

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100373 Analyst Brandi Barnett Start Date 4/5/12
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 15210020A1 Exp 07/01/2012ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/20131. Simulator S/N SD1176 Date Calibrated 8/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/20131. Simulator S/N DR4176 Date Calibrated 02/21/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 5/29/12 ^{10/11/13 BMB}1. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 5/24/12 ^{11/17/12 BMB}1. Simulator S/N DR6267 Date Calibrated 01/10/12iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/2011d. 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 ☒ ^{11/19 BMB}End Date 4/6/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/05/2012
Time: 11:32:42

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 = 5.367 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 BMB

Technician Screen

DATAMASTER dmt: 100373

Date: 04/05/2012
Time: 12:35 PM

Temperatures (°C)
Sample Cell: 49.4°C
Breath Tube: 48.0°C

Current Barometer 29.9 in
Volume (Ltr) 1.56

Settings
Lamp: 1.71 V
Bias: 80 V
Cooler: 1.61 V
Chopper: 539 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.057 V

3/19 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/12/2011
Time: 16:20:23

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

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

Ca = 0.1000
CAL = 0.963237 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0814 0.0500 <= Xq < 0.2000
a21 = 1.168708 1.050 <= a21 < 1.300
a31 = 0.507741 0.300 <= a31 < 0.800

4/19/2012

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100373

Date: 04/05/2012
 Time: 12:37:12

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

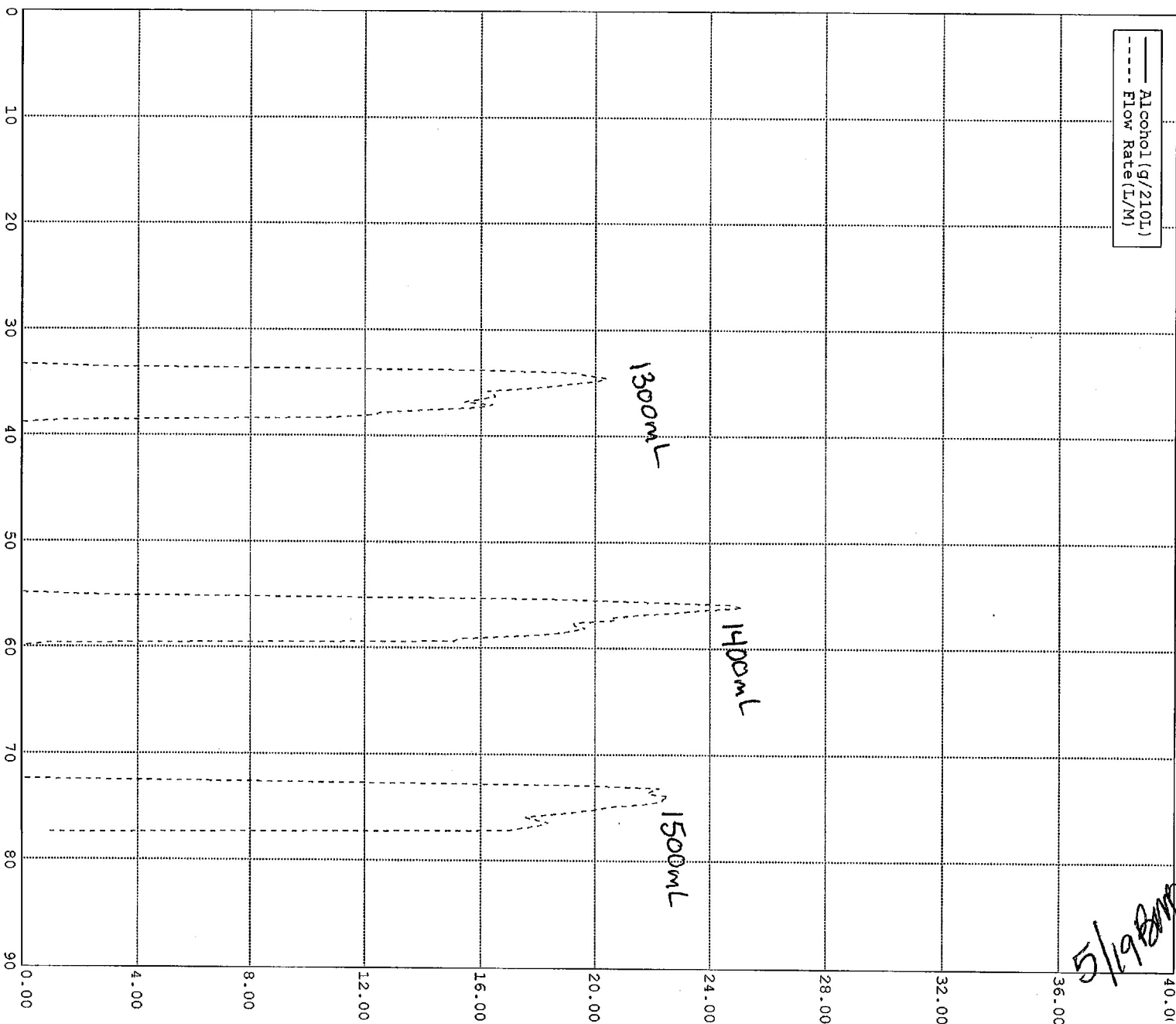
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.91: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:39
BLANK TEST	0.000	12:39
INTERNAL STANDARD	0.077	12:39
EXTERNAL STANDARD	0.000	12:39
BLANK TEST	0.000	12:40
SUBJECT SAMPLE	0.000	12:42
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.078	12:43
BLANK TEST	0.000	12:44

Handwritten signature: BMB

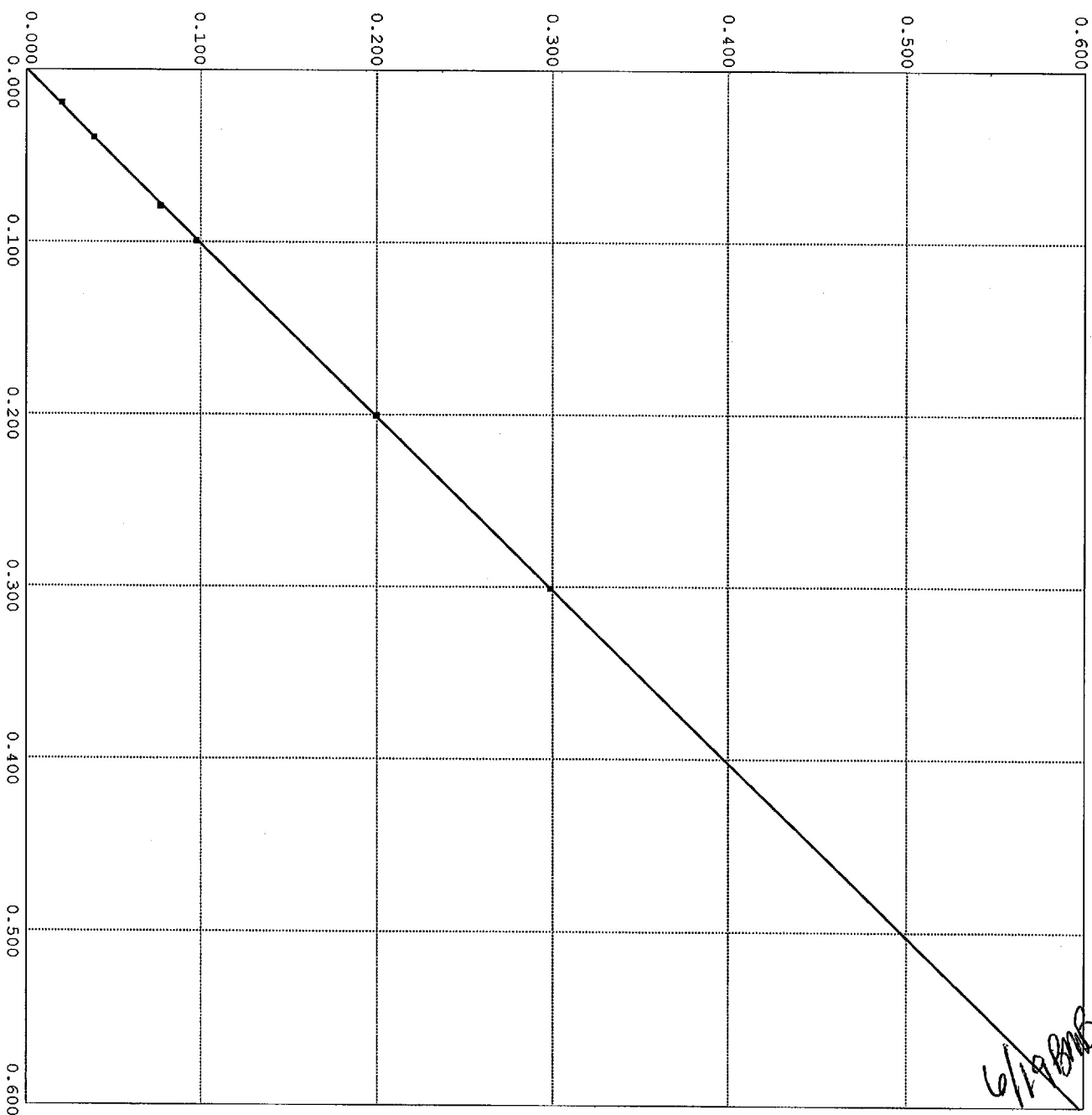


Handwritten signature and date: 5/19/12

LINEARITY CHECK

Alaska Department of Public Safety
DATA MASTER dmt: 100373Date: 04/05/2012
Time: 12:56:44SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0211	0.0004
0.039	0.0399	0.0004
0.079	0.0780	0.0002
0.099	0.0987	0.0003
0.200	0.2006	0.0007
0.300	0.2994	0.0003

SLOPE = 0.994794
 R^2 = 0.999908

BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100373

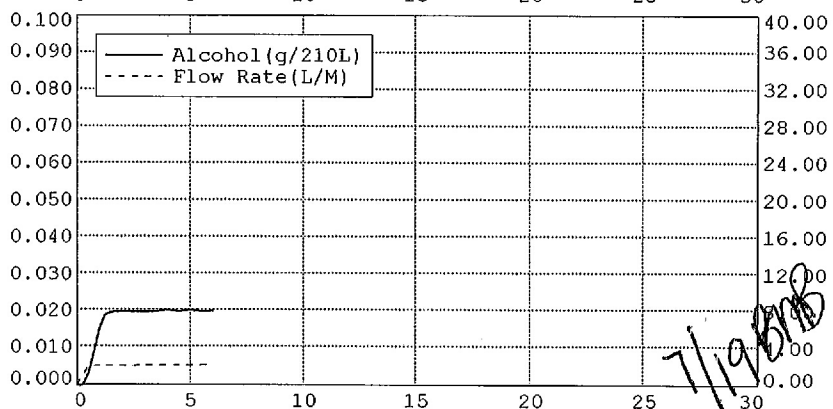
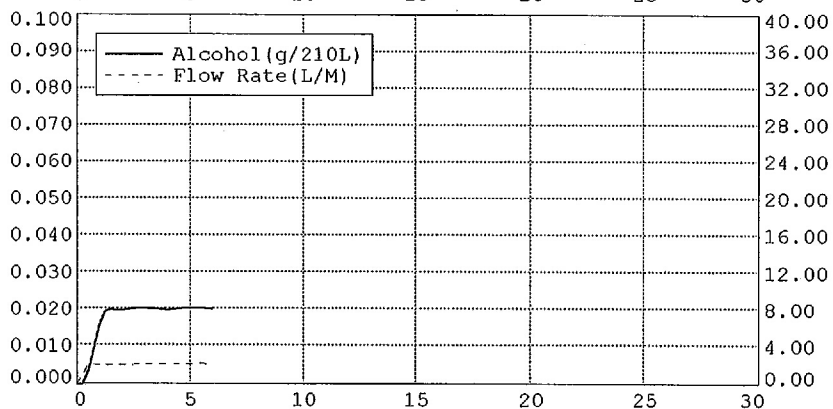
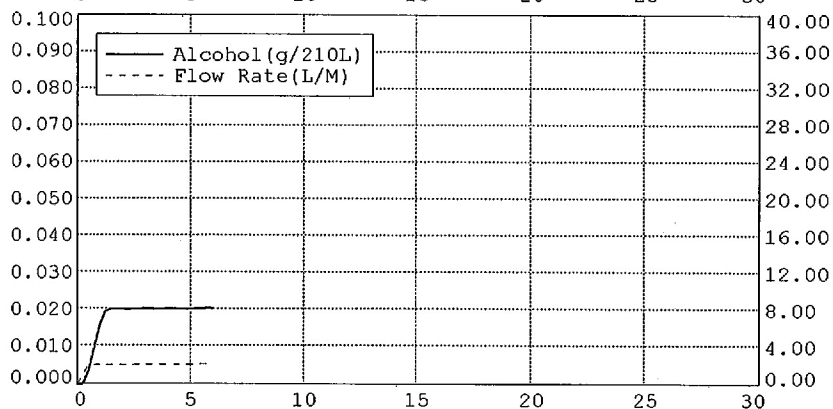
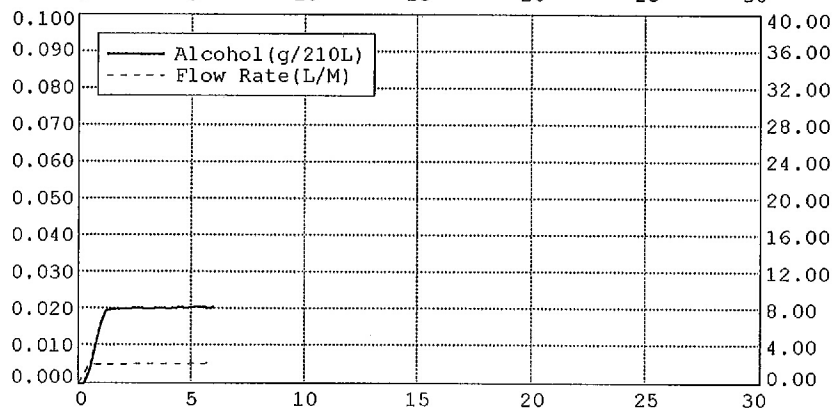
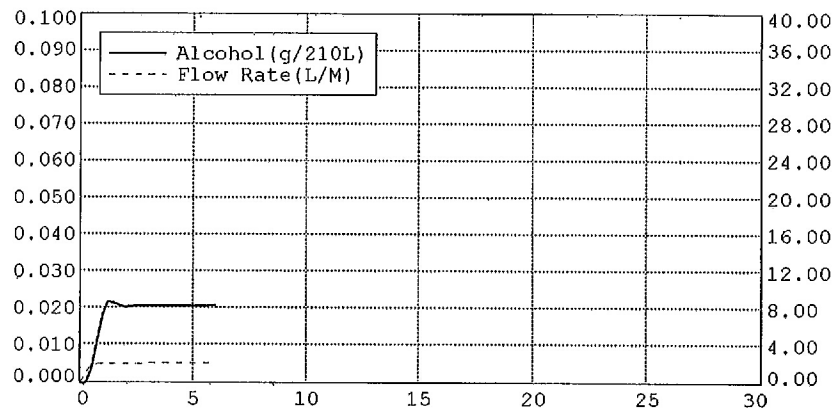
Date: 04/05/2012
Time: 12:56:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.91: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.021	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.021	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.020	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.021	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03

Average = 0.0211
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100373

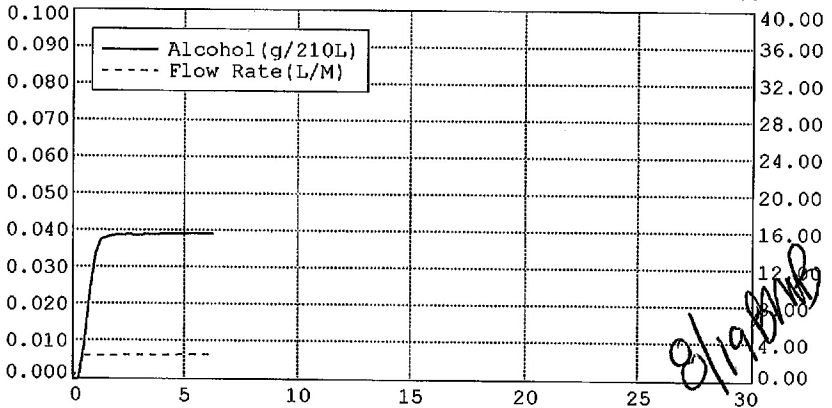
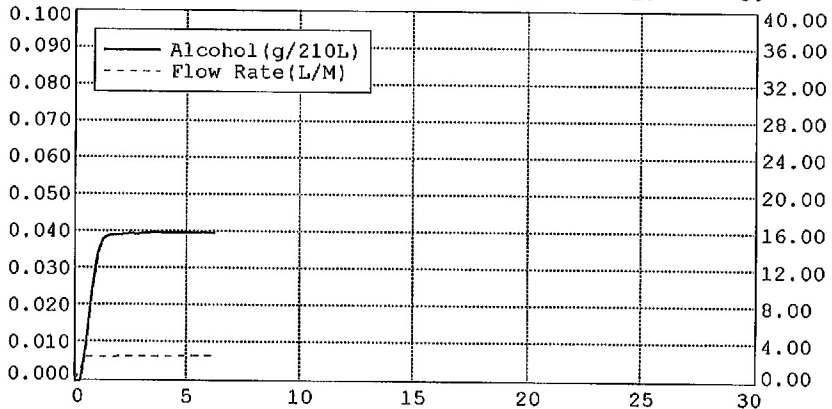
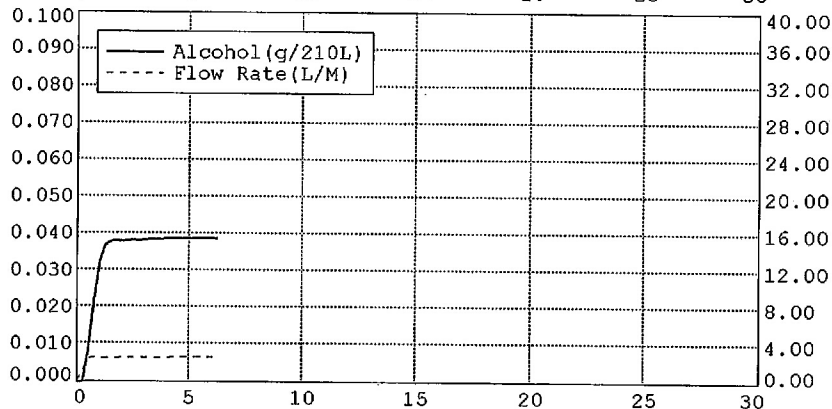
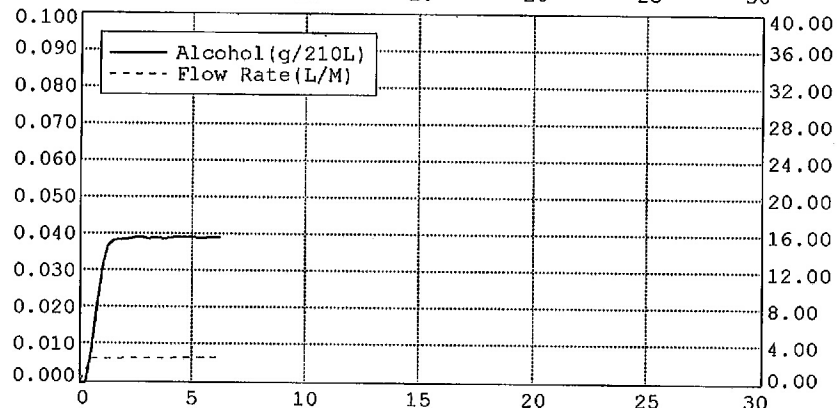
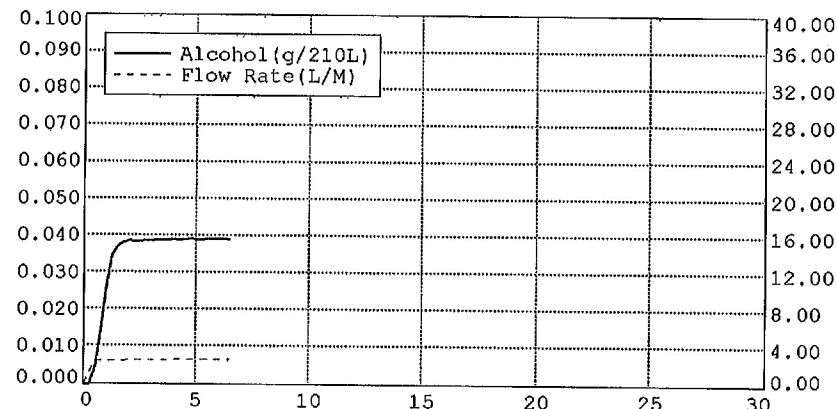
Date: 04/05/2012
Time: 13:10:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.91: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.039	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.039	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.039	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.040	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.040	13:16
BLANK TEST	0.000	13:17

Average = 0.0399
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100373

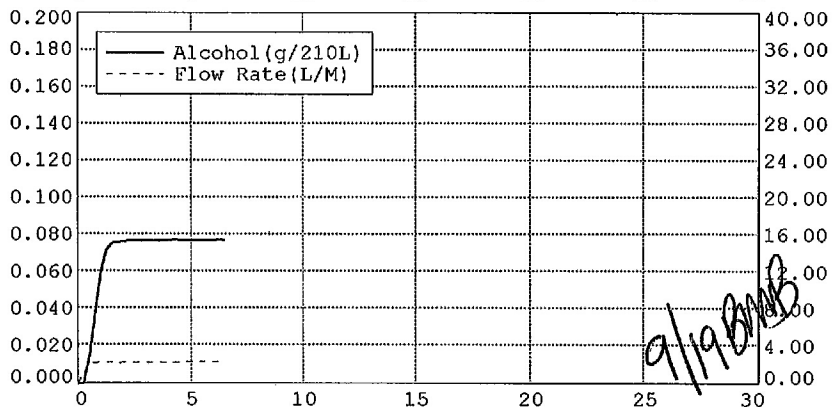
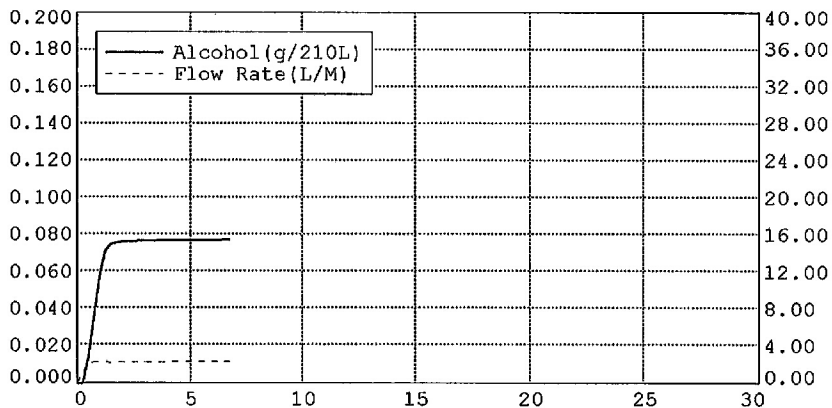
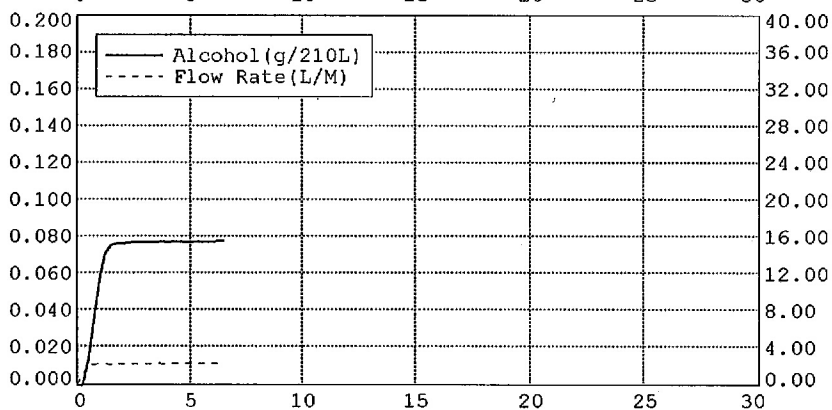
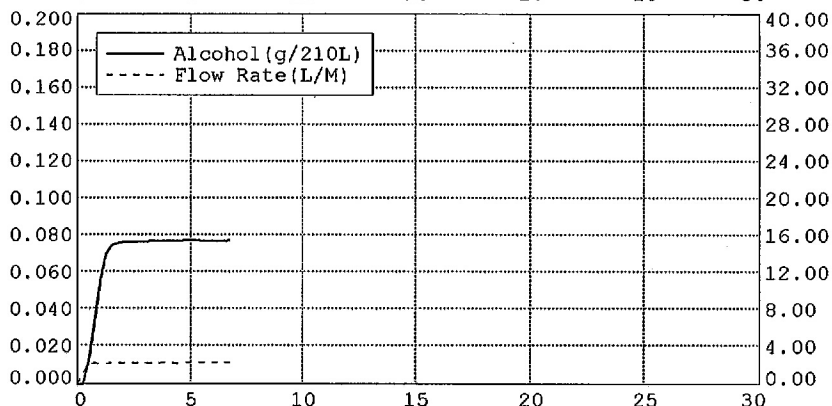
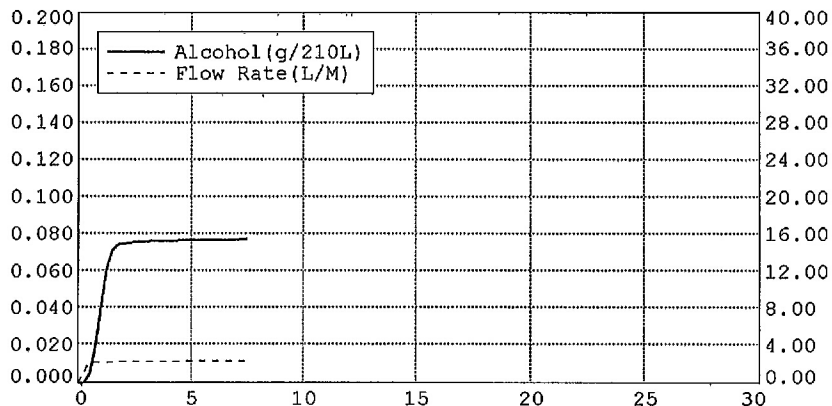
Date: 04/05/2012
Time: 13:22:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.89; 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.077	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.078	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.078	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.077	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.077	13:29
BLANK TEST	0.000	13:29

Average = 0.0780
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100373

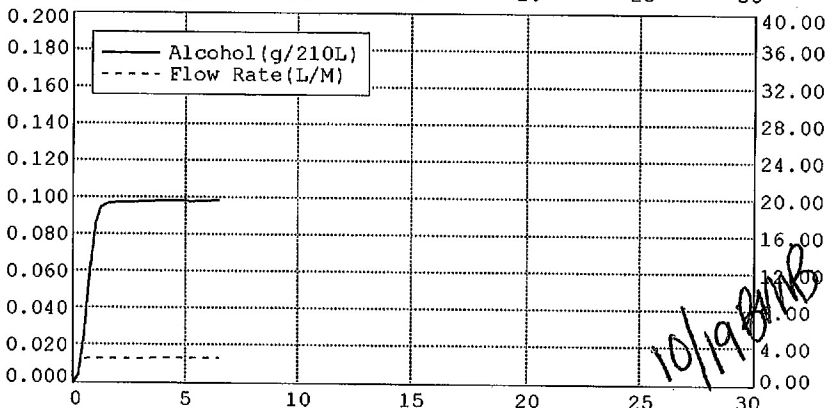
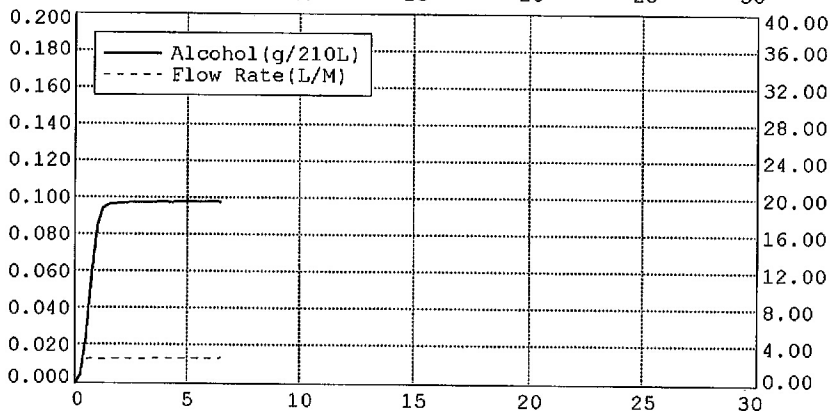
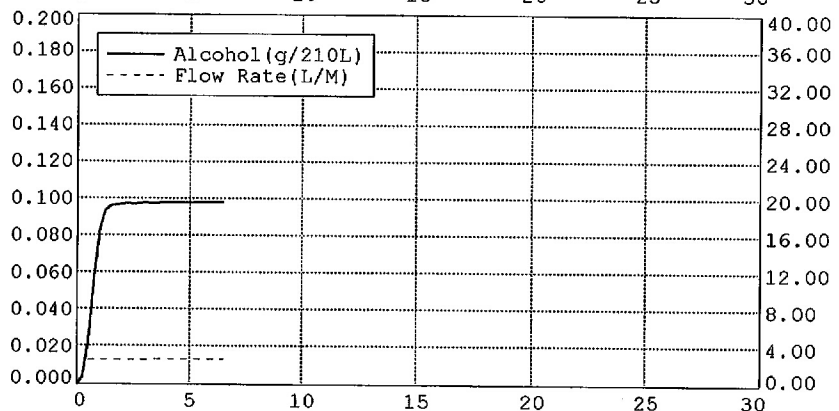
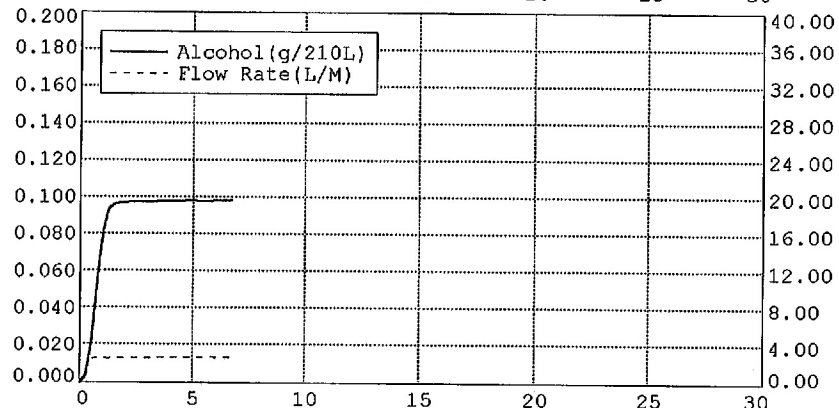
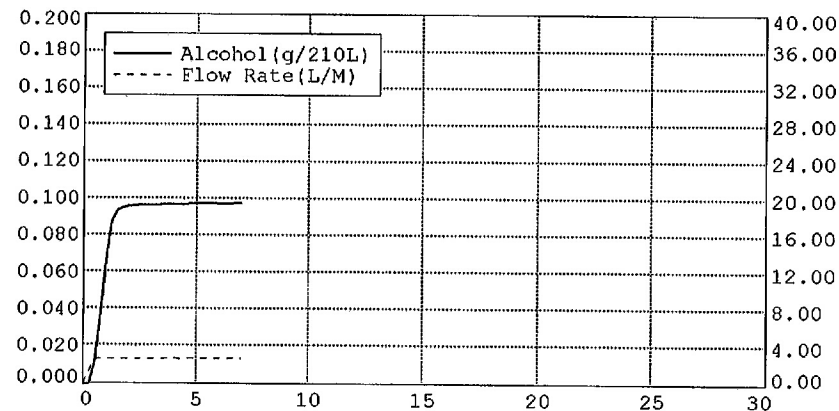
Date: 04/05/2012
Time: 13:46:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.90: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.098	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.098	13:49
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.098	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.098	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.098	13:52
BLANK TEST	0.000	13:53

Average = 0.0987
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/05/2012
Time: 14:03:58

EXTERNAL STANDARD INFORMATION

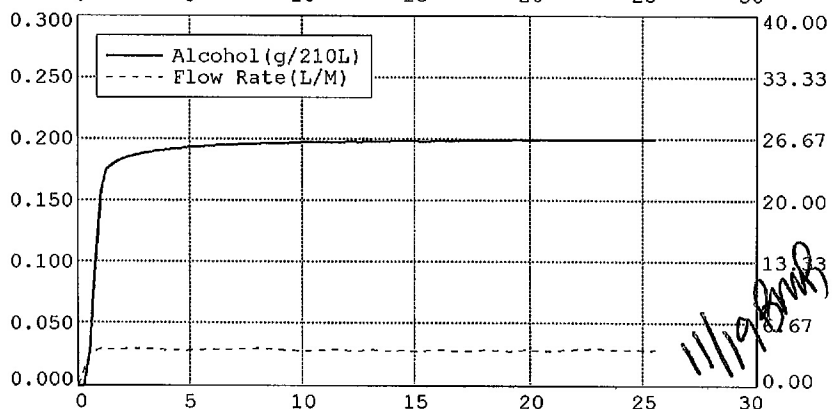
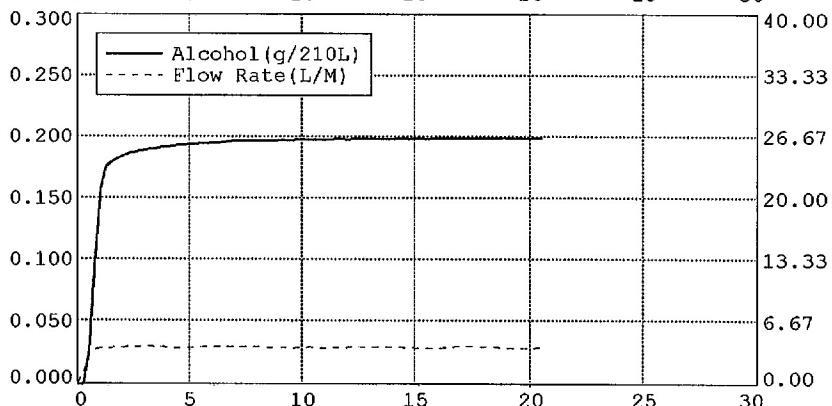
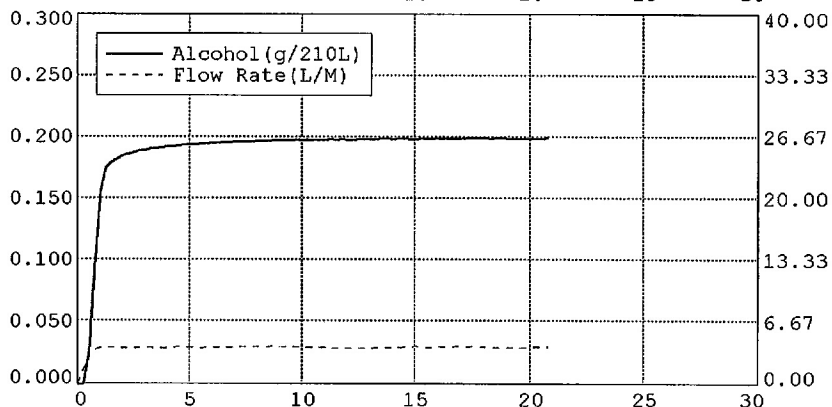
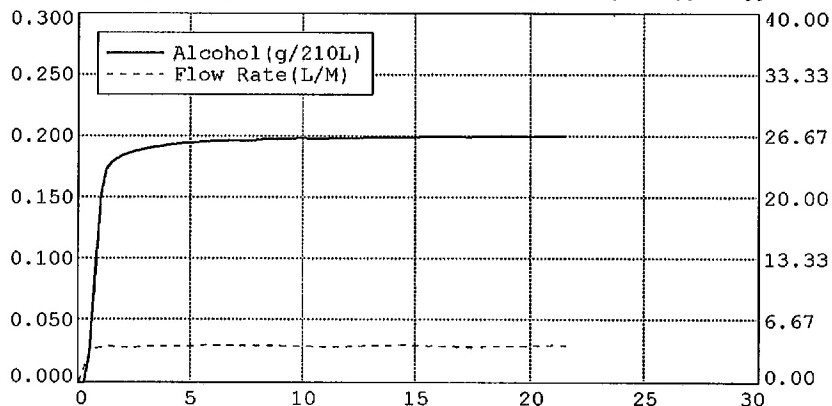
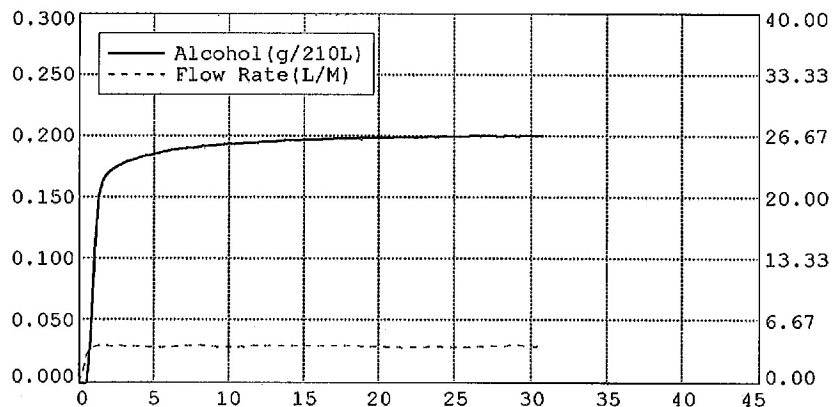
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.201	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.201	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.200	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.200	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.200	14:11
BLANK TEST	0.000	14:12

Average = 0.2006
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100373

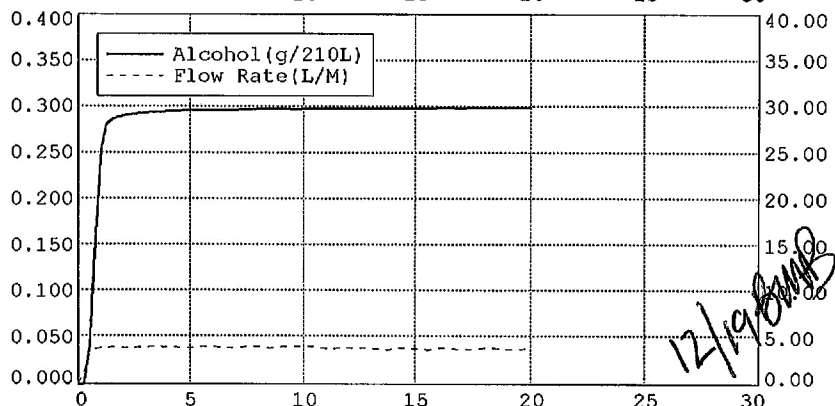
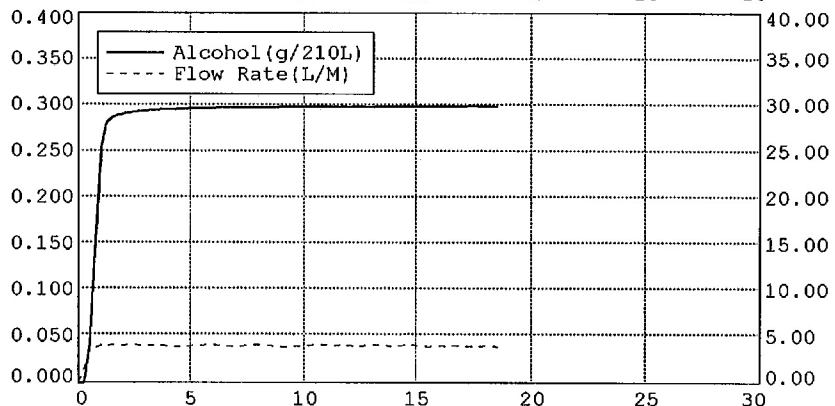
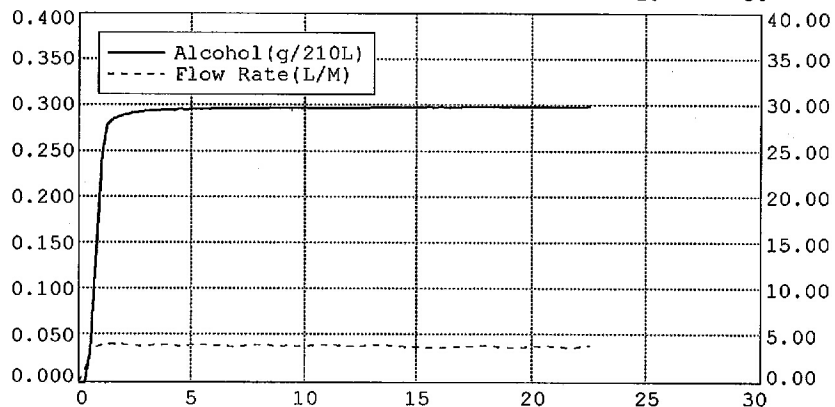
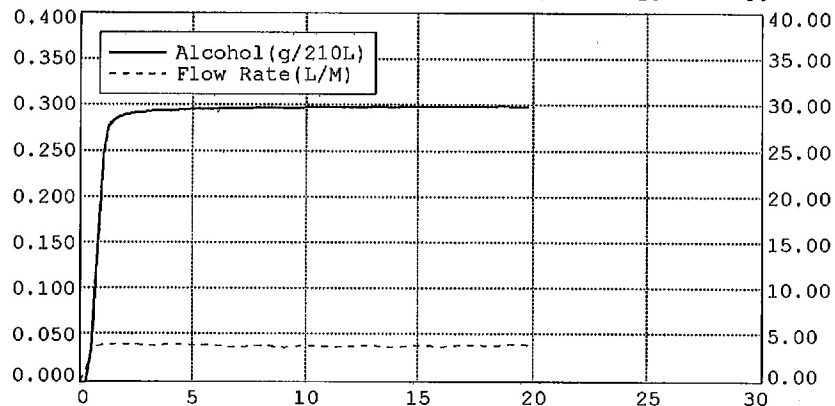
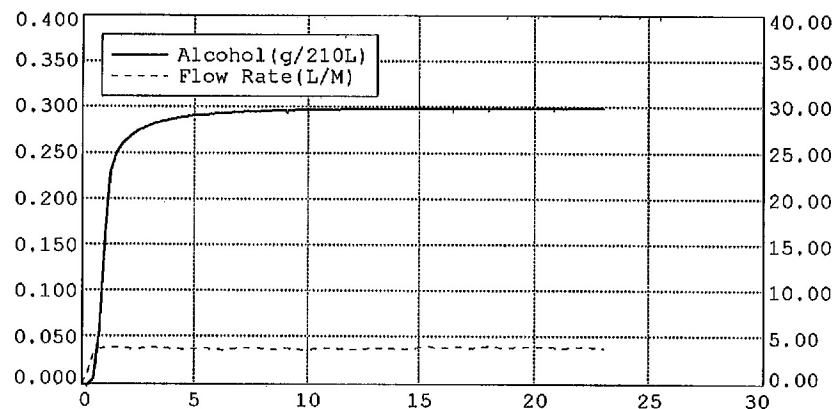
Date: 04/05/2012
Time: 14:16:26

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.299	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.299	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.299	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.299	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.299	14:24
BLANK TEST	0.000	14:25

Average = 0.2994
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/05/2012
Time: 14:33:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

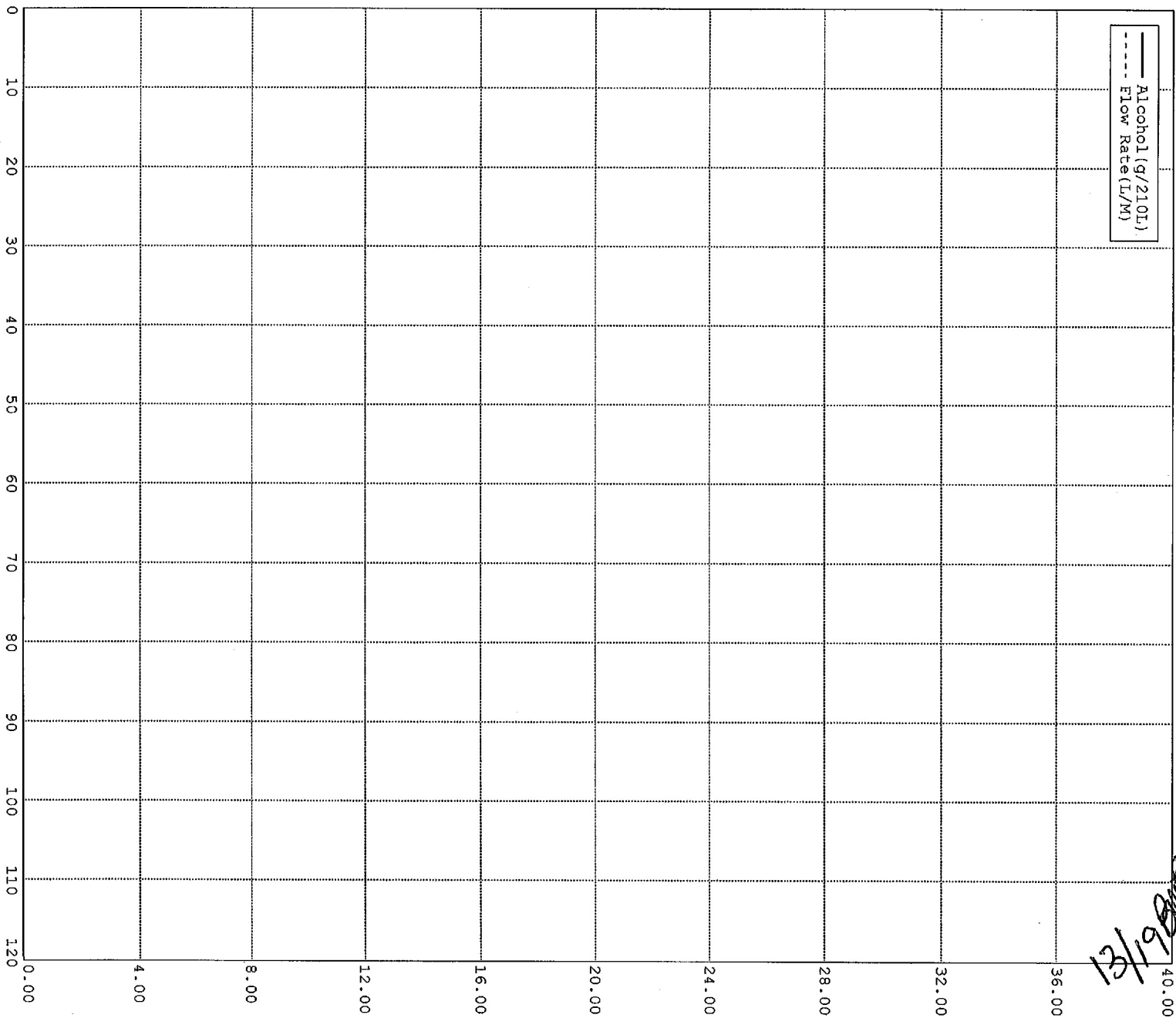
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.077	14:35
BLANK TEST	0.000	14:35
SUBJECT SAMPLE	INCOMPLETE	14:37

Alcohol (g/210L)
Flow Rate (L/M)



BMF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/05/2012
Time: 14:40:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

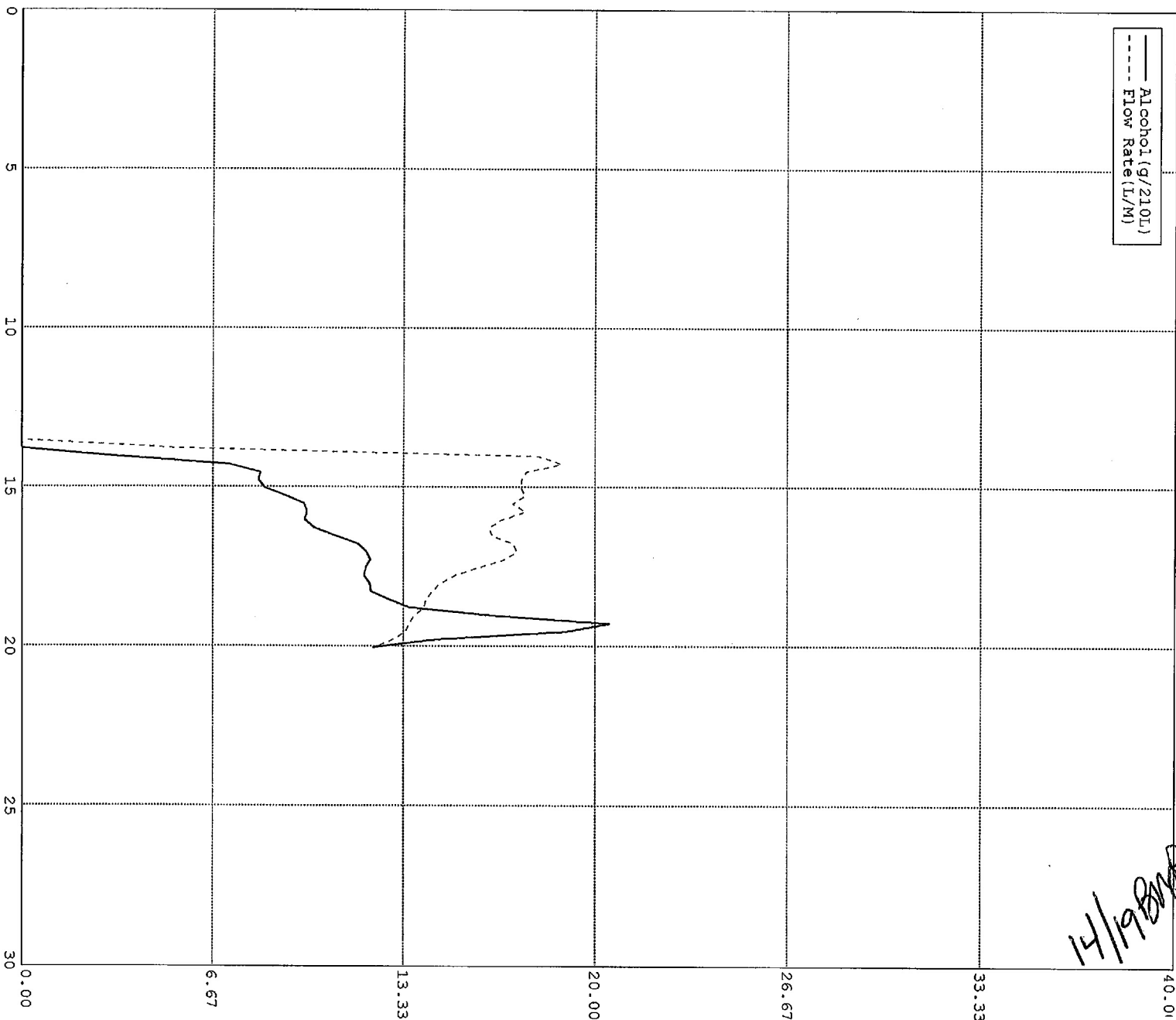
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INVALID KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 14:42
INTERNAL STANDARD	0.000 14:42
EXTERNAL STANDARD	VERIFIED 14:42
BLANK TEST	0.077 14:42
SUBJECT SAMPLE	0.000 14:43
	INVALID 14:44

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373Date: 04/05/2012
Time: 15:11:22SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERENCEOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
ETHANOL AND ACETONE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 15:12
INTERNAL STANDARD	0.000 15:12
Xq = 0.082 (0.43%)	VERIFIED 15:12
EXTERNAL STANDARD	0.077 15:12
X[1] = 0.0778 (-0.0015) (0.0038)	
BLANK TEST	0.000 15:13
SUBJECT SAMPLE	INTERFERENCE 15:14
X[1] = 0.0833 (-0.0138) (0.0021)	

BMB



15/19/2012

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

Date: 04/05/2012
 Time: 14:52:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

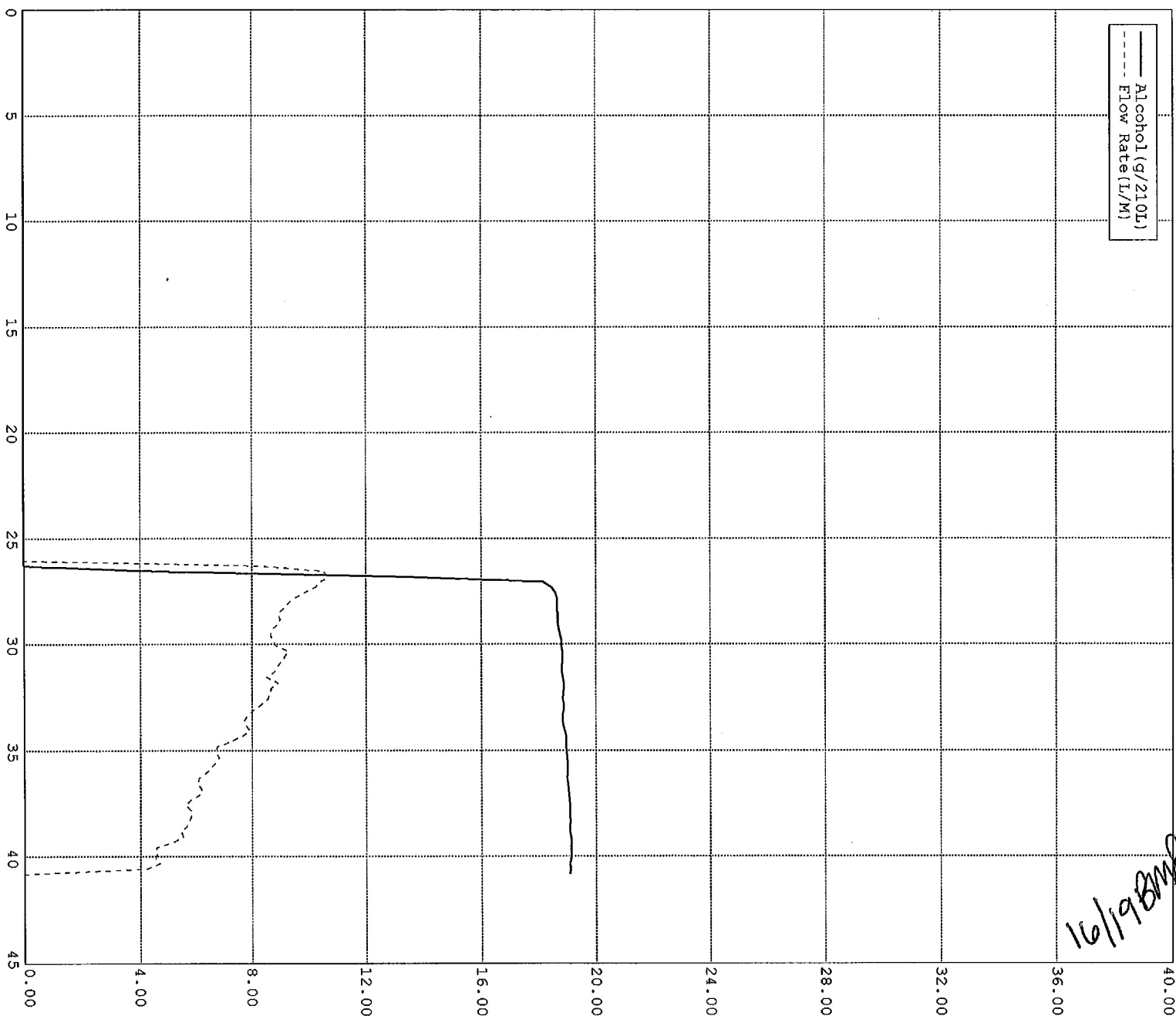
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 ETOH AND ISOPROPANOL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.87: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:54
BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
Xq = 0.082 (0.96%)		
EXTERNAL STANDARD	0.078	14:54
X[1] = 0.0781 (-0.0011)	(0.0036)	
BLANK TEST	0.000	14:55
SUBJECT SAMPLE	INTERFERENCE	14:56
X[1] = 0.0959 (-0.0237)	(0.0022)	

BBMB



BBMB 6/1/11

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100373

Date: 04/05/2012
 Time: 15:00:36

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

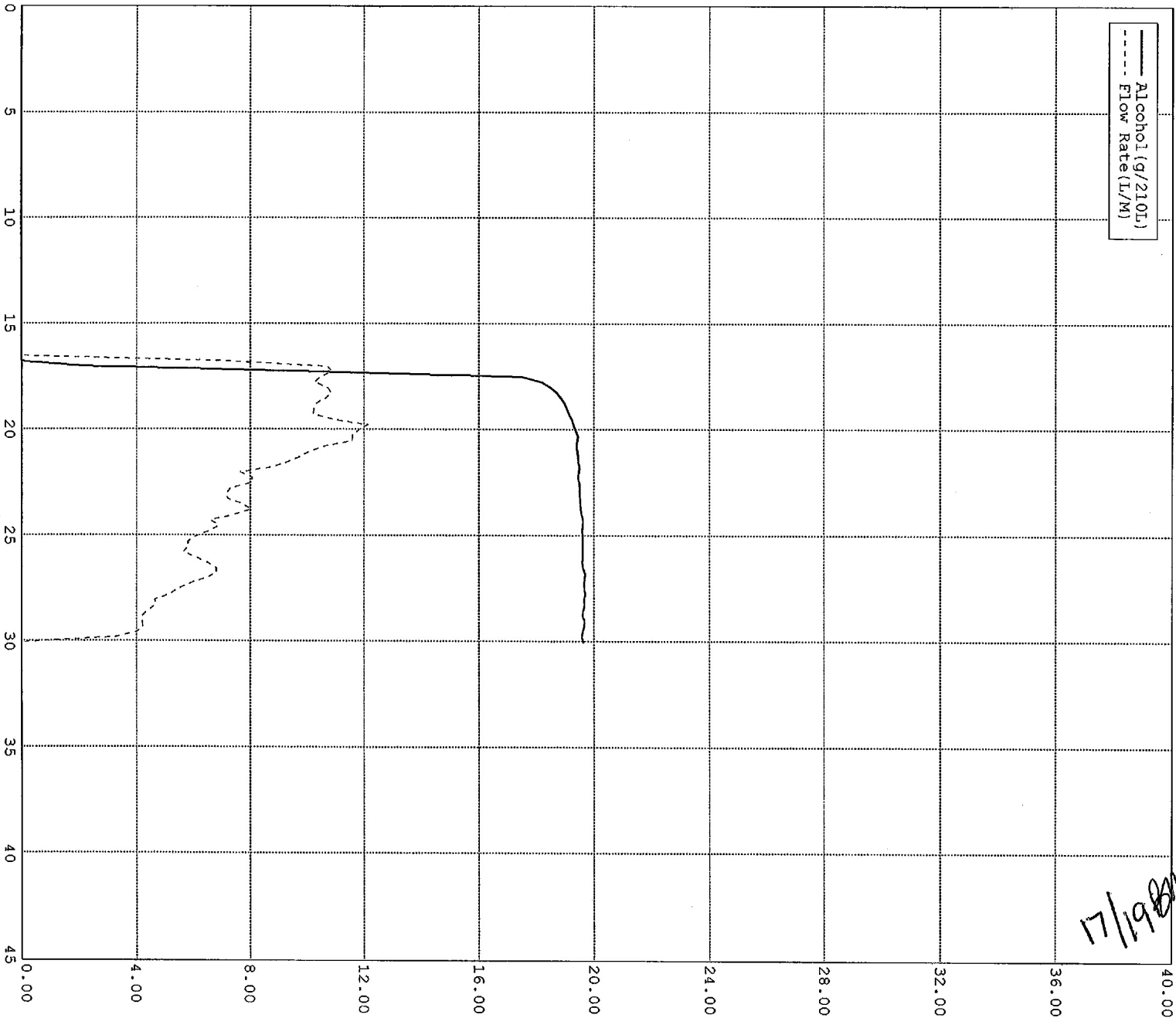
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.87: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:01
BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:02
Xq = 0.082 (1.07%)		
EXTERNAL STANDARD	0.078	15:02
X[1] = 0.0784 (-0.0010)	(0.0033)	
BLANK TEST	0.000	15:03
SUBJECT SAMPLE (Vol=1.73L)	0.098	15:03
X[1] = 0.0982 (-0.0002)	(0.0018)	
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.077	15:05
X[1] = 0.0775 (-0.0013)	(0.0030)	
BLANK TEST	0.000	15:06

BRMB



17/19 BRMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/05/2012

Time: 14:45:40

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

RADIO FREQUENCY INTERFERENCE

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.88: 0.079

LOT #: 0751080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

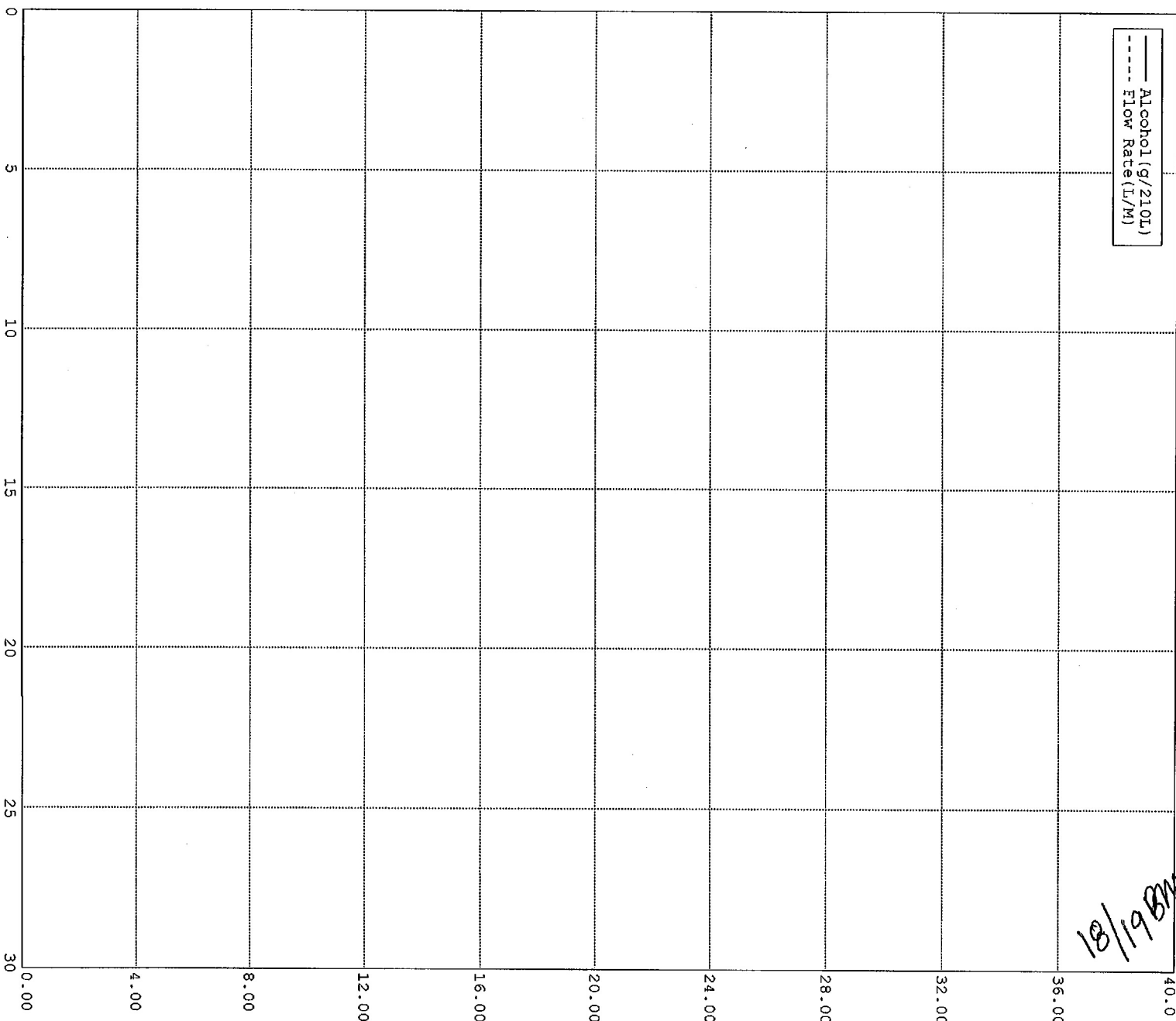
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

RFT DETECTED

TEST TYPE	PASSED	14:47
BLANK TEST	0.000	14:47
INTERNAL STANDARD	0.077	14:47
EXTERNAL STANDARD	0.000	14:48



18/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373Date: 04/05/2012
Time: 16:32:29SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	16:33
BLANK TEST	0.000	16:33
INTERNAL STANDARD	VERIFIED	16:33
EXTERNAL STANDARD	0.077	16:33
BLANK TEST	0.000	16:34
SUBJECT SAMPLE	0.000	16:35
BLANK TEST	0.000	16:36
EXTERNAL STANDARD	0.078	16:36
BLANK TEST	0.000	16:37

