

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100379 Analyst CRF Start Date 9/12/12
Diagnostic Test (attached) 12 CRF

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 DR4178 Date Calibrated 2/21/12
 - vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13
 - 1. Simulator S/N SD1198 Date Calibrated 1/10/12

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 DR4176 Date Calibrated 2/21/12

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 N/A

End Date 9/13/12

1119
CRF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/12/2012
Time: 09:10:43

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 45.9°C	PASSED

PUMP INFO

Flow Rate = 5.002 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
LF

Technician Screen

DATAMASTER dmt: 100379

Date: 09/12/2012
Time: 9:20 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 43.9°C

Current Barometer 29.5 in
Volume (Ltr) 1.47

Settings

Lamp: 1.63 V
Bias: 80 V
Cooler: 1.55 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.052 V

3/19
CF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 03/22/2011
Time: 12:35:43

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.994139 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0044 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0812 0.0500 <= Xq < 0.2000
a21 = 1.116438 1.050 <= a21 < 1.300
a31 = 0.451907 0.300 <= a31 < 0.800

4/19
CS

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/12/2012
 Time: 10:43:38

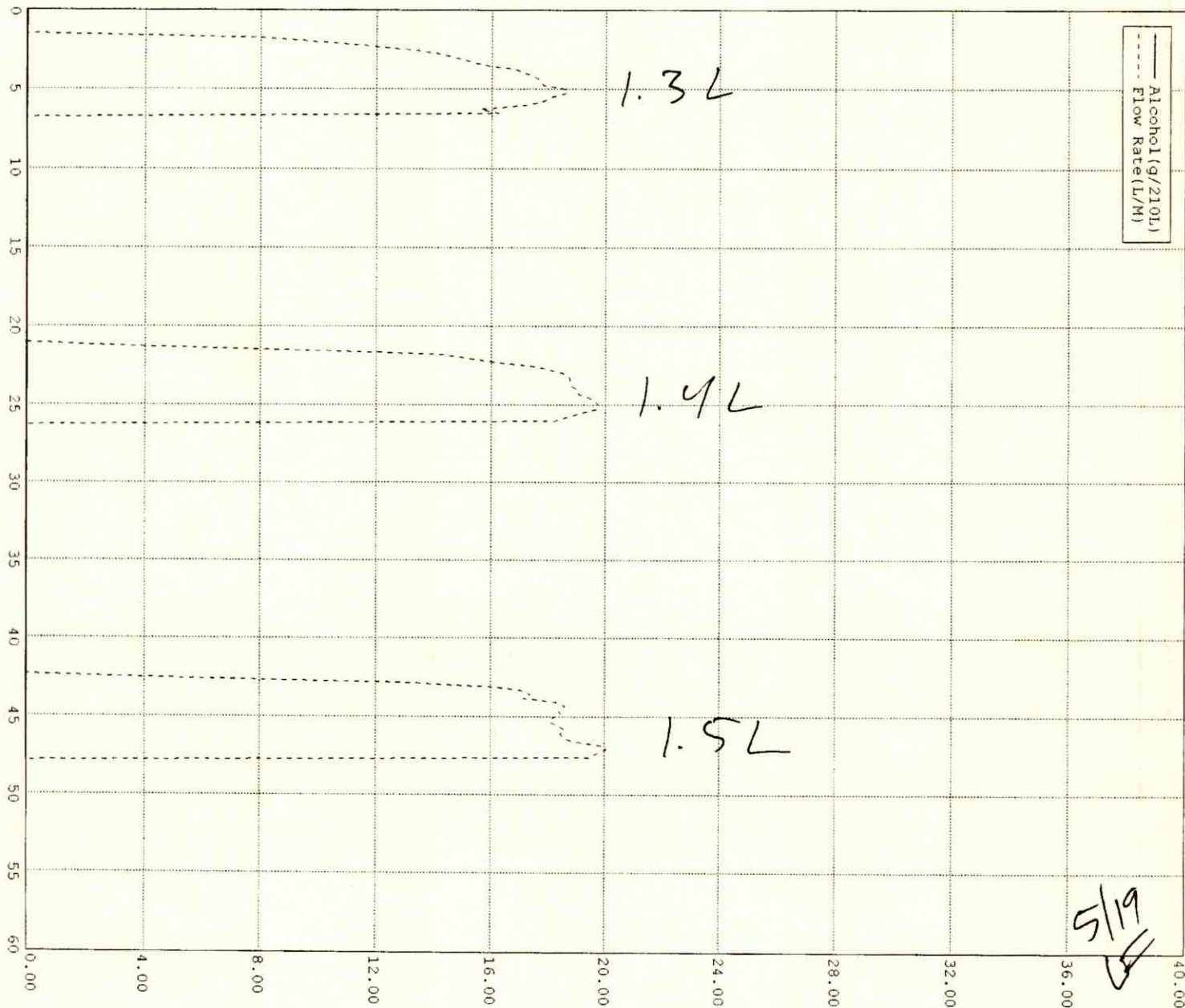
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.47: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:44
BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.077	10:45
BLANK TEST	0.000	10:46
SUBJECT SAMPLE	0.000	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.078	10:48
BLANK TEST	0.000	10:48



LINEARITY CHECK

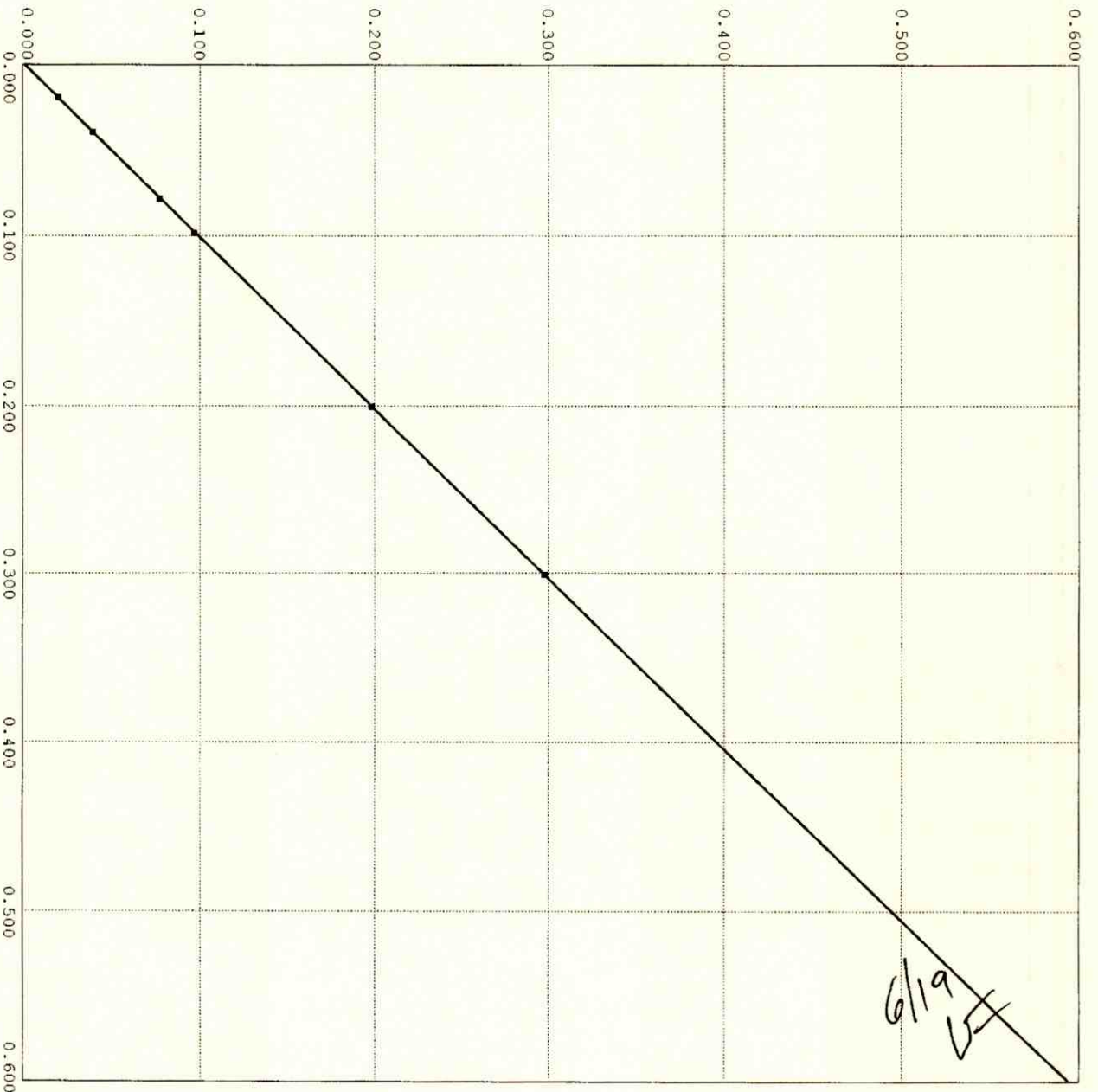
Alaska Department of Public Safety
 DATAMASTER dnt: 100379

Date: 09/12/2012
 Time: 13:14:10

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0008
0.039	0.0402	0.0003
0.078	0.0780	0.0004
0.098	0.0978	0.0002
0.200	0.1991	0.0002
0.300	0.2983	0.0004

SLOPE = 0.989223
 R² = 0.999986



LINEARITY CHECK: Control Test 1

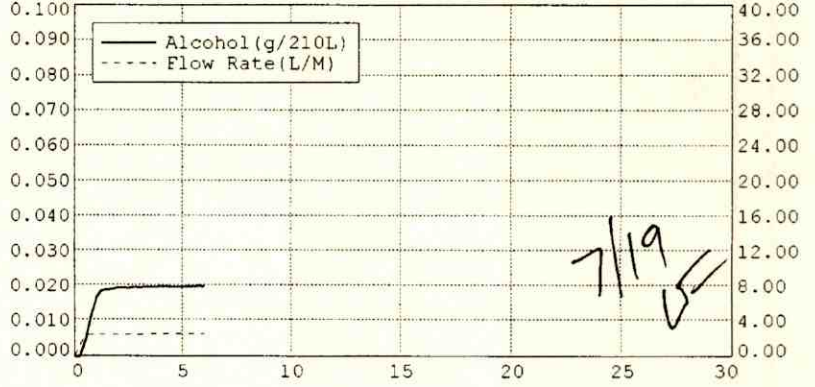
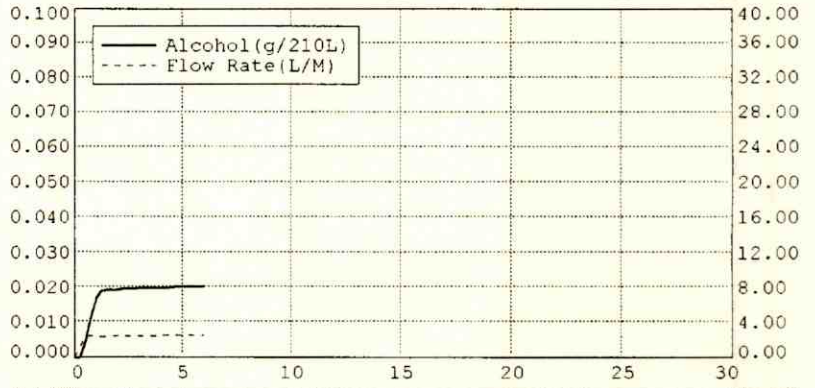
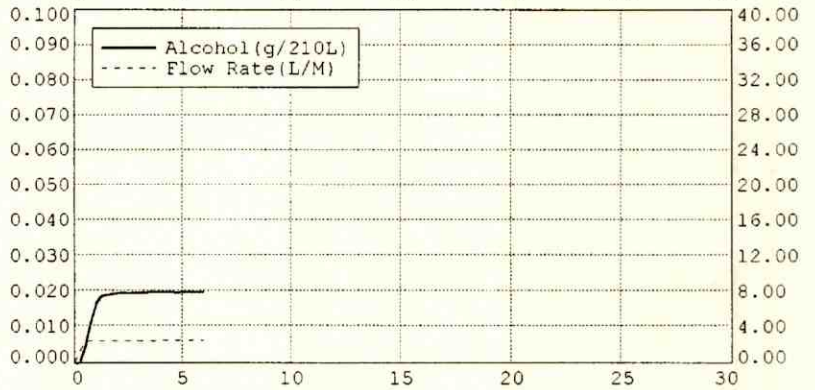
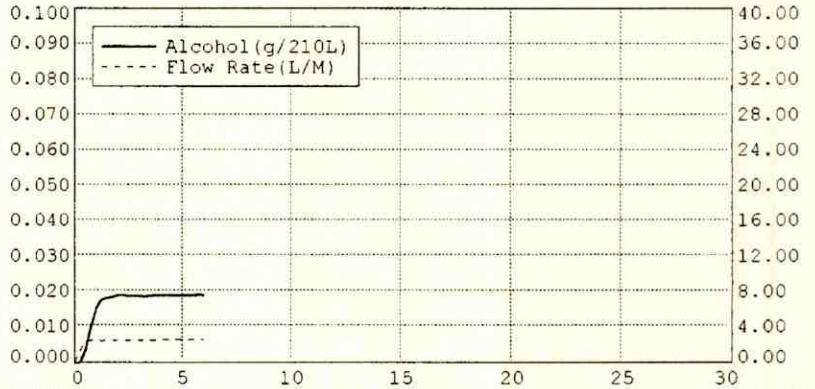
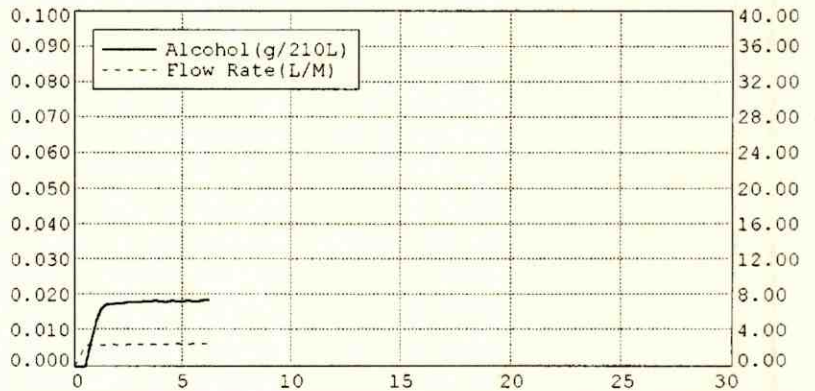
Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/12/2012
 Time: 13:14:11

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.51: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.019	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.021	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.021	13:20
BLANK TEST	0.000	13:21

Average = 0.0206
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

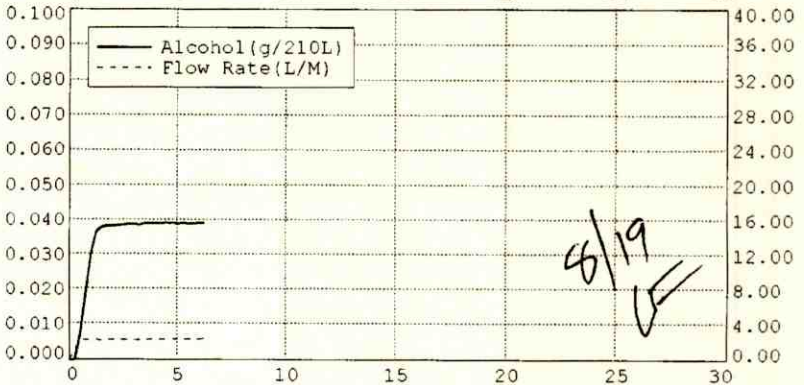
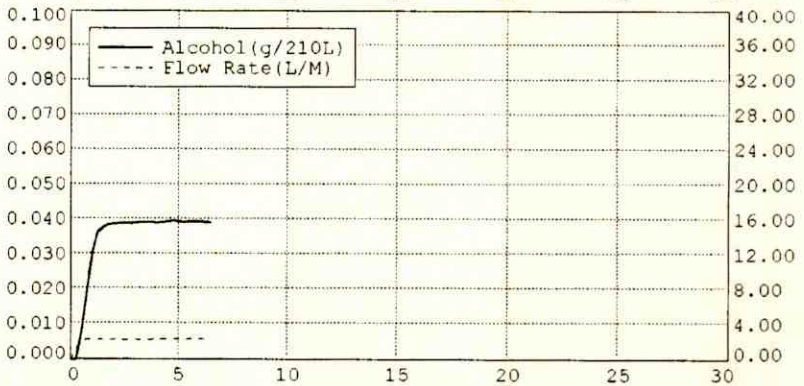
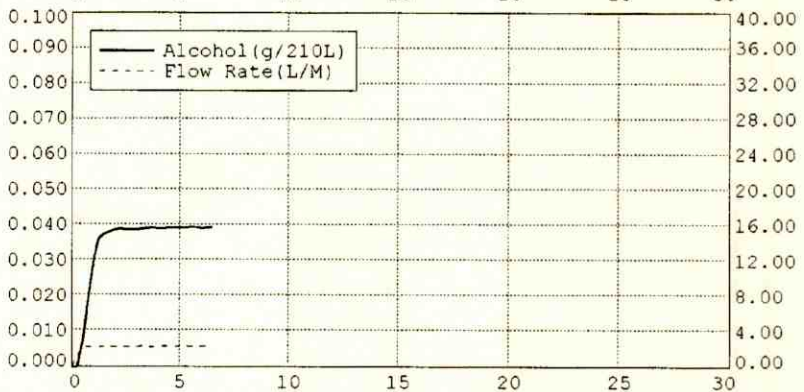
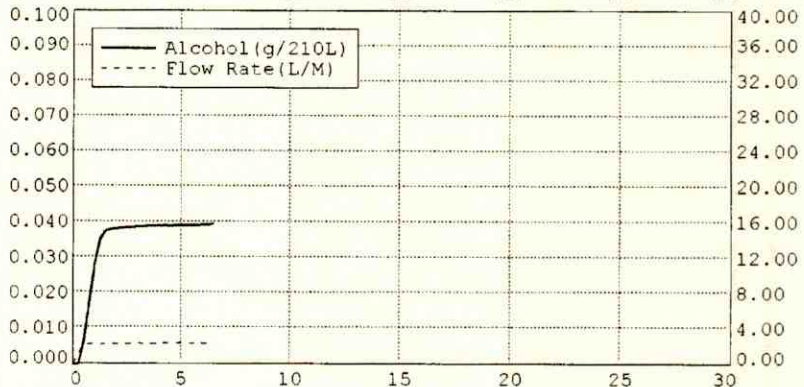
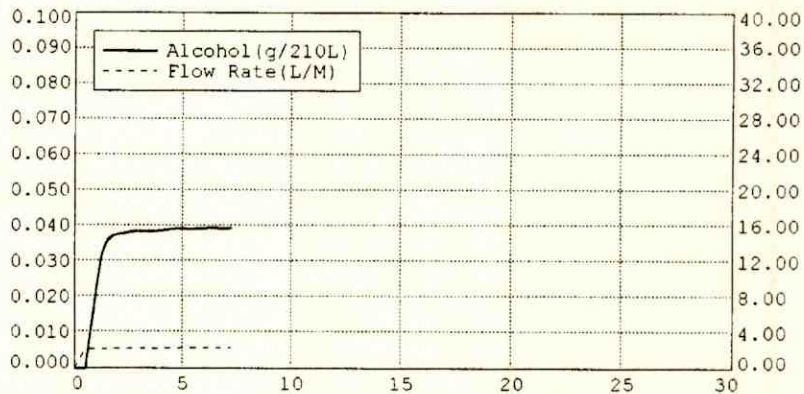
Date: 09/12/2012
 Time: 13:21:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.50: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:23
INTERNAL STANDARD	VERIFIED	13:23
EXTERNAL STANDARD	0.040	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.040	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.040	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.040	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.039	13:27
BLANK TEST	0.000	13:28

Average = 0.0402
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

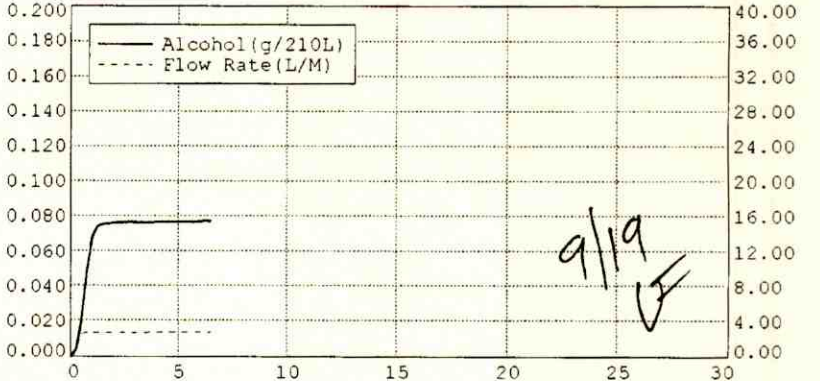
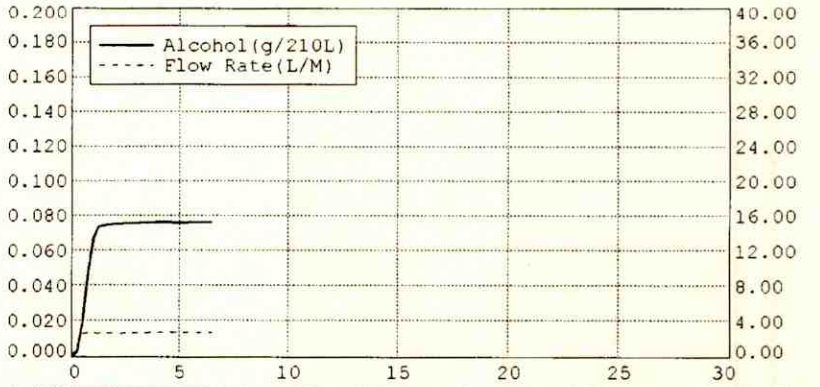
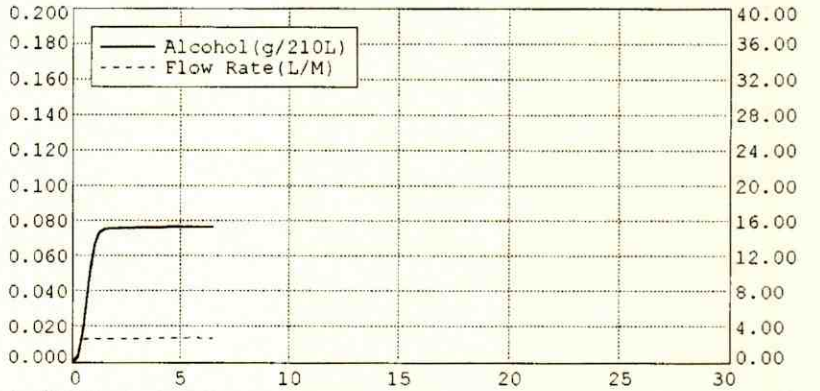
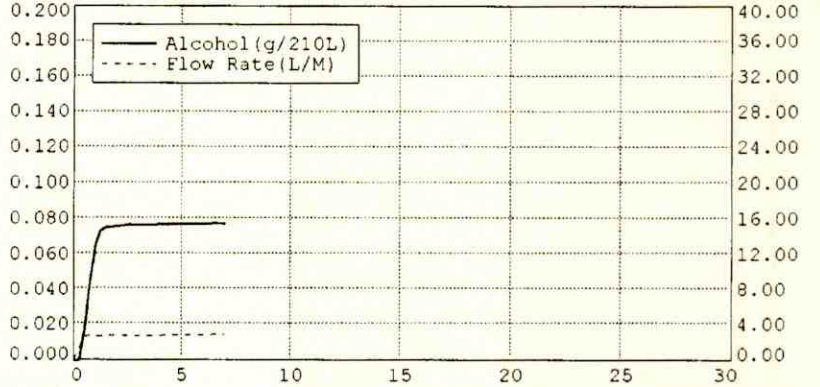
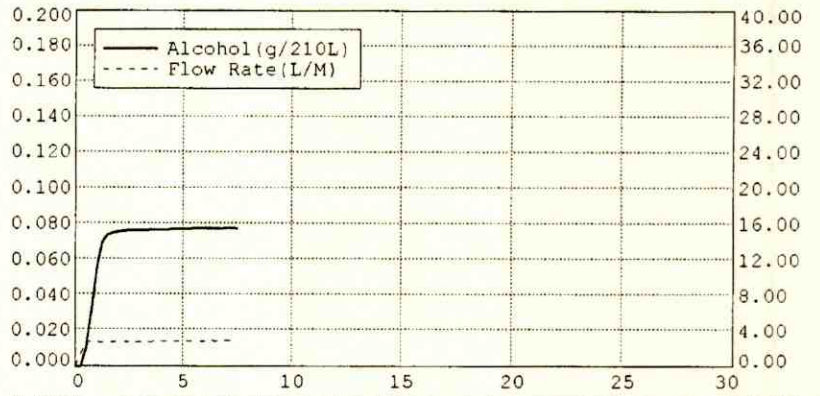
Date: 09/12/2012
 Time: 13:29:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
EXTERNAL STANDARD	0.078	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.078	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.077	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.077	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.078	13:35
BLANK TEST	0.000	13:36

Average = 0.0780
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

 Alaska Department of Public Safety
 DATAMASTER dmt: 100379

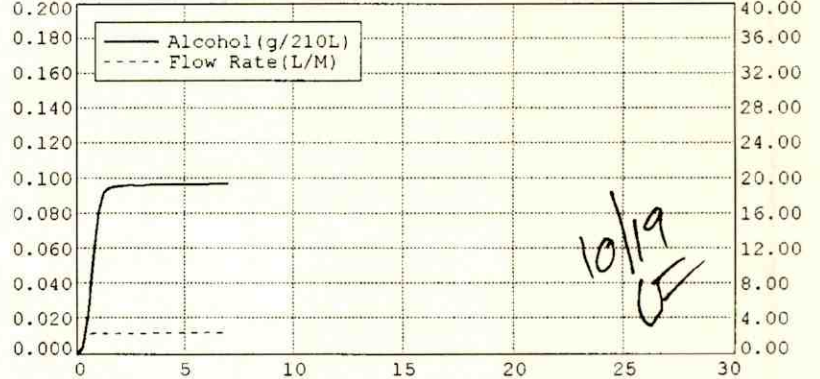
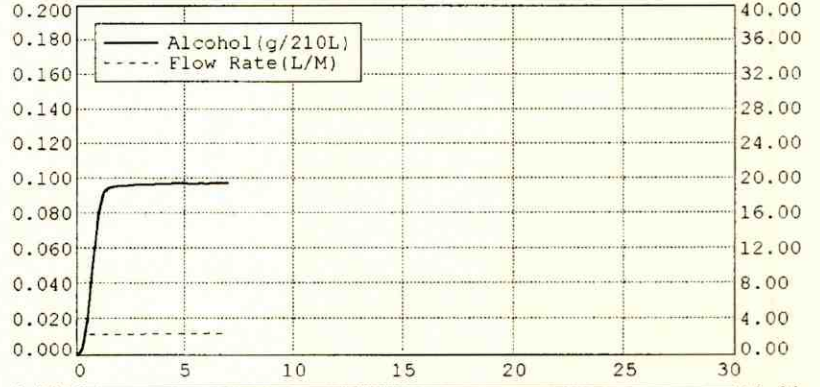
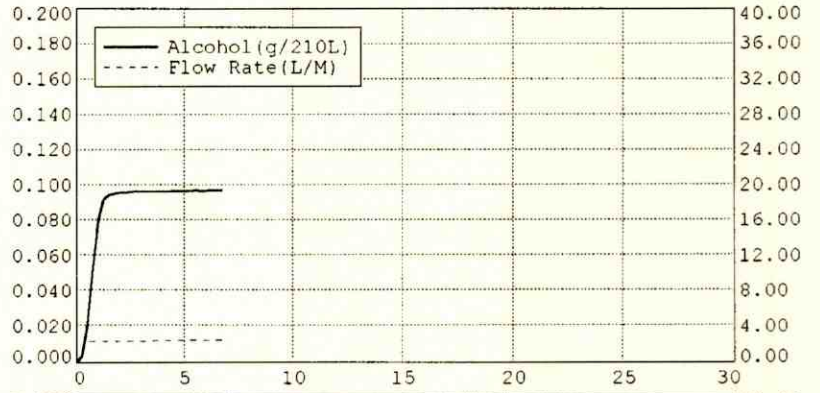
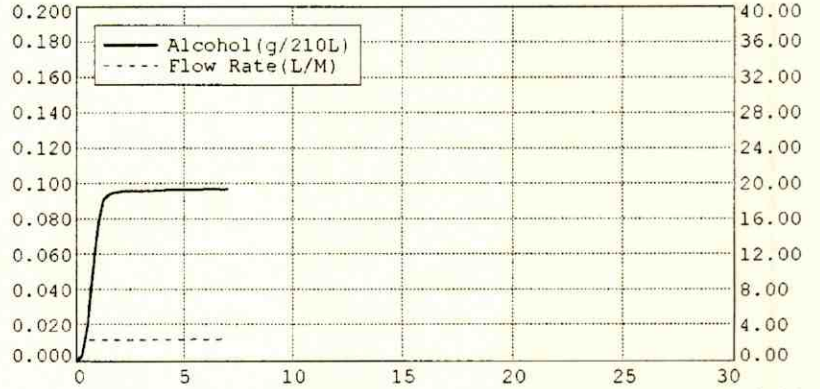
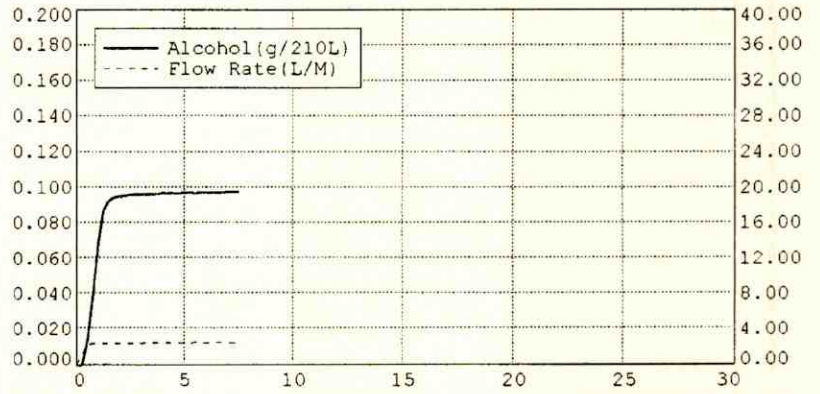
Date: 09/12/2012
 Time: 13:39:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.51: 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:40
INTERNAL STANDARD	VERIFIED	13:40
EXTERNAL STANDARD	0.098	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.097	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.097	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.097	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.097	13:45
BLANK TEST	0.000	13:46

Average = 0.0978
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

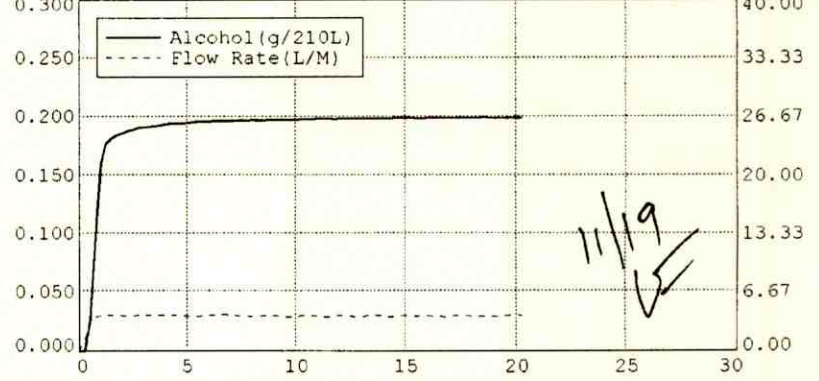
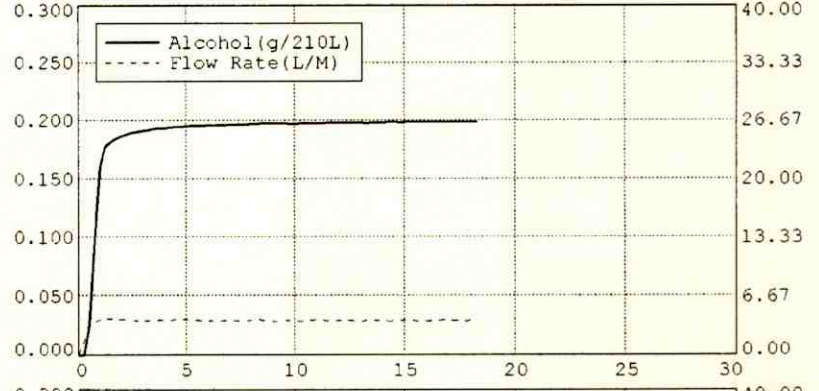
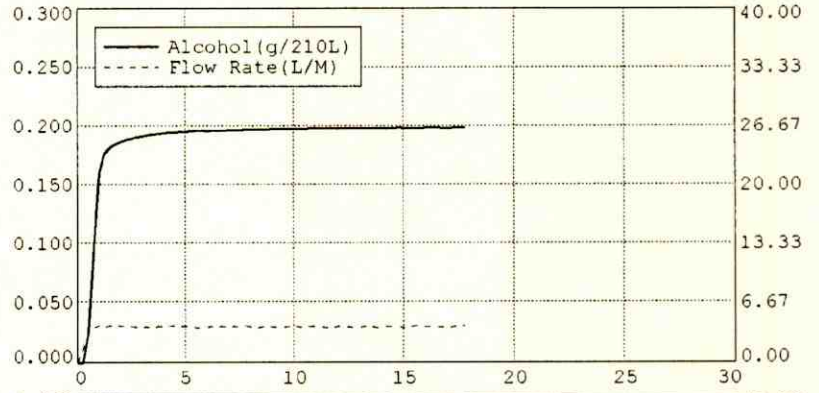
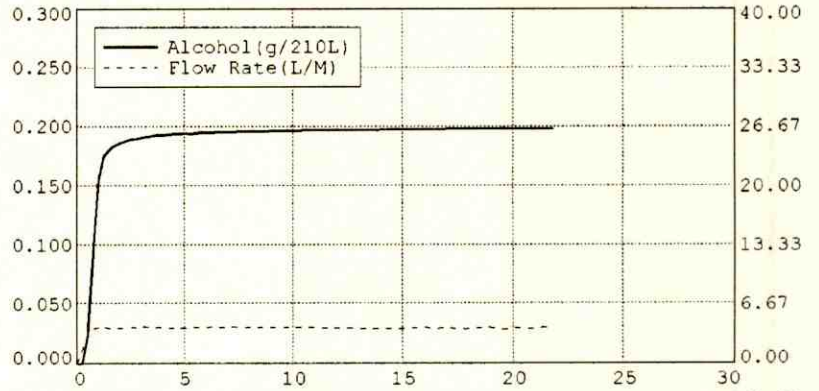
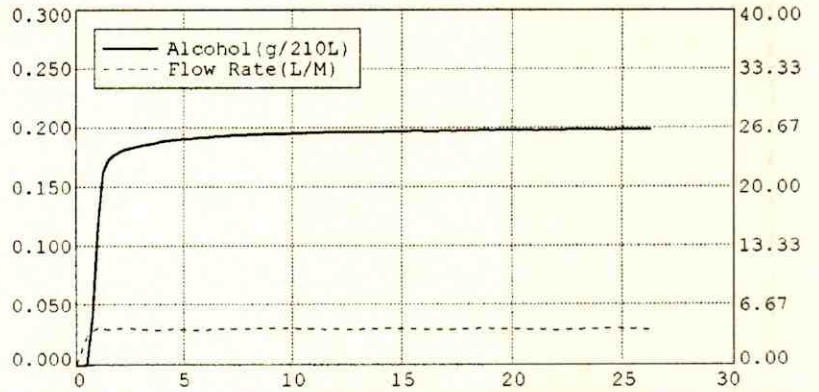
Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/12/2012
 Time: 13:48:47

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

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.199	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.199	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.198	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.199	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.199	13:56
BLANK TEST	0.000	13:57

Average = 0.1991
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

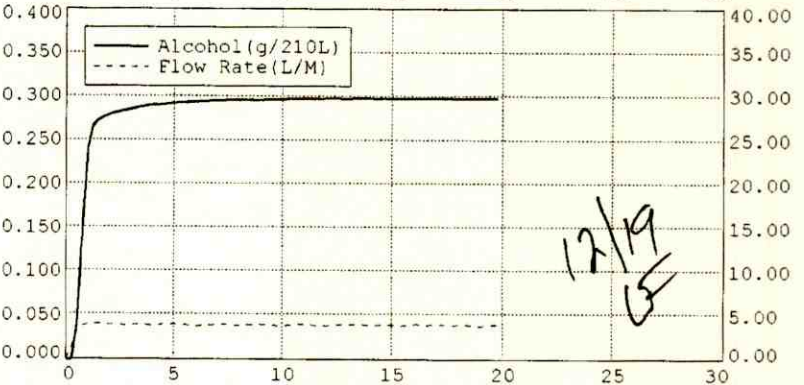
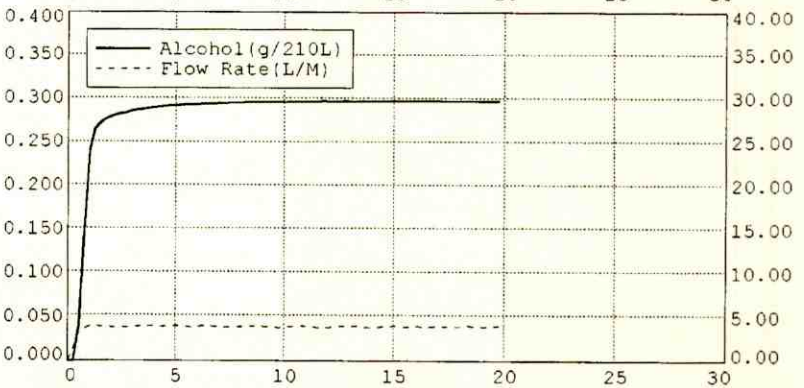
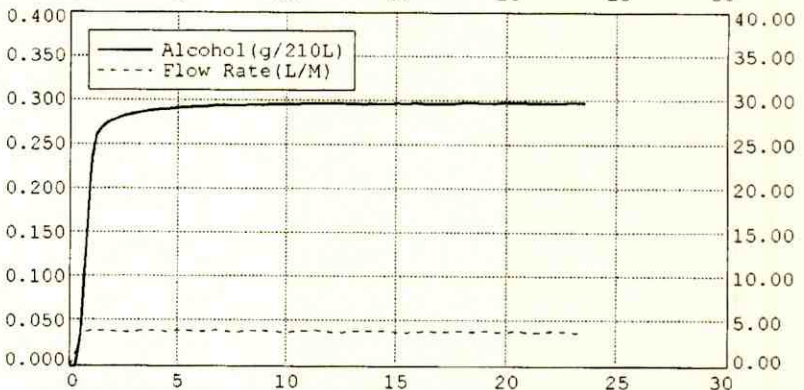
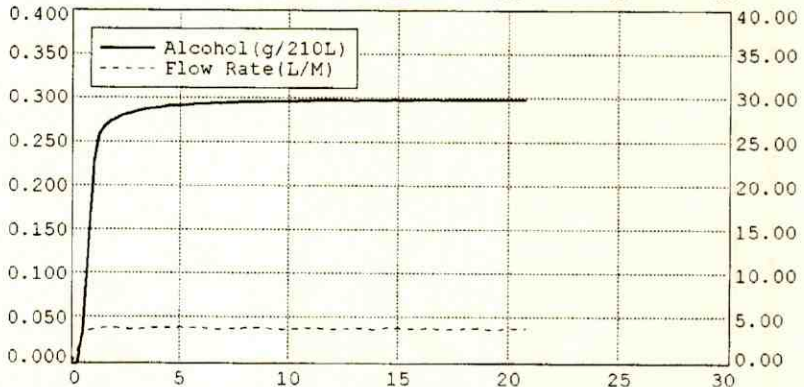
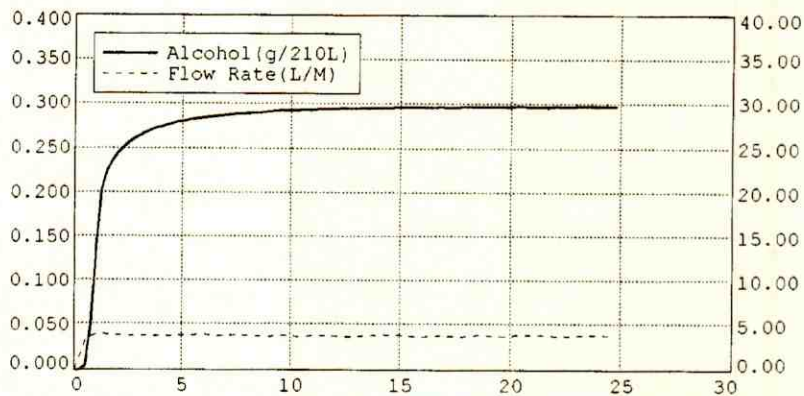
Date: 09/12/2012
 Time: 13:58:55

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.298	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.298	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.298	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.298	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.298	14:06
BLANK TEST	0.000	14:07

Average = 0.2983
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100379

Date: 09/12/2012
 Time: 14:27:47

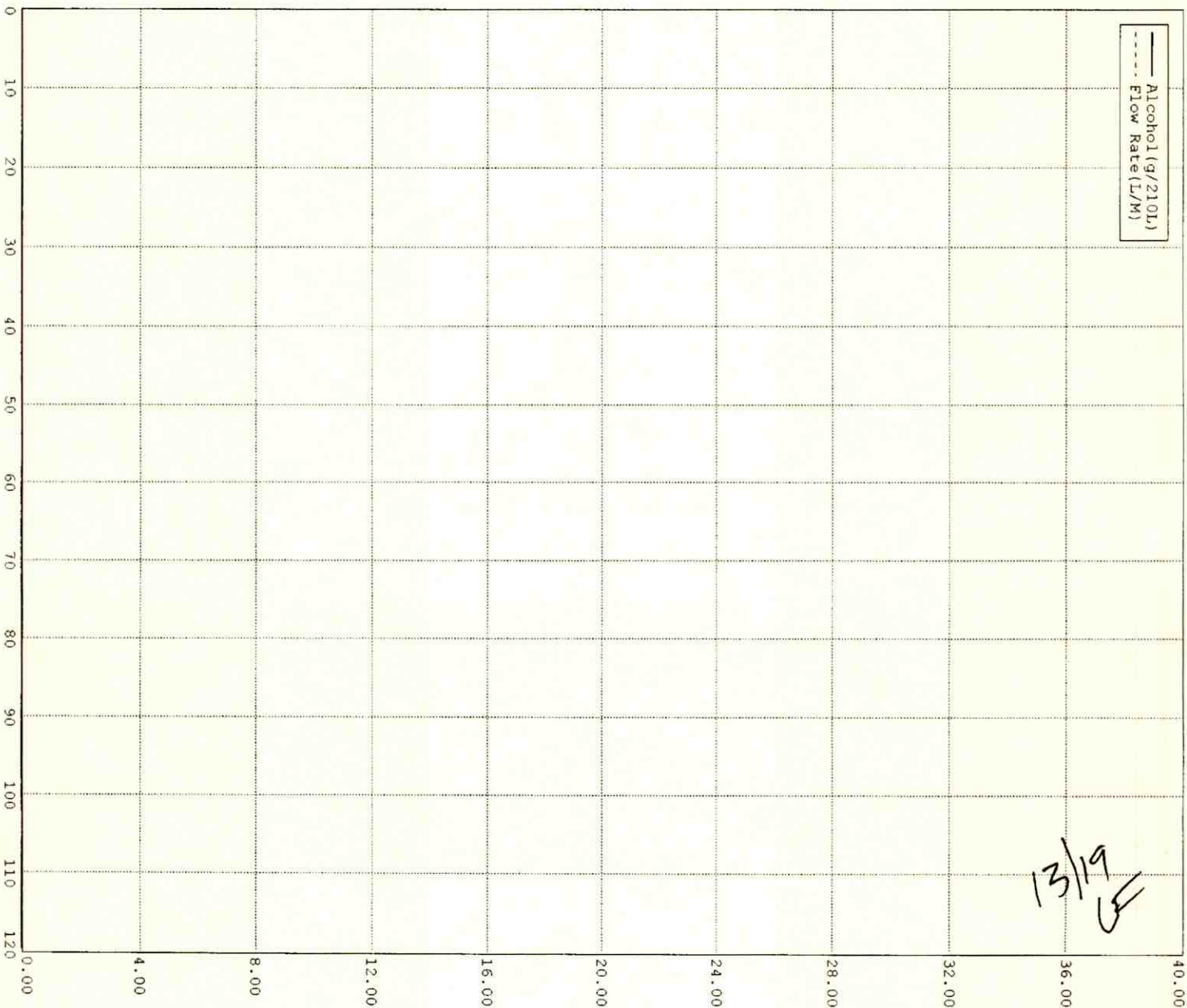
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.51: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.078	14:29
BLANK TEST	0.000	14:30
SUBJECT SAMPLE	INCOMPLETE	14:32



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/12/2012
Time: 14:37:33

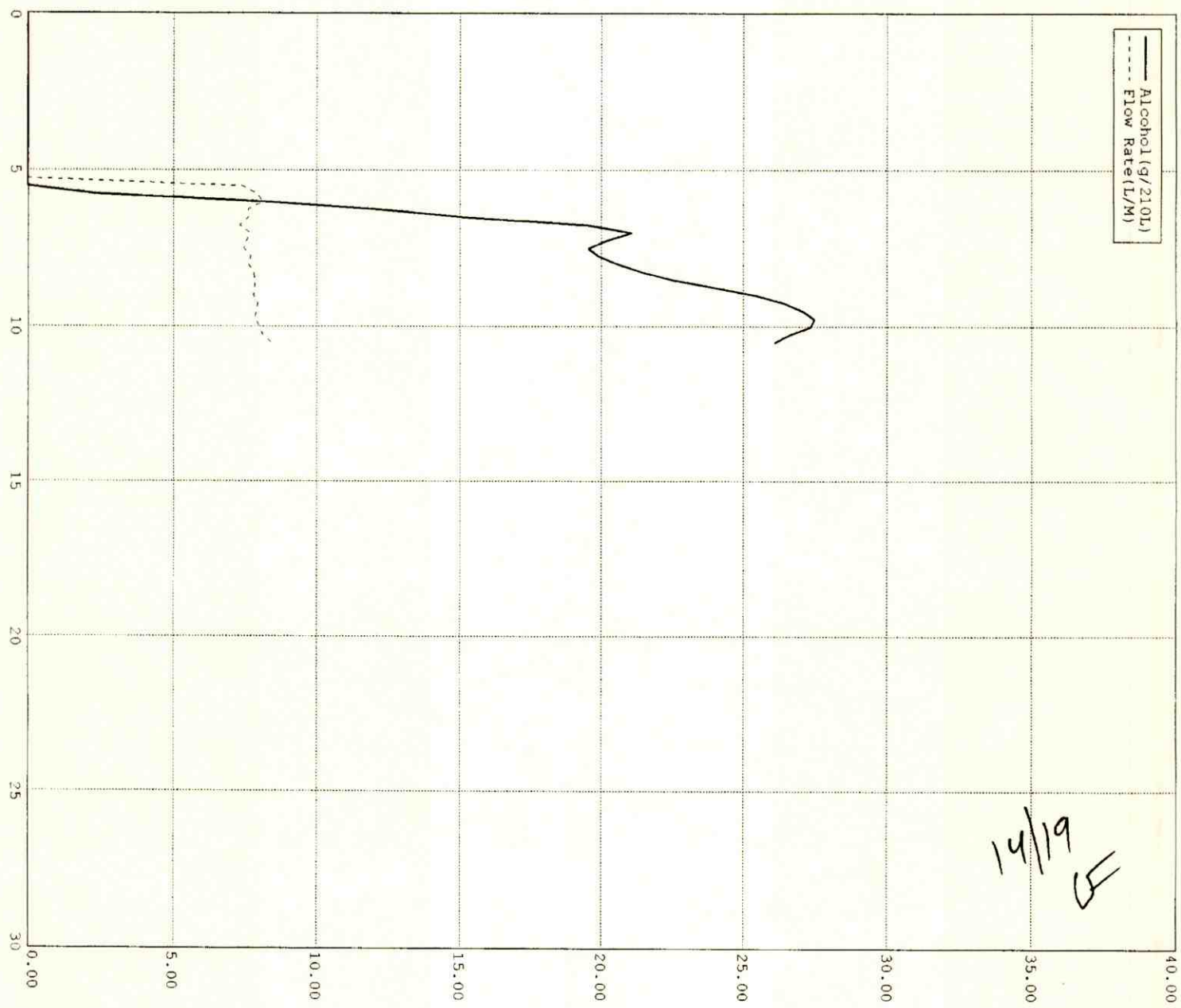
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.51: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.078	14:42
BLANK TEST	0.000	14:43
SUBJECT SAMPLE	INVALID	14:43



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/13/2012
 Time: 08:22:45

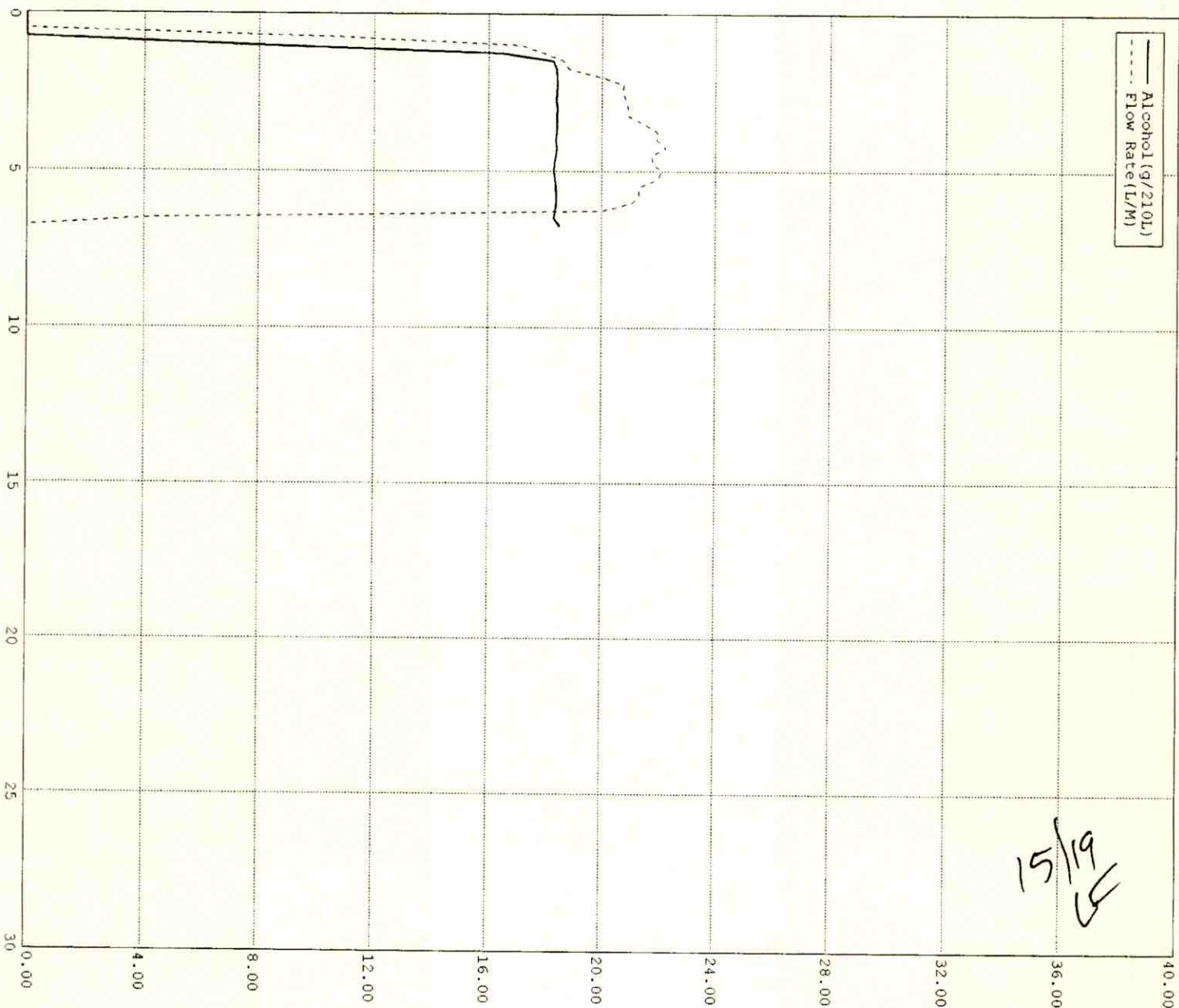
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:26
BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
Xq = 0.083 (2.46%)		
EXTERNAL STANDARD	0.078	08:26
X[1] = 0.0783 (-0.0016) (0.0004)		
BLANK TEST	0.000	08:27
SUBJECT SAMPLE	INTERFERENCE	08:27
X[1] = 0.0932 (-0.0143) (-0.0005)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/13/2012
Time: 08:31:03

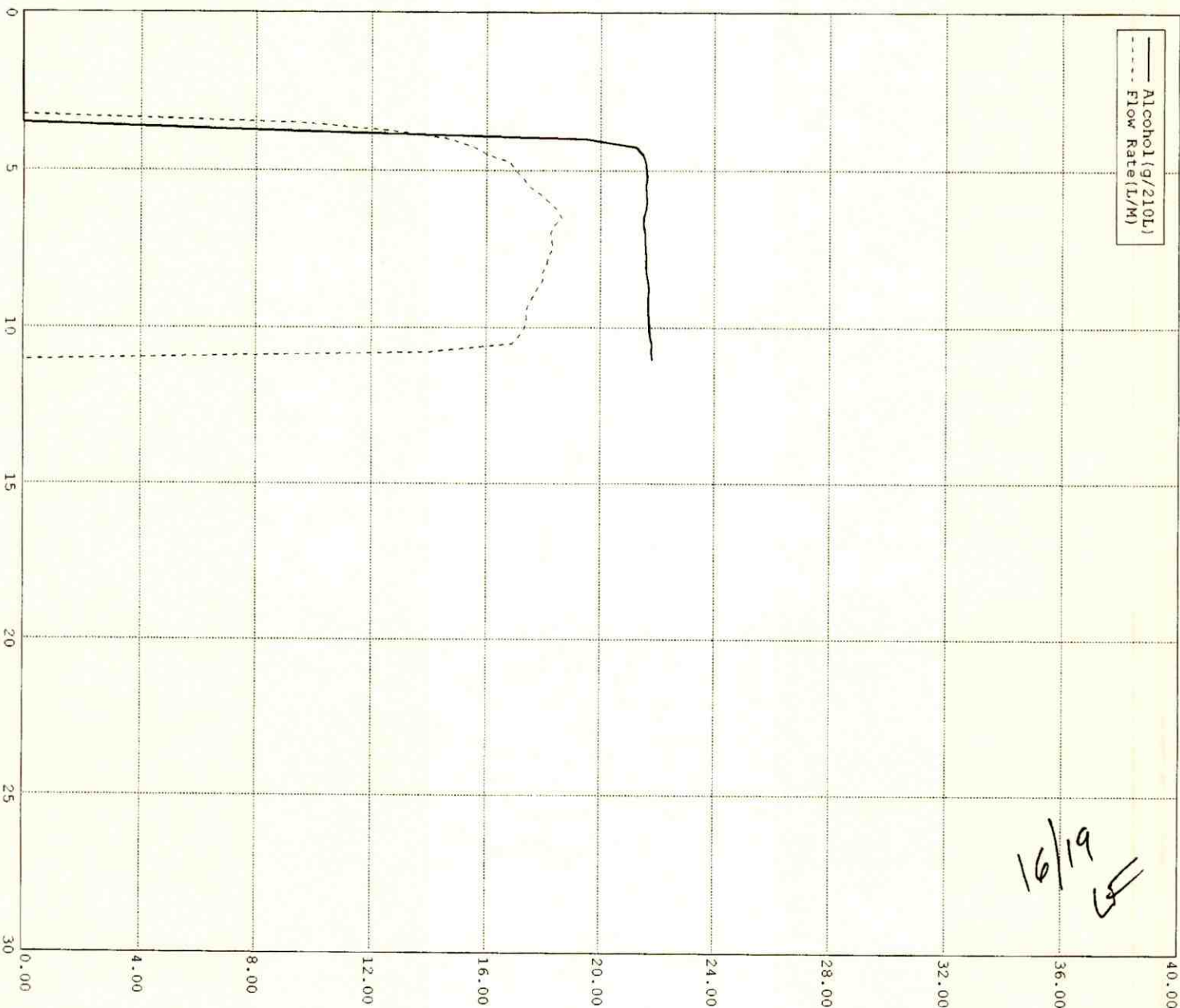
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.67: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:34
BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
Xq = 0.084 (3.53%)		
EXTERNAL STANDARD	0.079	08:34
X[1] = 0.0797 (-0.0009)	(0.0014)	
BLANK TEST	0.000	08:35
SUBJECT SAMPLE	INTERFERENCE	08:35
X[1] = 0.1098 (-0.0171)	(0.0014)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmtc: 100379

Date: 09/13/2012
 Time: 08:39:09

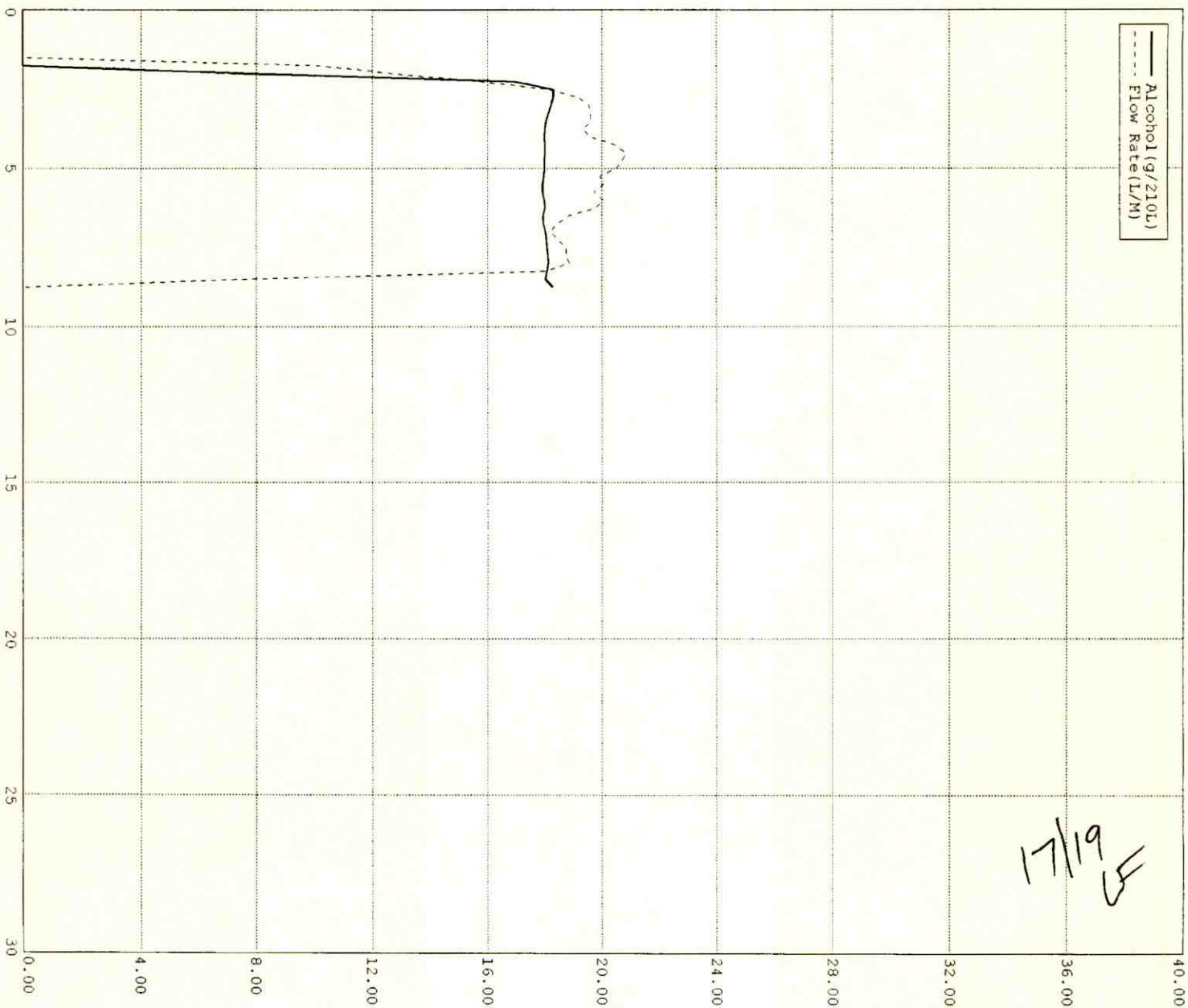
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:49
BLANK TEST	0.000	08:49
INTERNAL STANDARD	VERIFIED	08:49
Xq = 0.083 (2.25%)		
EXTERNAL STANDARD	0.079	08:49
X[1] = 0.0794 (-0.0009)	(0.0018)	
BLANK TEST	0.000	08:50
SUBJECT SAMPLE (Vol=2.13L)	0.091	08:50
X[1] = 0.0919 (-0.0004)	(0.0004)	
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.078	08:51
X[1] = 0.0786 (-0.0018)	(0.0011)	
BLANK TEST	0.000	08:52



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/12/2012
Time: 14:50:43

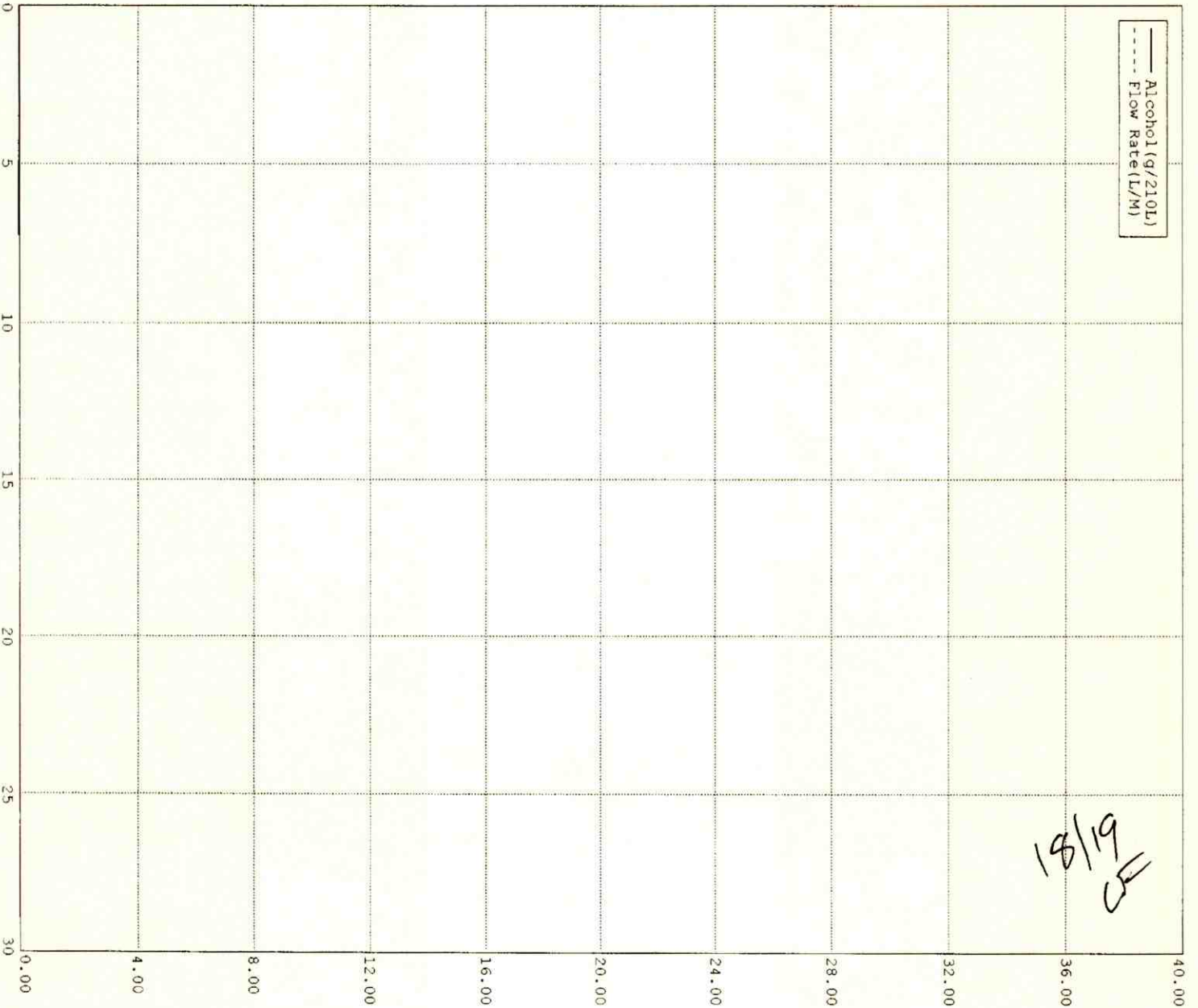
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:52
INTERNAL STANDARD VERIFIED 14:52
EXTERNAL STANDARD 0.078 14:52
BLANK TEST 0.000 14:53
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/13/2012
 Time: 09:25:47

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 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:28
BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.078	09:28
BLANK TEST	0.000	09:29
SUBJECT SAMPLE	0.000	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.079	09:31
BLANK TEST	0.000	09:32

