

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100389 Analyst CTF Start Date 8/1/12

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 07611100A3 Exp 3/1/13

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

1. Simulator S/N SD1198 Date Calibrated 1/10/12

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13

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

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/13

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

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/13

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

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1202 Date Calibrated 8/17/11

d. RFI

6. Verify stylus is calibrated

10. Verification of Calibration

7. Verify card reader is functional

11. Non-Drinking Subject Test (attached)

8. Reset Options

12. Upload

9. Clear Memory

13. Update agency information and polling status in DM Host Calling Program MA

End Date 8/2/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100389

Date: 08/01/2012
Time: 10:54:49

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO
Flow Rate = 5.242 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: 100389

Date: 08/01/2012
Time: 11:01 AM

Temperatures (°C)
Sample Cell: 49.9°C
Breath Tube: 47.4°C

Current Barometer 29.7 in
Volume (Ltr) 1.53

Settings
Lamp: 1.74 V
Bias: 80 V
Cooler: 1.78 V
Chopper: 545 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.036 V

3/19
WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100389

Date: 04/12/2011
Time: 14:51:47

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.989059 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0045 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1009 0.0500 <= Xq < 0.2000
a21 = 1.173159 1.050 <= a21 < 1.300
a31 = 0.422527 0.300 <= a31 < 0.800

4/19
CRF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 11:15:12

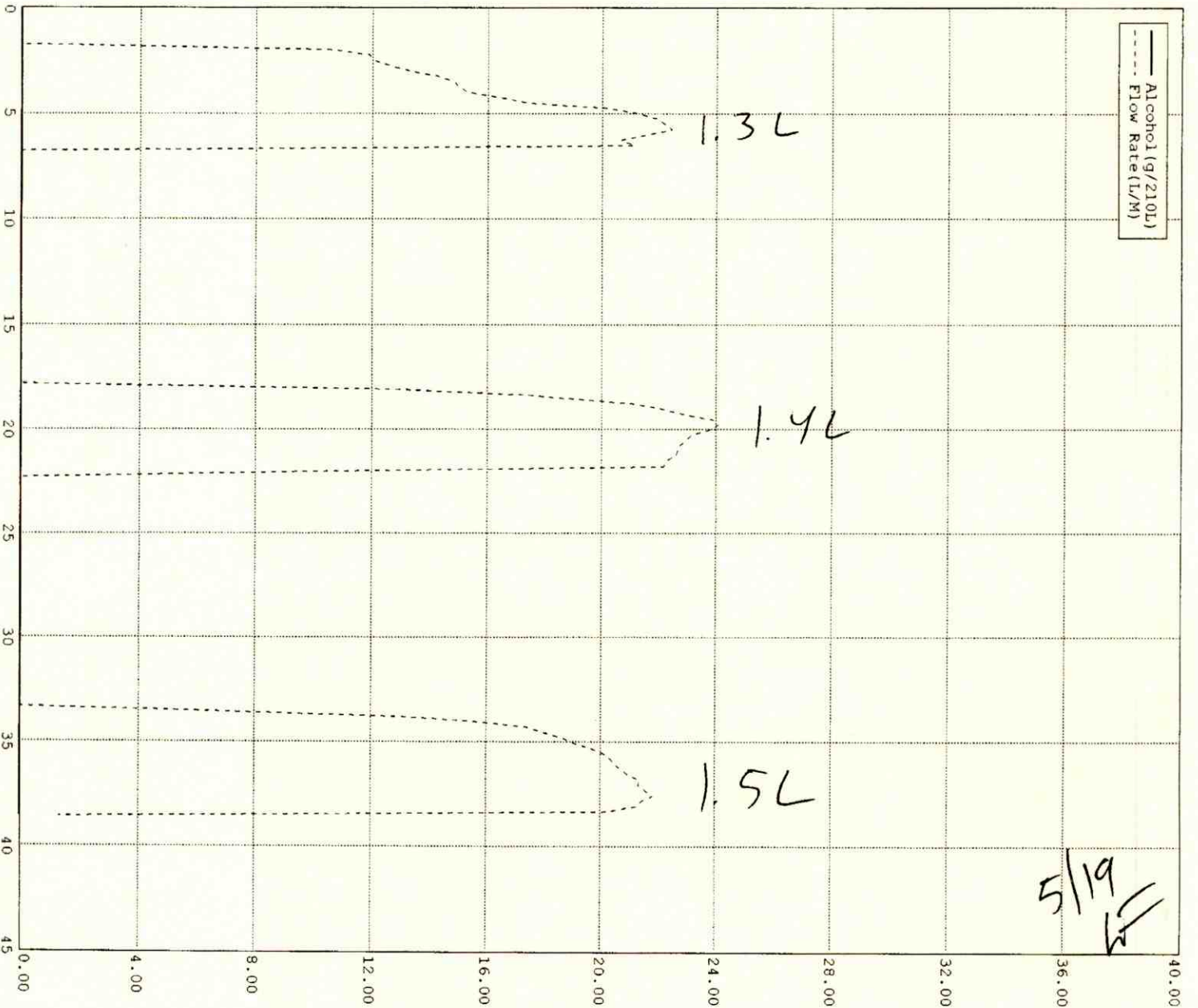
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AP 29.65: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:18
BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.078	11:19
BLANK TEST	0.000	11:20
SUBJECT SAMPLE	0.000	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.079	11:21
BLANK TEST	0.000	11:22



LINEARITY CHECK

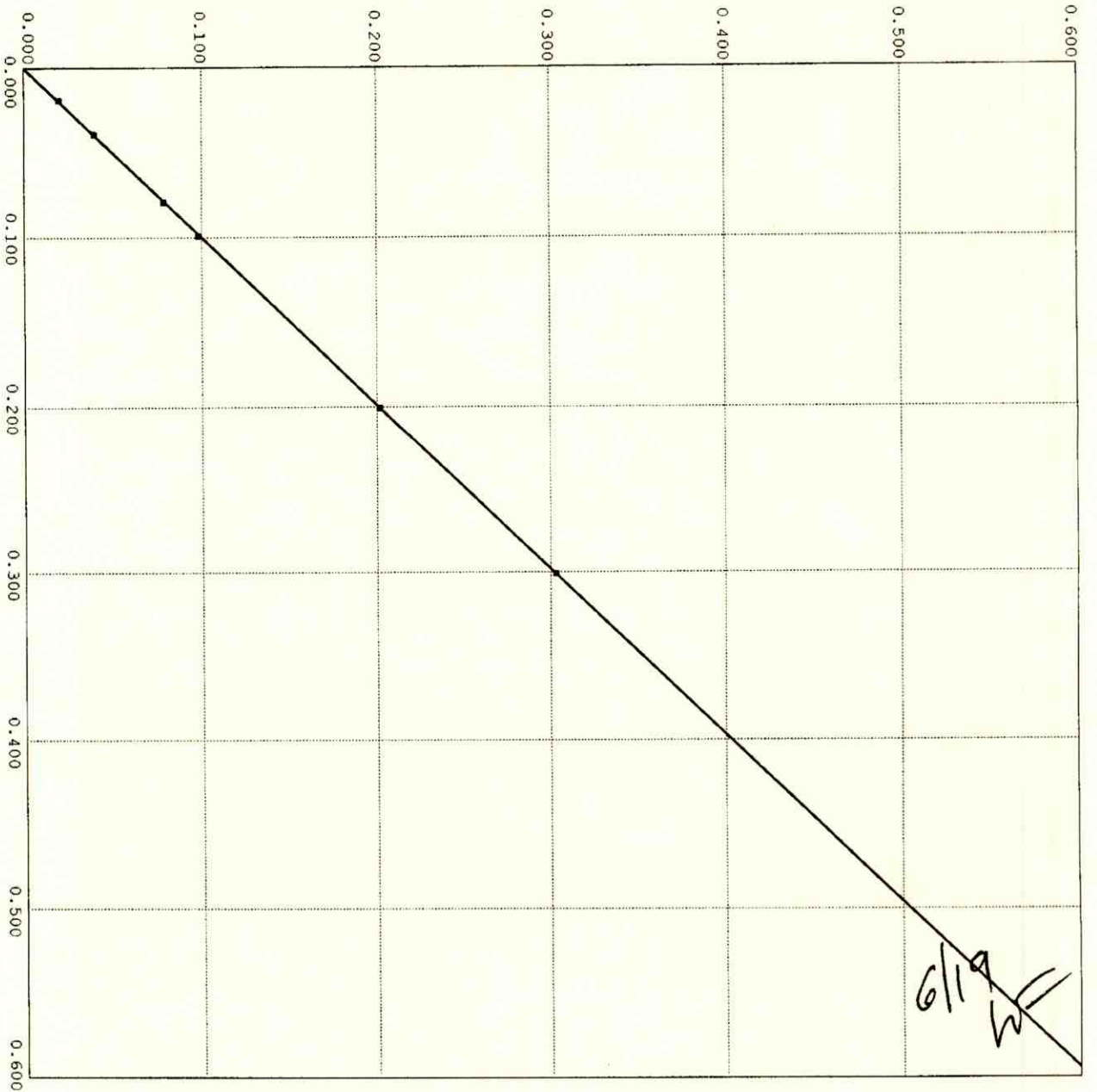
Alaska Department of Public Safety
DATAMASTER dmt: 100389

Date: 08/01/2012
Time: 12:31:33

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0004
0.039	0.0402	0.0002
0.079	0.0792	0.0002
0.099	0.0992	0.0002
0.200	0.2023	0.0005
0.300	0.3037	0.0001

SLOPE = 1.009913
R² = 0.999945



LINEARITY CHECK: Control Test 1

 Alaska Department of Public Safety
 DATAMASTER dmt: 100389

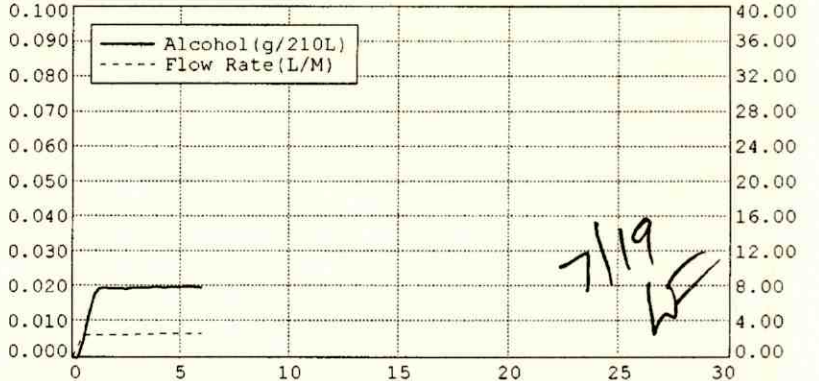
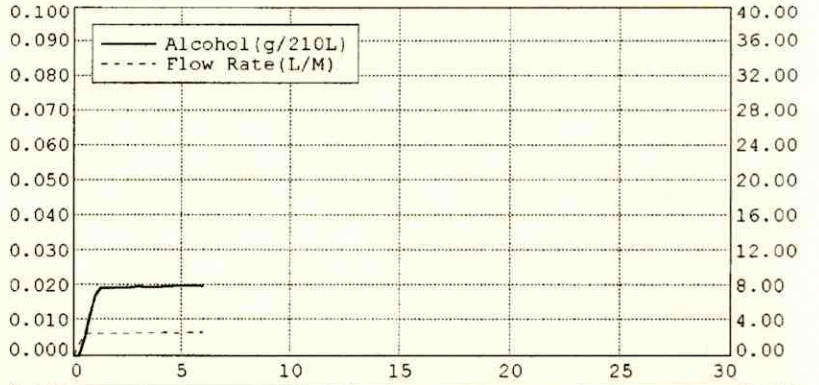
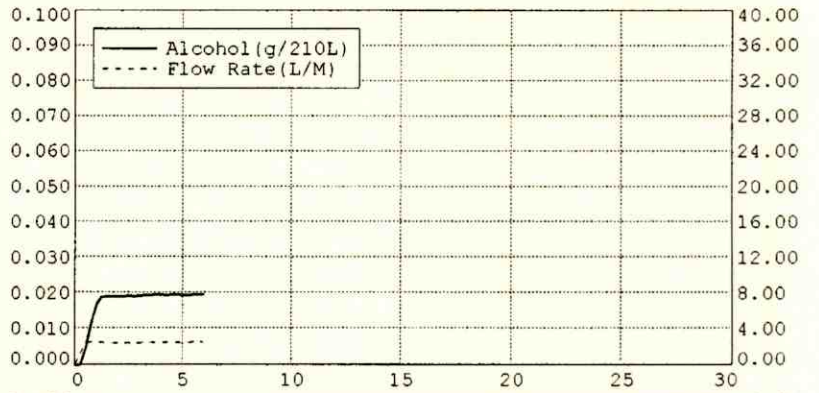
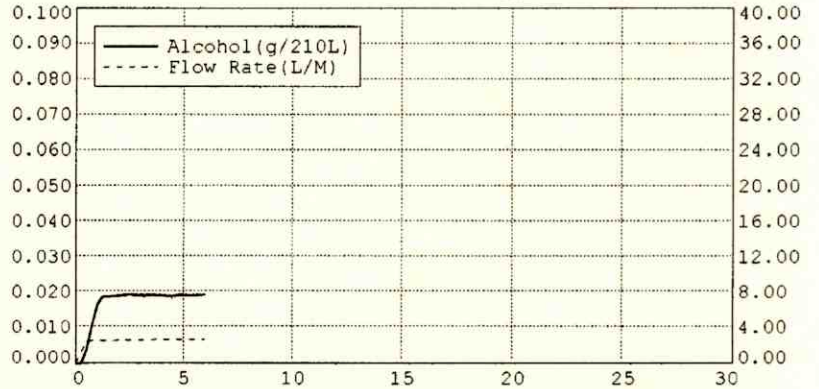
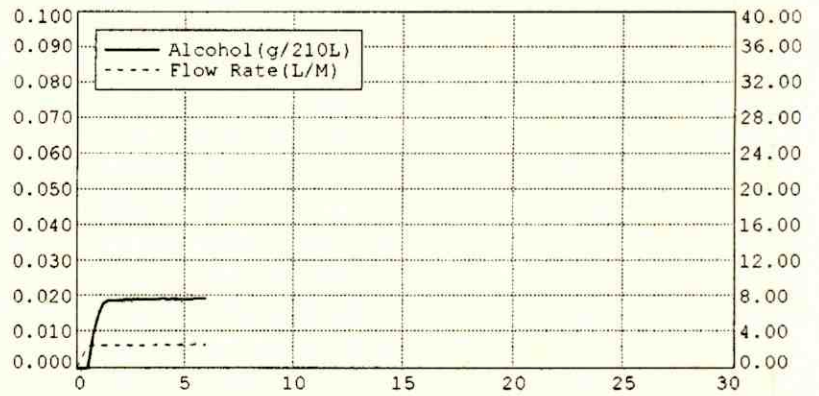
Date: 08/01/2012
 Time: 12:31:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.64: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:33
INTERNAL STANDARD	VERIFIED	12:33
EXTERNAL STANDARD	0.020	12:33
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.019	12:34
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.020	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.020	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.020	12:37
BLANK TEST	0.000	12:38

Average = 0.0204
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

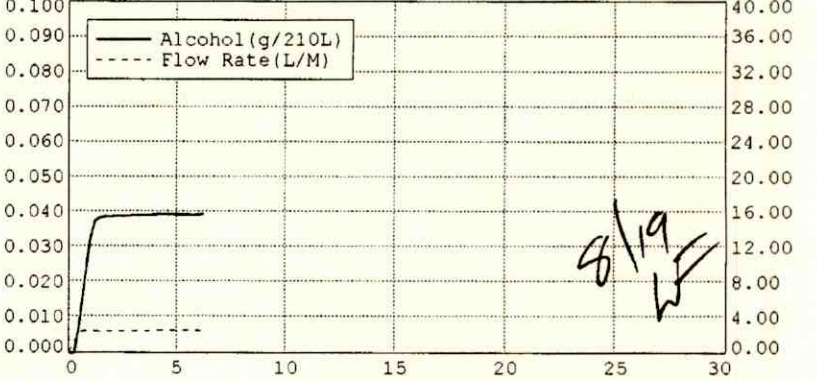
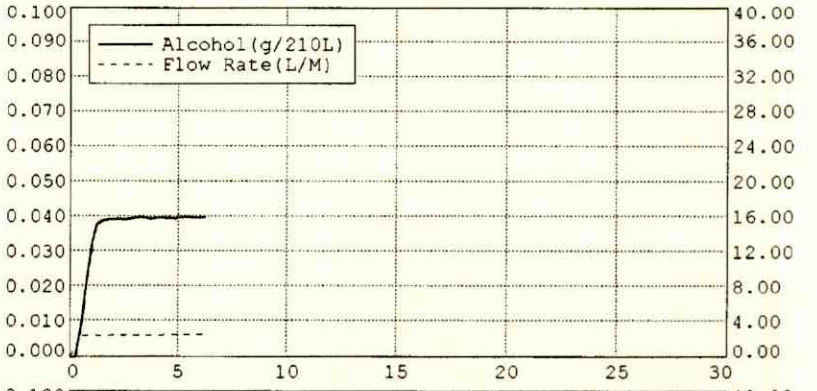
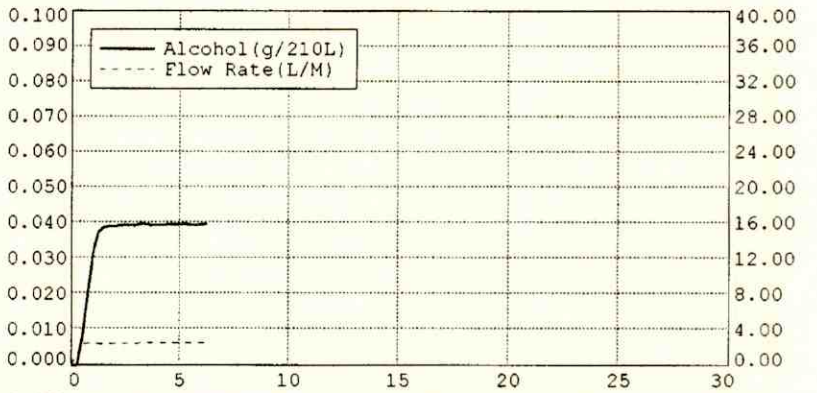
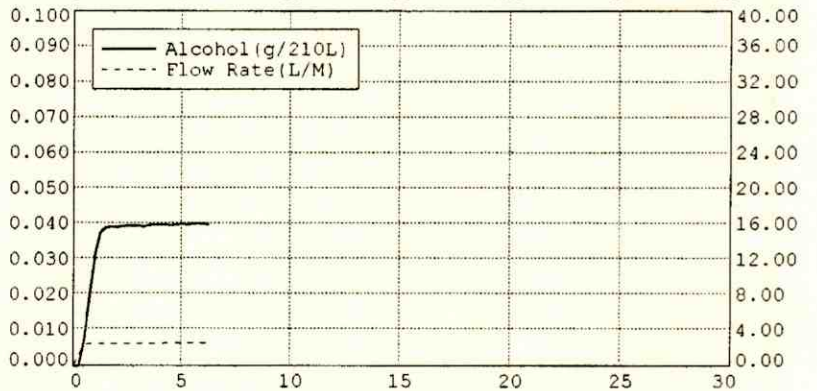
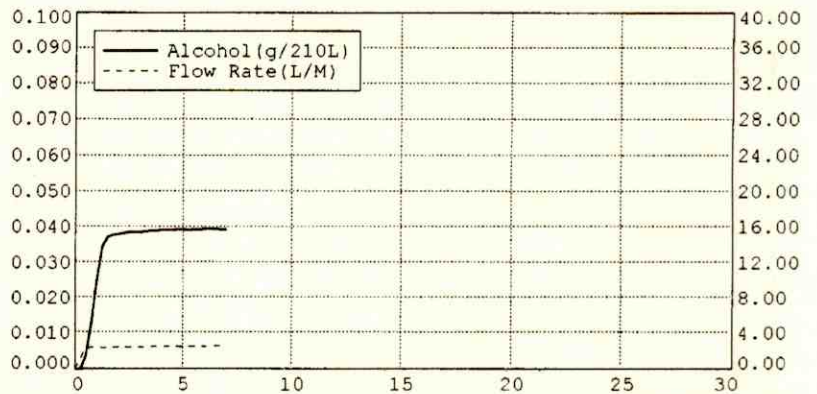
Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 12:39:30

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.64: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:40
INTERNAL STANDARD	VERIFIED	12:40
EXTERNAL STANDARD	0.040	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.040	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.040	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.040	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.040	12:45
BLANK TEST	0.000	12:46

Average = 0.0402
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

 Alaska Department of Public Safety
 DATAMASTER dmt: 100389

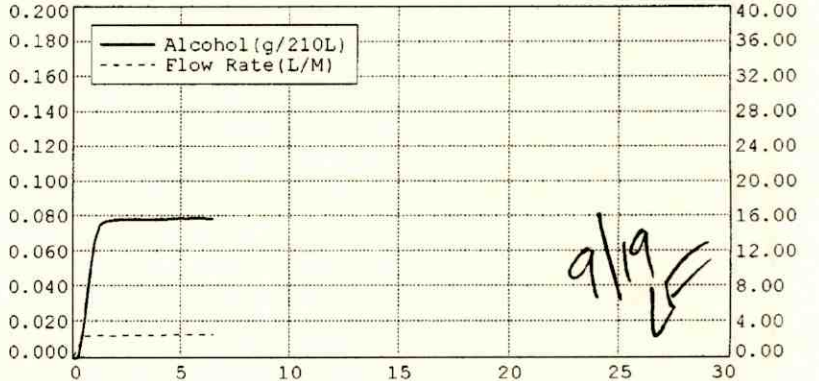
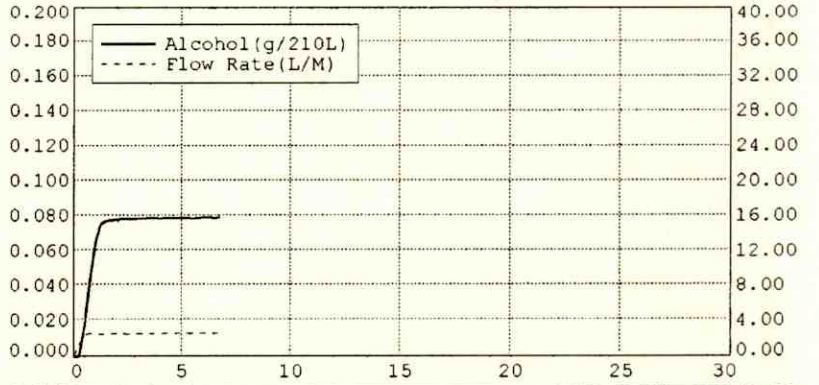
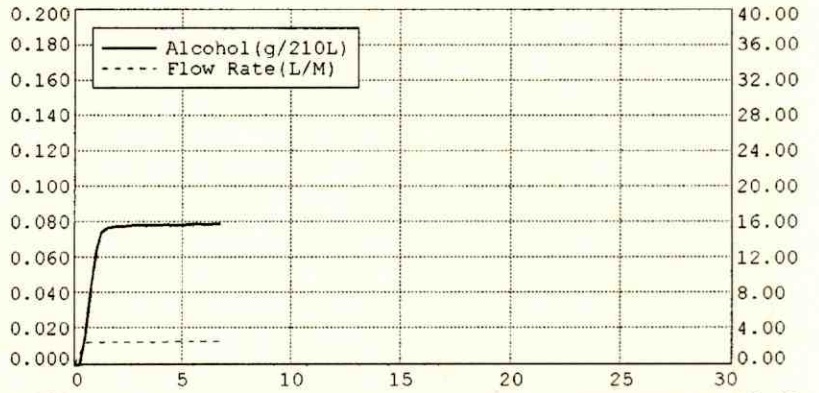
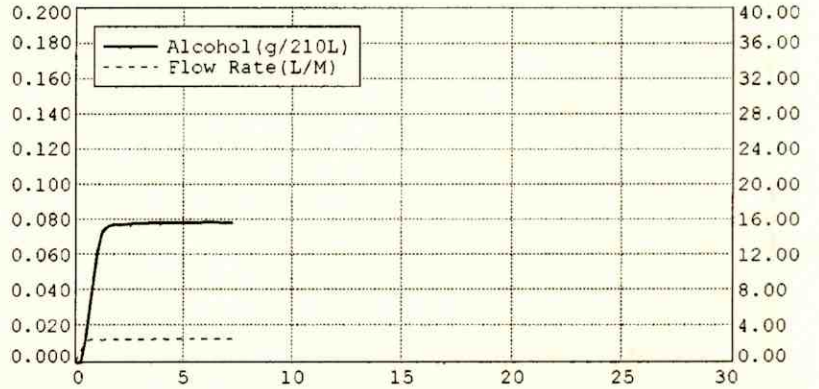
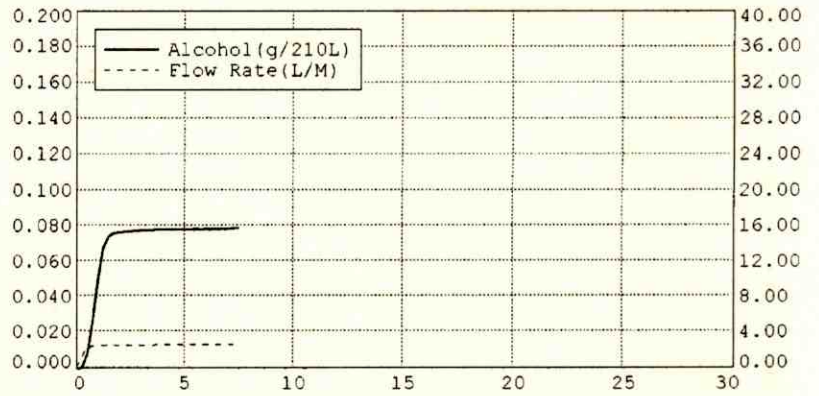
Date: 08/01/2012
 Time: 12:46:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:48
EXTERNAL STANDARD	0.079	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.079	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.079	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.079	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.079	12:52
BLANK TEST	0.000	12:53

Average = 0.0792
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

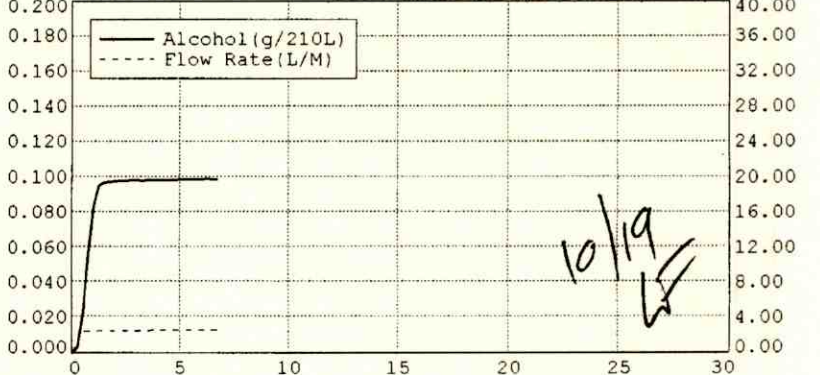
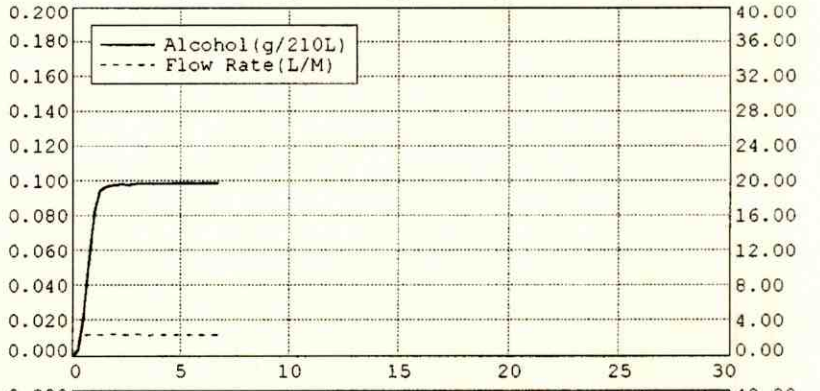
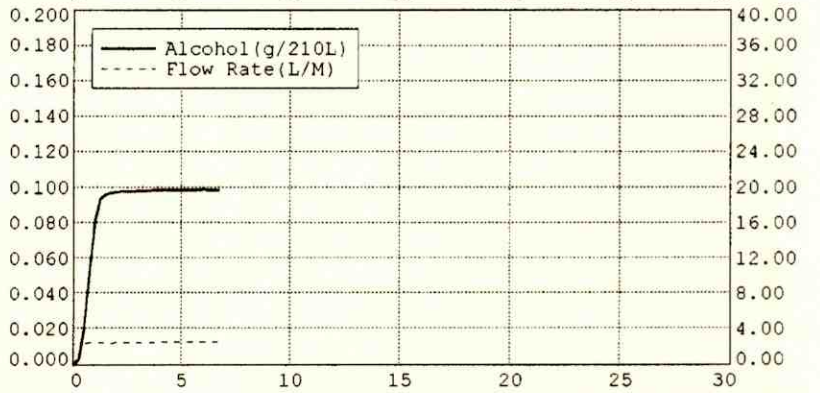
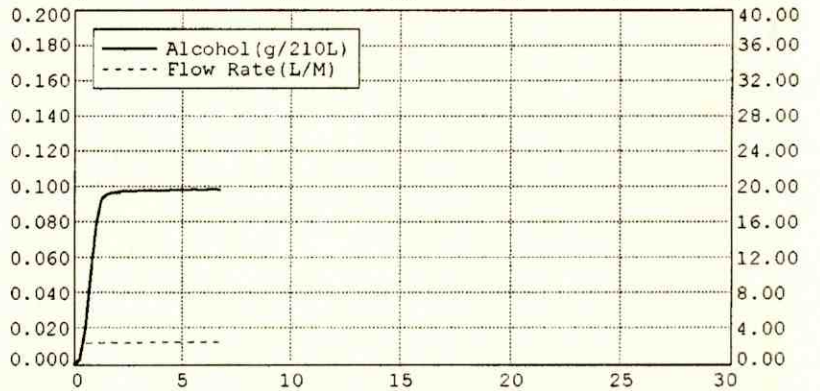
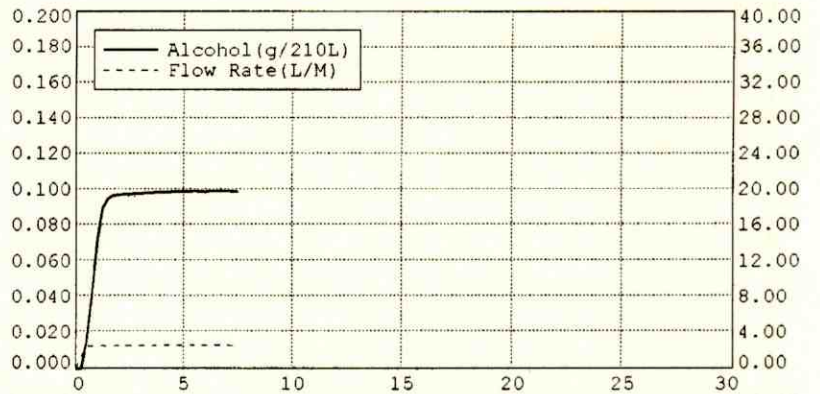
Date: 08/01/2012
 Time: 12:54:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.64: 0.099
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:55
INTERNAL STANDARD	VERIFIED	12:55
EXTERNAL STANDARD	0.099	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.098	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.099	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.099	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.099	13:00
BLANK TEST	0.000	13:01

Average = 0.0992
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

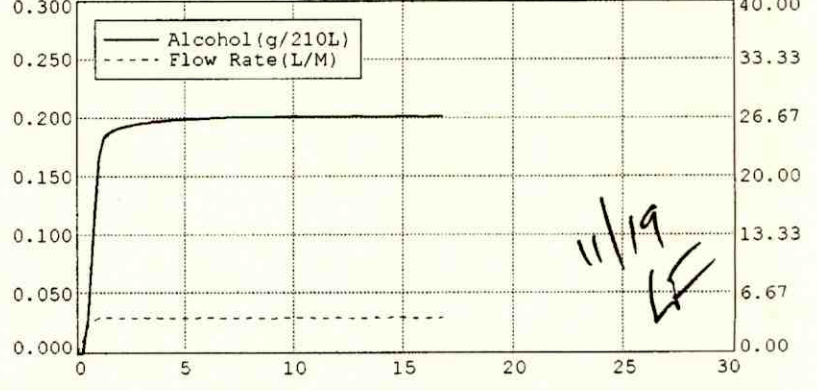
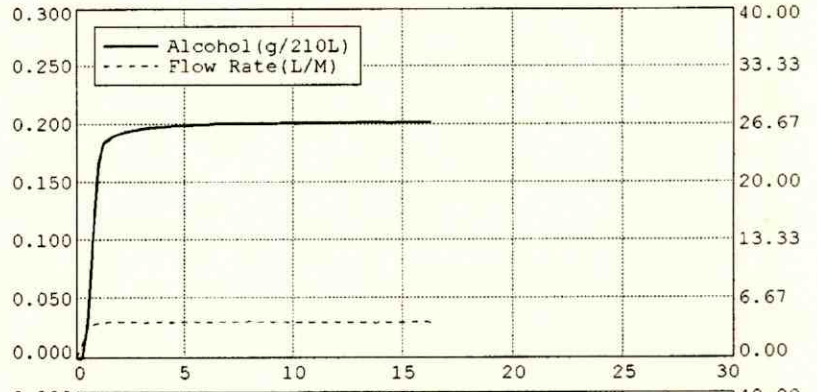
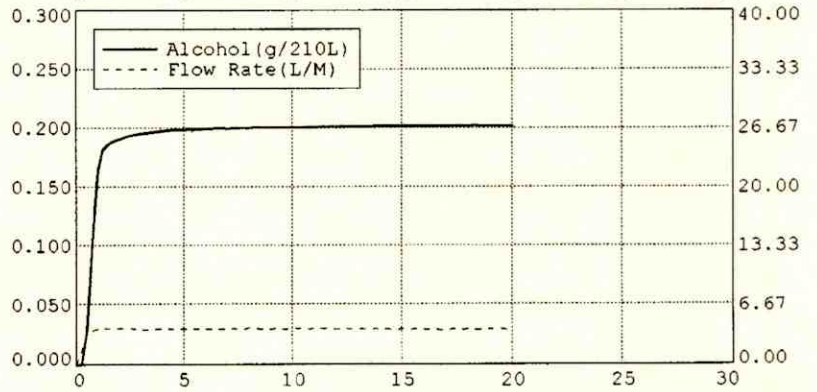
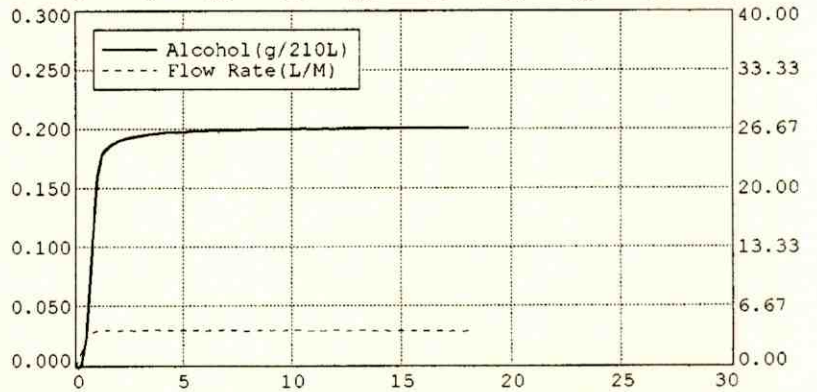
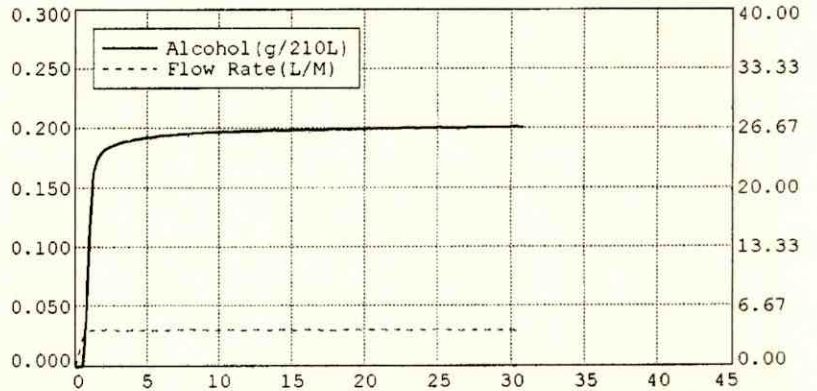
Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 13:02:51

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:03
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.201	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.202	13:06
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.203	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.202	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.202	13:10
BLANK TEST	0.000	13:10

Average = 0.2023
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

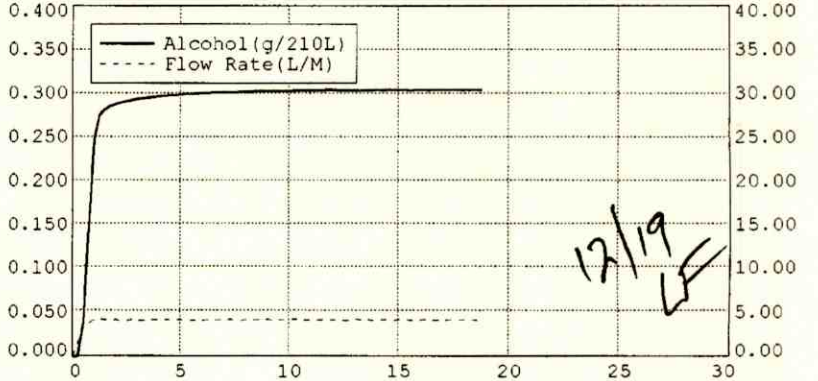
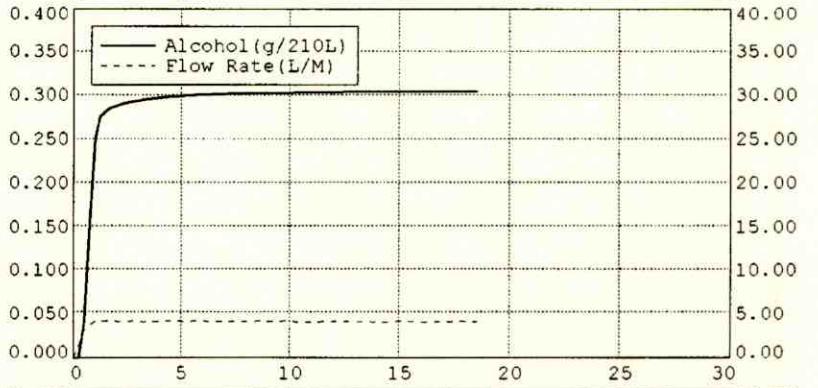
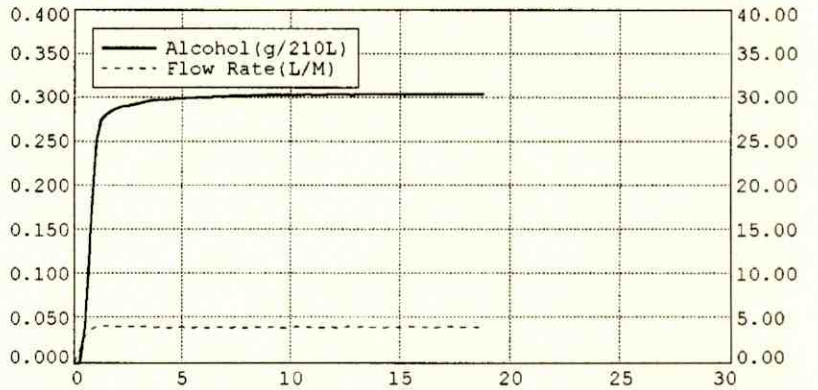
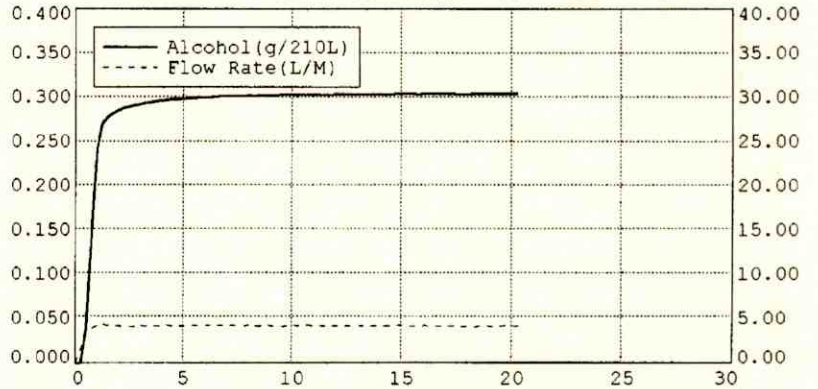
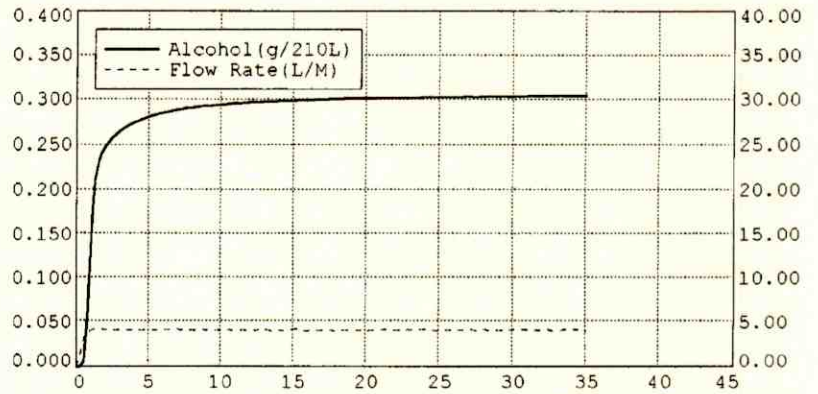
Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 13:13:00

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

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.303	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.303	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.303	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.303	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.303	13:20
BLANK TEST	0.000	13:21

Average = 0.3037
 Std Dev = 0.0001



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100389

Date: 08/01/2012
Time: 13:59:11

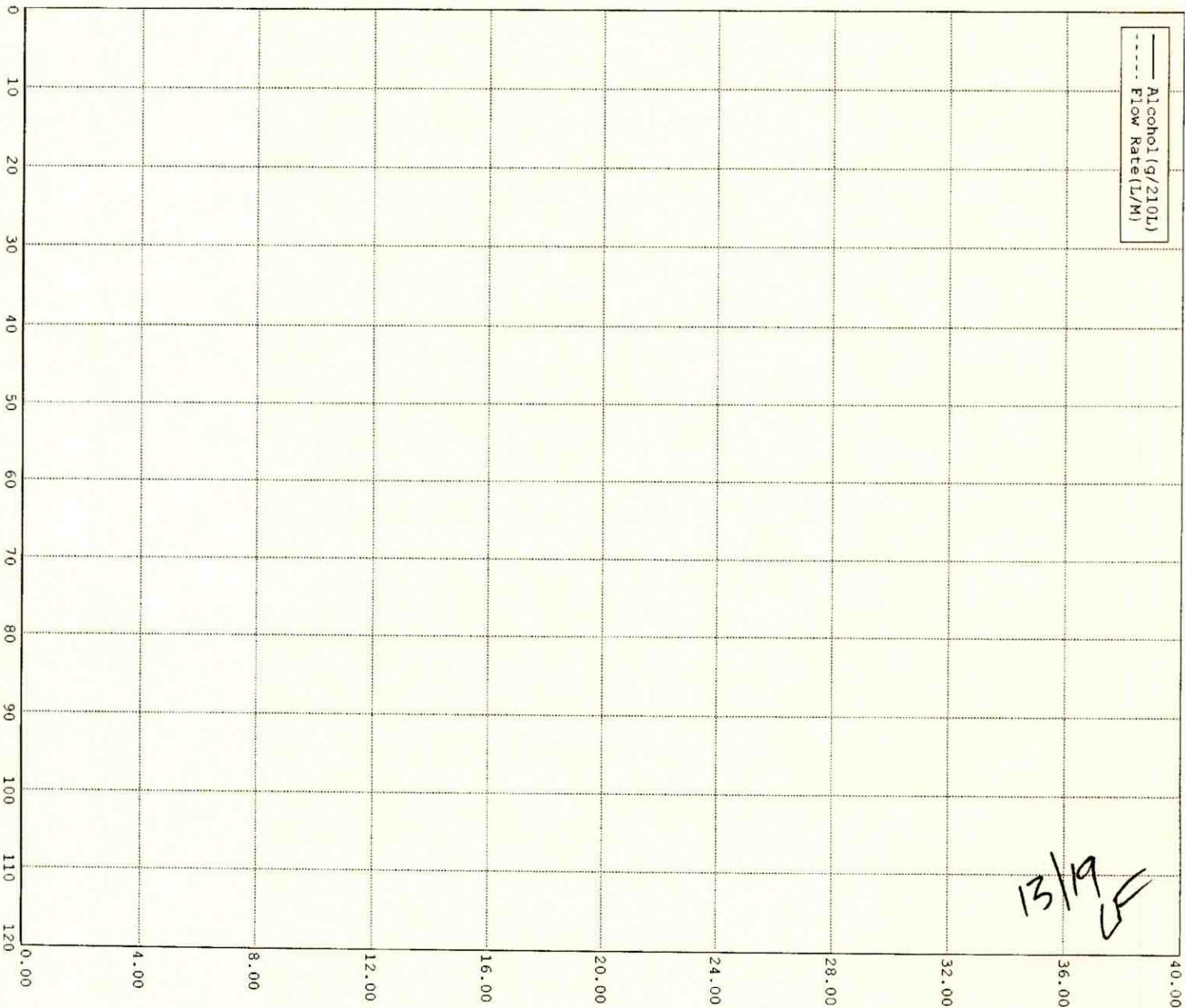
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:01
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	INCOMPLETE	14:05



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100389

Date: 08/01/2012
Time: 14:31:02

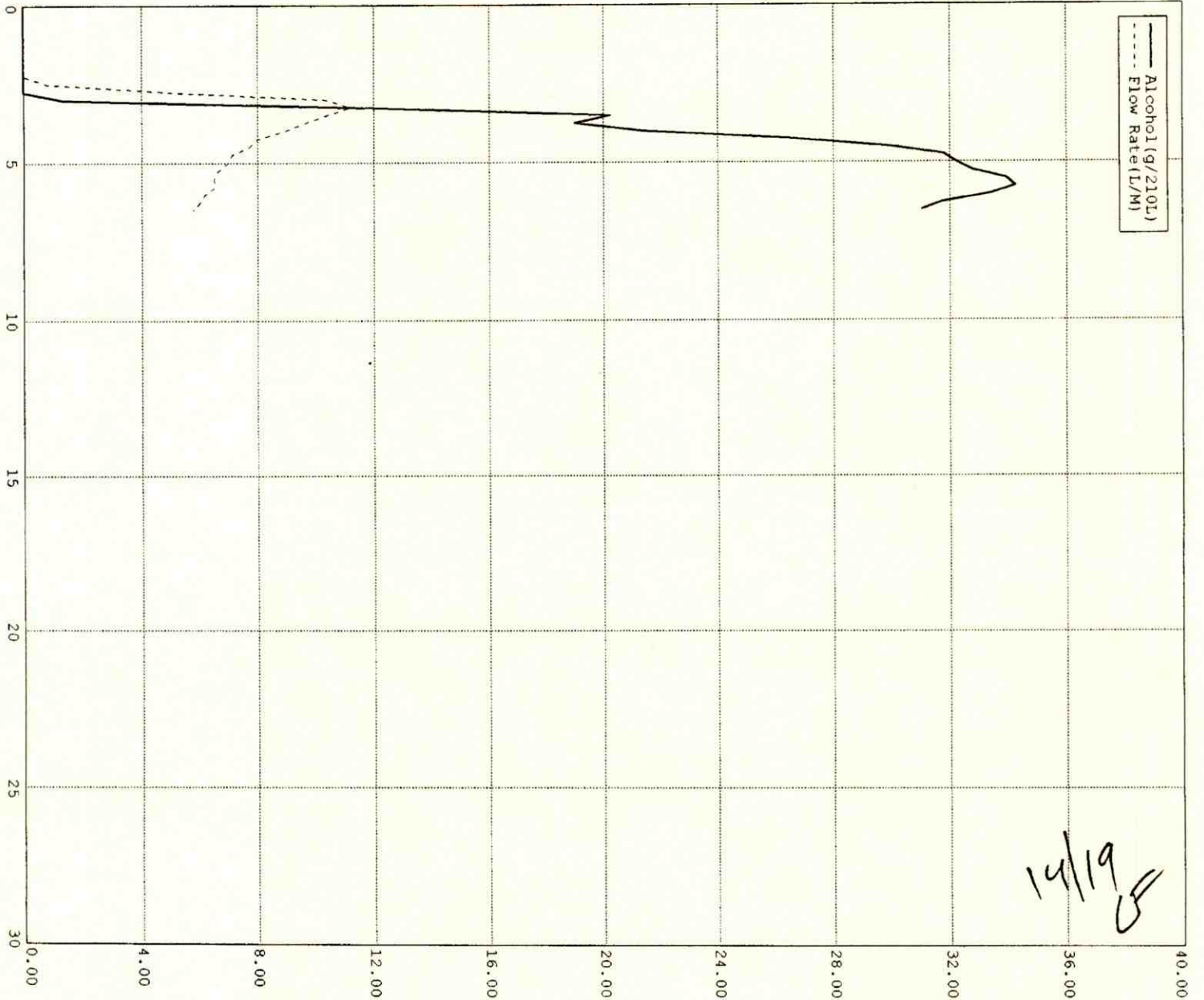
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID KNOWN MOUTH ETOH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:33
INTERNAL STANDARD VERIFIED 14:33
EXTERNAL STANDARD 0.079 14:34
BLANK TEST 0.000 14:35
SUBJECT SAMPLE INVALID 14:35



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 14:40:06

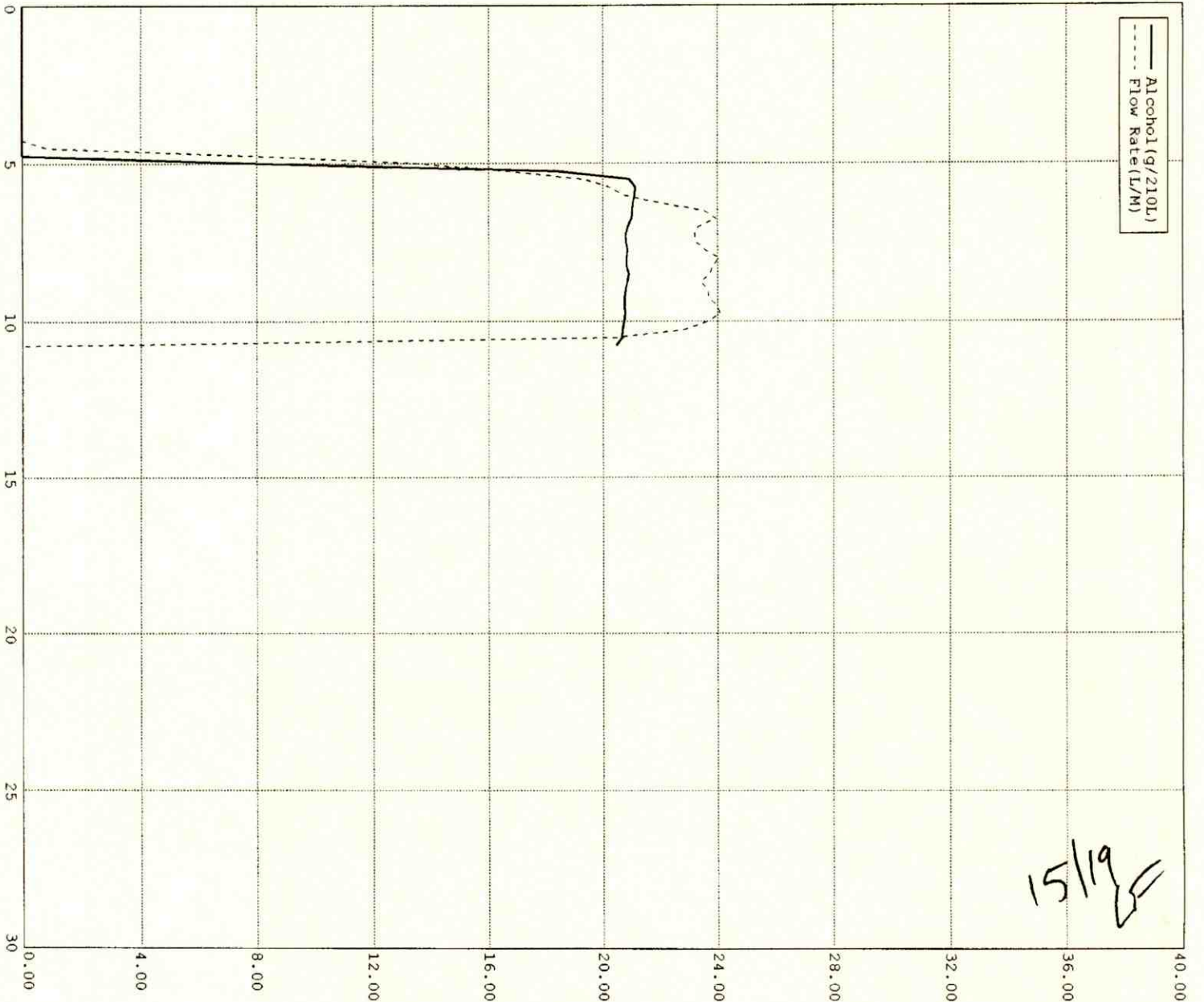
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.62: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
Xg = 0.101 (0.438)		
EXTERNAL STANDARD	0.078	14:42
X[1] = 0.0788 (0.0009)	(0.0020)	
BLANK TEST	0.000	14:43
SUBJECT SAMPLE	INTERFERENCE	14:43
X[1] = 0.1031 (-0.0147)	(0.0005)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 14:47:24

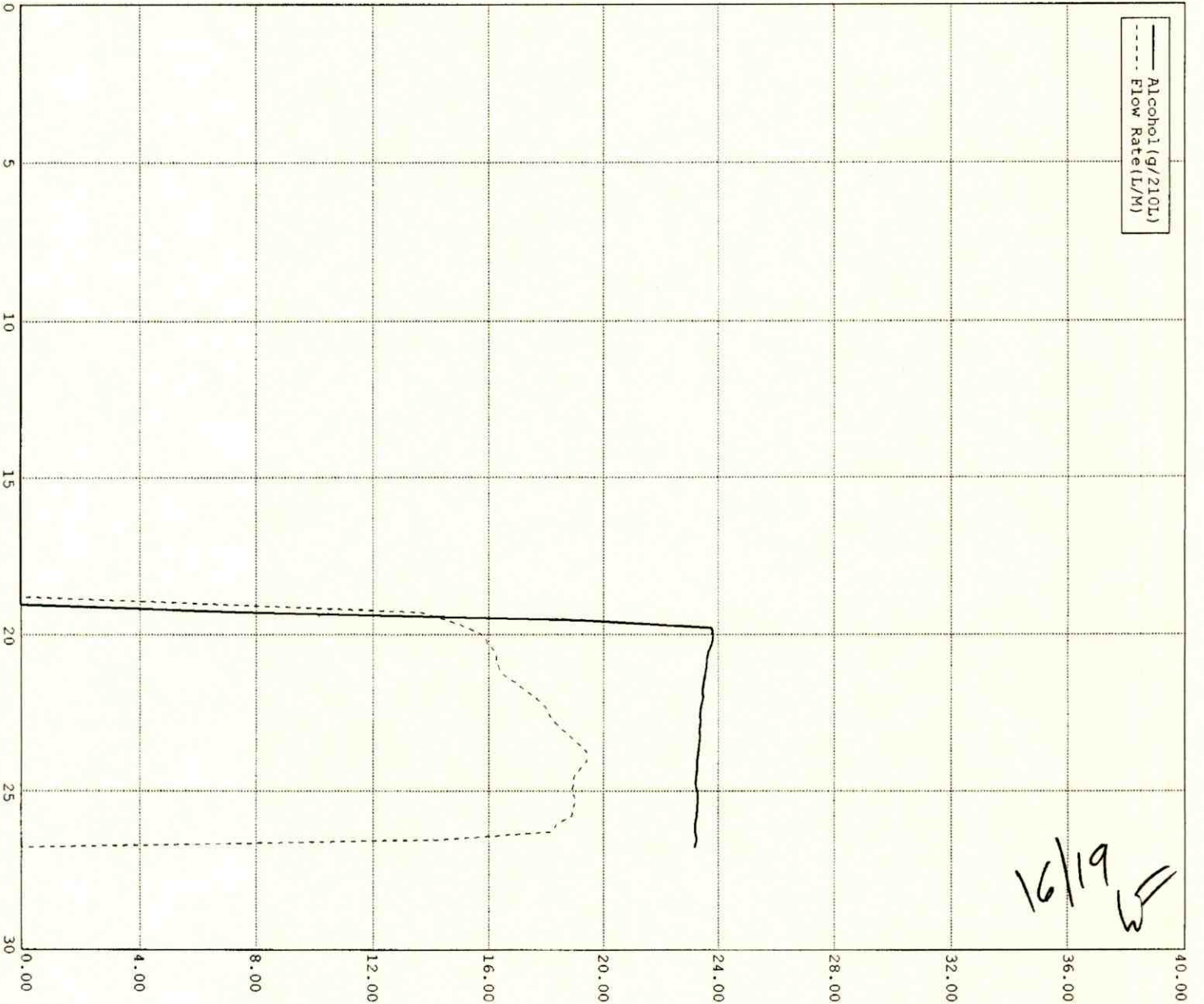
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.62: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 14:49
 BLANK TEST 0.000 14:49
 INTERNAL STANDARD VERIFIED 14:49
 $Xq = 0.101$ (0.09%)
 EXTERNAL STANDARD 0.078 14:50
 $X[1] = 0.0787$ (0.0003) (0.0017)
 BLANK TEST 0.000 14:50
 SUBJECT SAMPLE INTERFERENCE 14:51
 $X[1] = 0.1158$ (-0.0245) (0.0012)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 14:55:30

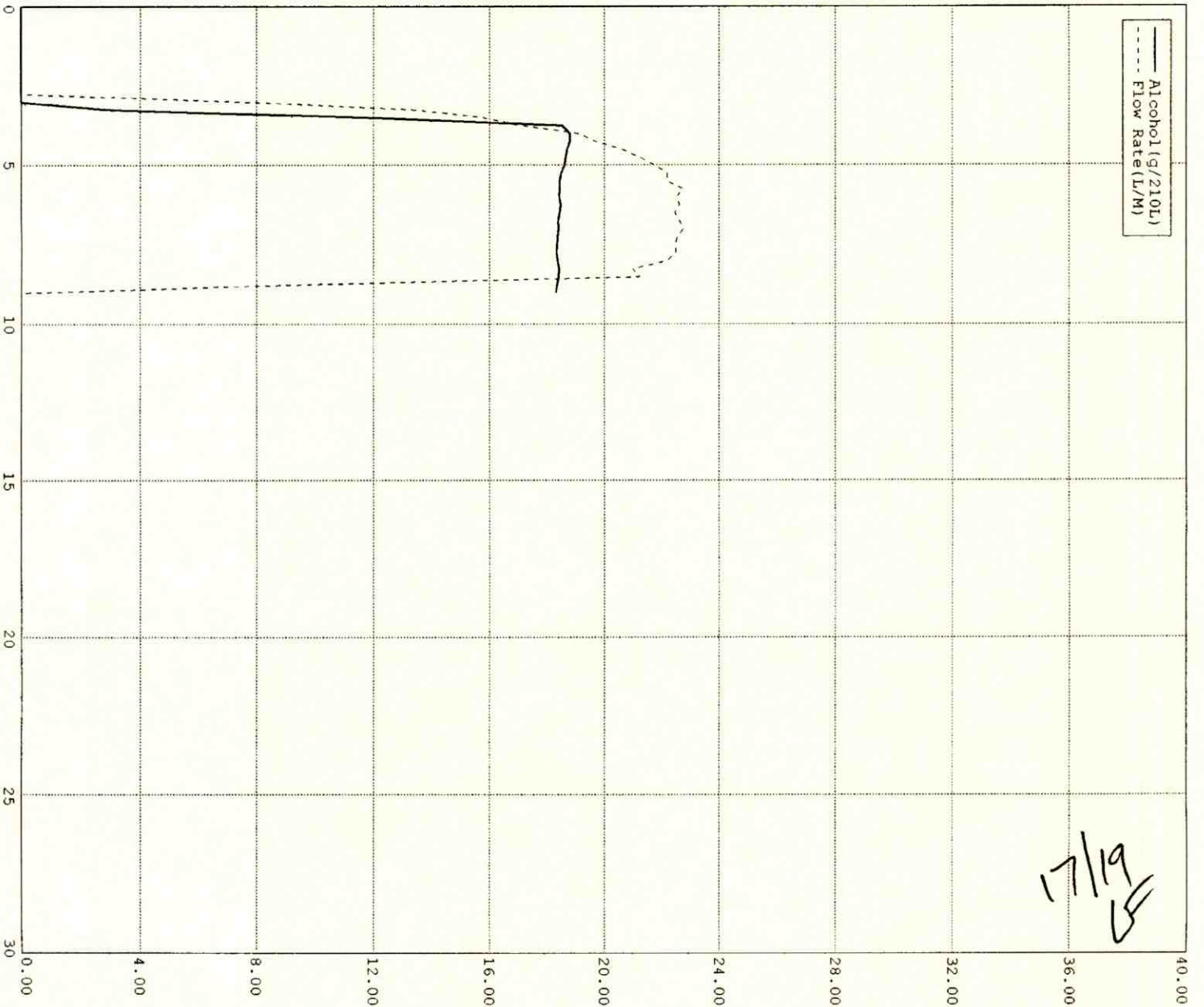
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.61: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:57
BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
Xq = 0.101 (0.268)	0.079	14:57
EXTERNAL STANDARD	X[1] = 0.0793 (0.0007)	0.0024
BLANK TEST	0.000	14:58
SUBJECT SAMPLE (Vol=1.99L)	0.091	14:59
X[1] = 0.0918 (0.0002)	0.0001	15:00
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	X[1] = 0.0793 (0.0008)	0.0009
BLANK TEST	0.000	15:01



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/01/2012
 Time: 15:24:31

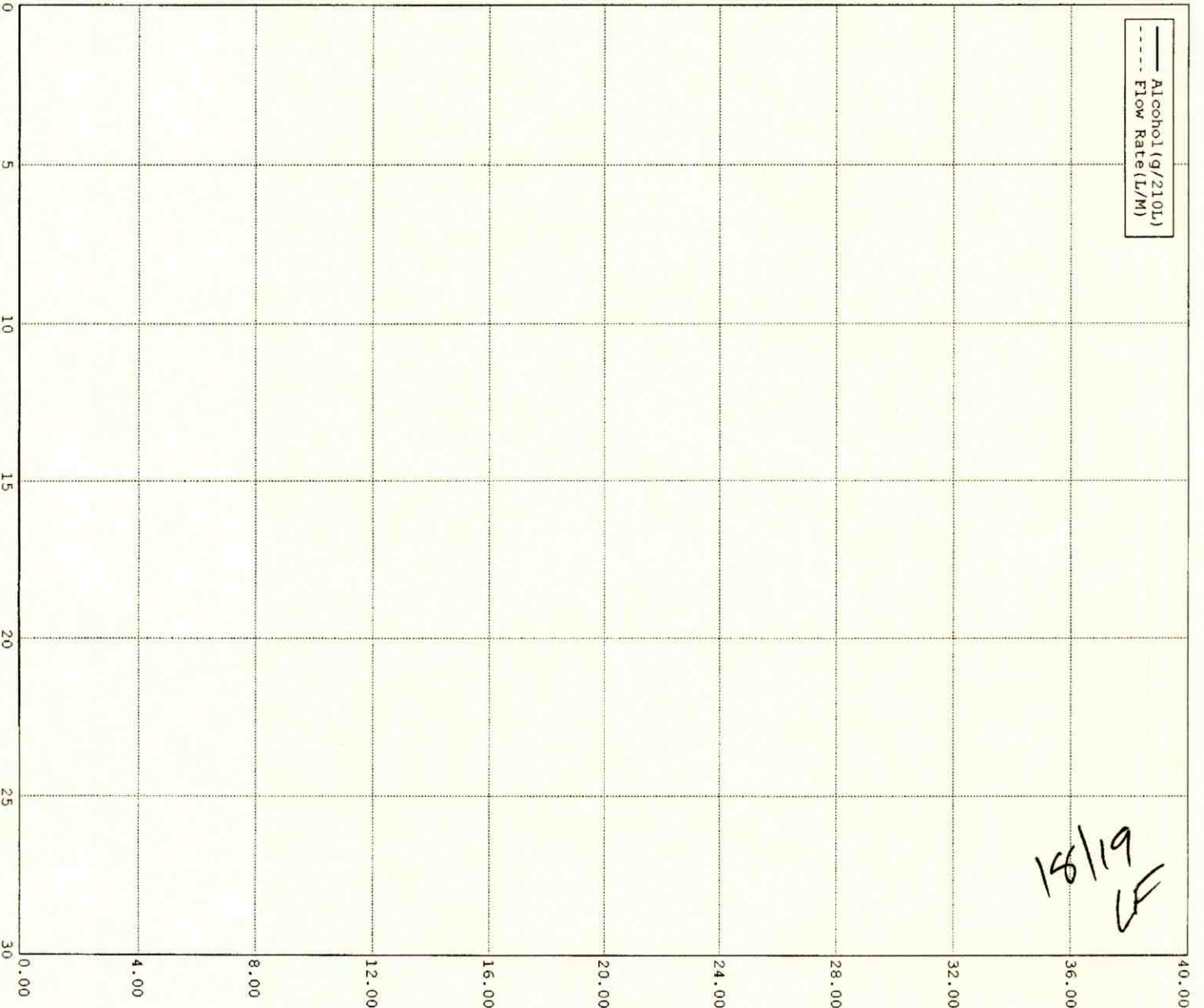
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 15:26
 BLANK TEST 0.000 15:26
 INTERNAL STANDARD VERIFIED 15:26
 EXTERNAL STANDARD 0.078 15:26
 BLANK TEST 0.000 15:27
 RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100389

Date: 08/02/2012
 Time: 08:11:10

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 29.59: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:13
BLANK TEST	0.000	08:13
INTERNAL STANDARD	VERIFIED	08:13
EXTERNAL STANDARD	0.078	08:13
BLANK TEST	0.000	08:14
SUBJECT SAMPLE	0.000	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.079	08:16
BLANK TEST	0.000	08:17

