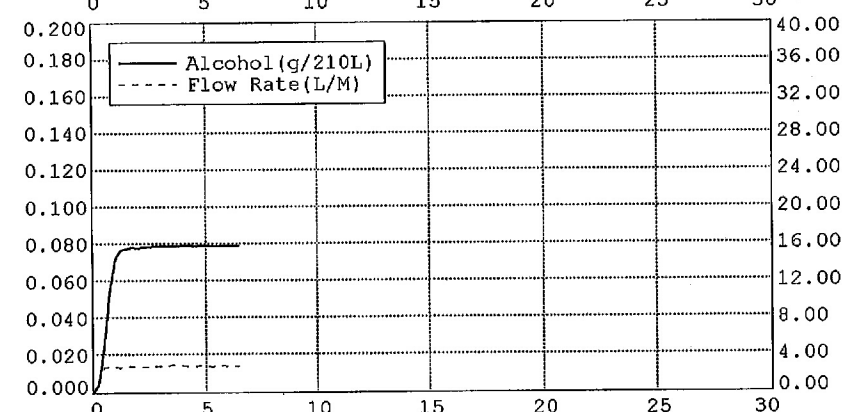
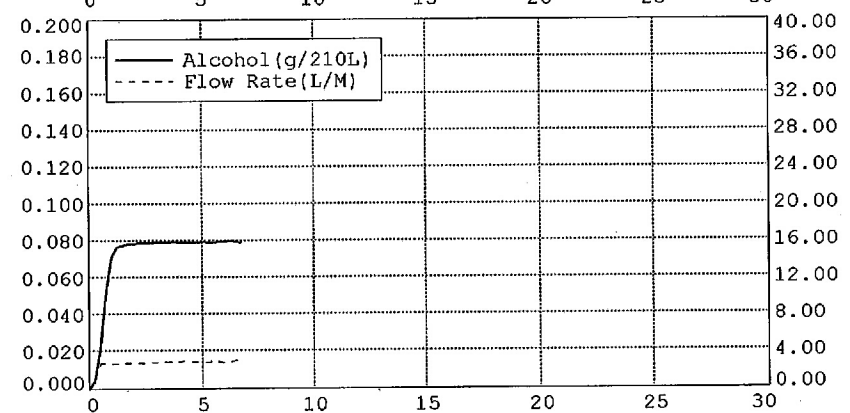
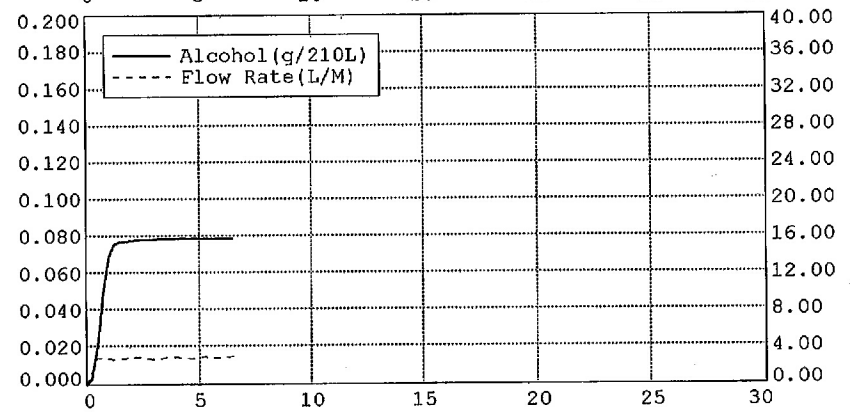
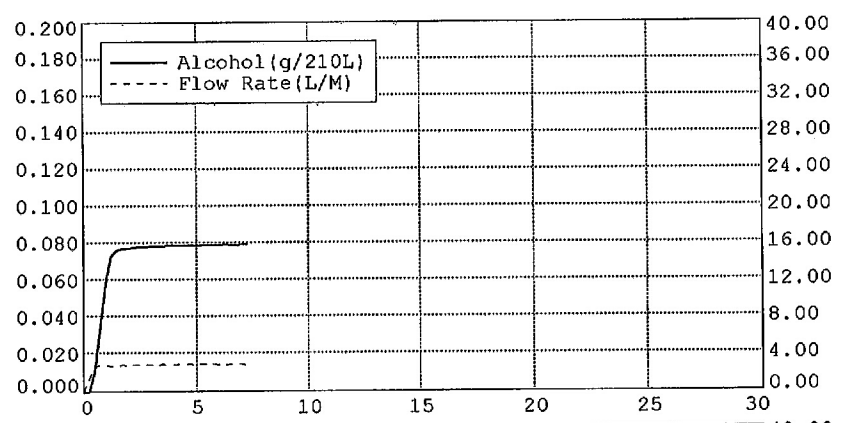
Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/27/2012
Time: 15:17:48

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.079	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.079	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.080	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.079	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.080	15:23
BLANK TEST	0.000	15:24

Average = 0.0799
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

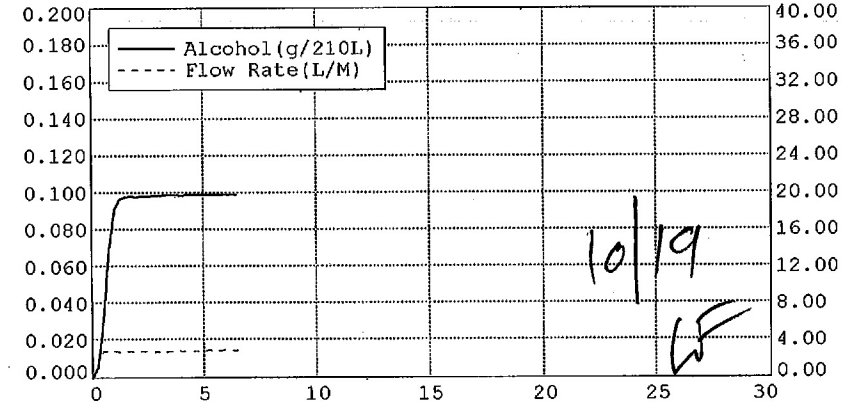
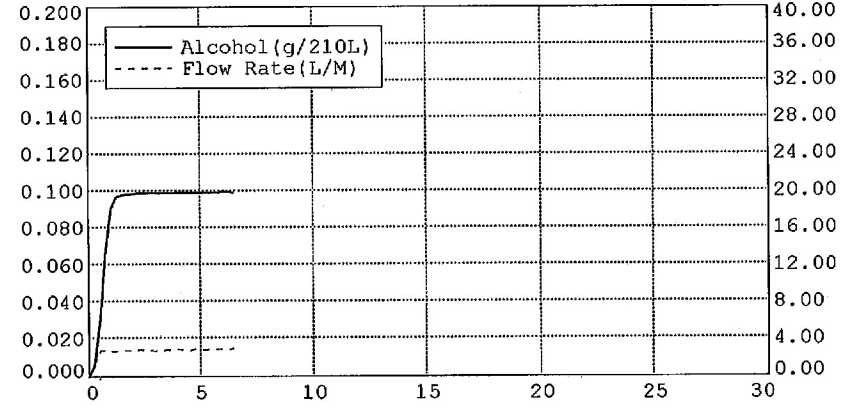
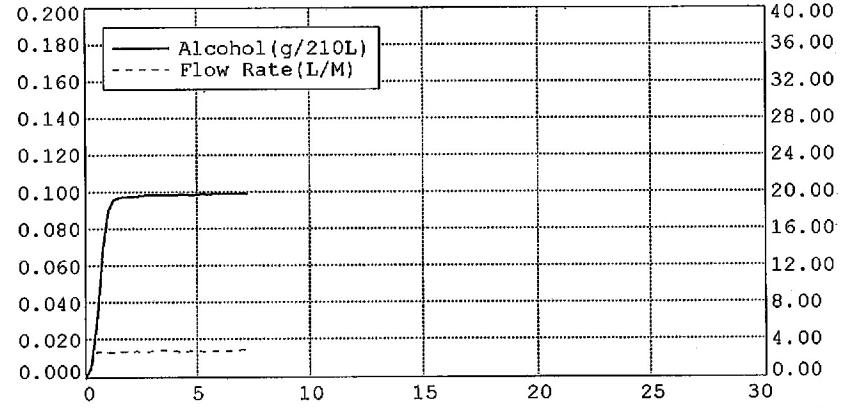
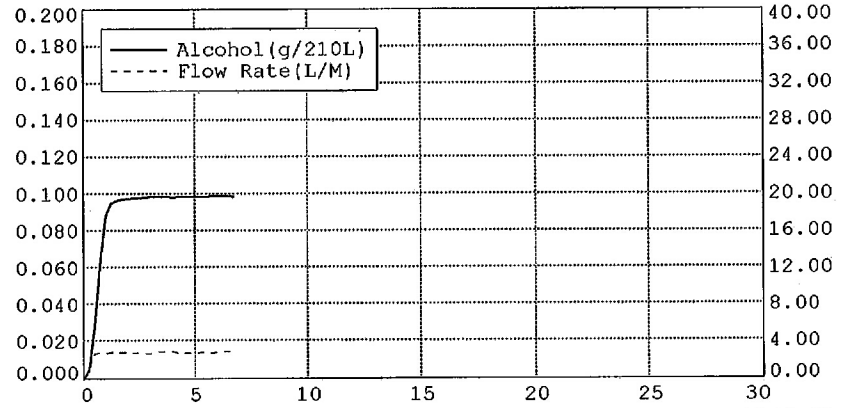
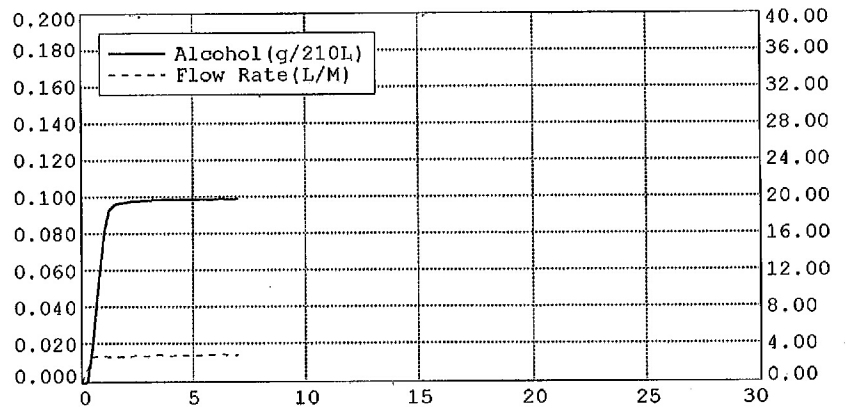
Alaska Department of Public Safety
 DATAMASTER dmt: 100670

Date: 04/27/2012
 Time: 15:28:01

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.55: 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.099	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.099	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.099	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.099	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.099	15:33
BLANK TEST	0.000	15:34

Average = 0.0996
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100670

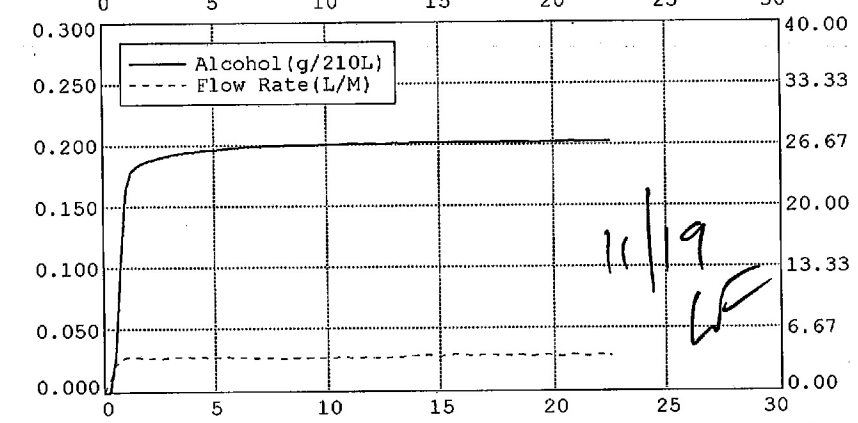
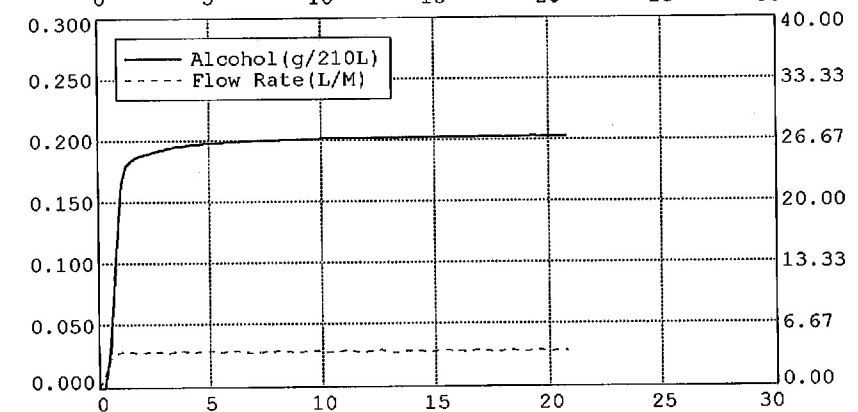
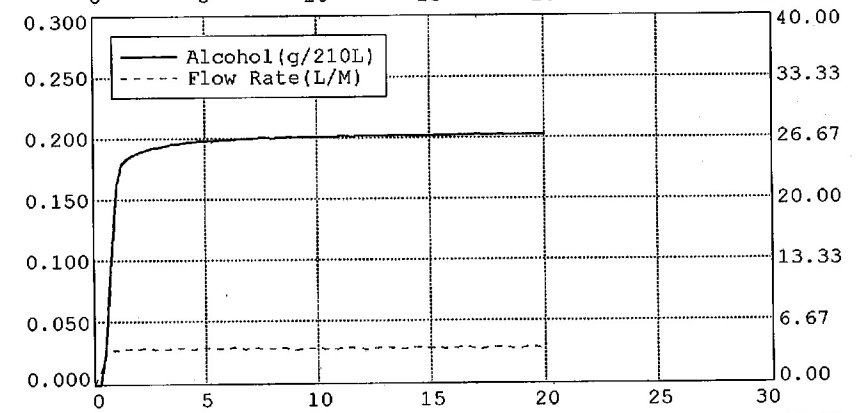
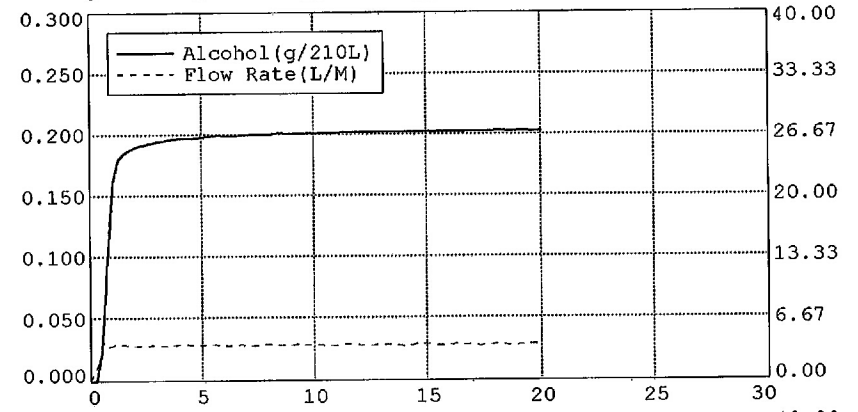
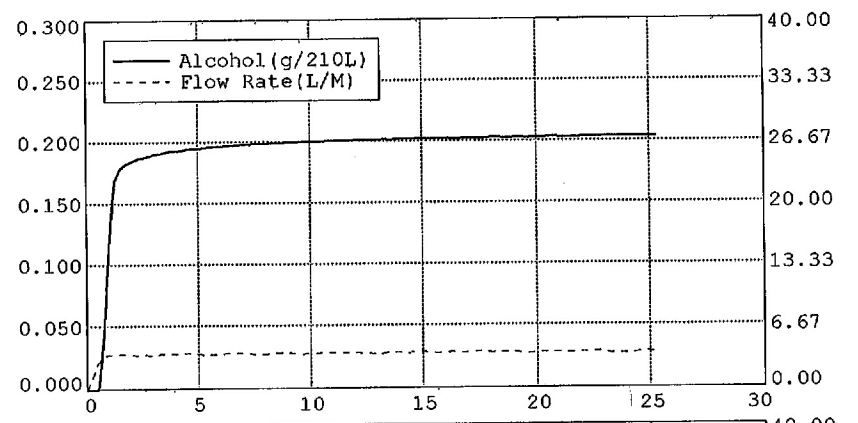
Date: 04/27/2012
Time: 15:36:57

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:40
INTERNAL STANDARD	VERIFIED	15:41
EXTERNAL STANDARD	0.204	15:41
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.203	15:42
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.203	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.203	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.203	15:47
BLANK TEST	0.000	15:47

Average = 0.2038
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

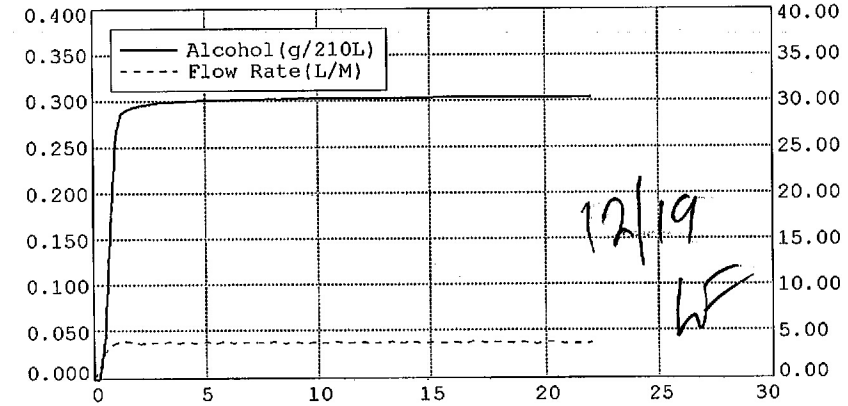
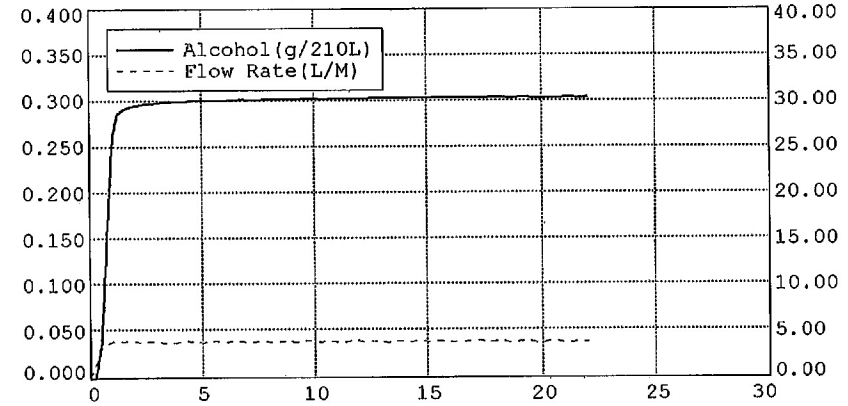
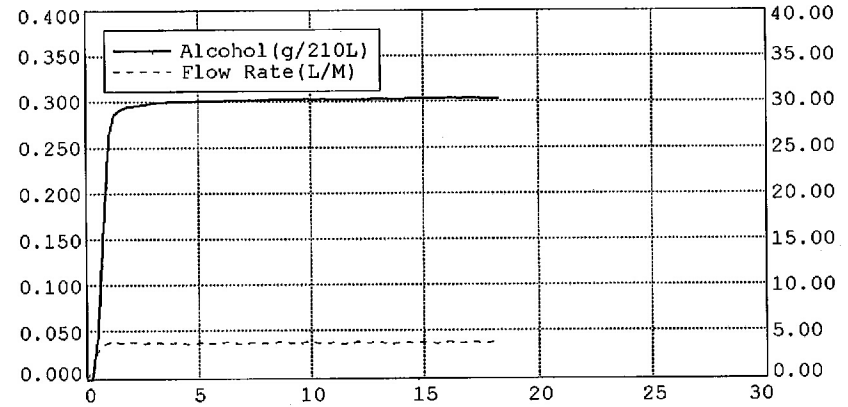
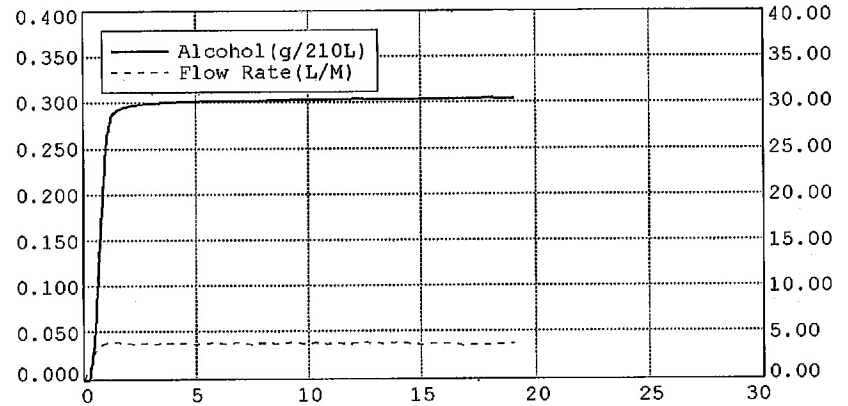
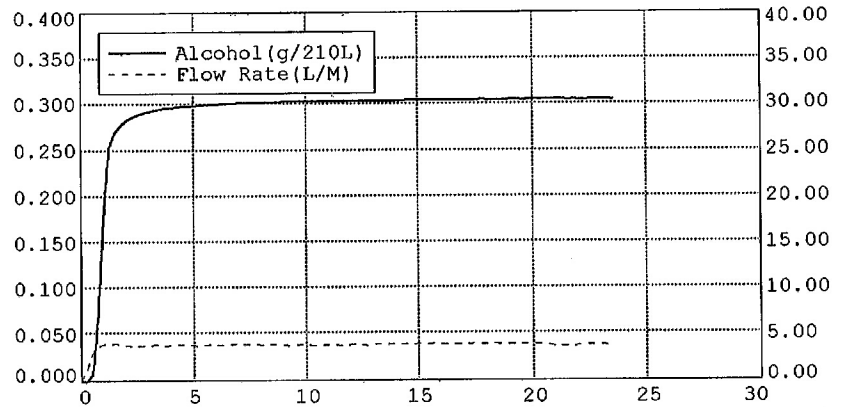
Alaska Department of Public Safety
 DATAMASTER dmt: 100670

Date: 04/27/2012
 Time: 15:50:46

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

BLANK TEST	0.000	15:51
INTERNAL STANDARD	VERIFIED	15:51
EXTERNAL STANDARD	0.305	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.304	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.304	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.303	15:56
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.304	15:57
BLANK TEST	0.000	15:58

Average = 0.3045
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/30/2012
Time: 08:25:38

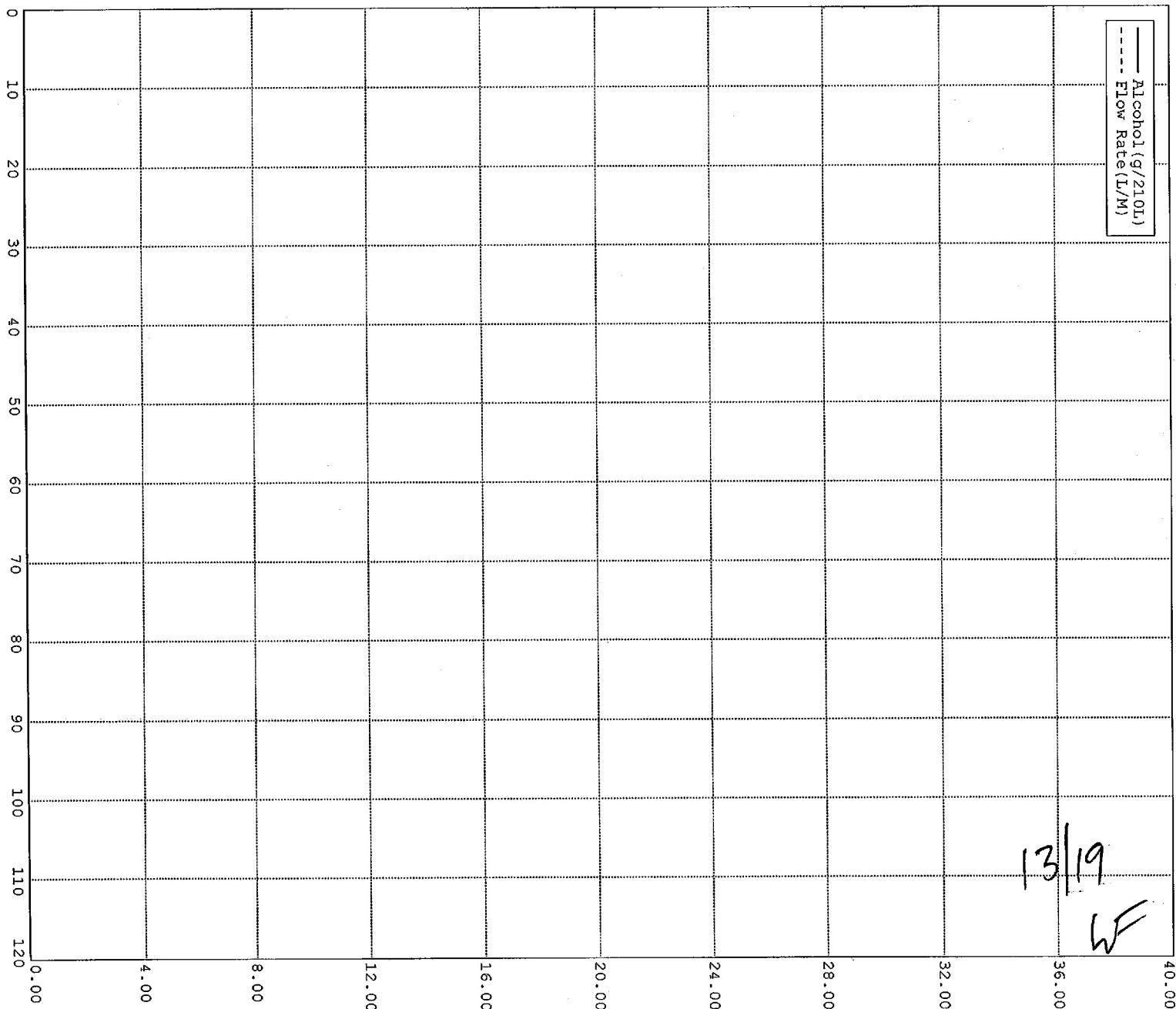
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

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

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/30/2012
Time: 09:32:31

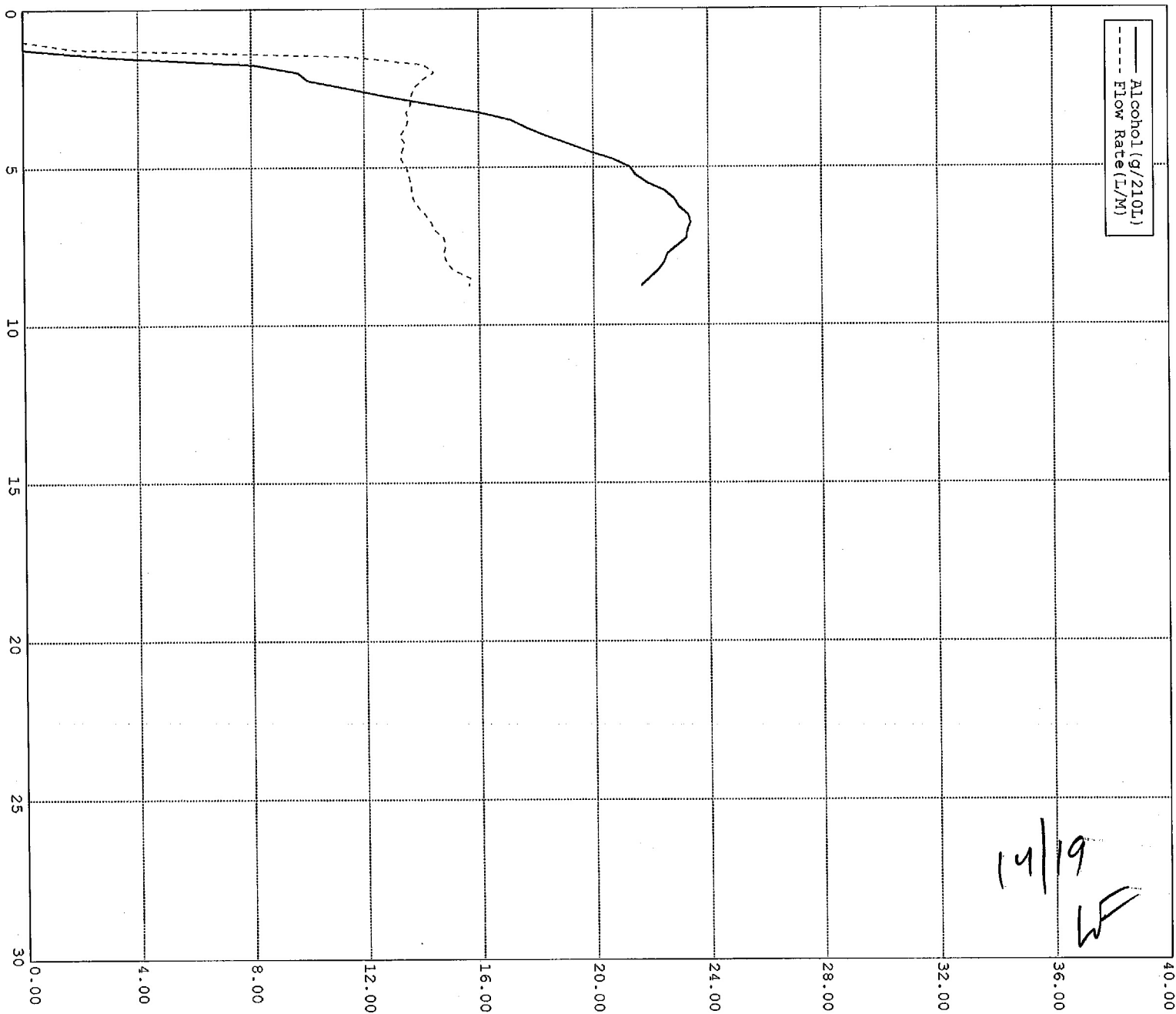
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOUTH FTOH
OPERATOR'S #: XXXX

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

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

DIAGNOSTIC CHECK	PASSED	09:36
BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:37
EXTERNAL STANDARD	0.079	09:37
BLANK TEST	0.000	09:38
SUBJECT SAMPLE	INVALID	09:38



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/30/2012
Time: 10:09:41

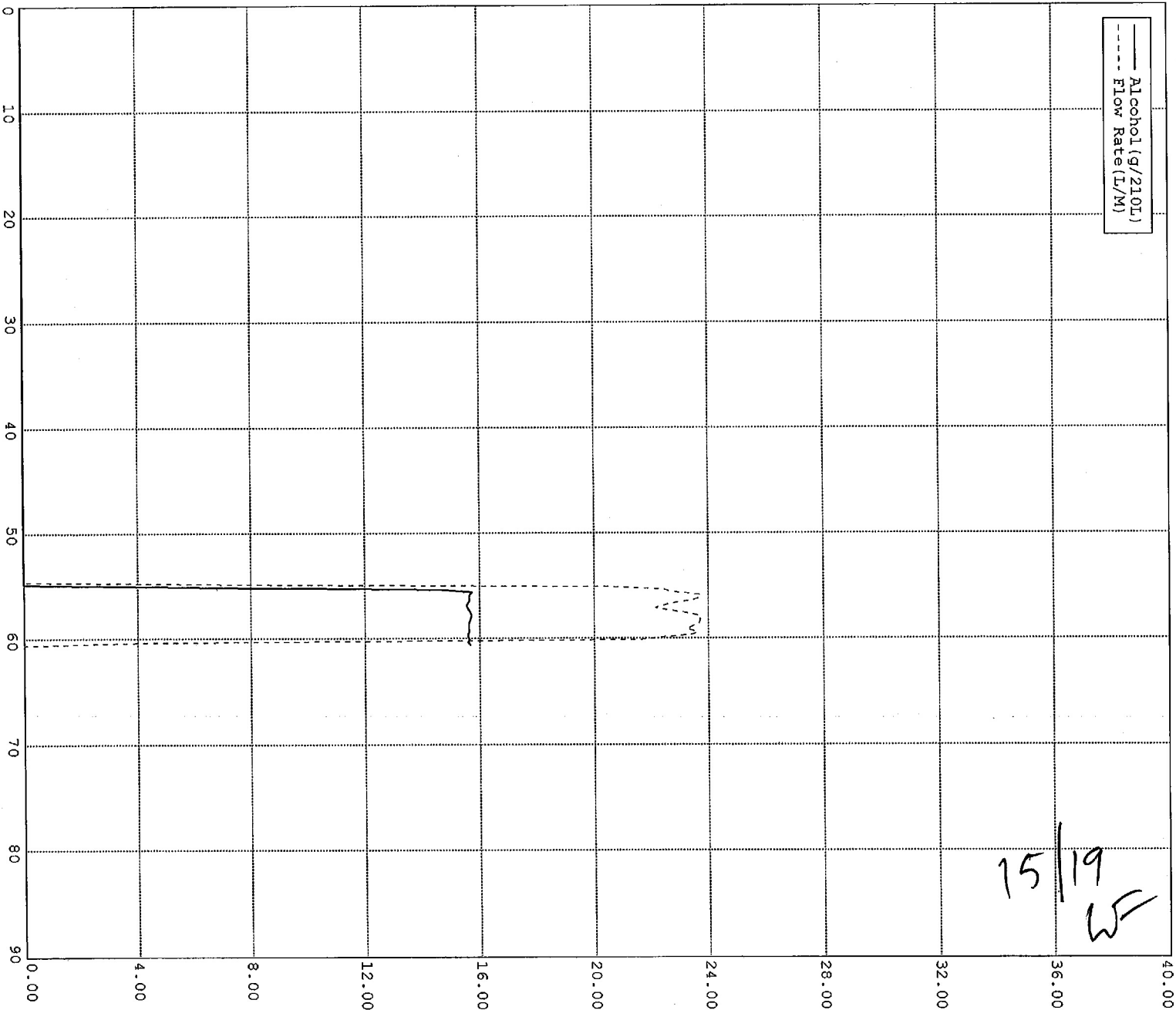
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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	10:52
BLANK TEST	0.000	10:52
INTERNAL STANDARD	VERIFIED	10:52
Xd = 0.087 (1.28%)		
EXTERNAL STANDARD	0.078	10:52
X[1] = 0.0786 (0.0006)	(0.0019)	
BLANK TEST	0.000	10:53
SUBJECT SAMPLE	INTERFERENCE	10:54
X[1] = 0.0787 (-0.0138)	(0.0000)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100670

Date: 04/30/2012
 Time: 11:09:46

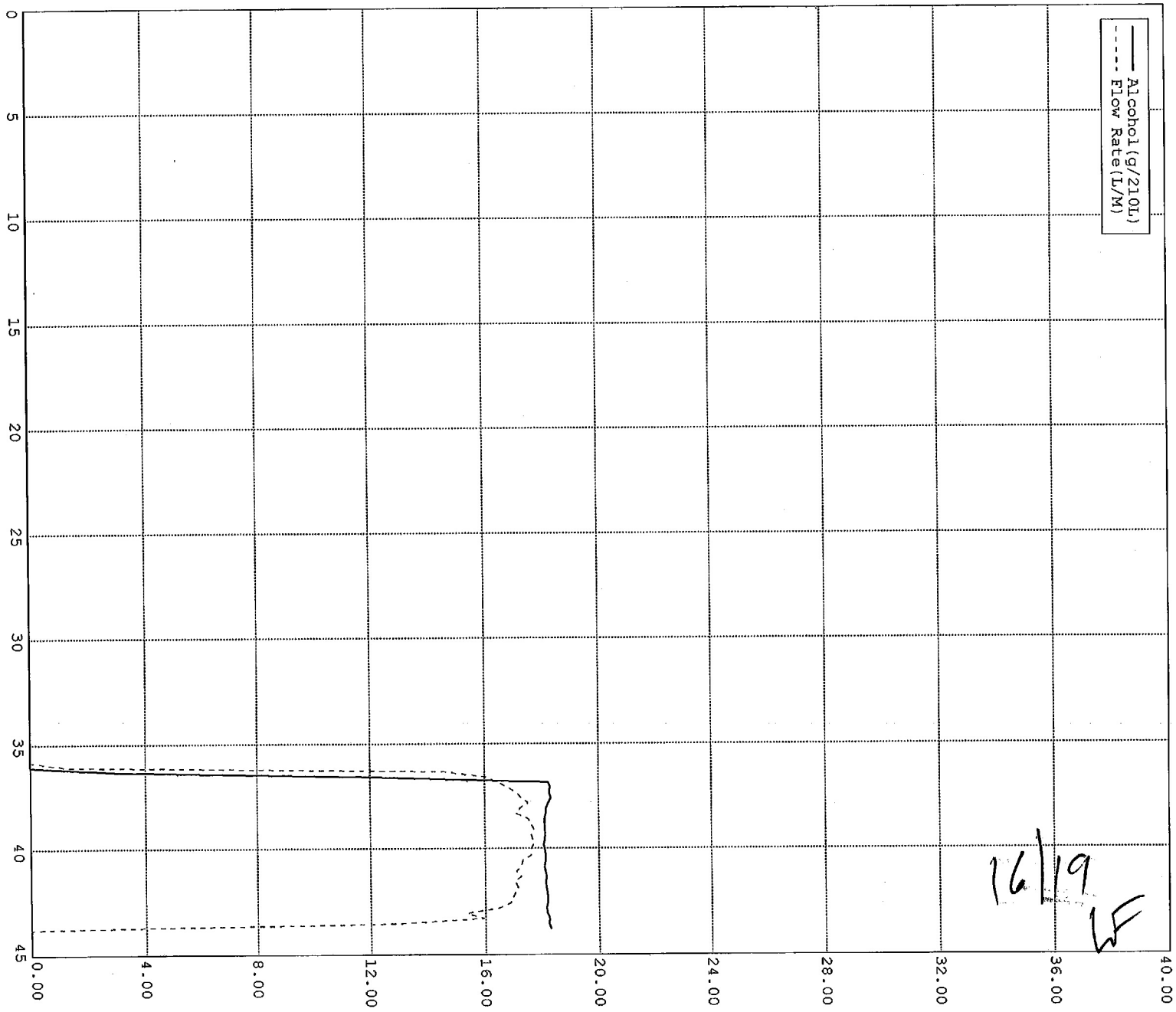
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

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

DIAGNOSTIC CHECK	PASSED	11:11
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
Xq = 0.088 (1.08%)		
EXTERNAL STANDARD	0.078	11:12
X[1] = 0.0782 (0.0008)	(0.0024)	
BLANK TEST	0.000	11:13
SUBJECT SAMPLE	INTERFERENCE	11:13
X[1] = 0.0917 (-0.0262)	(0.0007)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100670

Date: 04/30/2012
 Time: 11:24:35

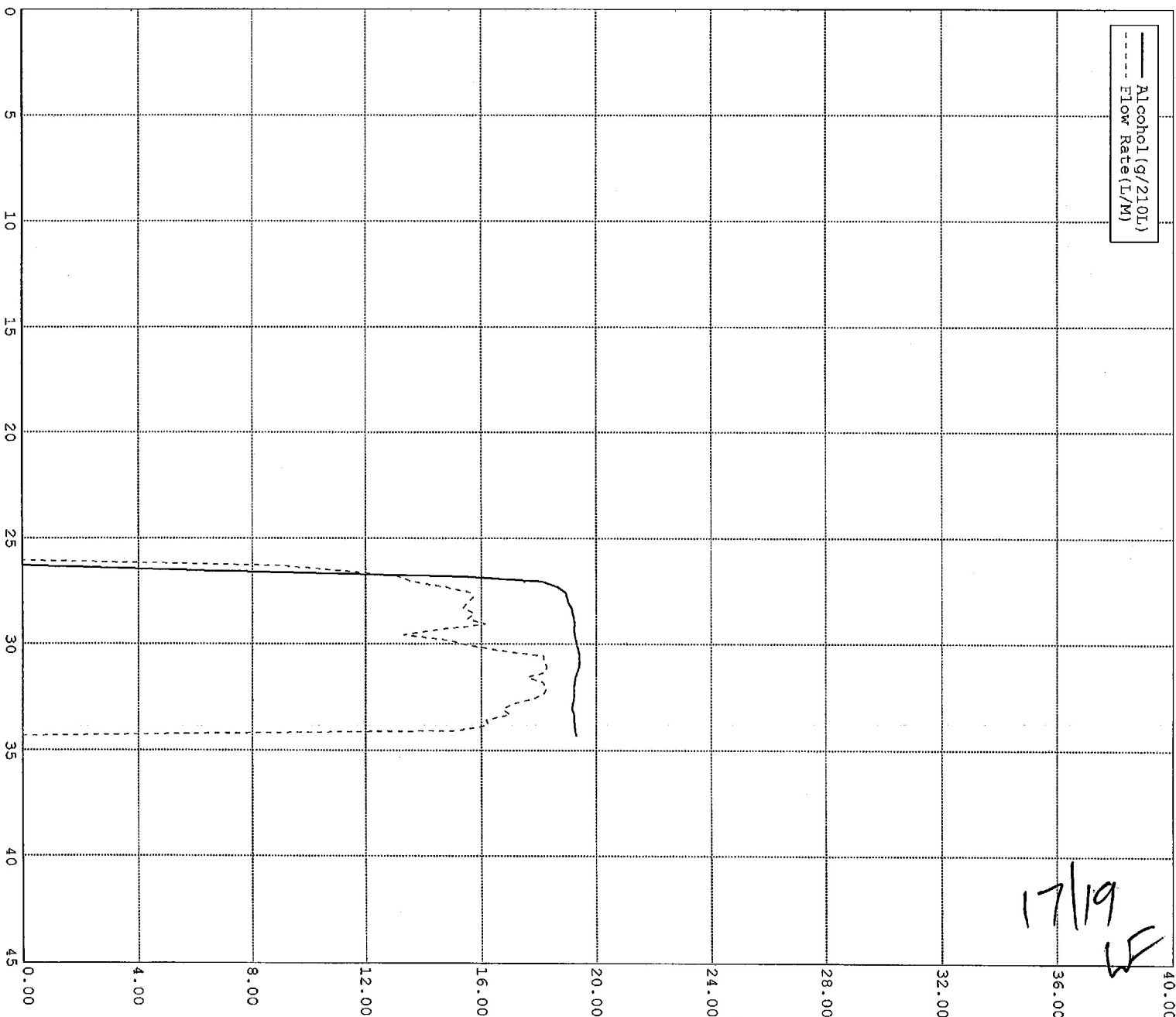
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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	11:28
BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
Xq = 0.088 (0.98%)		
EXTERNAL STANDARD	0.078	11:29
X[1] = 0.0785 (0.0007) (0.0013)		
BLANK TEST	0.000	11:30
SUBJECT SAMPLE (Vol=2.12L)	0.096	11:30
X[1] = 0.0967 (-0.0024) (-0.0004)		
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.078	11:32
X[1] = 0.0785 (0.0011) (0.0014)		
BLANK TEST	0.000	11:33



17/19
 LF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100670

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

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

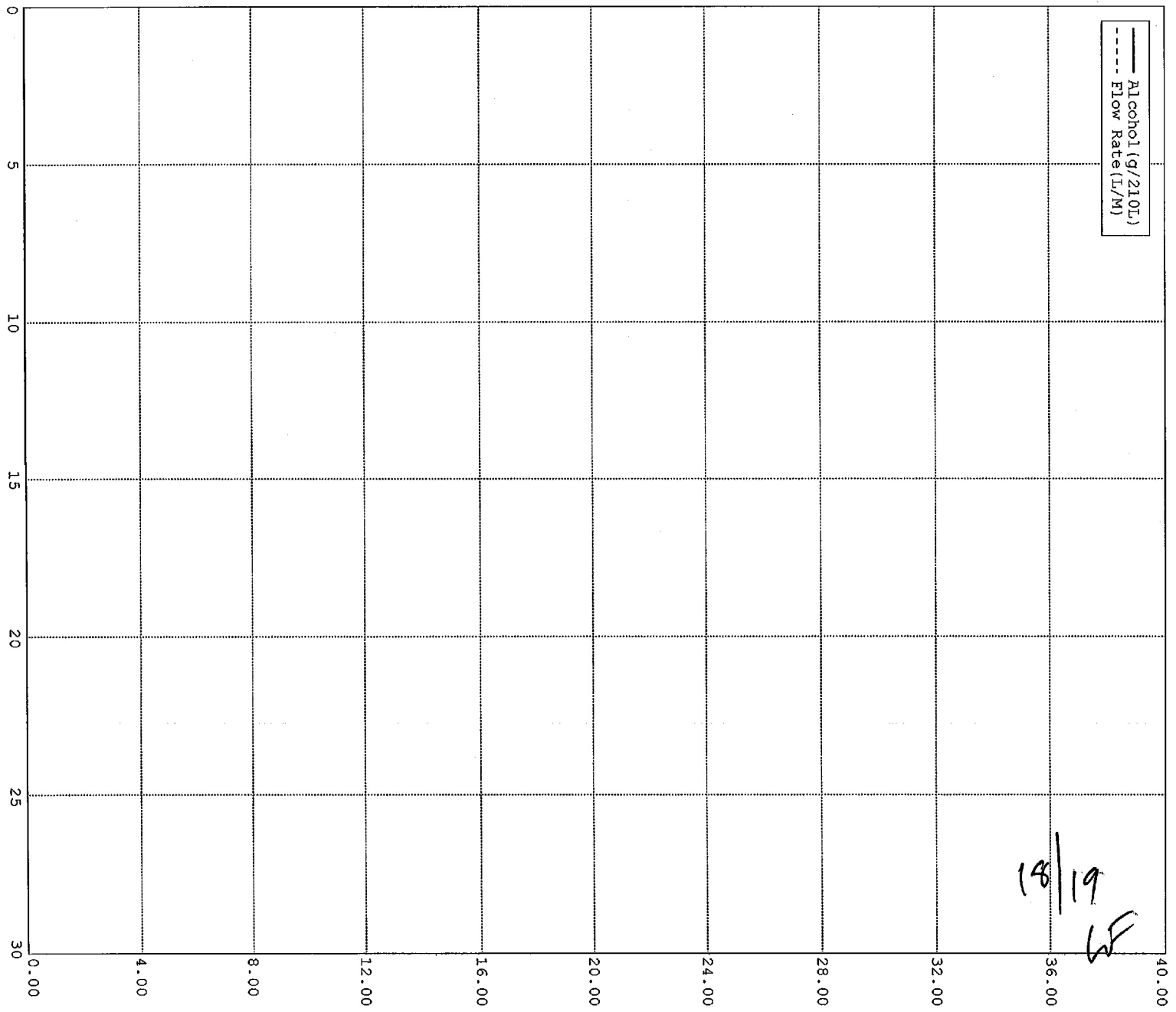
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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	11:44
BLANK TEST	0.000	11:44
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.078	11:44
BLANK TEST	0.000	11:45

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100670

Date: 04/30/2012
Time: 13:41:26

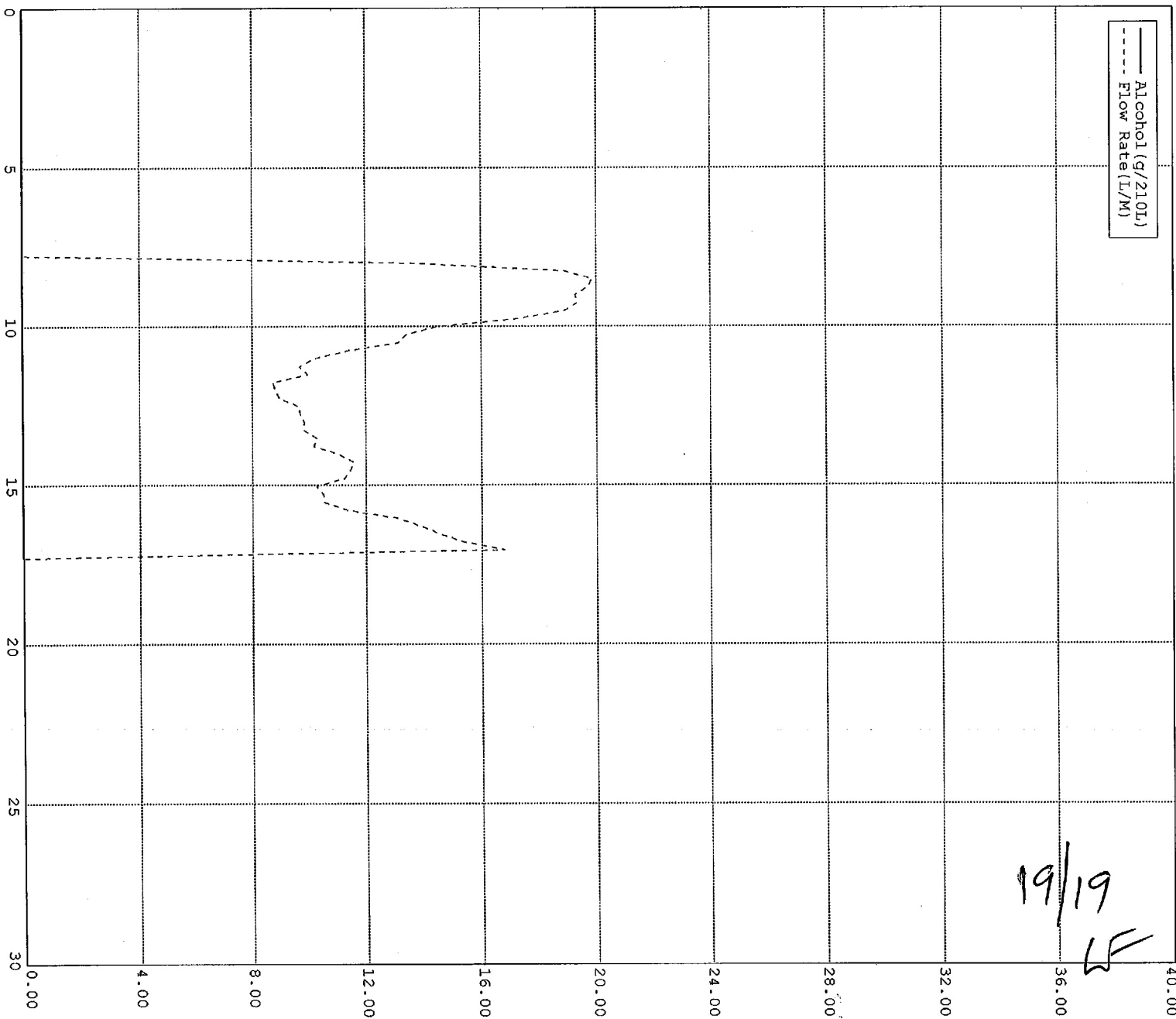
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:49
BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.079	13:49
BLANK TEST	0.000	13:50
SUBJECT SAMPLE	0.000	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.079	13:52
BLANK TEST	0.000	13:53



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11/19/2013