

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100683 Analyst CTF 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 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 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 A

End Date 7/23/12

All printed copies are uncontrolled.

Approved by Forensic Alcohol Supervisor 1/19 LF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/17/2012
Time: 09:44:22

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 3.791 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 ✓

Technician Screen

DATAMASTER dmt: 100683

Date: 07/17/2012
Time: 10:23 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 48.1°C

Current Barometer 30.0 in
Volume (Ltr) 1.45

Settings
Lamp: 1.67 V
Bias: 80 V
Cooler: 1.67 V
Chopper: 553 Hz

Voltages (V)
Flow: 1.03 V
Detector: 0.024 V

3/19 CRF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/11/2012
Time: 14:00:01

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.988714 0.800 <= CAL < 1.200
b1 = 0.0014 0.0000 <= b1 < 0.0040
b2 = 0.0087 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.1035 0.0500 <= Xq < 0.2000
a21 = 1.205951 1.050 <= a21 < 1.300
a31 = 0.512447 0.300 <= a31 < 0.800

4/19 CDE

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100683

Date: 07/17/2012
 Time: 10:36:50

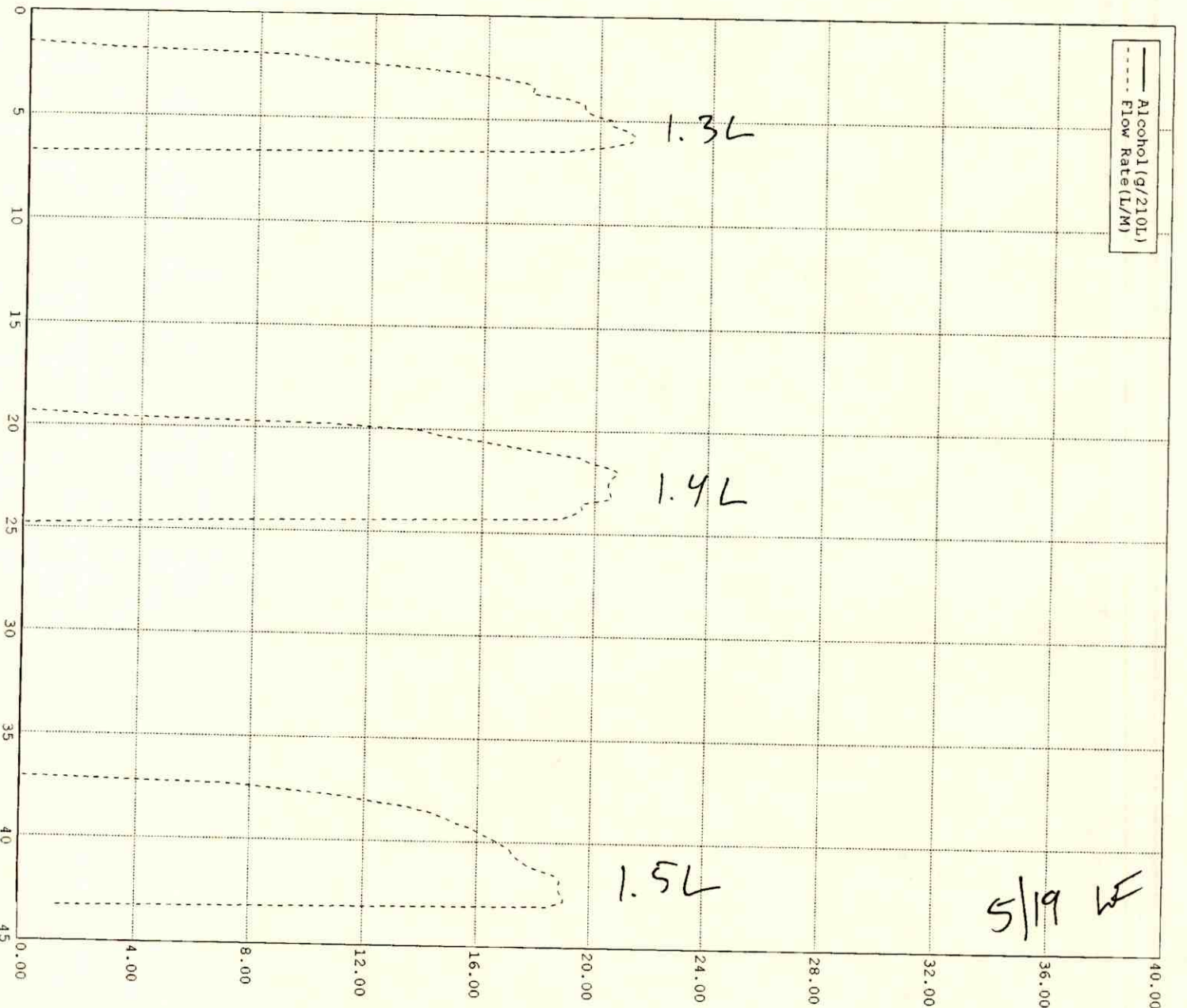
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:45
BLANK TEST	0.000	10:45
INTERNAL STANDARD	VERIFIED	10:45
EXTERNAL STANDARD	0.080	10:45
BLANK TEST	0.000	10:46
SUBJECT SAMPLE	0.000	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.080	10:48
BLANK TEST	0.000	10:49



5/19 WF

LINEARITY CHECK

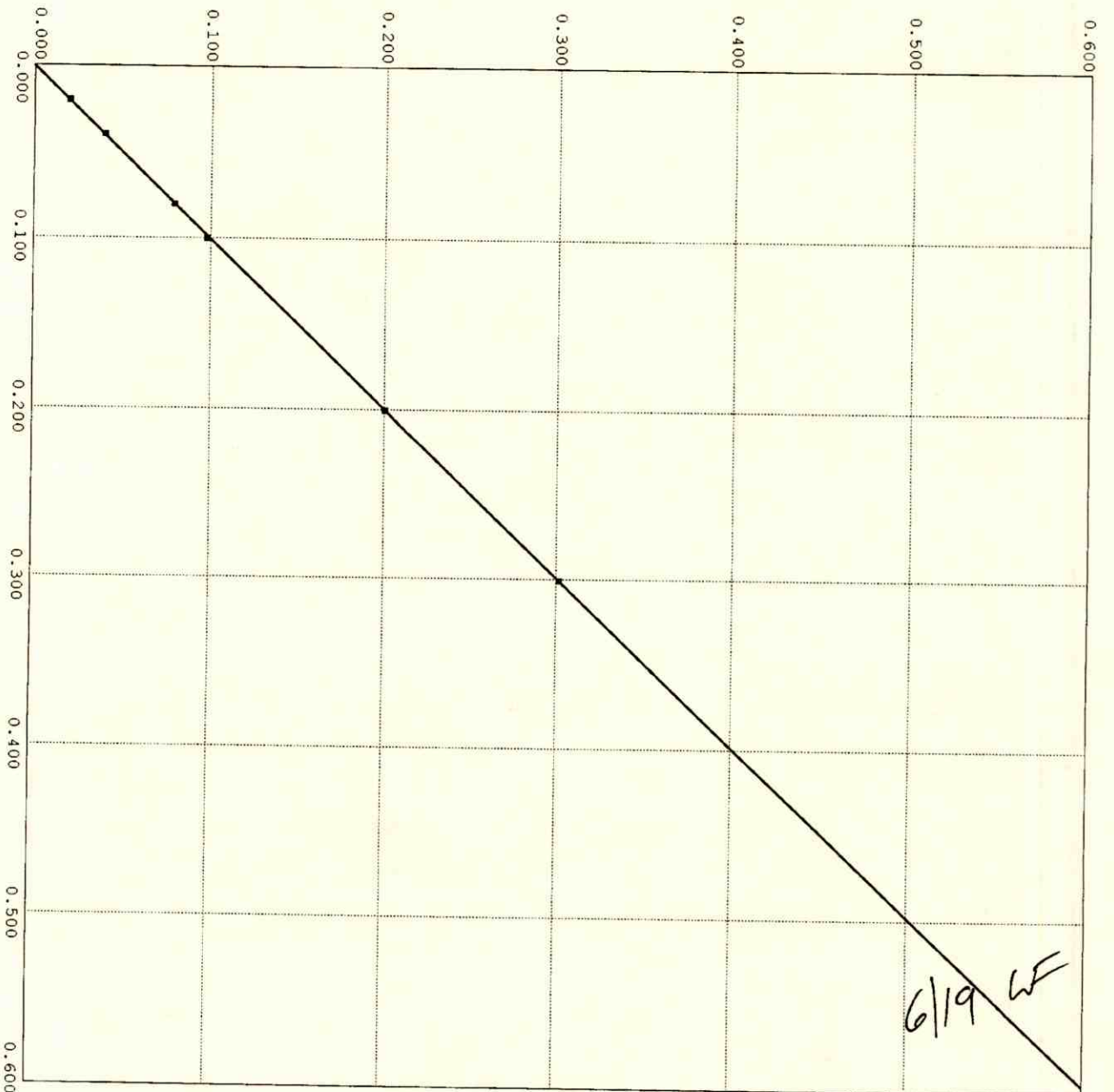
Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/17/2012
Time: 11:37:57

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0002
0.040	0.0408	0.0003
0.080	0.0803	0.0002
0.100	0.0991	0.0002
0.200	0.2013	0.0004
0.300	0.3024	0.0004

SLOPE = 1.007565
R² = 0.999947



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

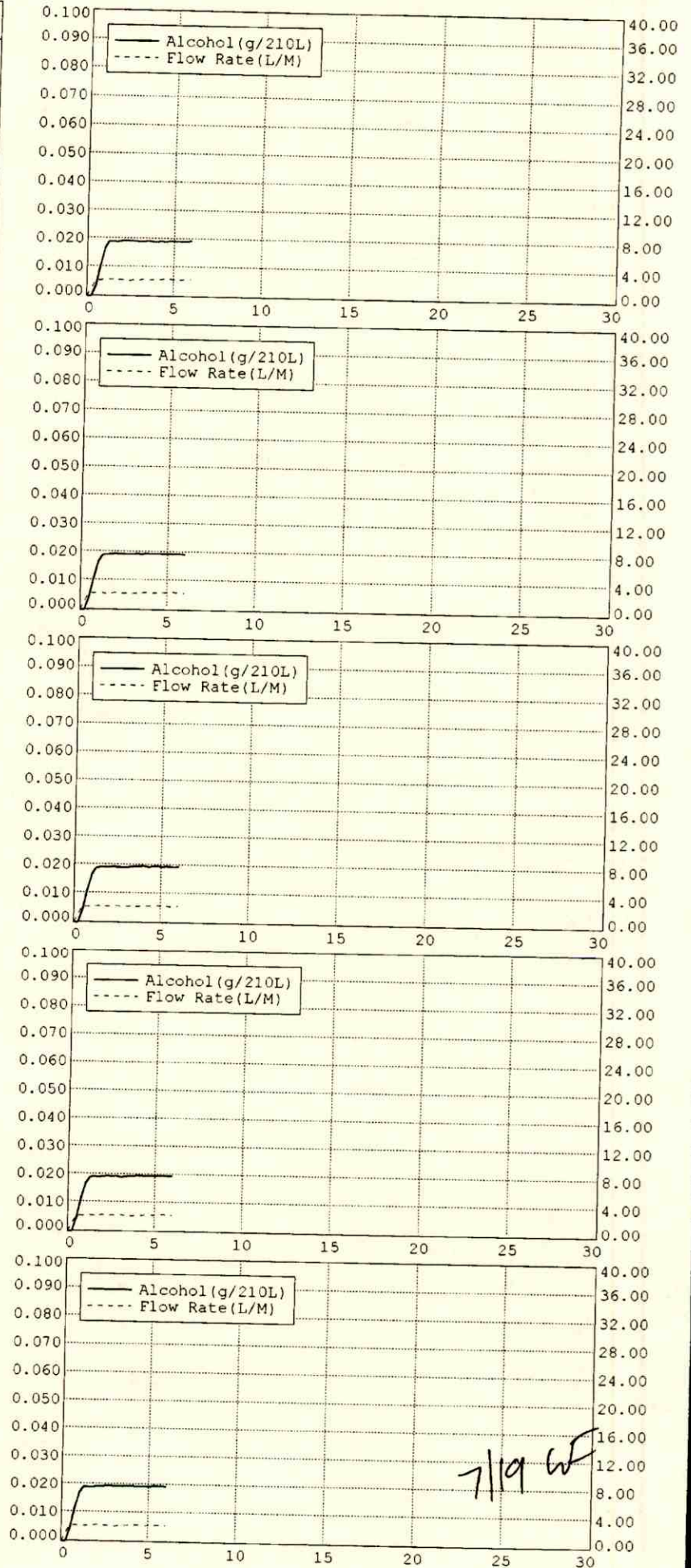
Date: 07/17/2012
 Time: 11:37:58

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:39
EXTERNAL STANDARD	0.020	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.020	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.020	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.020	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.020	11:43
BLANK TEST	0.000	11:44

Average = 0.0204
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

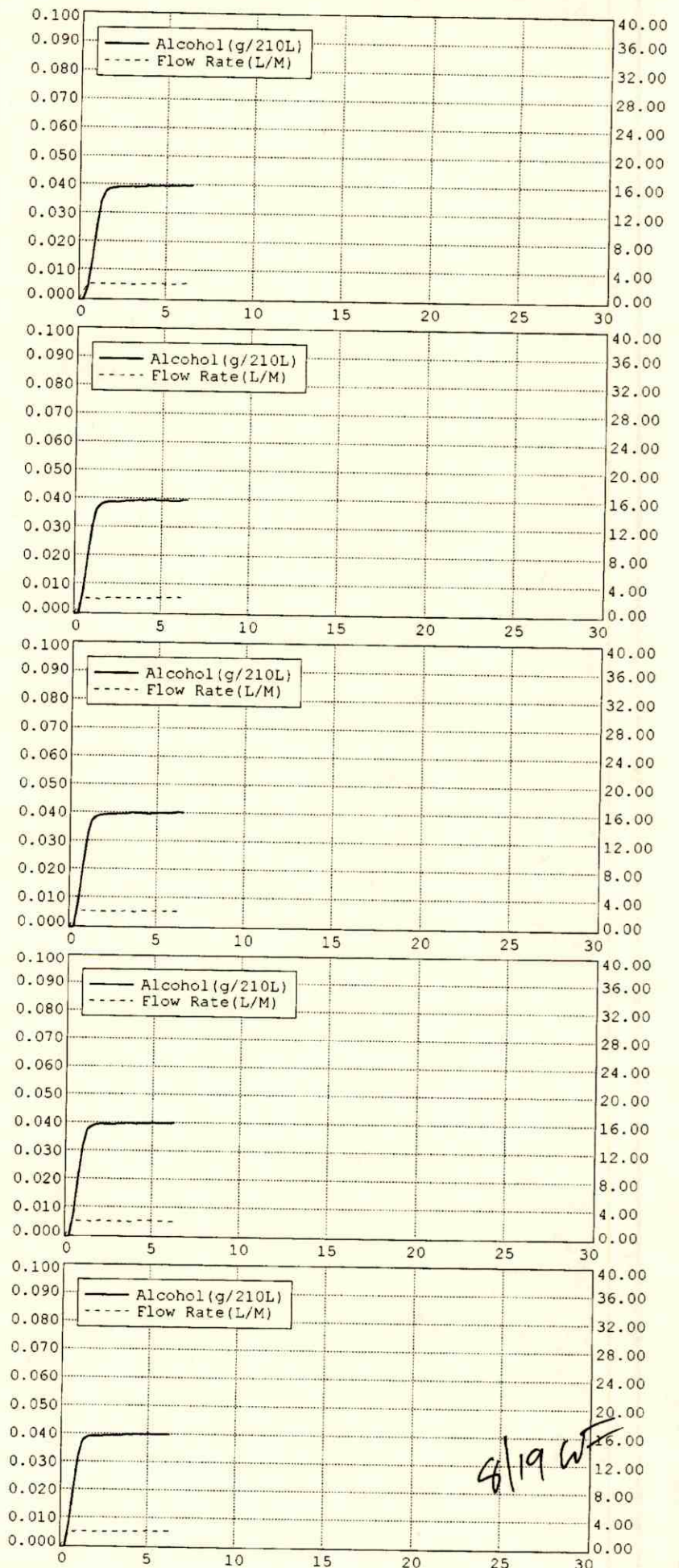
Date: 07/17/2012
 Time: 11:46:14

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:47
INTERNAL STANDARD	VERIFIED	11:47
EXTERNAL STANDARD	0.040	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.040	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.041	11:50
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.040	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.040	11:52
BLANK TEST	0.000	11:53

Average = 0.0408
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

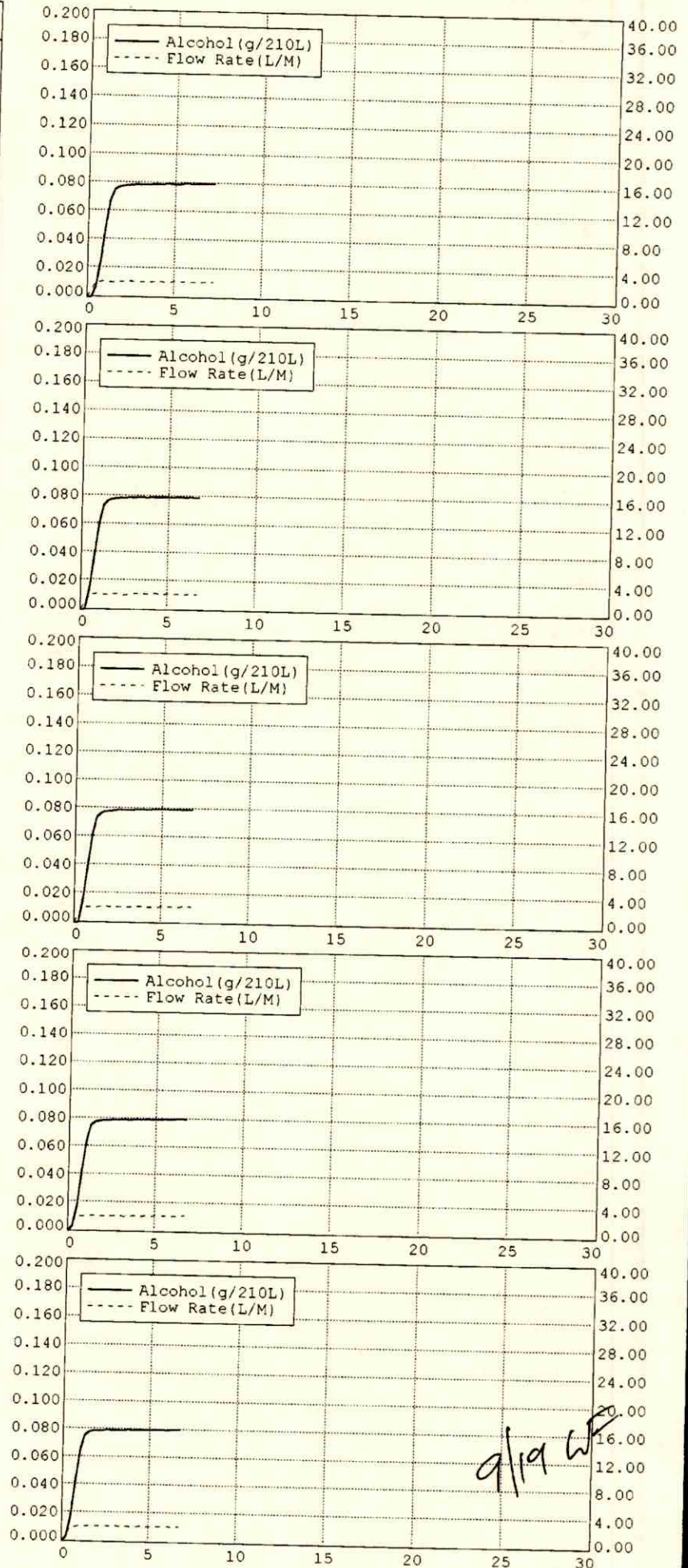
Date: 07/17/2012
 Time: 11:53:48

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:55
INTERNAL STANDARD	VERIFIED	11:55
EXTERNAL STANDARD	0.080	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.080	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.080	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.080	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.080	11:59
BLANK TEST	0.000	12:00

Average = 0.0803
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

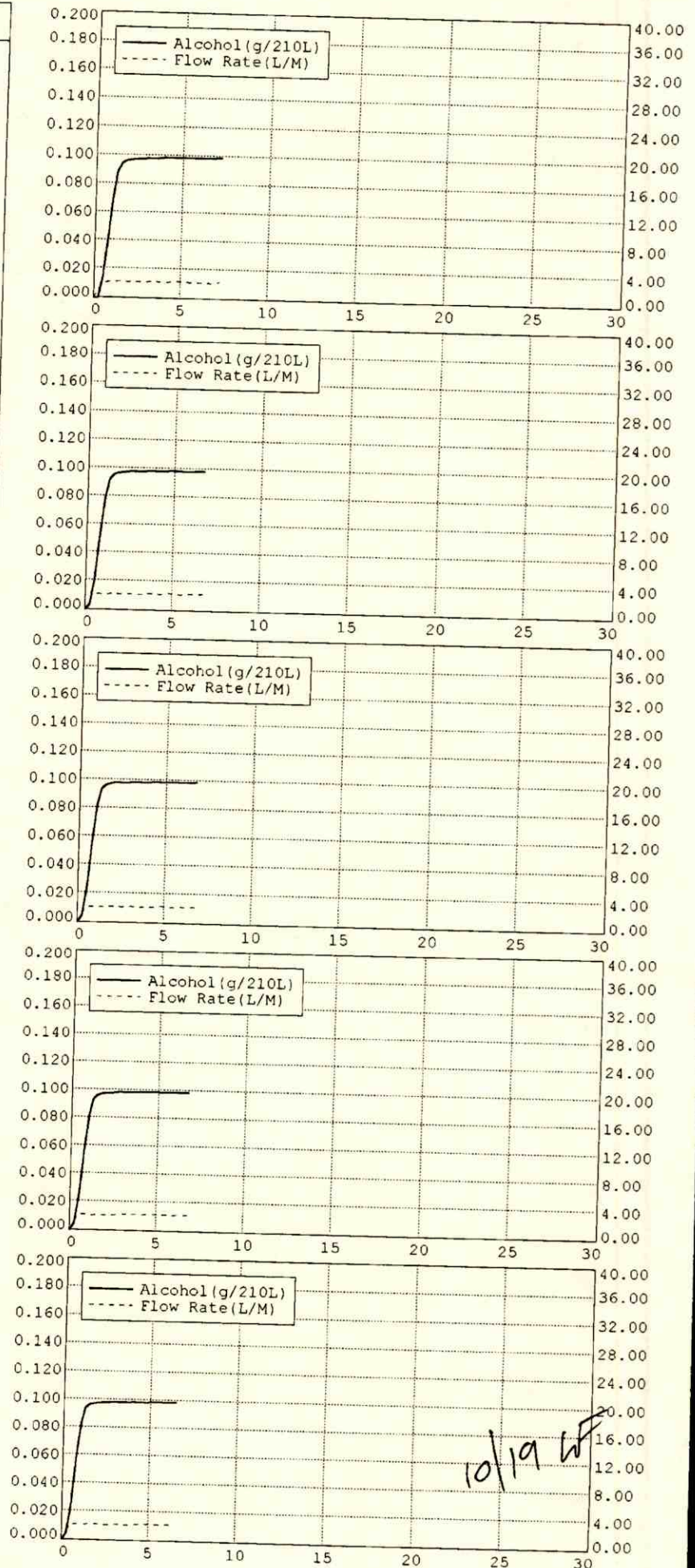
Date: 07/17/2012
 Time: 12:02:31

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:03
INTERNAL STANDARD	VERIFIED	12:03
EXTERNAL STANDARD	0.099	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.098	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.099	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.099	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.099	12:08
BLANK TEST	0.000	12:09

Average = 0.0991
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

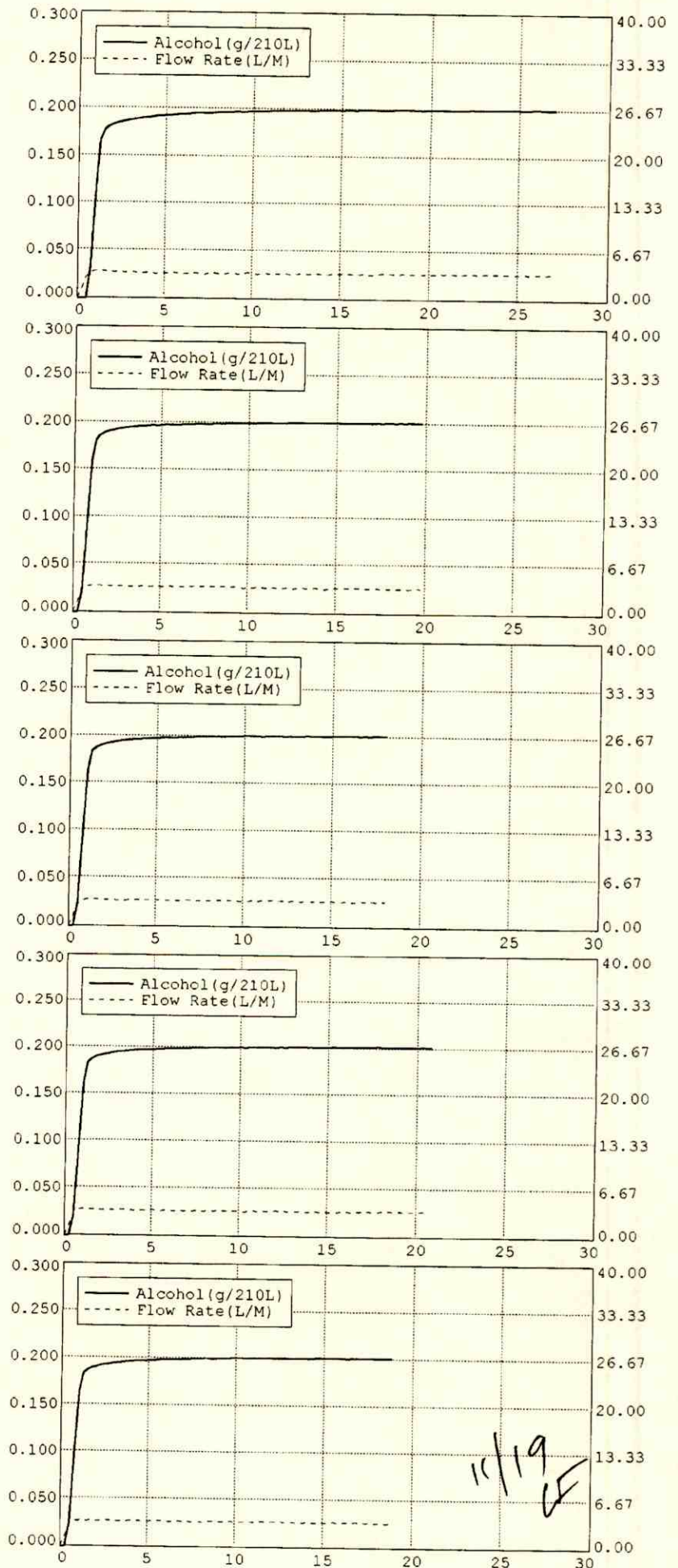
Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 07/17/2012
 Time: 12:12:49

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

BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
EXTERNAL STANDARD	0.201	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.201	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.201	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.202	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.201	12:20
BLANK TEST	0.000	12:21

Average = 0.2013
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

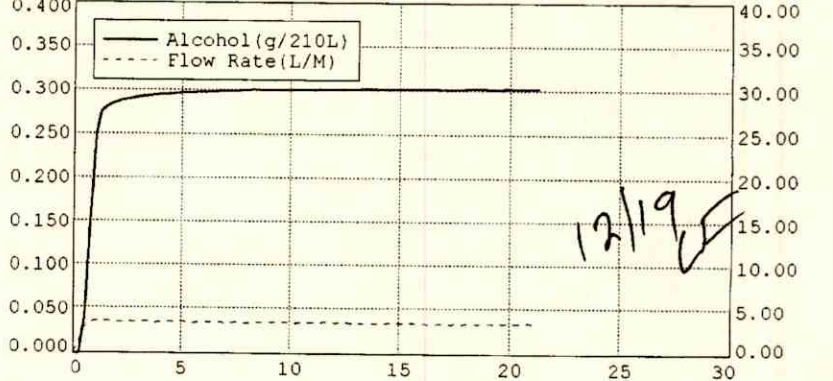
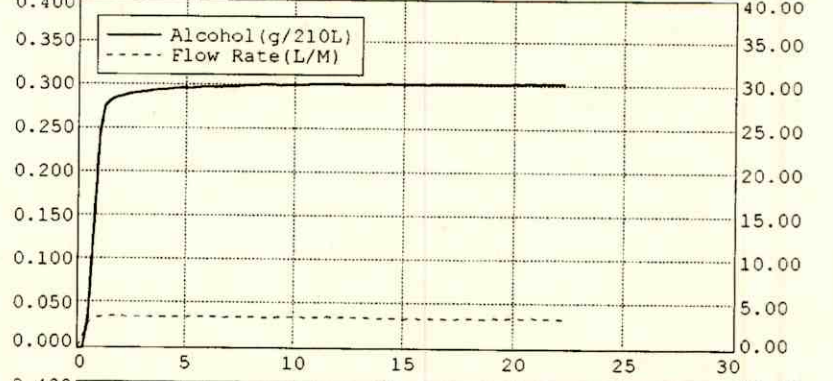
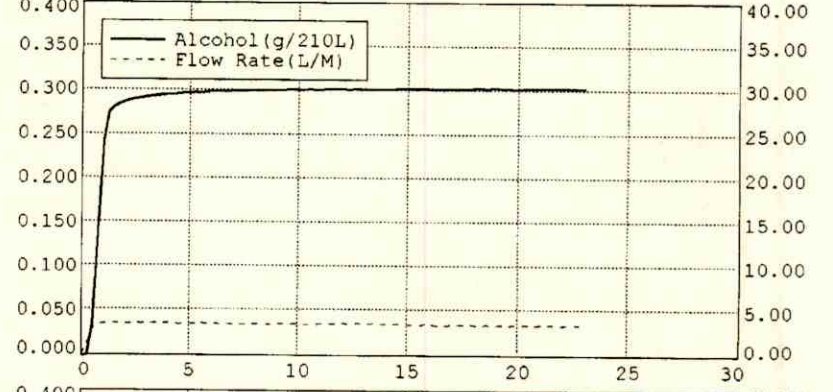
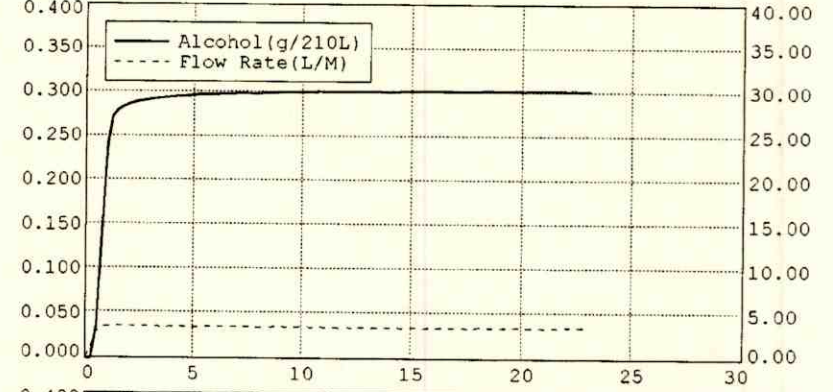
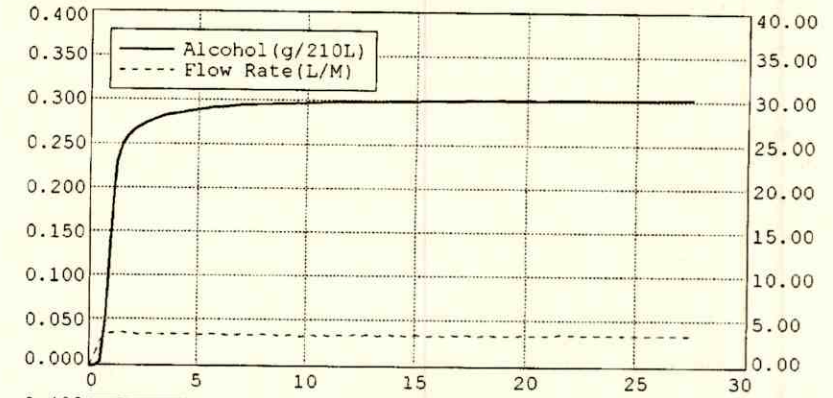
Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 07/17/2012
 Time: 12:25:30

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

BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.302	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.301	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.302	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.302	12:31
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.302	12:32
BLANK TEST	0.000	12:33

Average = 0.3024
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 07/17/2012
 Time: 14:54:59

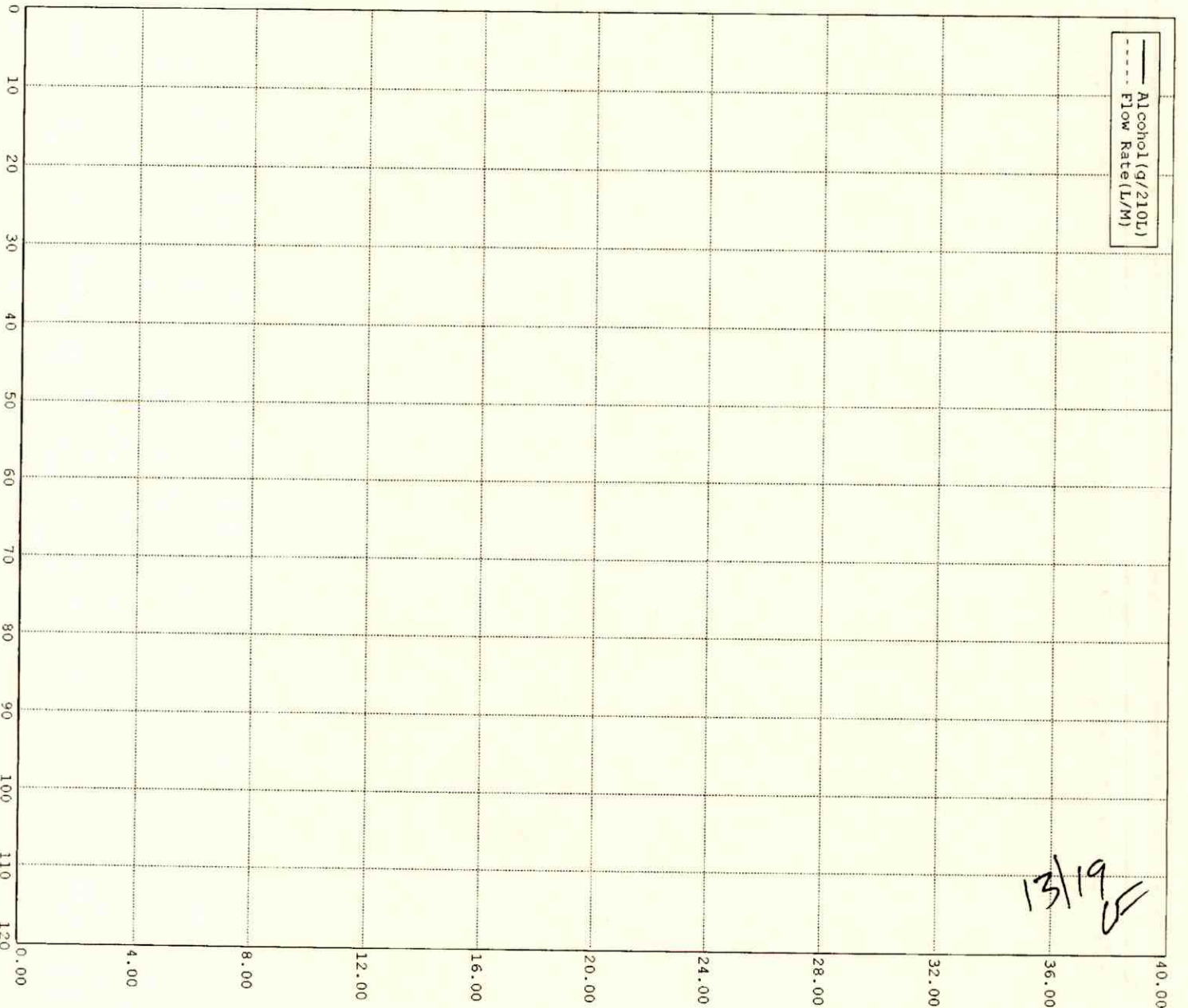
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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	14:56
BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.080	14:57
BLANK TEST	0.000	14:58
SUBJECT SAMPLE	INCOMPLETE	15:00



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/17/2012
Time: 15:05:58

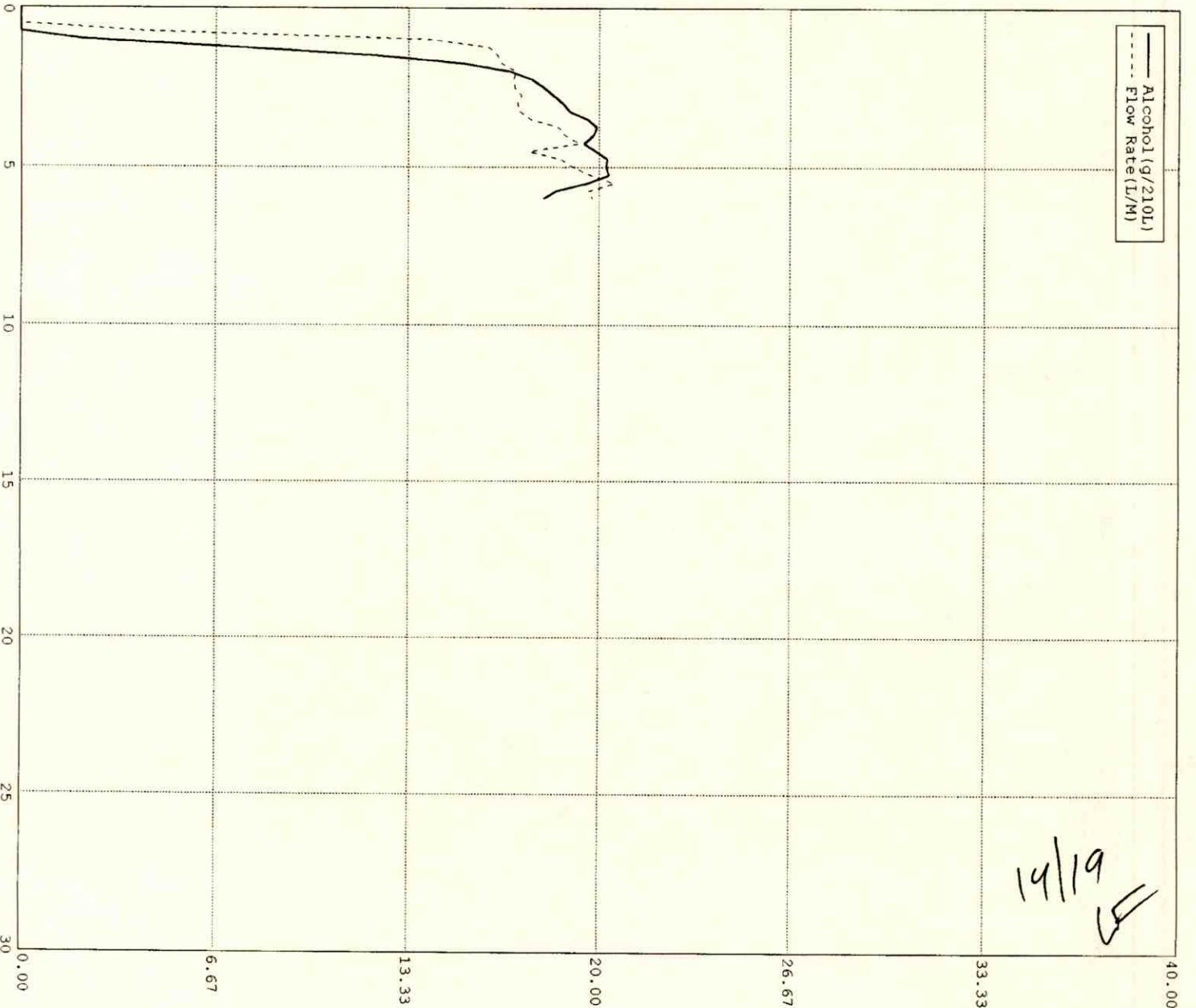
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:10
BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
EXTERNAL STANDARD	0.080	15:10
BLANK TEST	0.000	15:11
SUBJECT SAMPLE	INVALID	15:11



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/18/2012
Time: 14:58:30

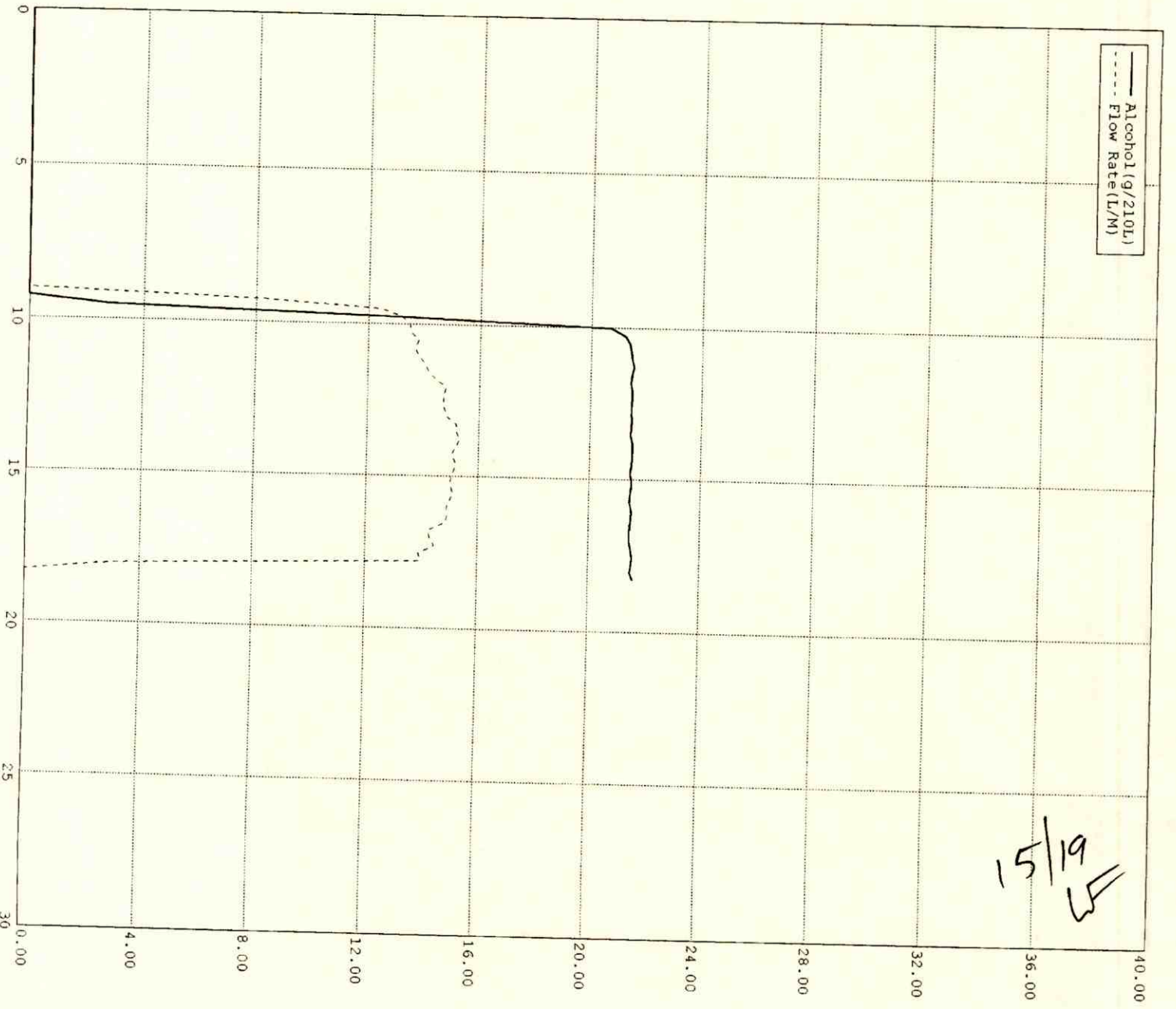
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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	14:59
BLANK TEST	0.000	14:59
INTERNAL STANDARD	VERIFIED	14:59
Xq = 0.103 (0.34%)		
EXTERNAL STANDARD	0.079	14:59
X[1] = 0.0798 (-0.0009) (0.0014)		
BLANK TEST	0.000	15:00
SUBJECT SAMPLE	INTERFERENCE	15:01
X[1] = 0.1087 (-0.0171) (0.0007)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/18/2012
Time: 15:03:08

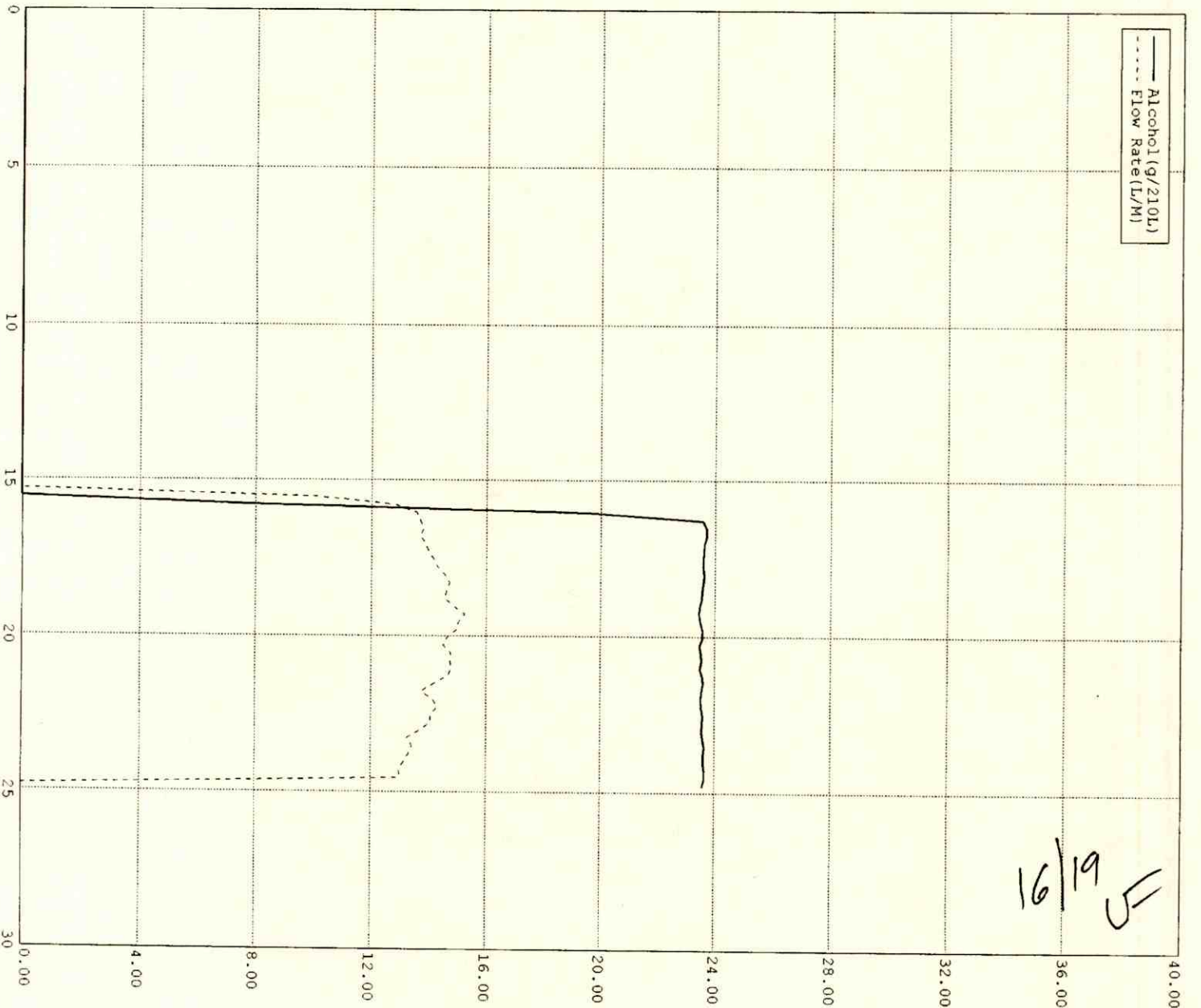
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.78: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:05
BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
Xq = 0.104 (0.34%)		
EXTERNAL STANDARD	0.080	15:05
X[1] = 0.0801 (-0.0014)	(0.0010)	
BLANK TEST	0.000	15:06
SUBJECT SAMPLE	INTERFERENCE	15:07
X[1] = 0.1183 (-0.0313)	(0.0002)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 07/18/2012
 Time: 15:09:59

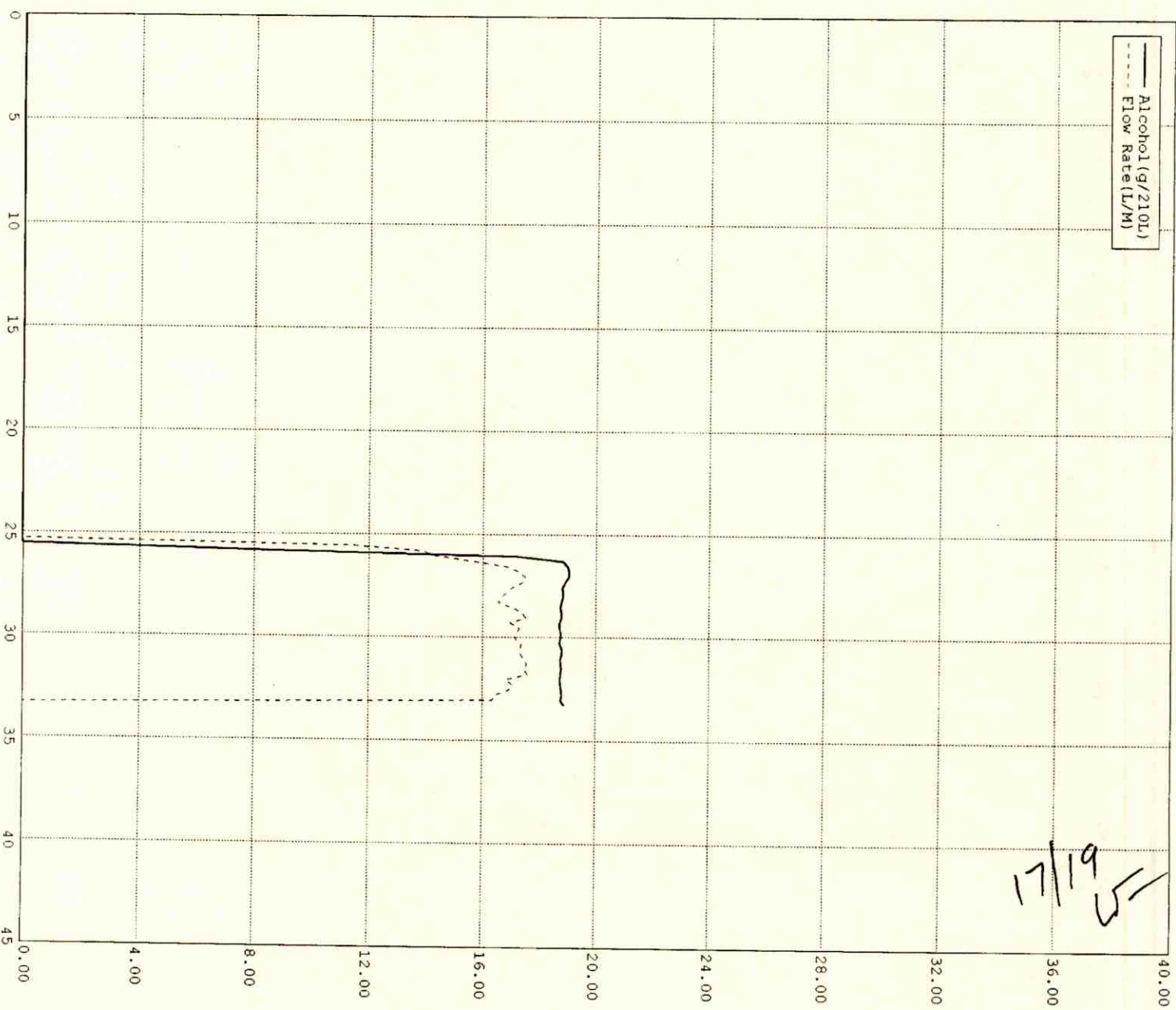
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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	15:17
INTERNAL STANDARD	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
Xq = 0.103 (0.00%)		
EXTERNAL STANDARD	0.079	15:17
X[1] = 0.0797 (-0.0014) (0.0024)		
BLANK TEST	0.000	15:18
SUBJECT SAMPLE (Vol=2.16L)	0.094	15:19
X[1] = 0.0947 (-0.0003) (-0.0005)		
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.079	15:20
X[1] = 0.0795 (-0.0010) (0.0017)		
BLANK TEST	0.000	15:21



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

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

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

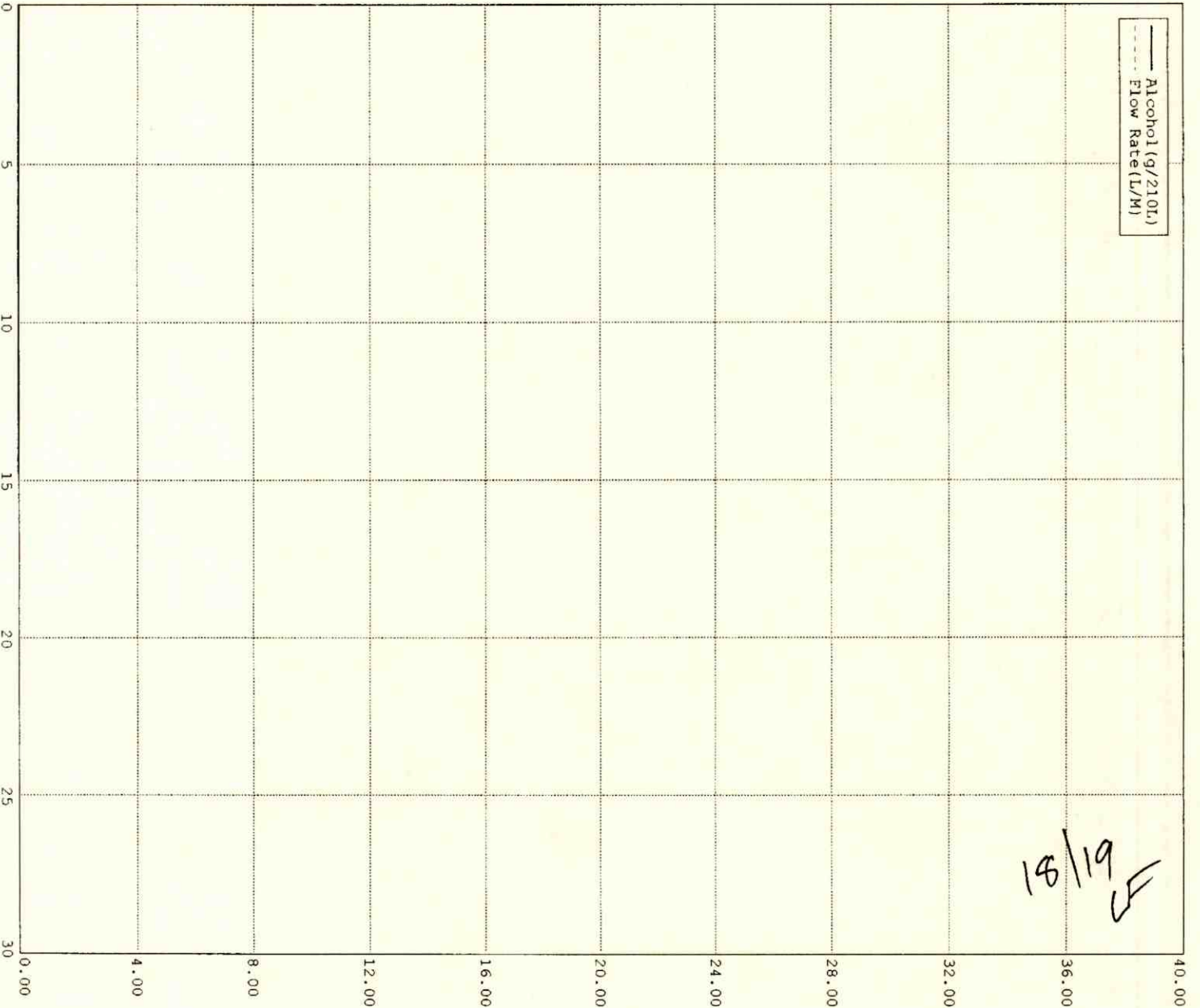
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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	PASSED	15:18
BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:19
EXTERNAL STANDARD	0.079	15:19
BLANK TEST	0.000	15:20

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 07/18/2012
 Time: 16:00:29

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 29.78: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	16:01
BLANK TEST	0.000	16:02
INTERNAL STANDARD	0.080	16:02
EXTERNAL STANDARD	0.000	16:03
BLANK TEST	0.000	16:03
SUBJECT SAMPLE	0.000	16:04
BLANK TEST	0.079	16:04
EXTERNAL STANDARD	0.000	16:05
BLANK TEST	0.000	16:05

