

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

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

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100403 Analyst CRF Start Date 7/17/12  
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 1400 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 DR4163 Date Calibrated 8/18/11

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

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  WA

End Date 7/23/12

All printed copies are uncontrolled.

Approved by Forensic Alcohol Supervisor 1/19 WF

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100403  
-----

Date: 07/17/2012  
Time: 09:45:46

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 47.4°C	PASSED

PUMP INFO

Flow Rate = 5.235 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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2/19 WF

Technician Screen

-----  
DATAMASTER dmt: 100403  
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Date: 07/17/2012  
Time: 10:33 AM

Temperatures (°C)  
Sample Cell: 48.7°C  
Breath Tube: 47.9°C

Current Barometer 30.0 in  
Volume (Ltr) 1.53

Settings  
Lamp: 1.73 V  
Bias: 79 V  
Cooler: 1.67 V  
Chopper: 541 Hz

Voltages (V)  
Flow: 1.05 V  
Detector: -0.067 V

3/19 GF

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100403  
-----

Date: 05/18/2011  
Time: 13:44:51

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 10/25/2010

Ca = 0.1000  
CAL = 0.986050    0.800 <= CAL < 1.200  
b1 = 0.0000    0.0000 <= b1 < 0.0040  
b2 = 0.0043    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0743    0.0500 <= Xq < 0.2000  
a21 = 1.112347    1.050 <= a21 < 1.300  
a31 = 0.534530    0.300 <= a31 < 0.800

4/19 WF

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100403

Date: 07/17/2012  
Time: 10:37:54

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

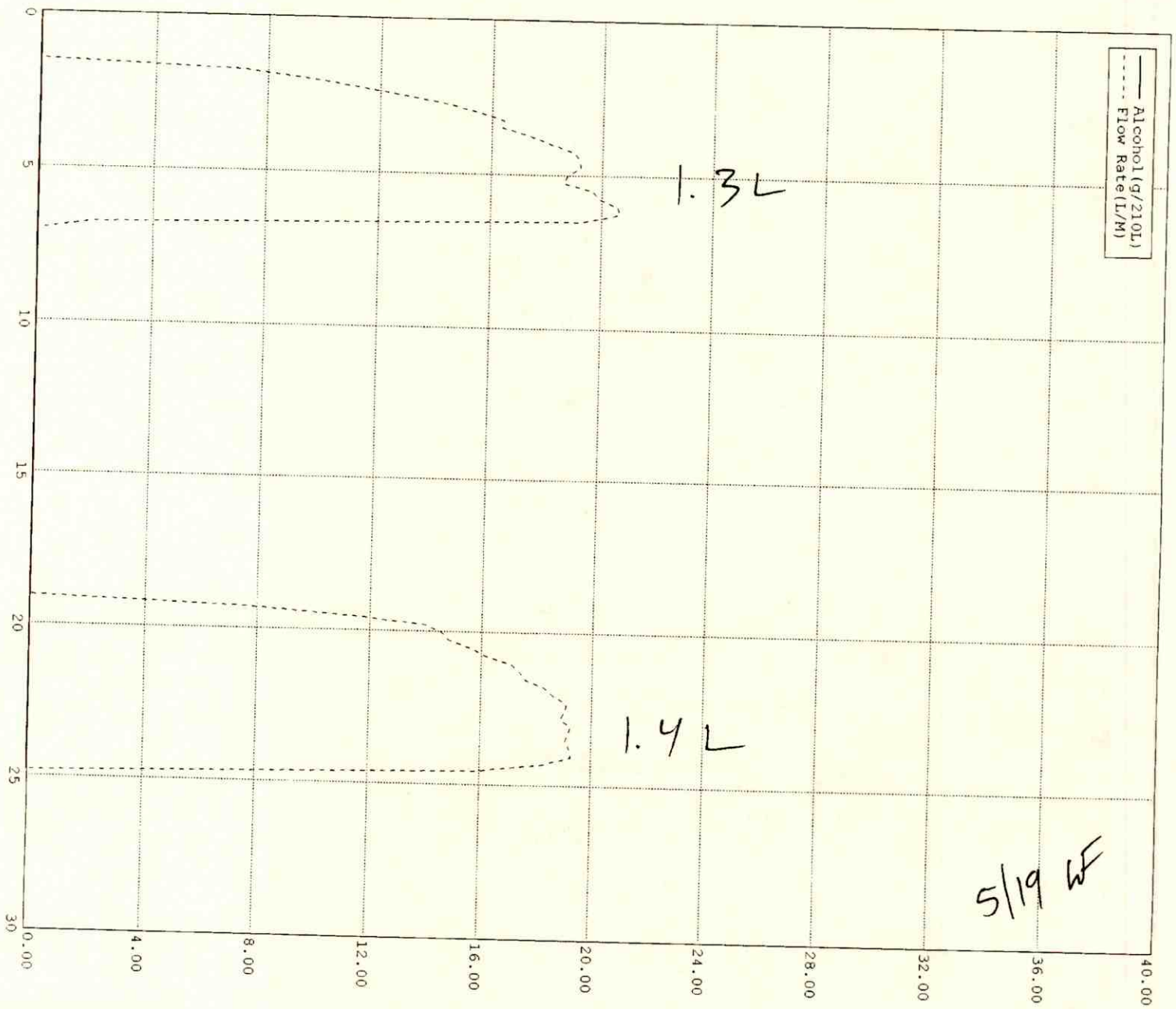
OPERATOR NAME:  
MINIMUM VOLUME  
OPERATOR'S #: XXXX

DEPT/AGENCY:  
XXXX

CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 30.00: 0.080  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:52
BLANK TEST	0.000	10:52
INTERNAL STANDARD	0.083	10:52
EXTERNAL STANDARD	0.000	10:52
BLANK TEST	0.000	10:53
SUBJECT SAMPLE	0.000	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.083	10:55
BLANK TEST	0.000	10:56



LINEARITY CHECK

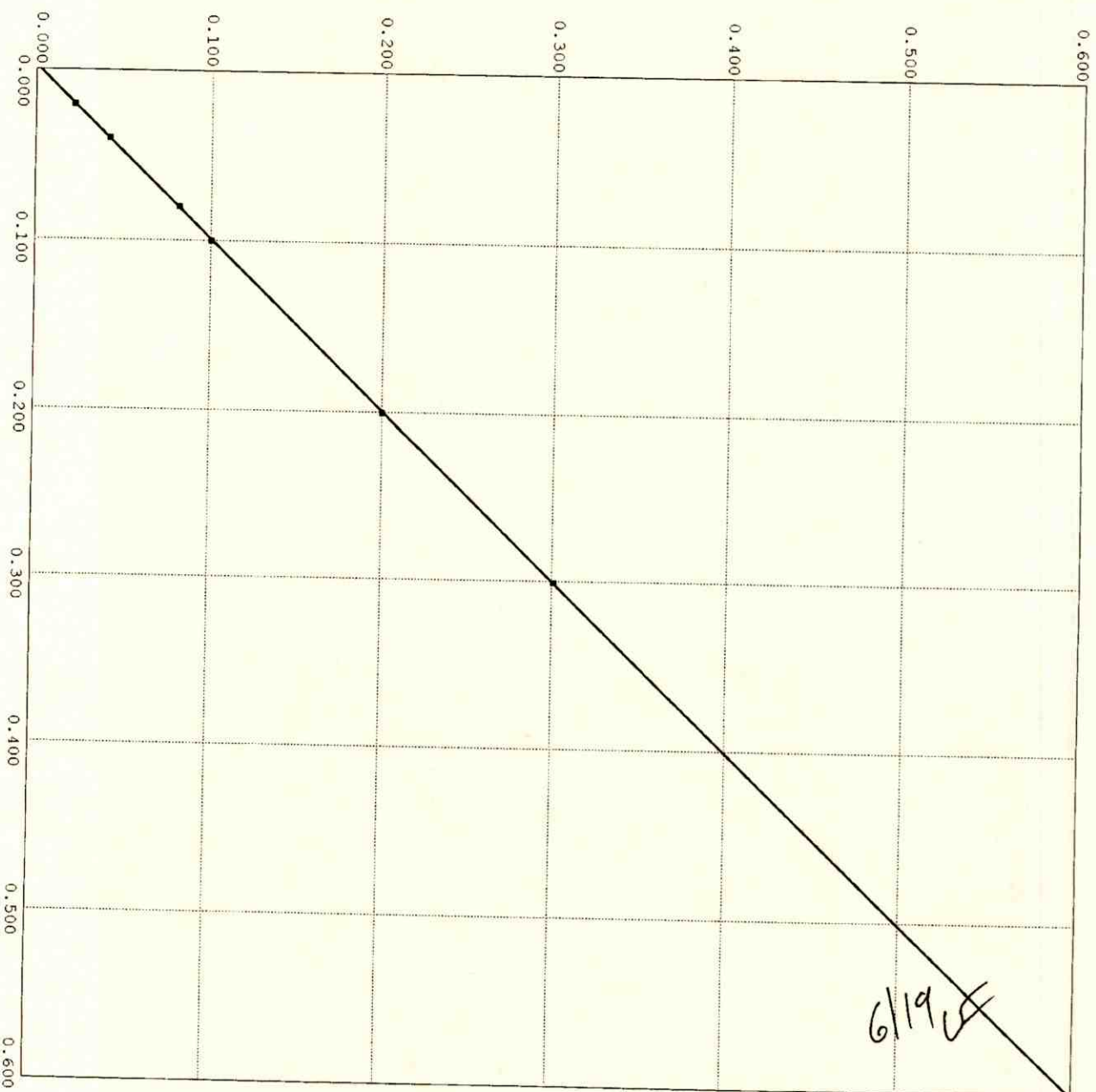
Alaska Department of Public Safety  
 DATAMASTER dnt: 100403

Date: 07/17/2012  
 Time: 11:56:06

SUPERVISOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0226	0.0004
0.040	0.0430	0.0002
0.080	0.0829	0.0003
0.100	0.1014	0.0003
0.200	0.2008	0.0003
0.300	0.3018	0.0003

SLOPE = 0.994576  
 R<sup>2</sup> = 0.999959



LINEARITY CHECK: Control Test 1

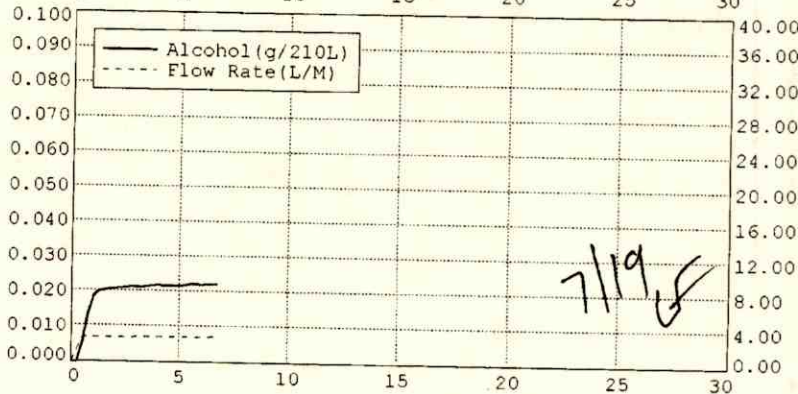
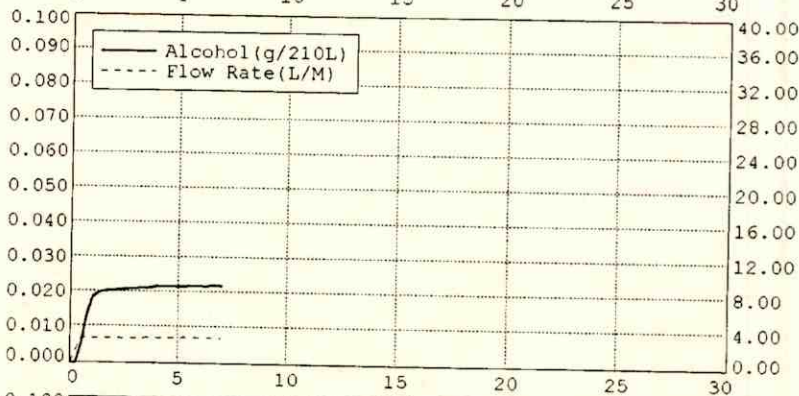
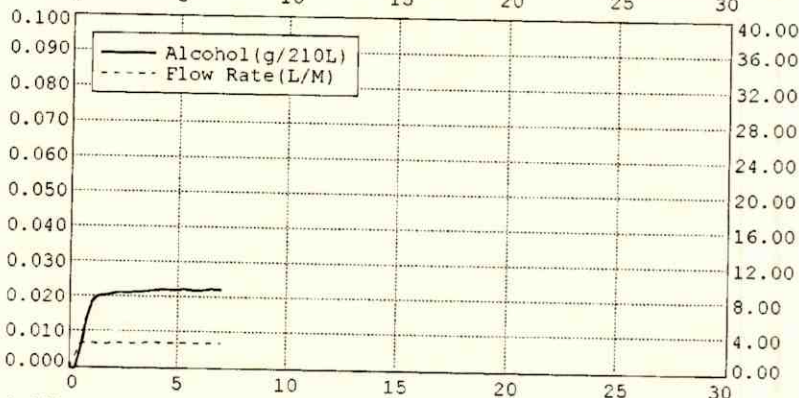
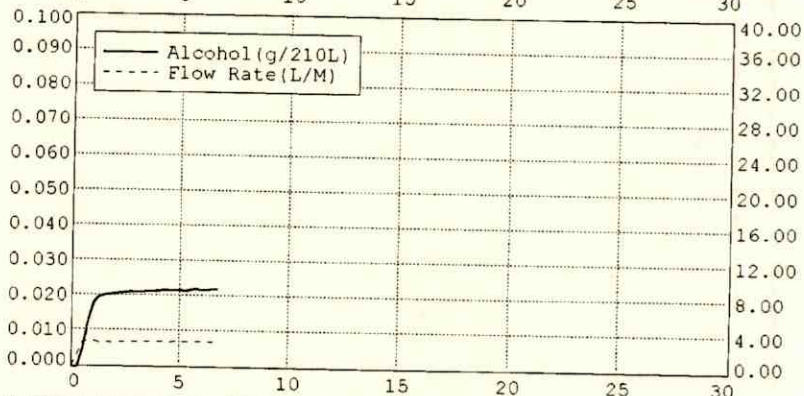
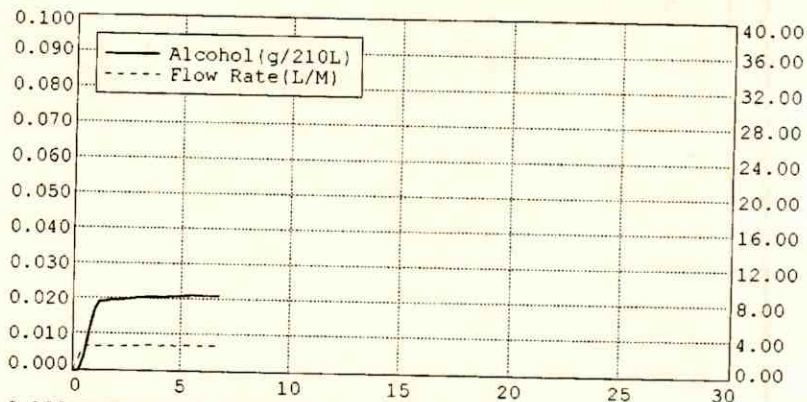
Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 07/17/2012  
 Time: 11:56:07

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.97: 0.020  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:57
INTERNAL STANDARD	VERIFIED	11:57
EXTERNAL STANDARD	0.022	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.022	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.023	12:00
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.022	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.022	12:02
BLANK TEST	0.000	12:03

Average = 0.0226  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

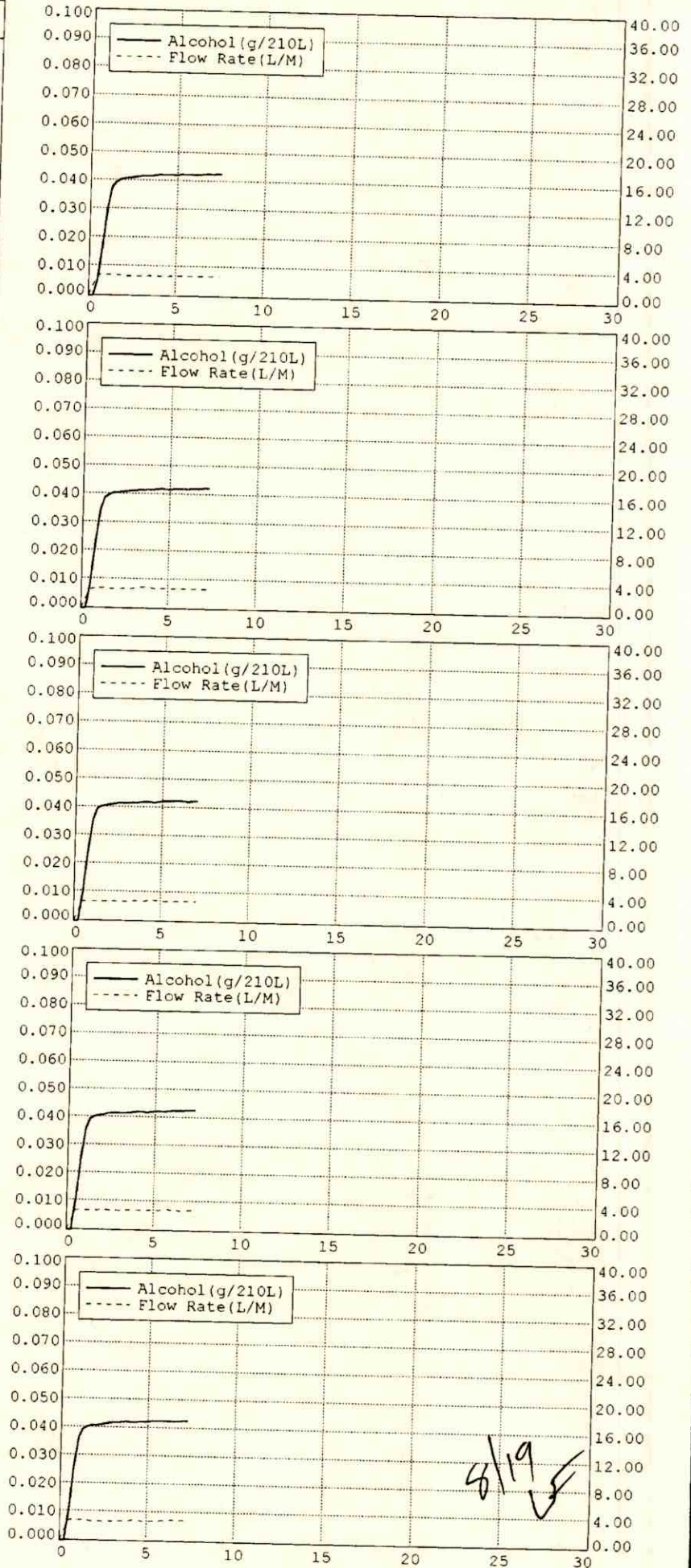
Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 07/17/2012  
 Time: 12:04:57

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.97: 0.040  
 LOT #: 07611040A4  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:06
EXTERNAL STANDARD	0.043	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.042	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.043	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.043	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.043	12:11
BLANK TEST	0.000	12:12

Average = 0.0430  
 Std Dev = 0.0002





LINEARITY CHECK: Control Test 3

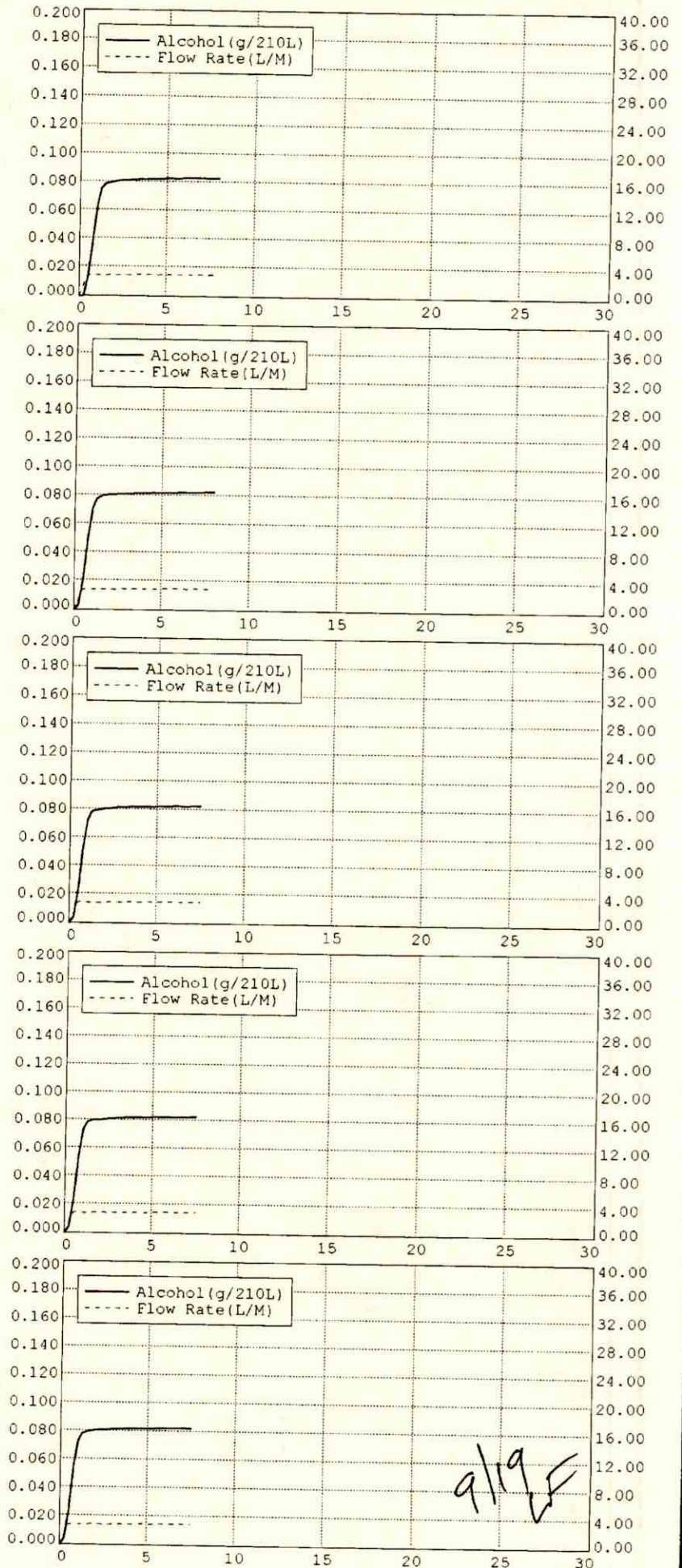
Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 07/17/2012  
 Time: 12:15:32

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.97: 0.080  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	12:16
INTERNAL STANDARD	VERIFIED	12:16
EXTERNAL STANDARD	0.083	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.082	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.083	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.082	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.082	12:21
BLANK TEST	0.000	12:22

Average = 0.0829  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

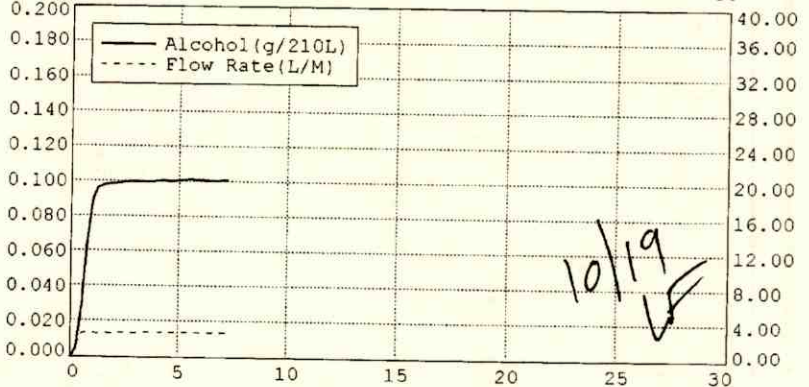
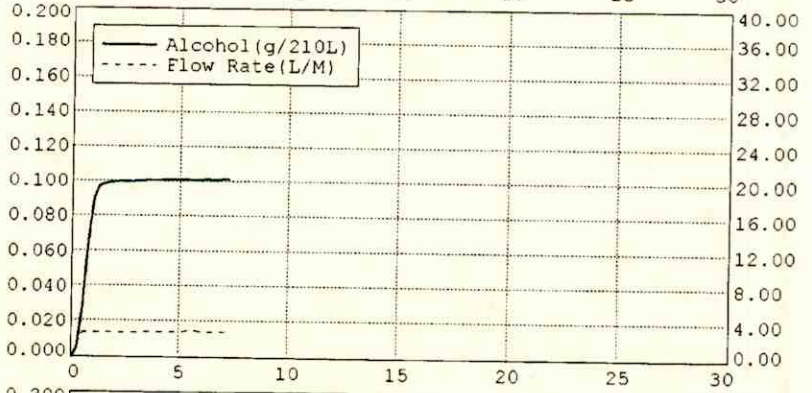
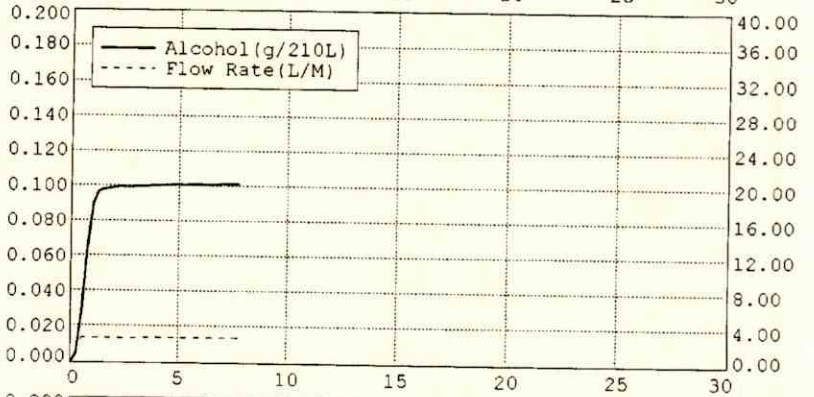
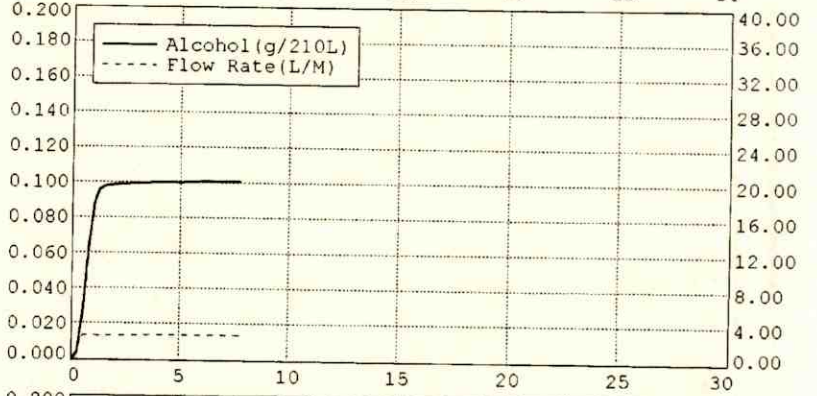
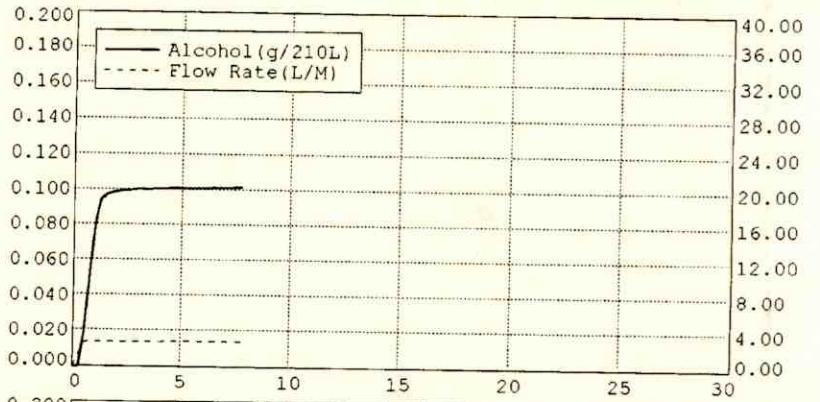
Date: 07/17/2012  
 Time: 12:23:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.97: 0.100  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:25
INTERNAL STANDARD	VERIFIED	12:25
EXTERNAL STANDARD	0.101	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.101	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.101	12:28
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.101	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.101	12:30
BLANK TEST	0.000	12:31

Average = 0.1014  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

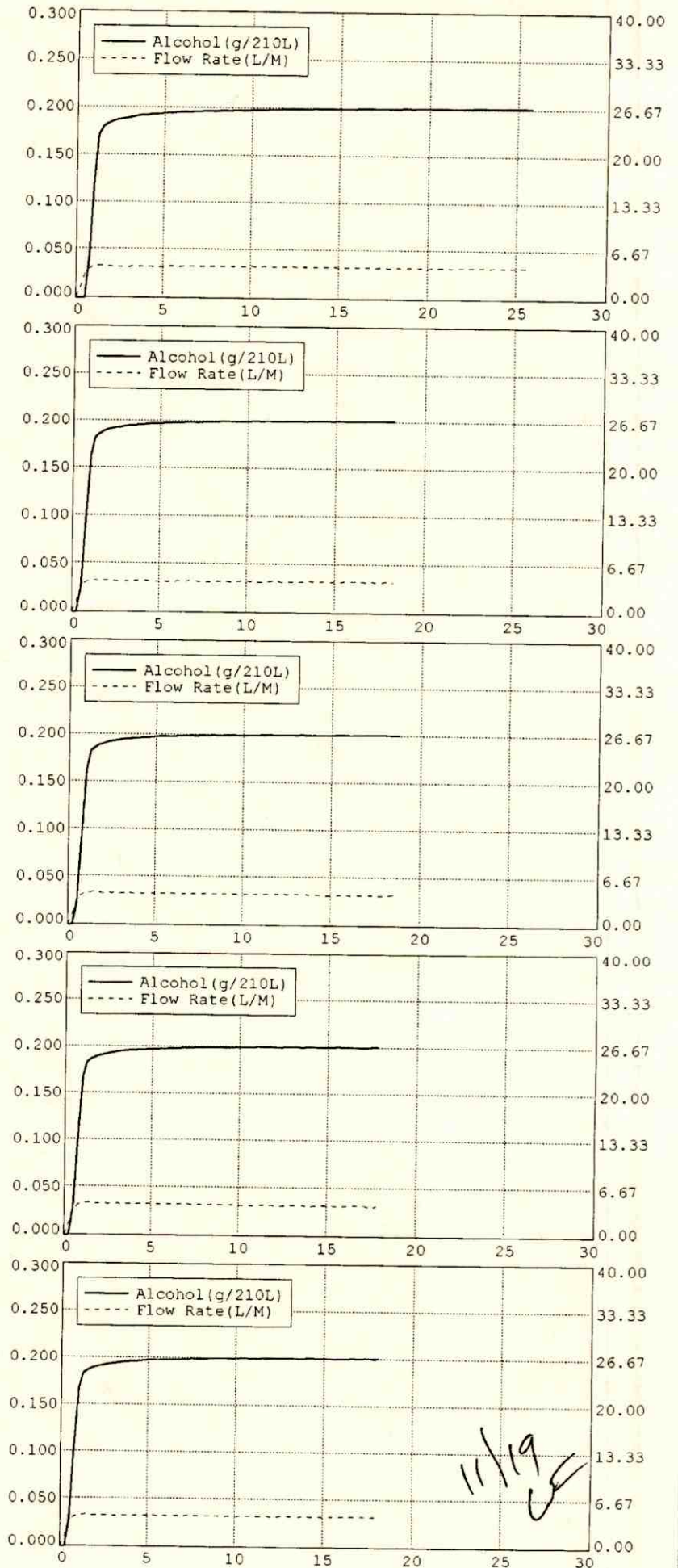
Date: 07/17/2012  
 Time: 12:32:25

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:34
EXTERNAL STANDARD	0.201	12:34
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.200	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.200	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.200	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.200	12:40
BLANK TEST	0.000	12:41

Average = 0.2008  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

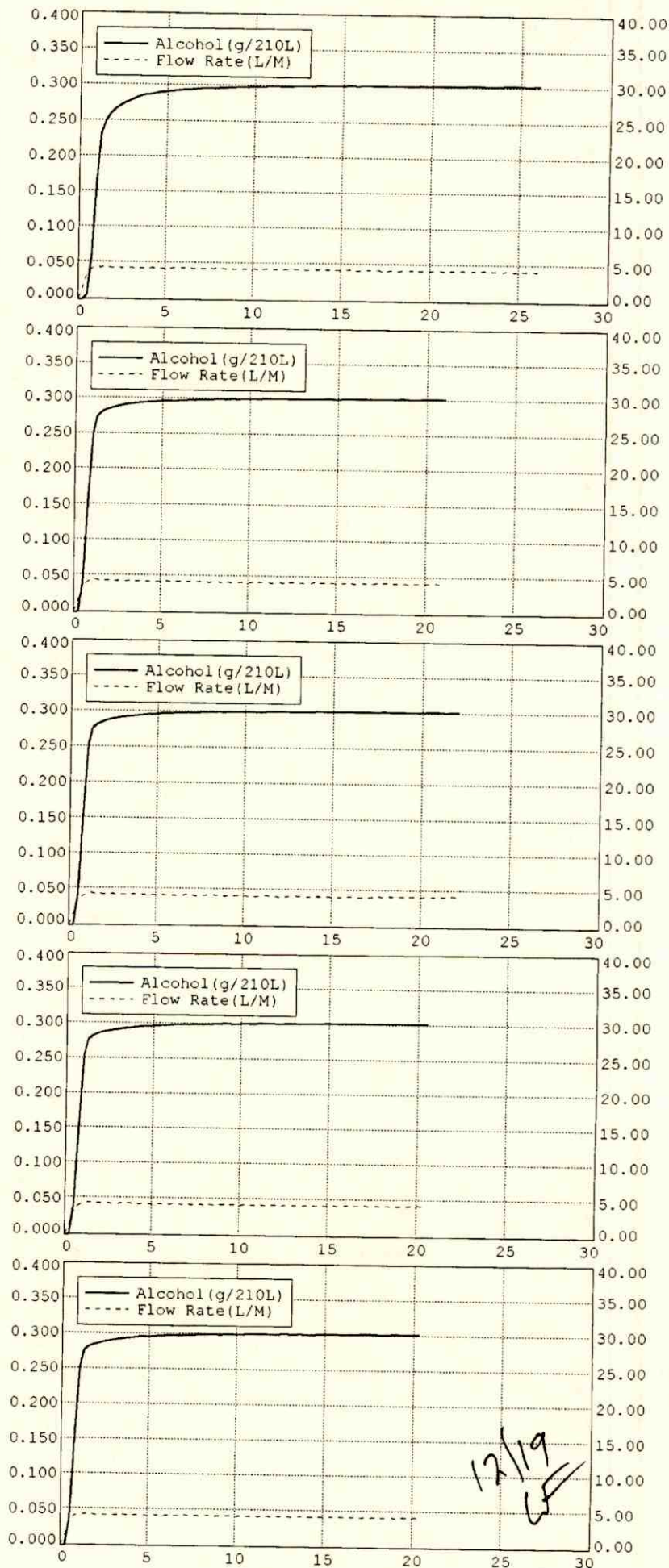
Date: 07/17/2012  
 Time: 12:43:54

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:44
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.302	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.301	12:47
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.301	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.302	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.301	12:51
BLANK TEST	0.000	12:52

Average = 0.3018  
 Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100403

Date: 07/17/2012  
Time: 14:56:15

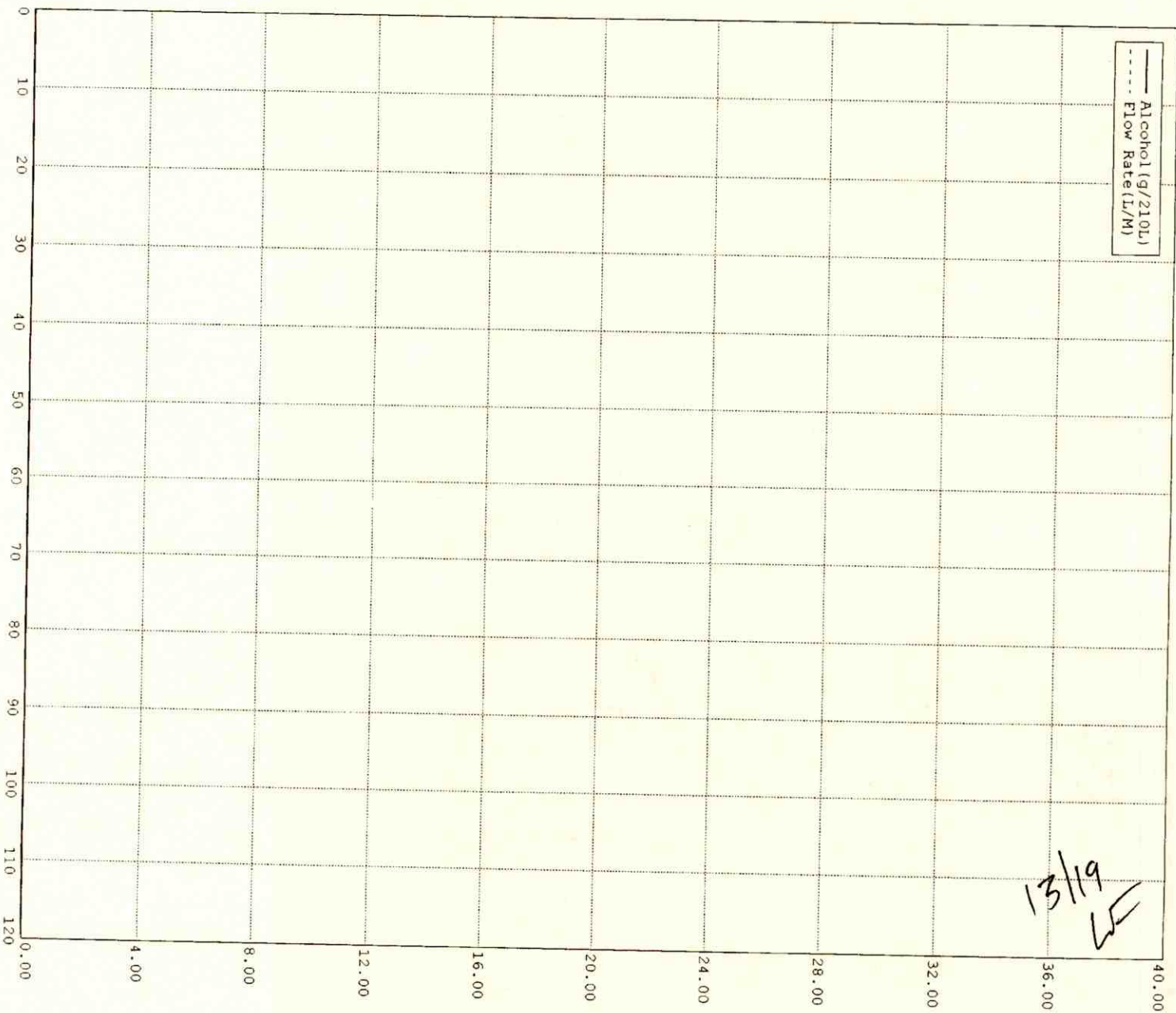
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.91: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:57
BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.081	14:57
BLANK TEST	0.000	14:58
SUBJECT SAMPLE	INCOMPLETE	15:00



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmc: 100403

Date: 07/17/2012  
Time: 15:07:07

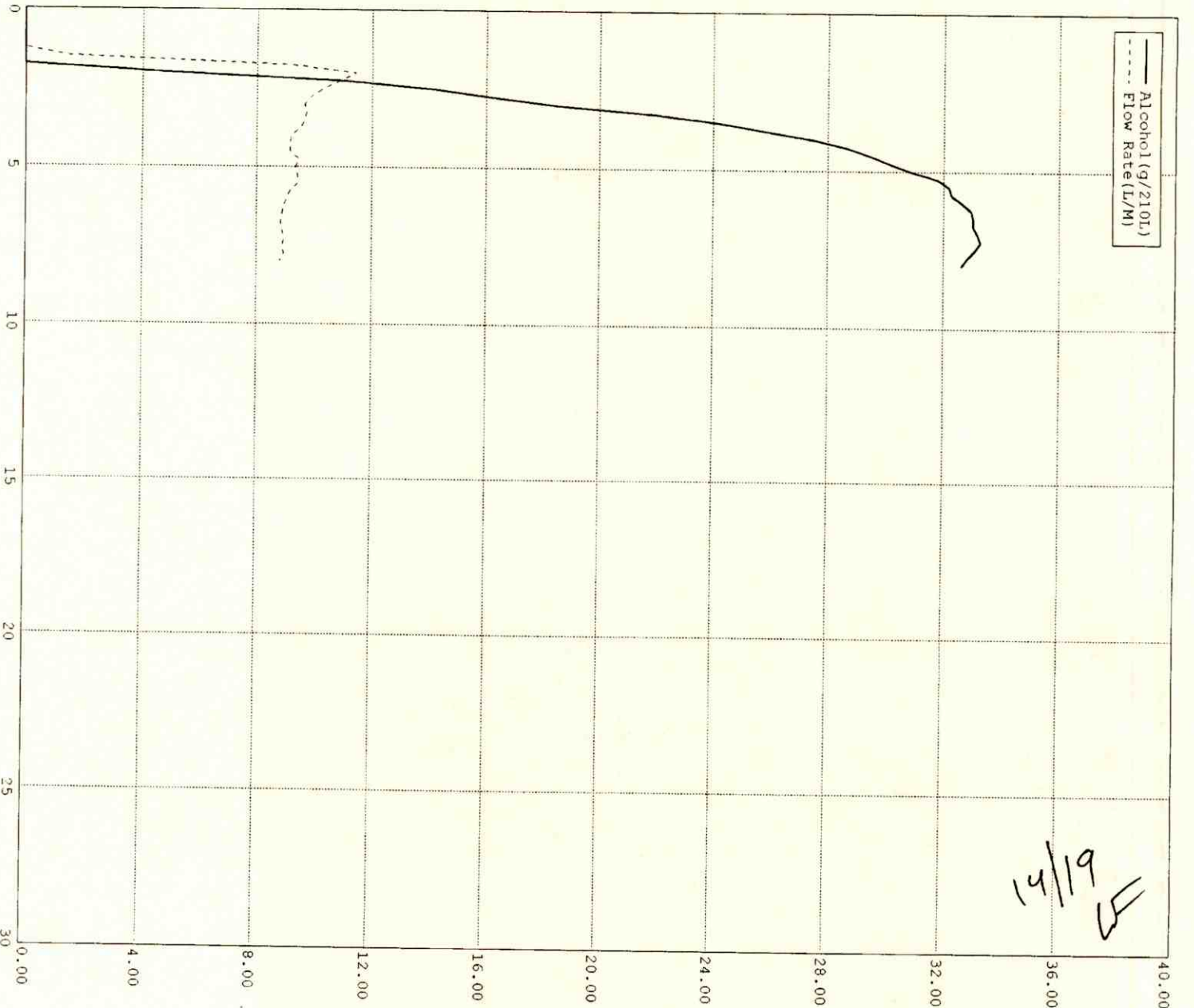
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.90: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:09
BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:10
EXTERNAL STANDARD	0.083	15:10
BLANK TEST	0.000	15:11
SUBJECT SAMPLE	INVALID	15:11



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100403

Date: 07/18/2012  
Time: 14:42:58

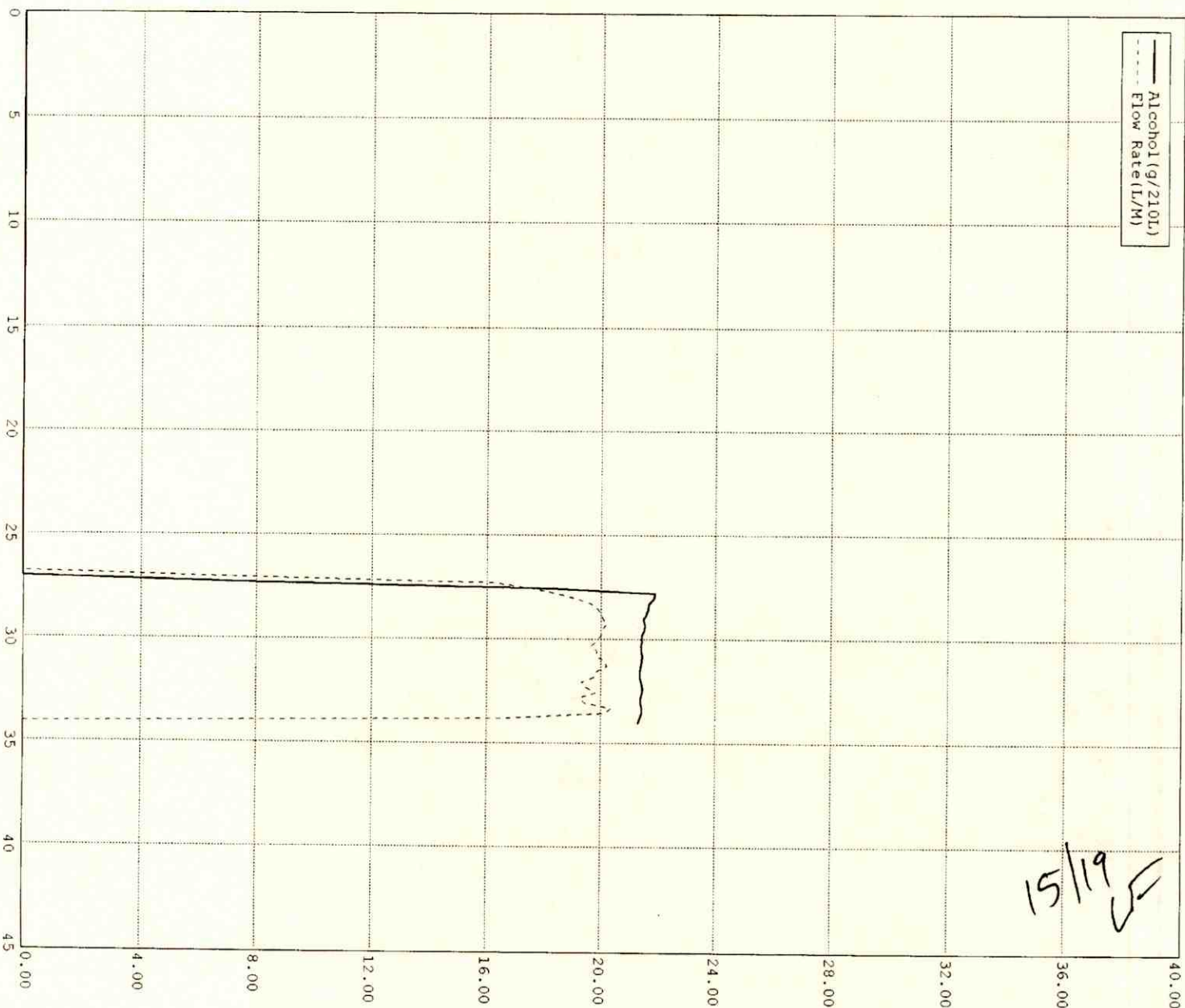
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.79: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xq = 0.074 (0.238)		
EXTERNAL STANDARD	0.082	14:56
X[1] = 0.0824 (0.0009)	(0.0007)	
BLANK TEST	0.000	14:57
SUBJECT SAMPLE	INTERFERENCE	14:57
X[1] = 0.1069 (-0.0175)	(0.0007)	



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 07/18/2012  
 Time: 15:11:05

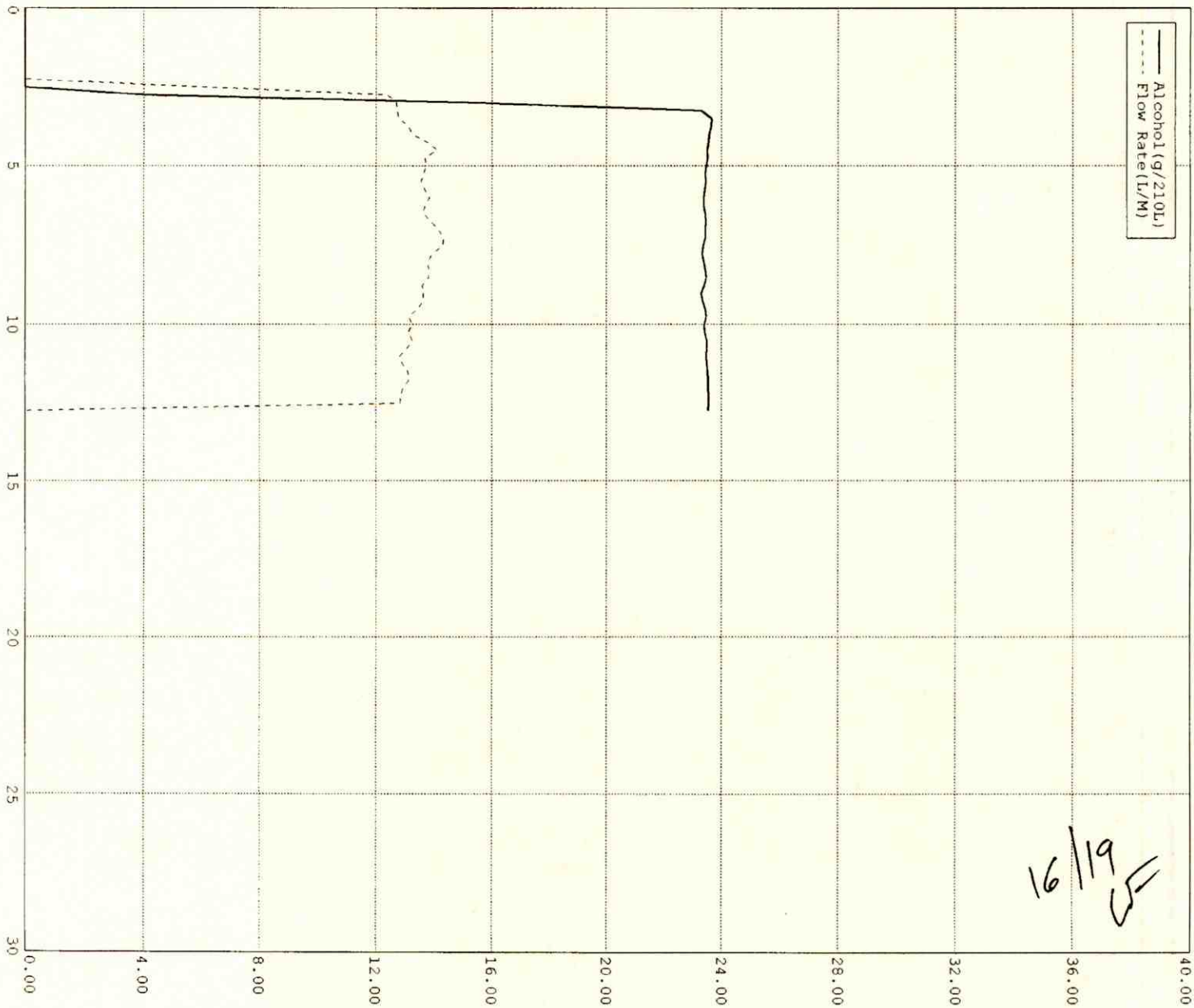
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.79: 0.079  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:12
BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
Xq = 0.074 (0.12%)		
EXTERNAL STANDARD	0.081	15:12
X[1] = 0.0817 (0.0023)	(0.0032)	
BLANK TEST	0.000	15:13
SUBJECT SAMPLE	INTERFERENCE	15:13
X[1] = 0.1179 (-0.0166)	(0.0042)	





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 07/18/2012  
 Time: 15:15:17

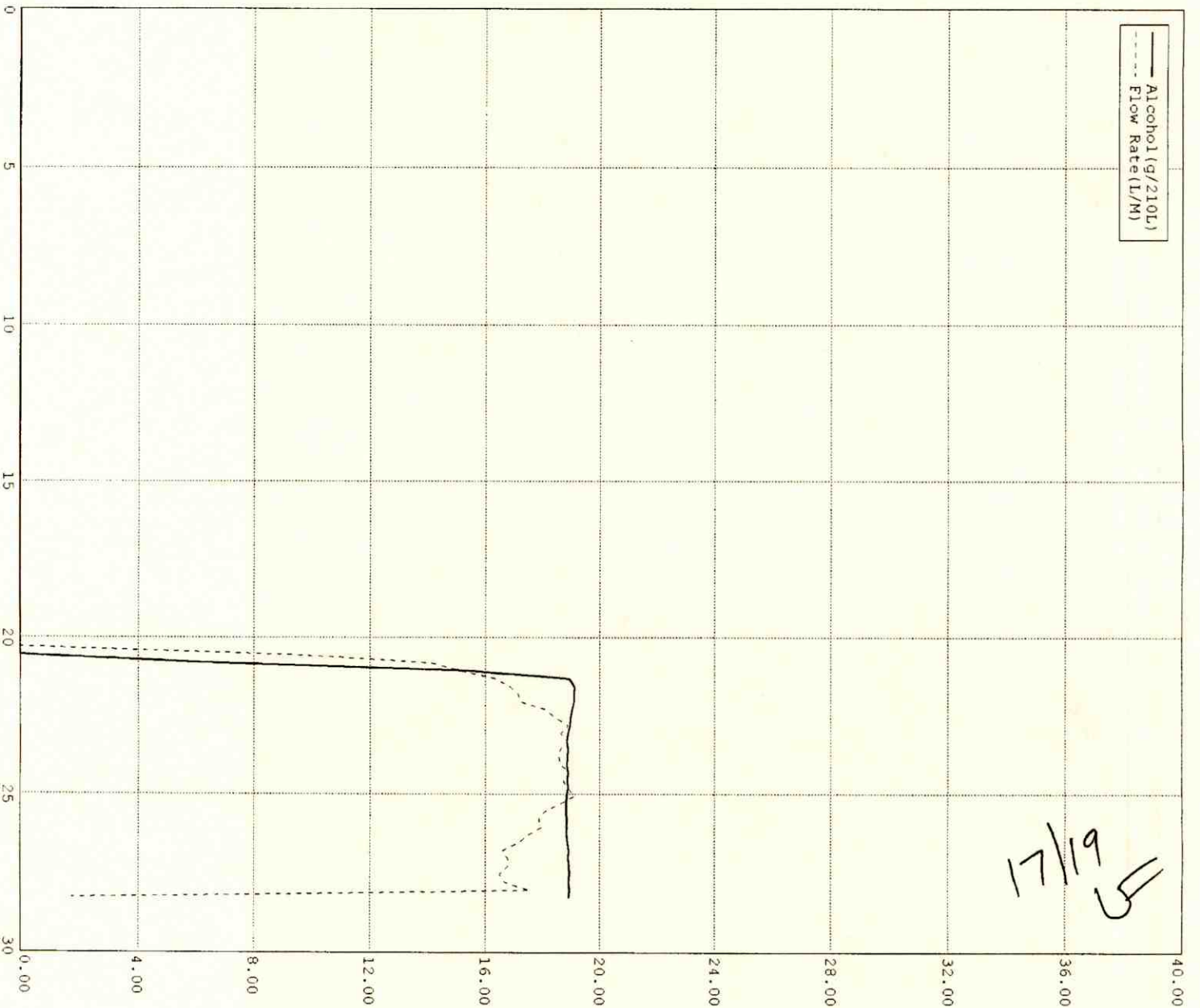
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.79: 0.079  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:18
BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
Xg = 0.074 (0.23%)		
EXTERNAL STANDARD	0.082	15:18
X[1] = 0.0823 (0.0010)	(0.0017)	
BLANK TEST	0.000	15:19
SUBJECT SAMPLE (Vol=2.25L)	0.095	15:20
X[1] = 0.0951 (0.0008)	(0.0024)	
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.081	15:21
X[1] = 0.0818 (0.0011)	(0.0013)	
BLANK TEST	0.000	15:22



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100403

Date: 07/17/2012  
Time: 15:18:05

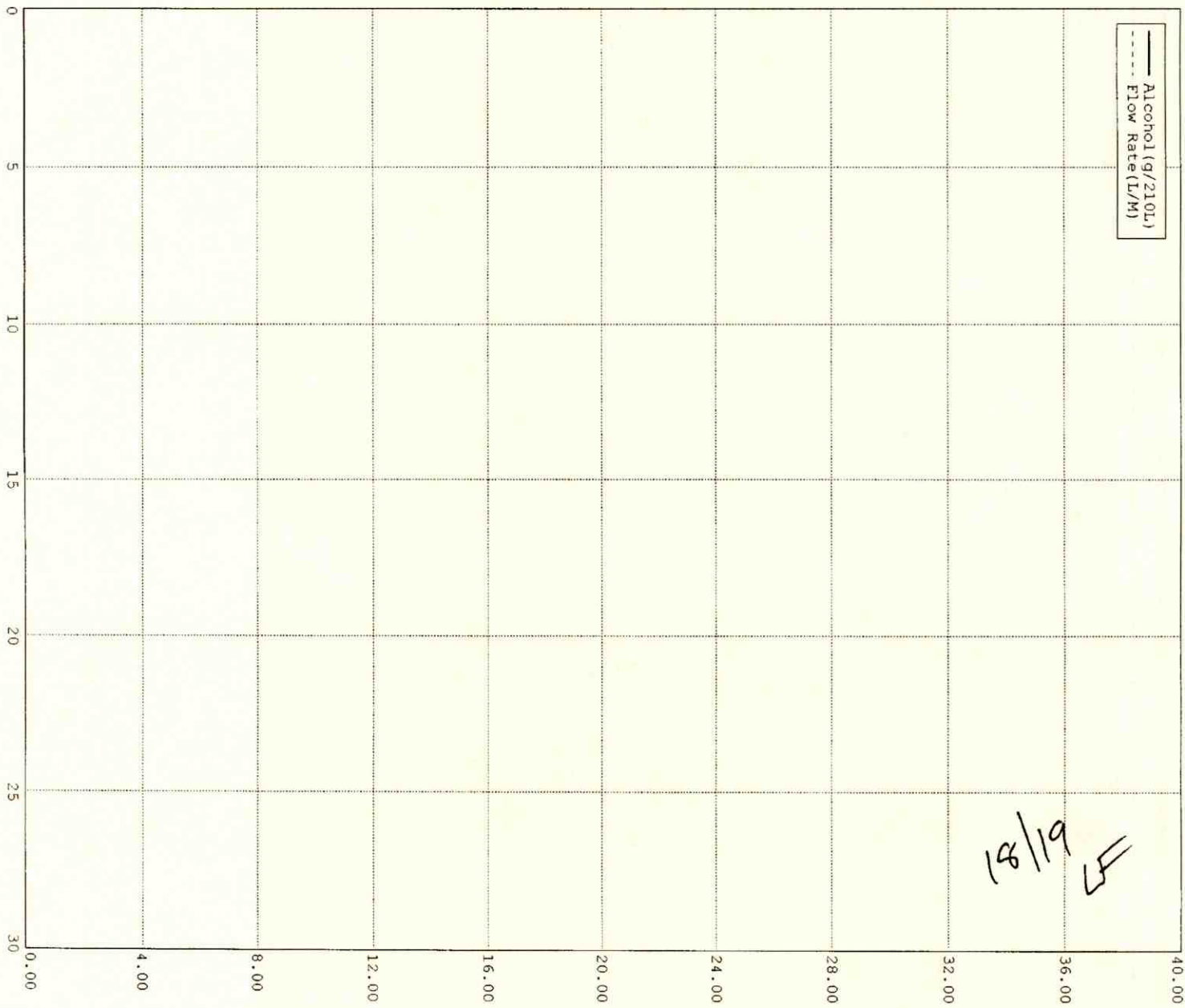
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
RFI XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.90: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK  
BLANK TEST PASSED 15:19  
INTERNAL STANDARD VERIFIED 15:19  
EXTERNAL STANDARD 0.082 15:19  
BLANK TEST 0.000 15:20  
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100403

Date: 07/18/2012  
 Time: 16:05:22

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.78: 0.079  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	16:06
BLANK TEST	0.000	16:06
INTERNAL STANDARD	VERIFIED	16:06
EXTERNAL STANDARD	0.081	16:06
BLANK TEST	0.000	16:07
SUBJECT SAMPLE	0.000	16:08
BLANK TEST	0.000	16:09
EXTERNAL STANDARD	0.082	16:09
BLANK TEST	0.000	16:10

