

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 2/2/2015
Effective: 2/2/2015

Version: DMCEF 2015 R0
Status: Active

Instrument S/N 100686 Analyst Brandi Barnett Start Date 5/26/15

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.6 L (1.3L to 1.7L) ☒
5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 02915020A2 Exp 3/5/17
- ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
- iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
- v. 0.200g/210L Mnf Guth Lot 13220 Exp 8/5/15
 1. Simulator S/N SD1200 Date Calibrated 1/20/15
- vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16
 1. Simulator S/N DR16267 Date Calibrated 1/20/15

6. Functional Tests (attached)

- a. Incomplete ☒
- b. Invalid ☒
- c. Interference ☒
- d. Exceeded attempts ☒

i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4162 Date Calibrated 1/19/15

ii. Isopropanol - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4163 Date Calibrated 1/19/15

DR4163 Negative Control - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16

1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. RFI ☒

7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒
10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒
13. Remove tank prior to shut down ☒

End Date 5/27/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 05/26/2015
Time: 10:10:50

VERSIONS
DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 46.4°C	PASSED

PUMP INFO
Flow Rate = 4.073 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

Technician Screen

DATAMASTER dmt: 100686

Date: 05/26/2015
Time: 10:15 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 46.0°C

Current Barometer 29.9 in
Volume (Ltr) 1.51

Settings

Lamp: 1.78 V
Bias: 80 V
Cooler: 1.64 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.061 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 05/01/2015
Time: 11:10:55

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

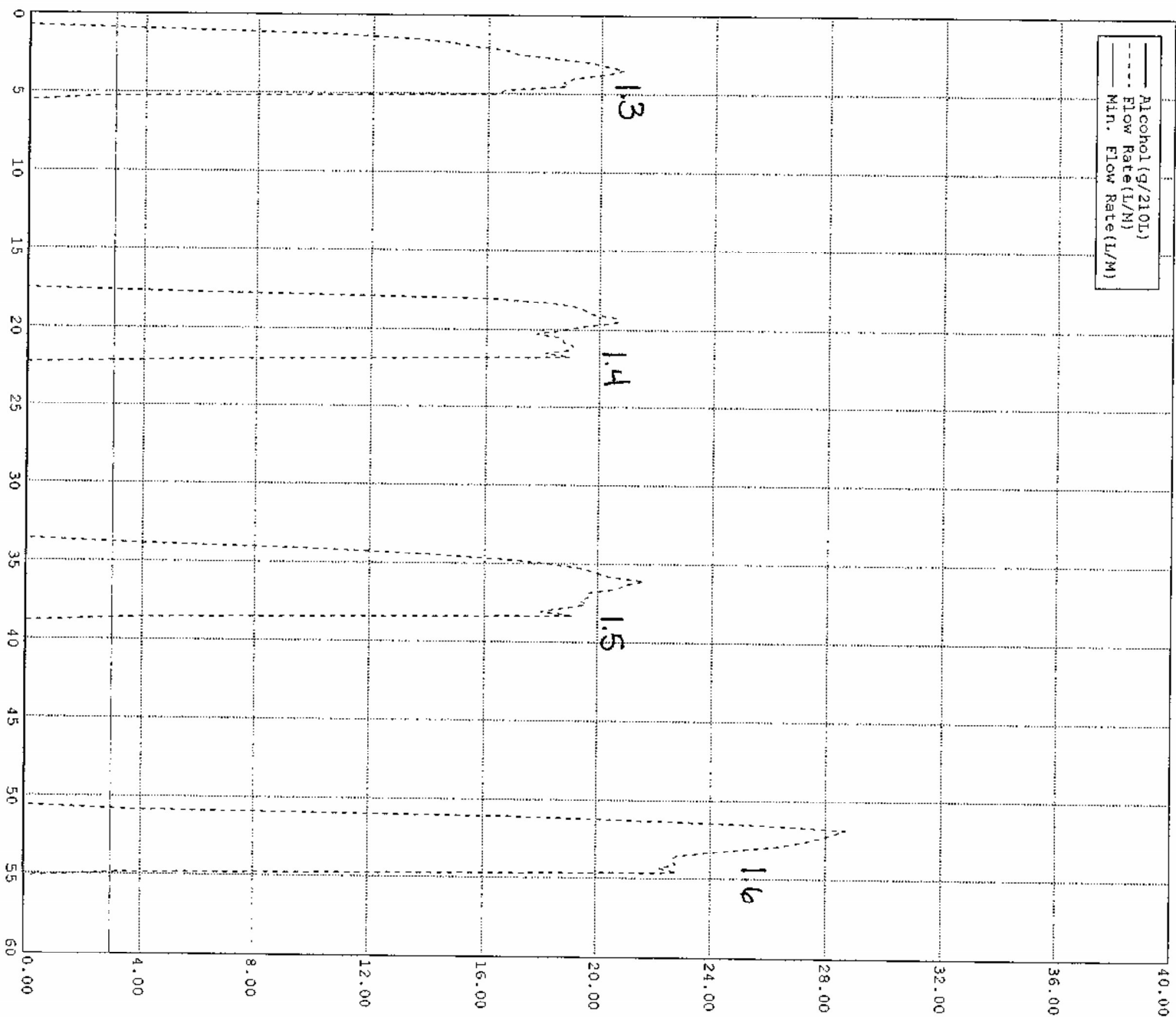
Ca = 0.1000
CAL = 0.969942 0.800 <= CAL < 1.200
b1 = 0.0007 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0008 0.0000 <= b3 < 0.0040
Xq = 0.0951 0.0500 <= Xq < 0.2000
a21 = 1.169260 1.050 <= a21 < 1.300
a31 = 0.401569 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100686Date: 05/26/2015
Time: 15:33:01SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
VOLUME TEST
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:34
BLANK TEST	0.000	15:34
INTERNAL STANDARD	VERIFIED	15:34
EXTERNAL STANDARD	0.079	15:34
BLANK TEST	0.000	15:35
SUBJECT SAMPLE (Vol=1.56L)	0.000	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.078	15:37
BLANK TEST	0.000	15:38

BMB



LINEARITY CHECK

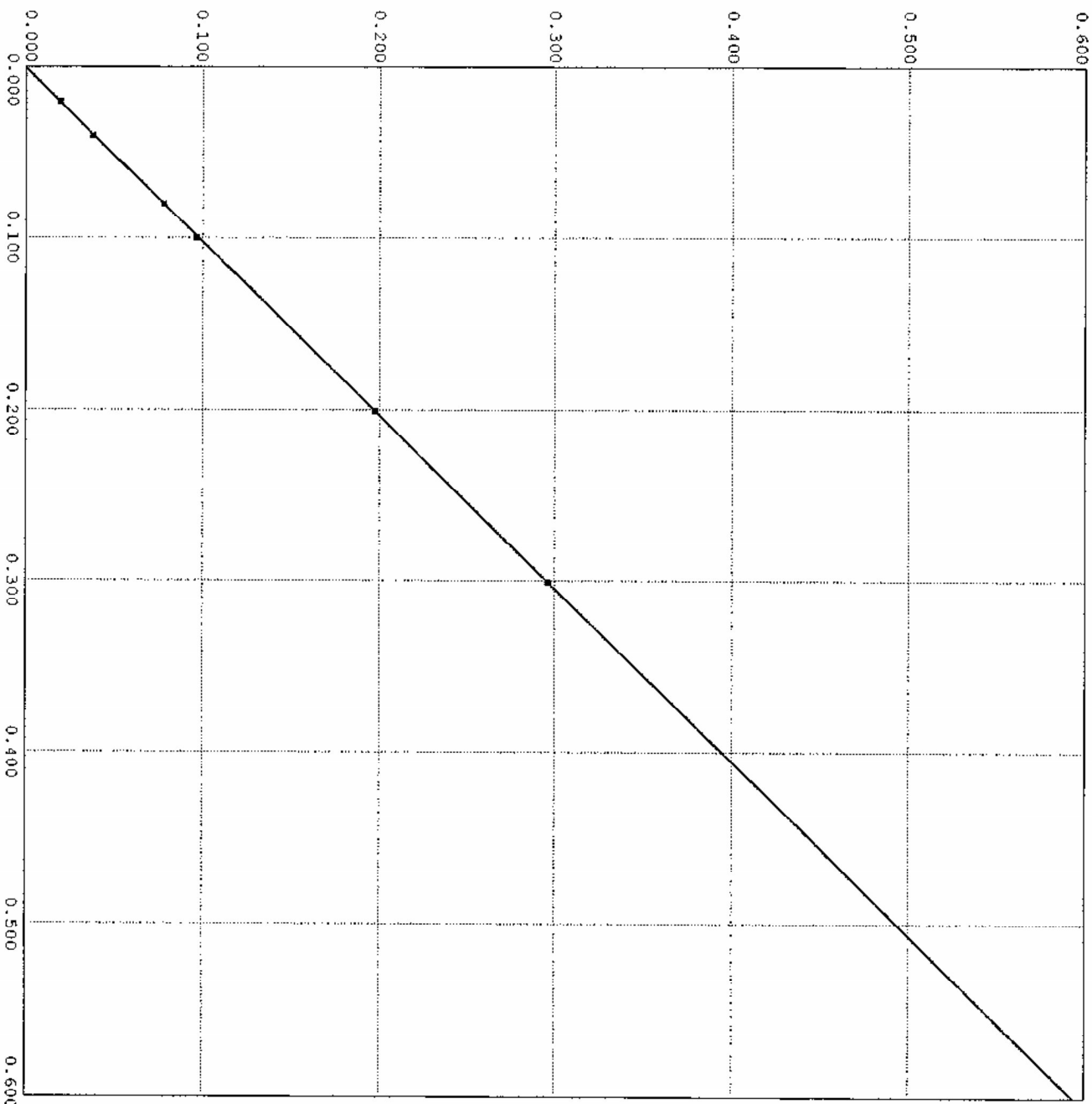
Alaska Department of Public Safety
 DATAMASTER dmt: 100686

Date: 05/27/2015
 Time: 09:49:16

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0390	0.0000
0.080	0.0790	0.0000
0.100	0.0976	0.0005
0.200	0.1982	0.0011
0.300	0.2968	0.0008

SLOPE = 0.990887
 R^2 = 0.999968



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100686

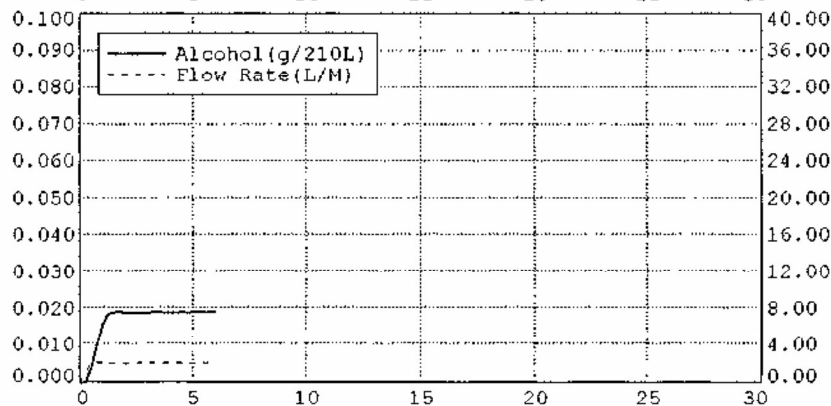
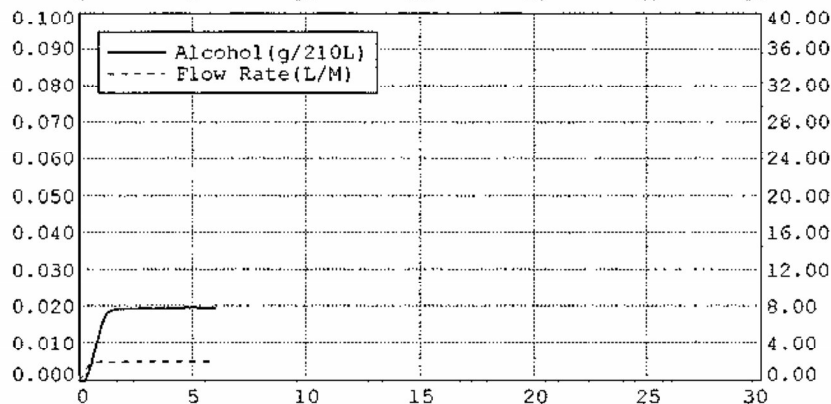
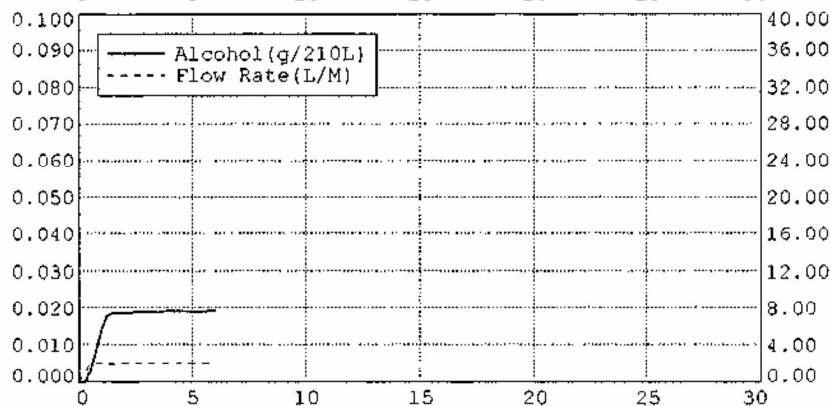
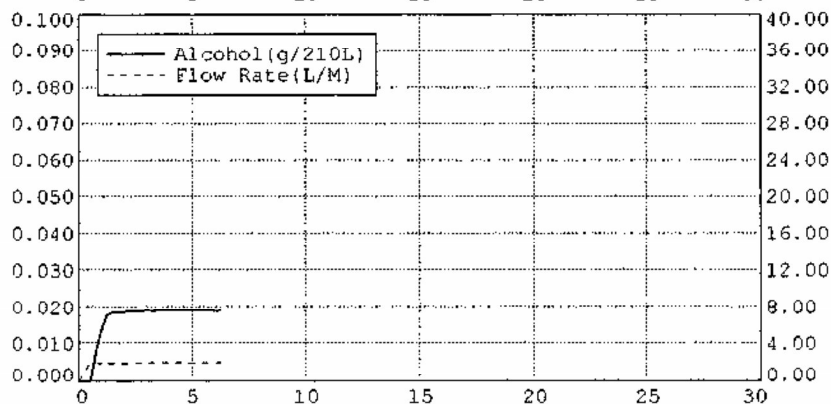
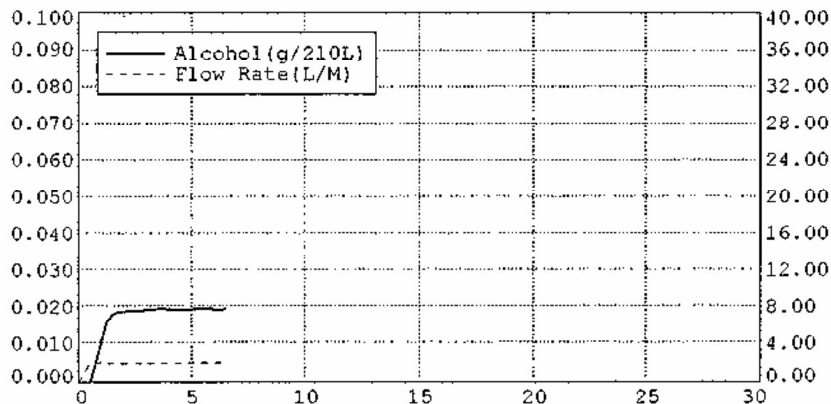
Date: 05/27/2015
Time: 09:49:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.05: 0.020
LOT #: 02915020A2
EXPIRATION: 03/05/2017
TANK PRESSURE: 853 psi

BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.020	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.020	09:52
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.020	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.020	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.020	09:55
BLANK TEST	0.000	09:56

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100686

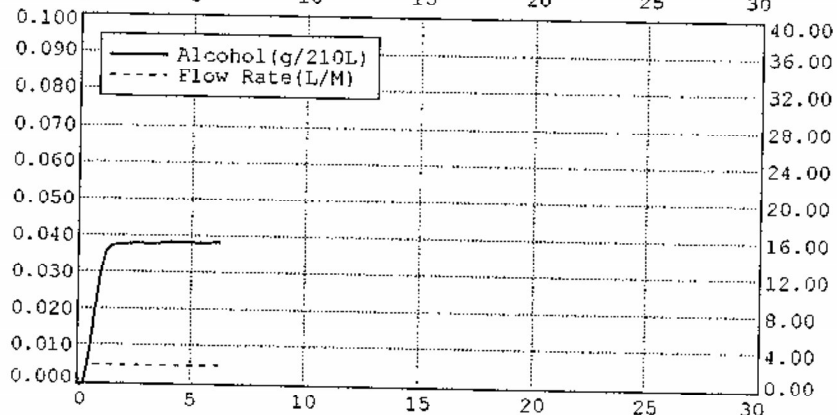
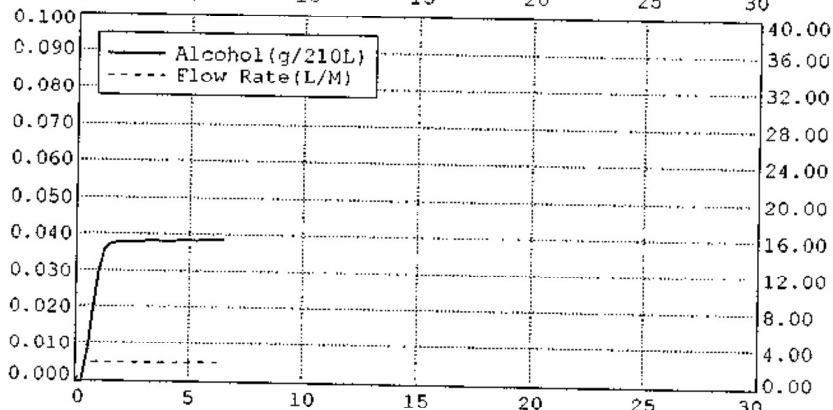
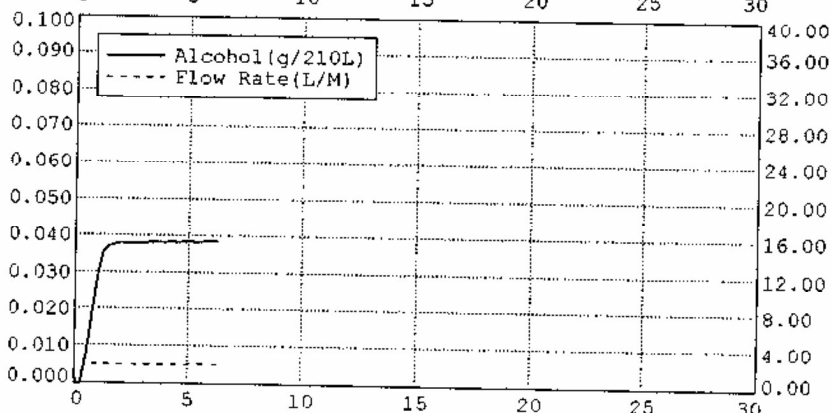
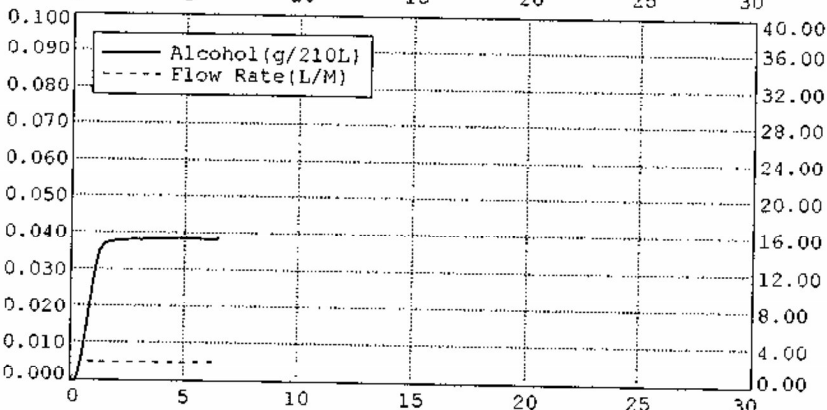
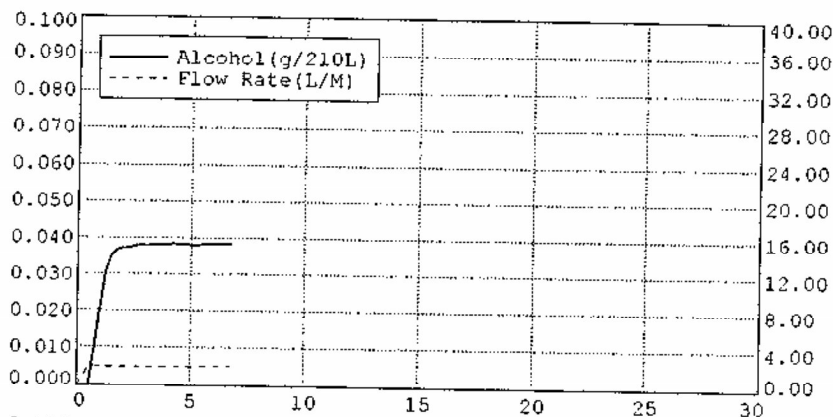
Date: 05/27/2015
Time: 09:59:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.06: 0.040
LOT #: 02915040A3
EXPIRATION: 03/05/2017
TANK PRESSURE: 913 psi

BLANK TEST	0.000	10:01
INTERNAL STANDARD	VERIFIED	10:01
EXTERNAL STANDARD	0.039	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.039	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.039	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.039	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.039	10:05
BLANK TEST	0.000	10:06

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100686

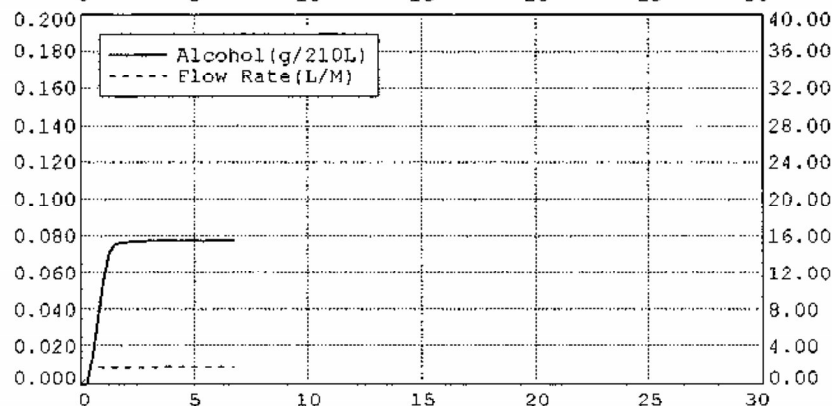
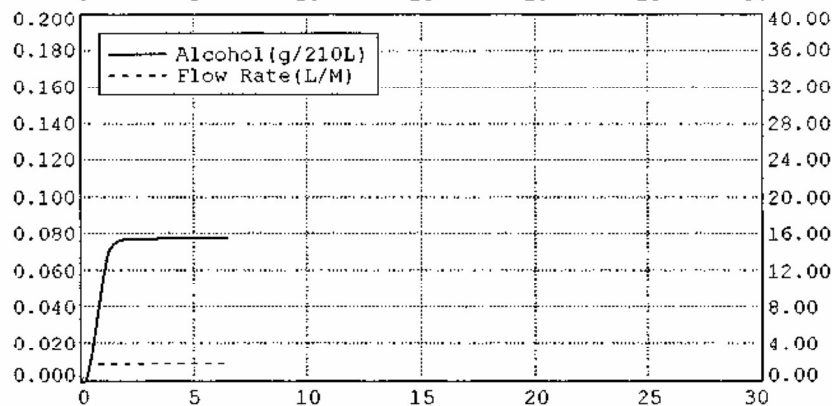
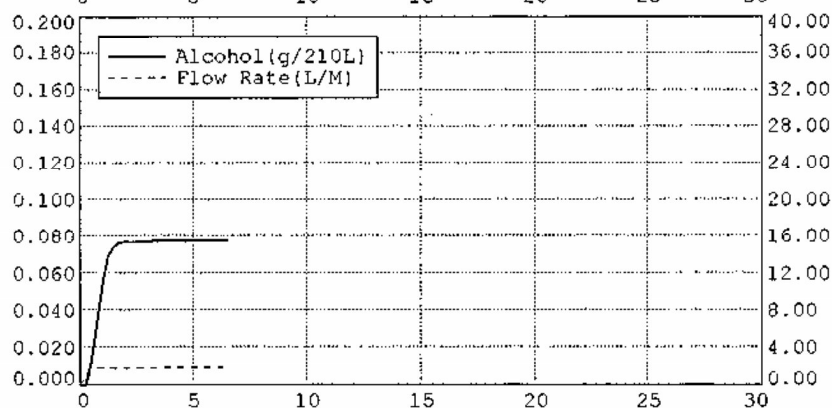
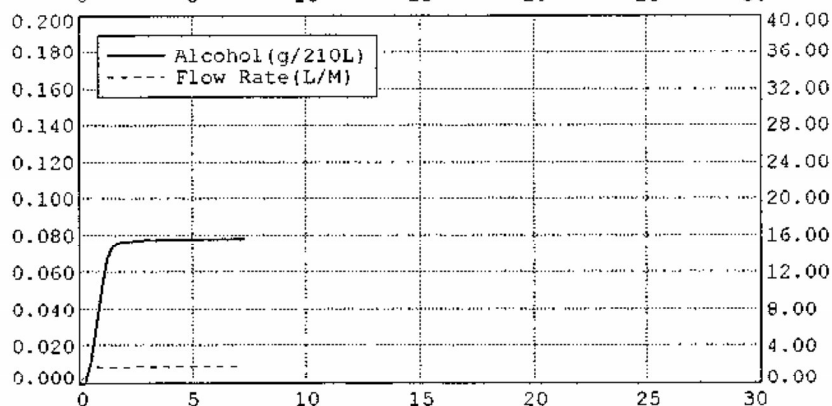
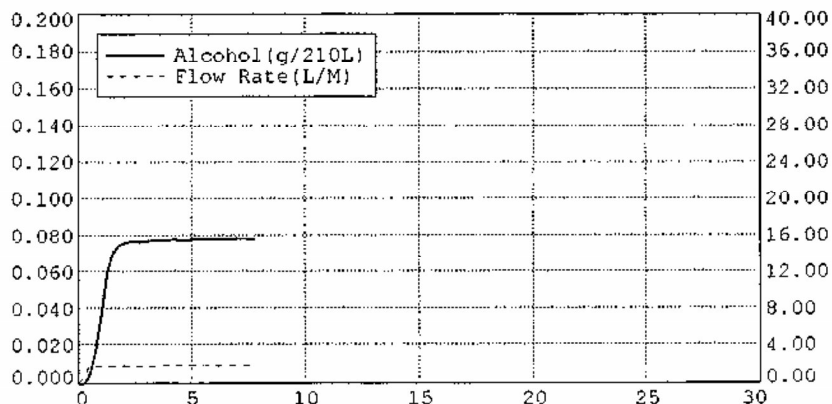
Date: 05/27/2015
Time: 10:15:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015
TANK PRESSURE: 546 psi

BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
EXTERNAL STANDARD	0.079	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.079	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.079	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.079	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.079	10:21
BLANK TEST	0.000	10:22

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100686

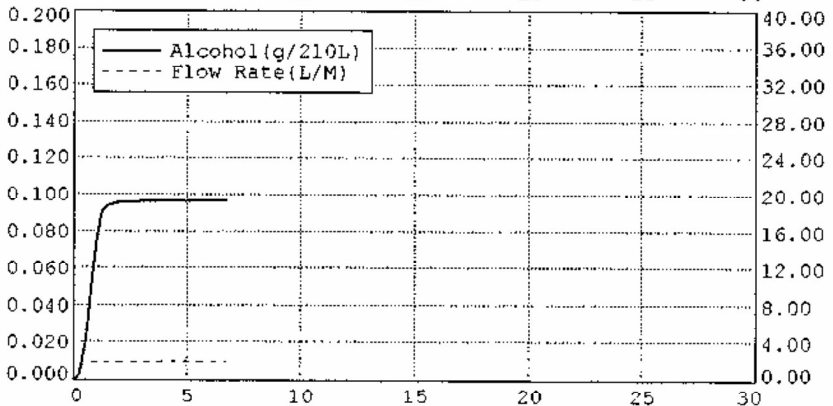
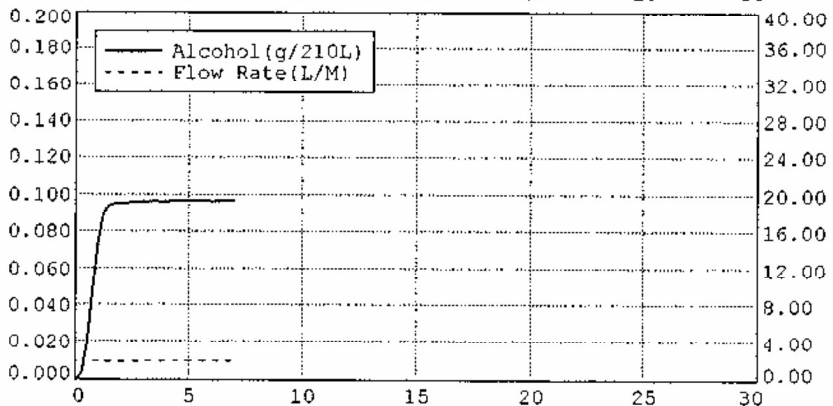
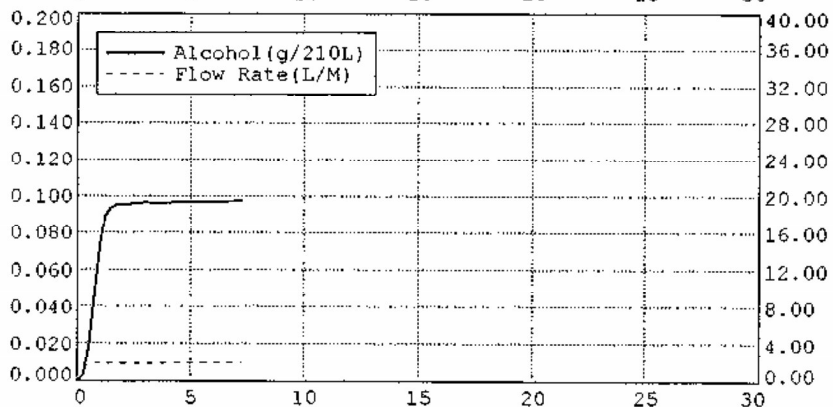
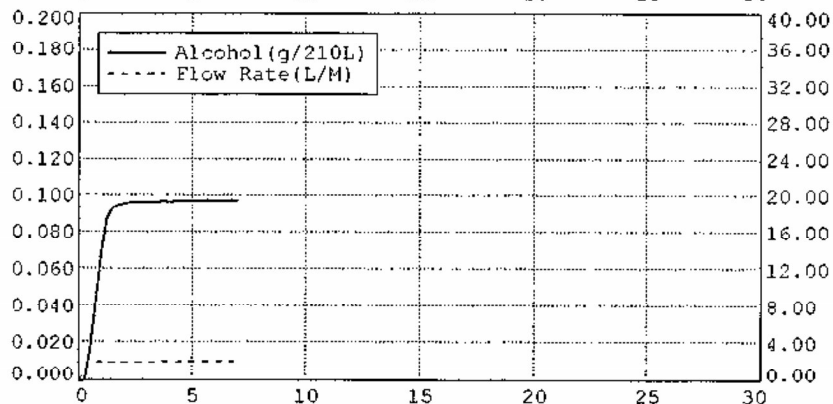
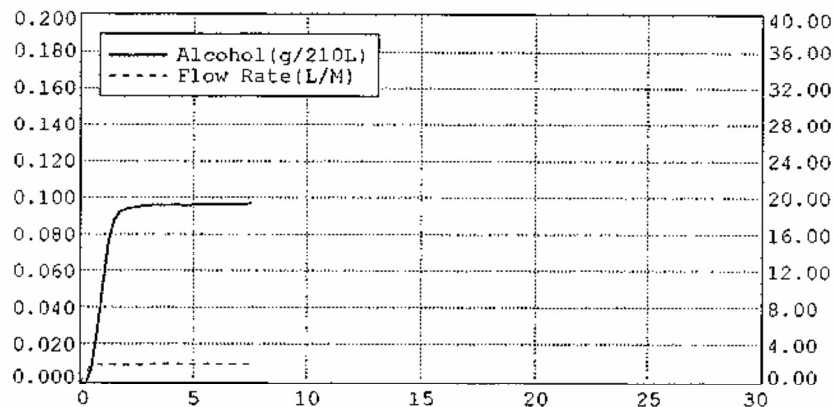
Date: 05/27/2015
Time: 10:30:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.05: 0.100
LOT #: 02915100A1
EXPIRATION: 03/05/2017
TANK PRESSURE: 869 psi

BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.097	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.098	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.098	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.098	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.097	10:43
BLANK TEST	0.000	10:44

Average = 0.0976
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100686

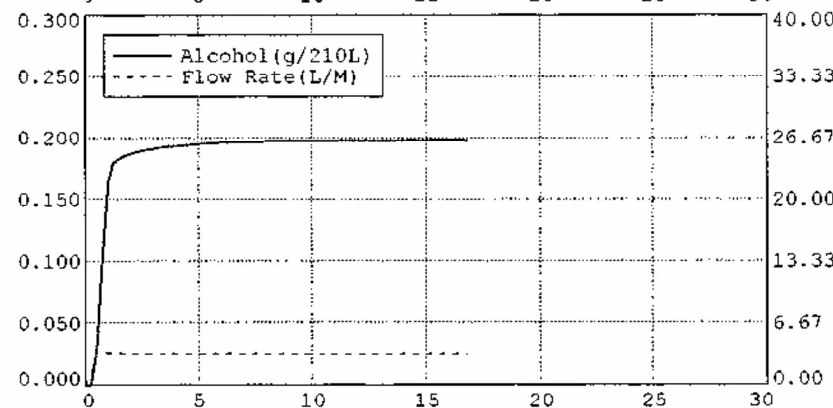
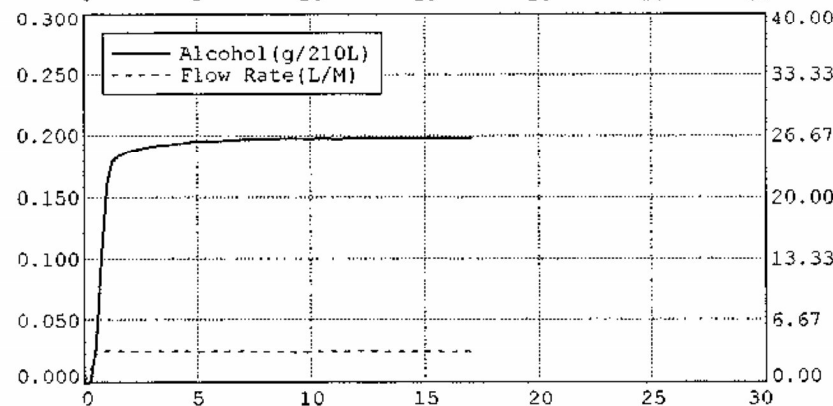
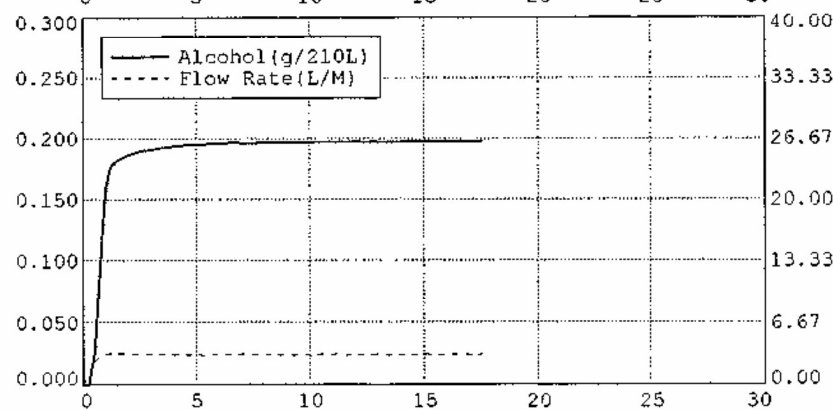
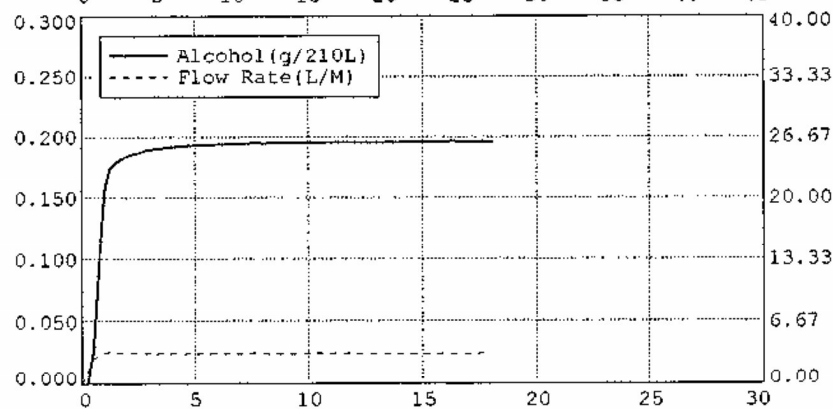
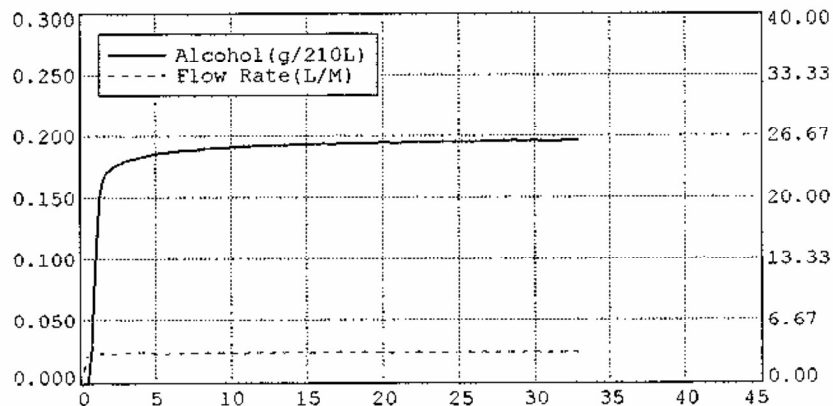
Date: 05/27/2015
Time: 10:54:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: GUTH 13220
EXPIRATION: 08/05/2015

BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
EXTERNAL STANDARD	0.197	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.197	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.199	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.199	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.199	11:01
BLANK TEST	0.000	11:02

Average = 0.1982
Std Dev = 0.0011



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100686

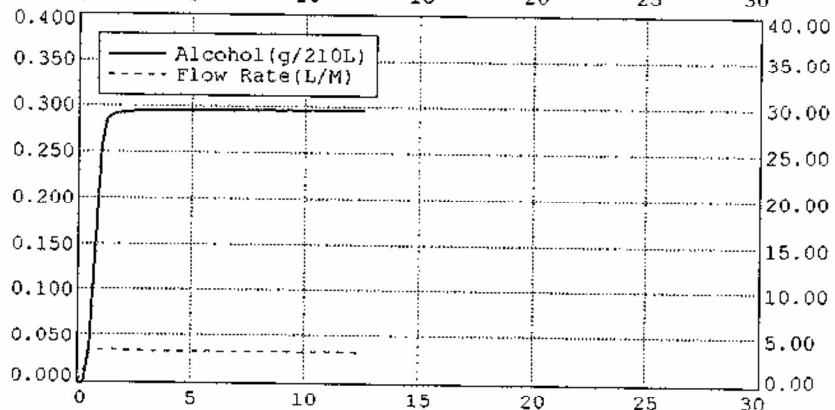
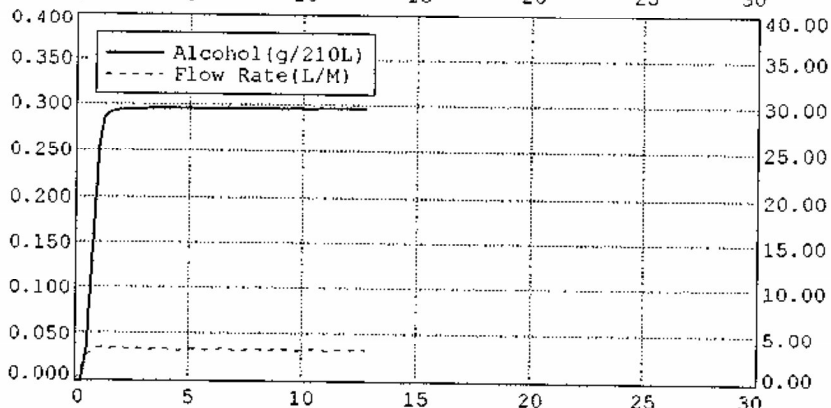
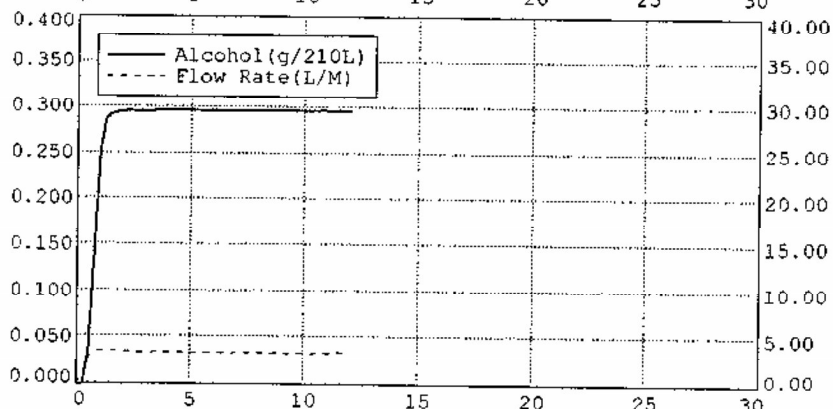
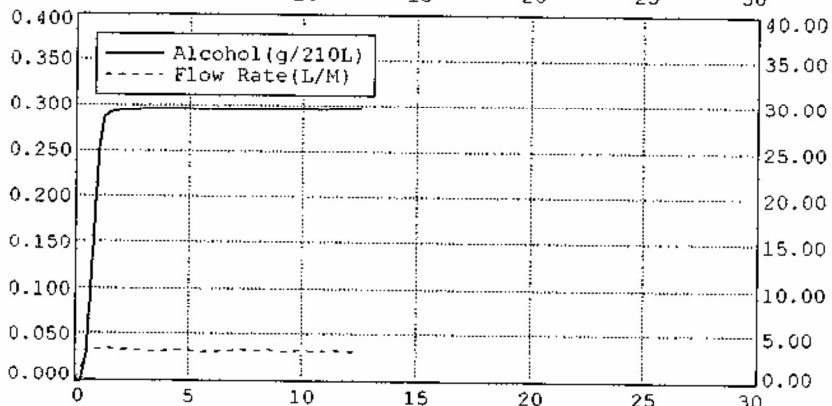
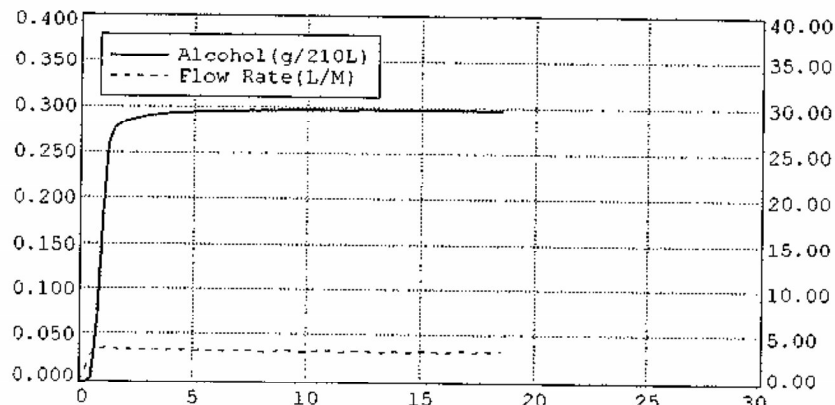
Date: 05/27/2015
Time: 11:07:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: GUTH 14270
EXPIRATION: 12/02/2016

BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.298	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.296	11:11
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.297	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.296	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.297	11:14
BLANK TEST	0.000	11:15

Average = 0.2968
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100686

Date: 05/26/2015
Time: 15:44:00

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

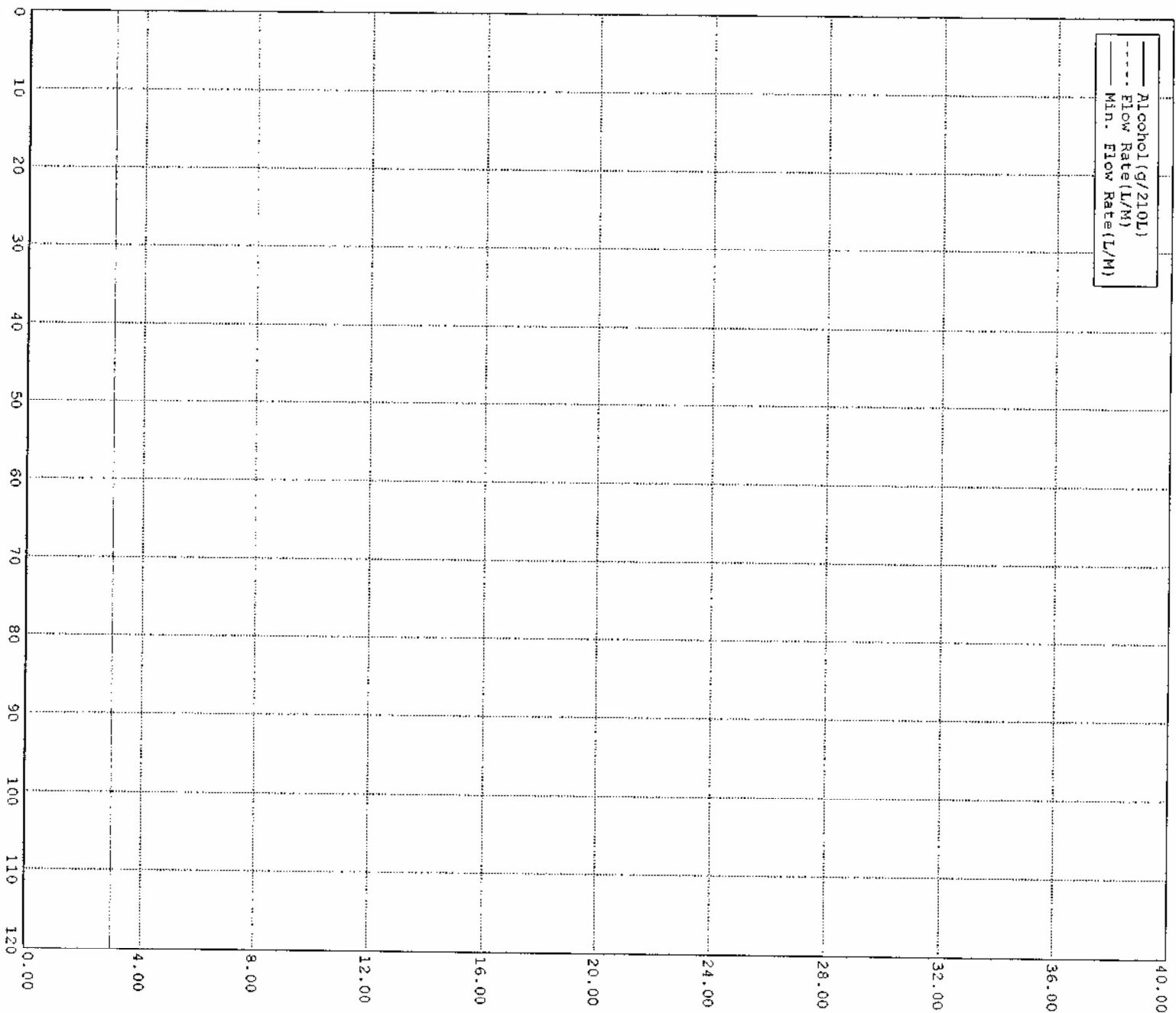
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:46
EXTERNAL STANDARD	0.078	15:46
BLANK TEST	0.000	15:47
SUBJECT SAMPLE	INCOMPLETE	15:49

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100686

Date: 05/26/2015
 Time: 15:52:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

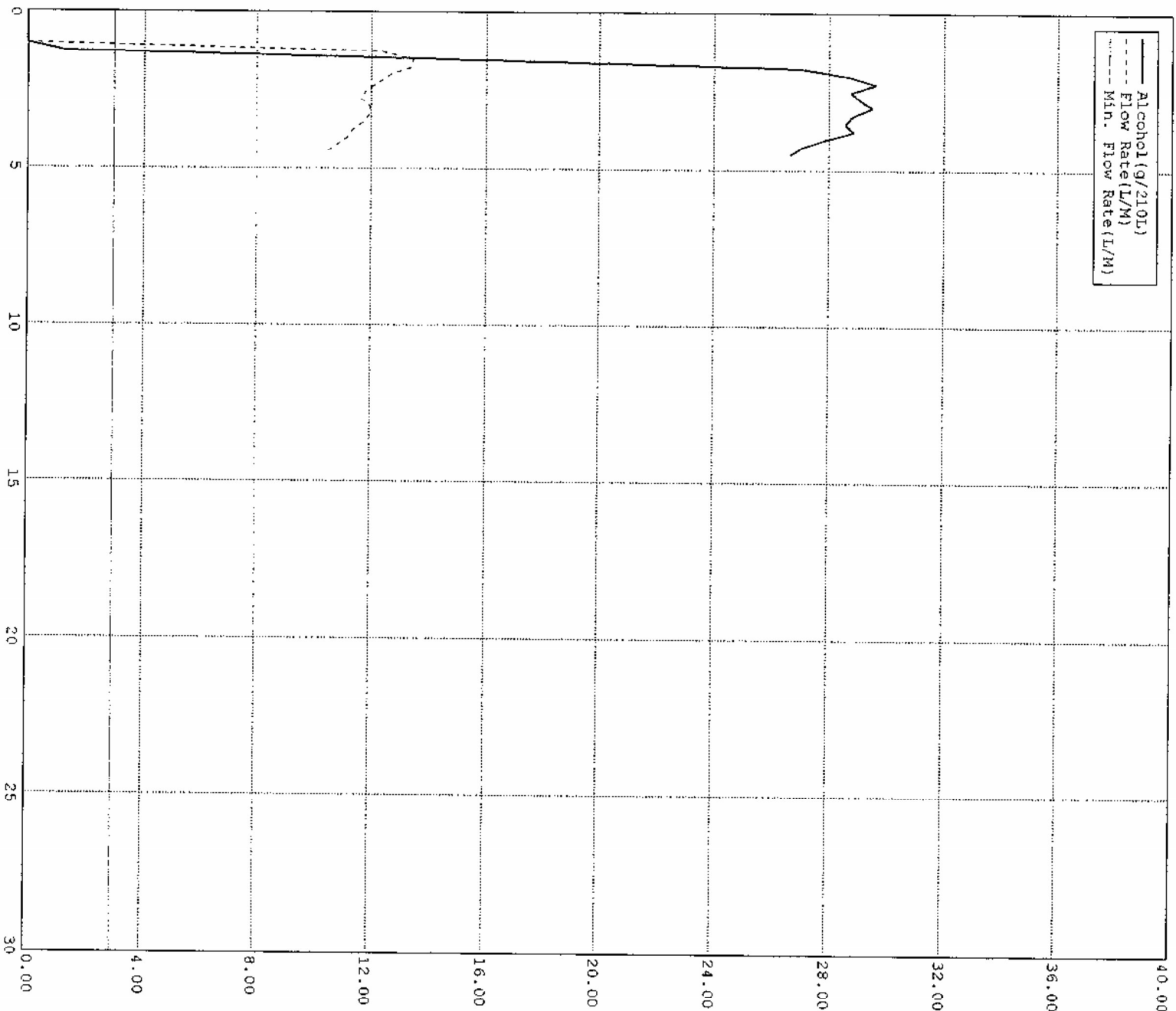
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:54
BLANK TEST	0.000	15:54
INTERNAL STANDARD	VERIFIED	15:54
EXTERNAL STANDARD	0.078	15:55
BLANK TEST	0.000	15:56
SUBJECT SAMPLE	INVALID	15:56

BBMB



SUBJECT TEST

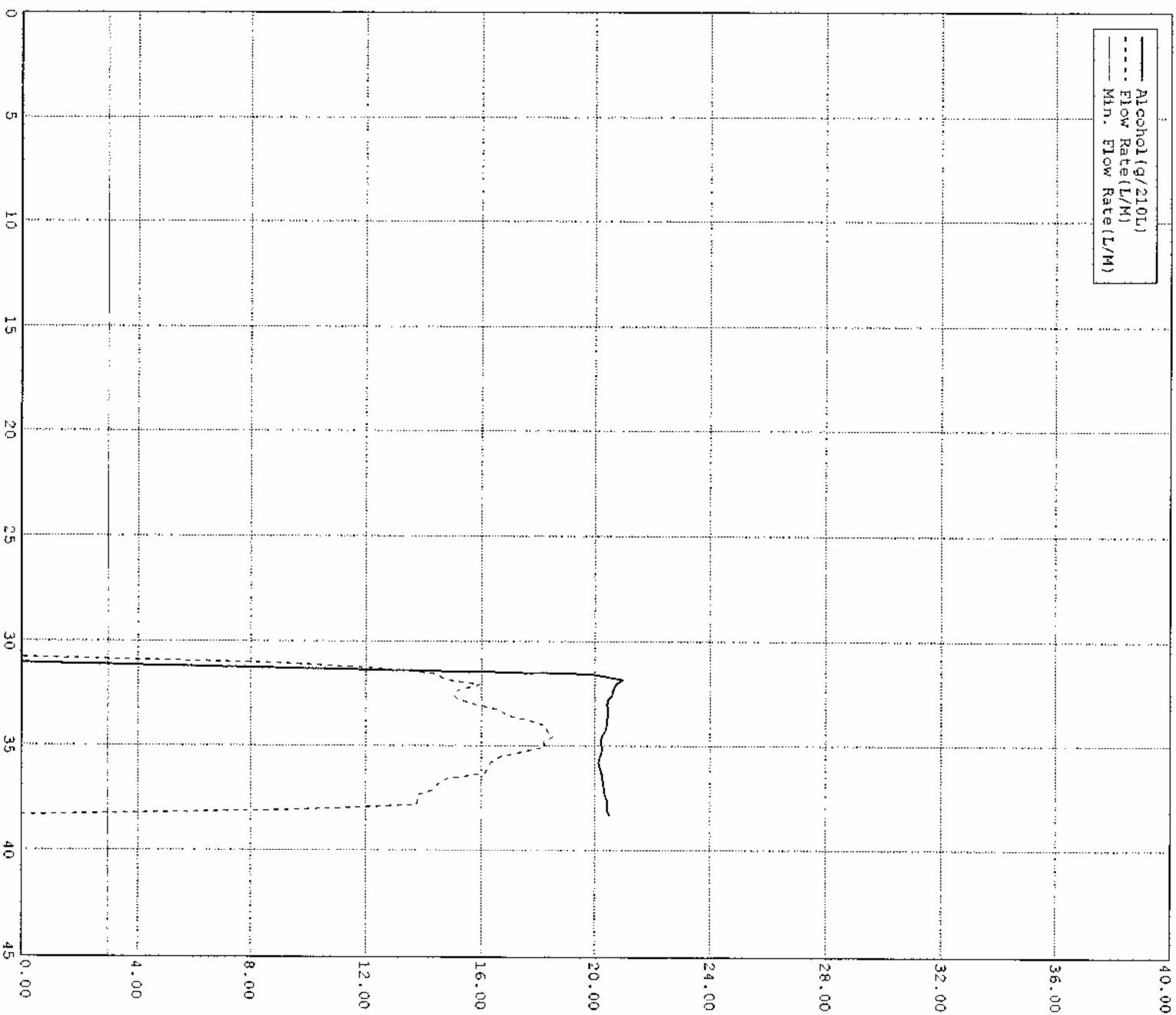
Alaska Department of Public Safety
DATAMASTER dmt: 100686Date: 05/27/2015
Time: 12:12:12SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.03: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:14
BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
Xq = 0.096 (0.74%)		
EXTERNAL STANDARD	0.078	12:14
X[1] = 0.0781 (-0.0020)	(0.0023)	
BLANK TEST	0.000	12:15
SUBJECT SAMPLE	XXX	12:16
X[1] = 0.1031 (-0.0183)	(0.0000)	

Interference Detected

Filter 2 Avg = -0.0013
Filter 3 Avg = 0.0019
BMB 5/28/15

BMB



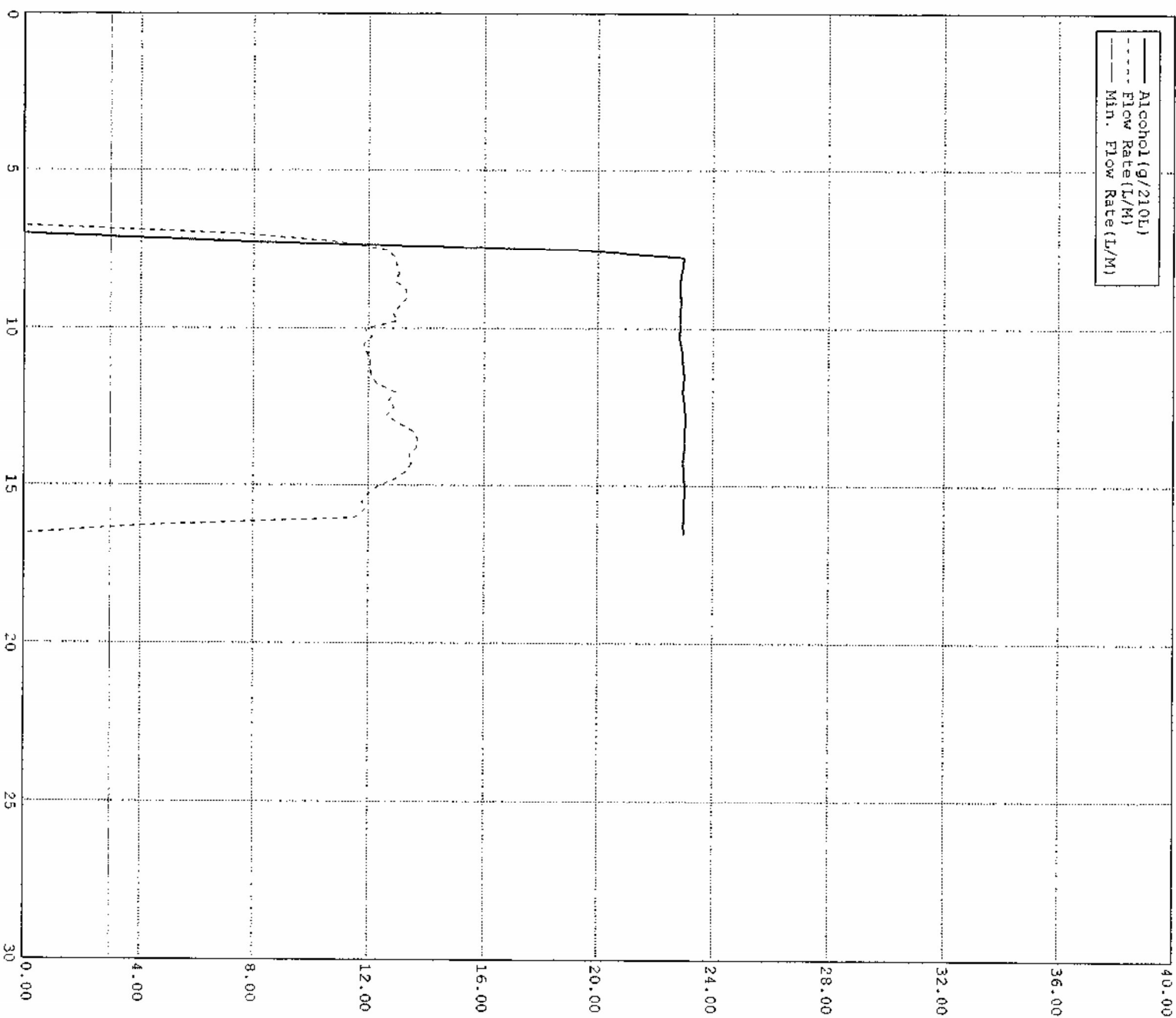
SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100686Date: 05/27/2015
Time: 12:18:11SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:19
BLANK TEST	0.000	12:19
INTERNAL STANDARD	VERIFIED	12:19
Xq = 0.096 (0.83%)		
EXTERNAL STANDARD	0.078	12:19
X[1] = 0.0784 (-0.0015)	(0.0015)	
BLANK TEST	0.000	12:20
SUBJECT SAMPLE	XXX	12:20
X[1] = 0.1156 (-0.0228)	(0.0017)	

Interference Detected

BMB

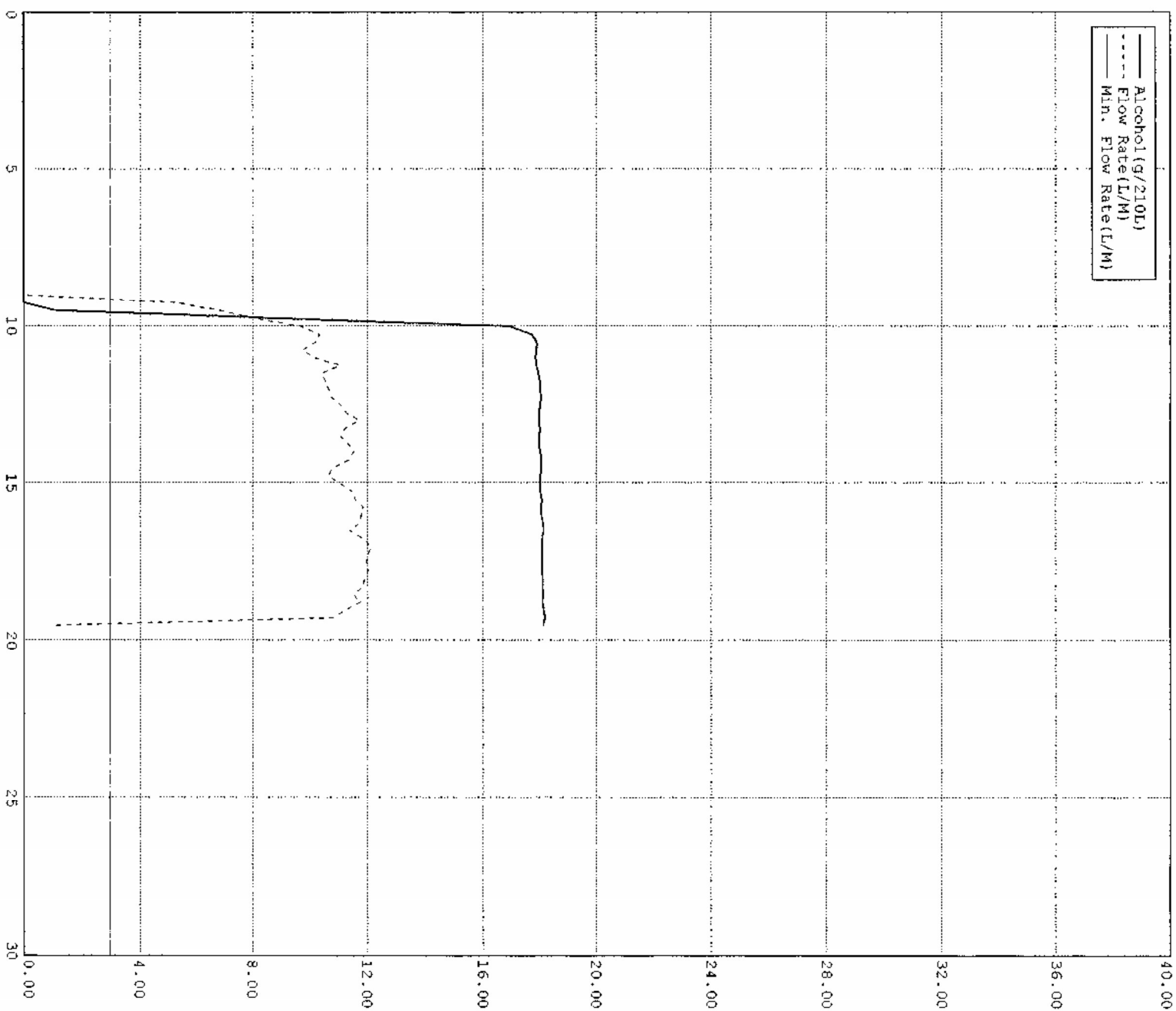


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100686Date: 05/27/2015
Time: 12:24:12SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERE NEGATIVE CONTROL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.03: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:25
BLANK TEST	0.000	12:25
INTERNAL STANDARD	VERIFIED	12:25
Xq = 0.096 (0.74%)		
EXTERNAL STANDARD	0.079	12:25
X[1] = 0.0794 (-0.0009)	(0.0023)	
BLANK TEST	0.000	12:26
SUBJECT SAMPLE (Vol=1.86L)	0.091	12:27
X[1] = 0.0910 (-0.0001)	(0.0006)	
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.079	12:28
X[1] = 0.0788 (-0.0008)	(0.0016)	
BLANK TEST	0.000	12:29

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100686

Date: 05/26/2015
 Time: 16:04:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

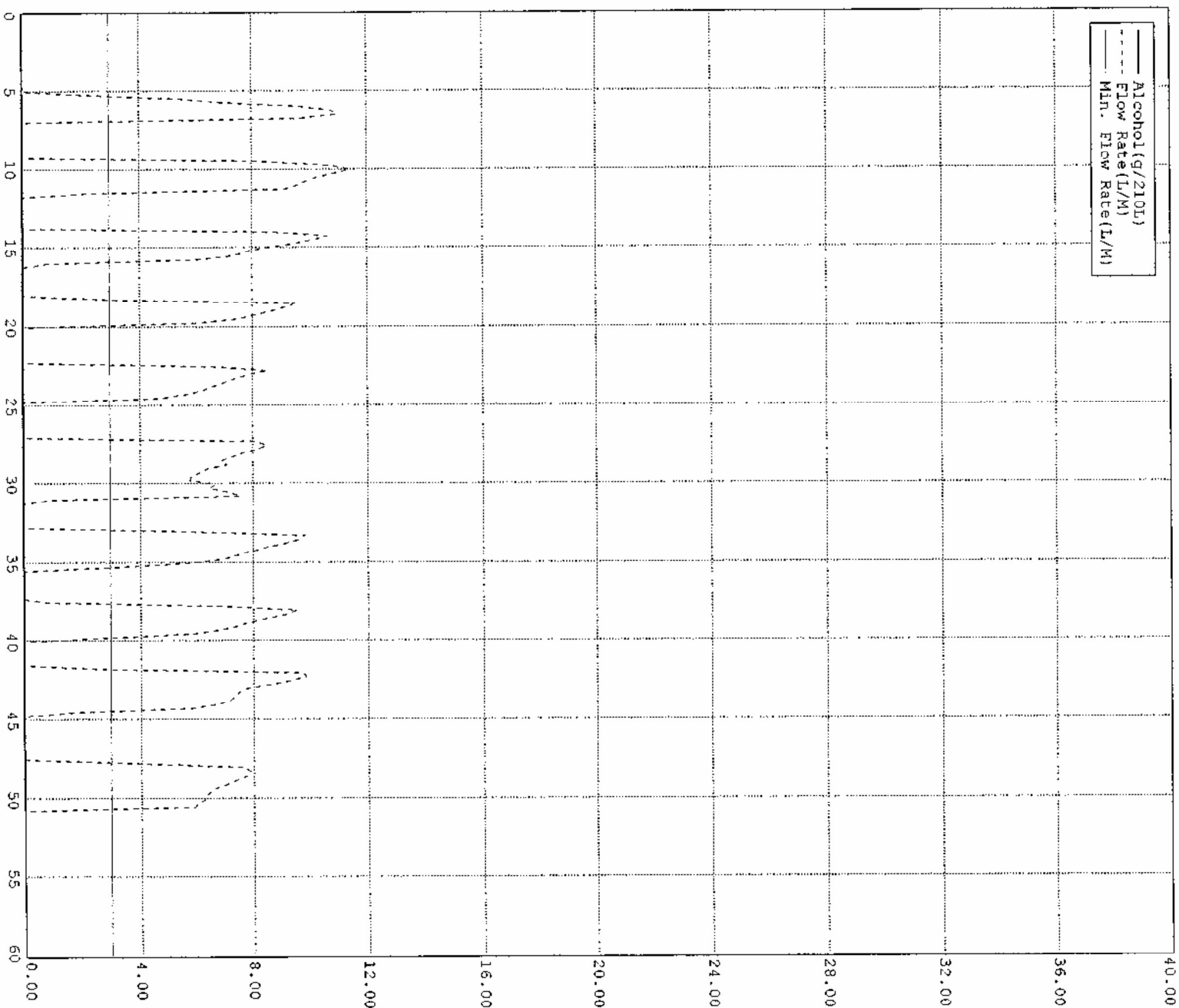
DEPT/AGENCY:
 MAXIMUM ATTEMPTS
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	16:07
BLANK TEST	0.000	16:07
INTERNAL STANDARD	VERIFIED	16:07
EXTERNAL STANDARD	0.078	16:08
BLANK TEST	0.000	16:08
SUBJECT SAMPLE	XXX	16:09

Maximum Attempts Exceeded

Handwritten signature/initials



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100686

Date: 05/26/2015
 Time: 15:59:54

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

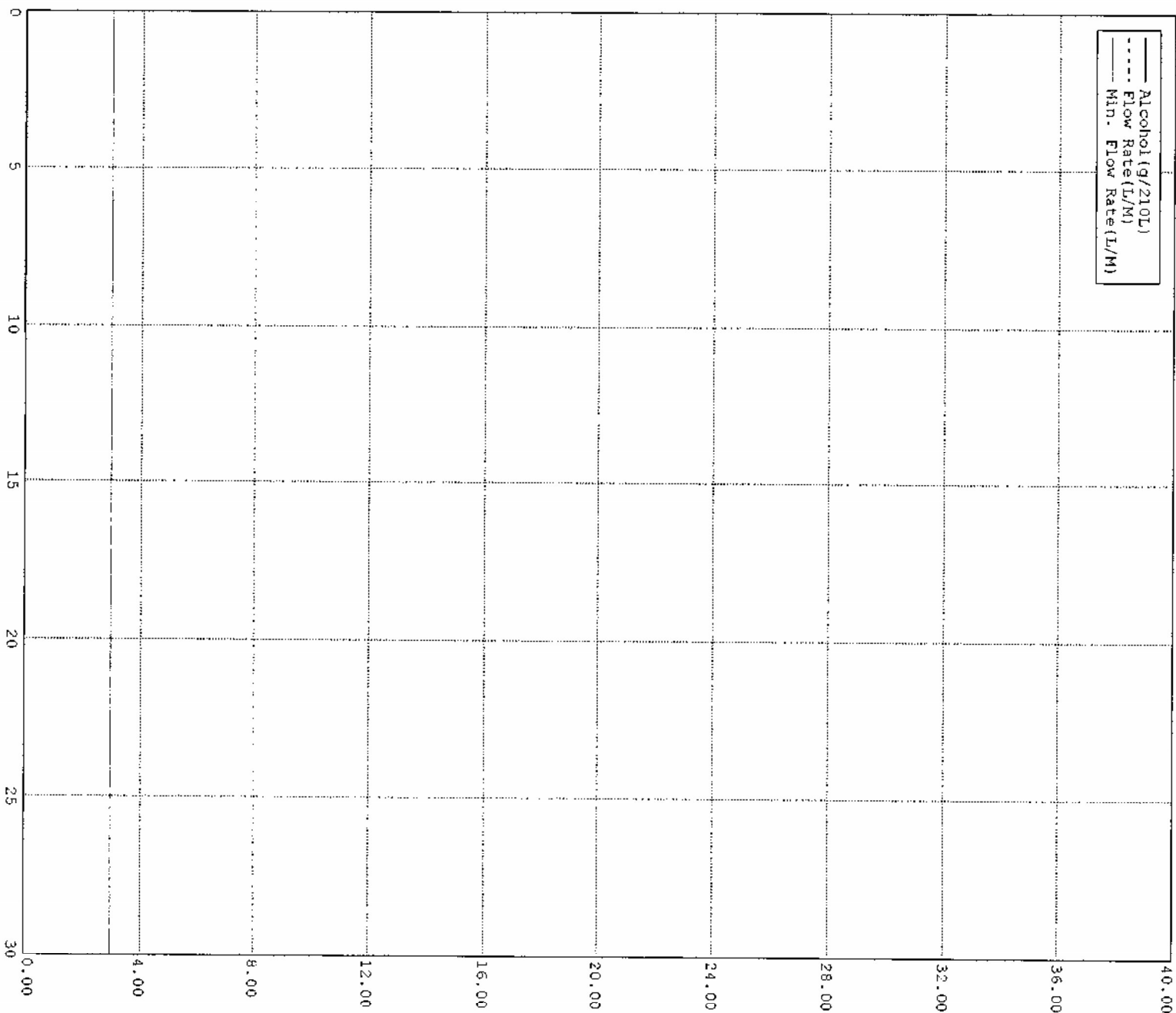
DEPT/AGENCY:
 RFI
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	16:00
BLANK TEST	0.000	16:01
INTERNAL STANDARD	VERIFIED	16:01
EXTERNAL STANDARD	0.078	16:01
BLANK TEST	0.000	16:02

RFI DETECTED

BNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100686Date: 05/27/2015
Time: 12:45:51SUBJECT 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 30.02: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:46
BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:47
EXTERNAL STANDARD	0.079	12:47
BLANK TEST	0.000	12:48
SUBJECT SAMPLE (Vol=1.76L)	0.000	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.079	12:49
BLANK TEST	0.000	12:50

BMB

