	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
	Approval date: 03/10/11	Effective date: 03/10/11	Archive date: Active

DataMaster DMT Certification FormInstrument # 100367

1. Diagnostic Test (attached)

Analyst C. O' Bryant

2. Voltage Checks

Date 8/24/11

- a. Adjust voltages, if needed
- i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
- b. Set RFI
- c. Adjust barometer reading, if needed
- d. Adjust volume setting, if needed
- e. Print Technician Screen (attached)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1600 mL

5. Dry Gas Linearity Test (attached)

- a. Levels Used
- i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 2/1/13
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A1 Exp 2/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13

6. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
- i. Acetone - Mnf GUTH Lot 9340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 10/18/10 SN DR0267
 - ii. Isopropanol - Mnf GUTH Lot 9340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 8/4/10 SN DD1202
- d. RFI

7. Calibrate Stylus 8. Verify card reader is functional 9. Upload 10. Reset Options

11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 03/24/2011
Time: 10:23:17

VERSIONS
DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 44.9°C	PASSED

PUMP INFO	
Flow Rate = 4.370 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
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Technician Screen

DATAMASTER dmt: 100367

Date: 03/24/2011
Time: 10:43 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 45.1°C

Current Barometer 29.5 in
Volume (Ltr) 1.43

Settings

Lamp: 2.09 V
Bias: 80 V
Cooler: 1.76 V
Chopper: 542 Hz

Voltages (V)

Flow: 1.03 V
Detector: 0.215 V

CALIBRATION FACTORS

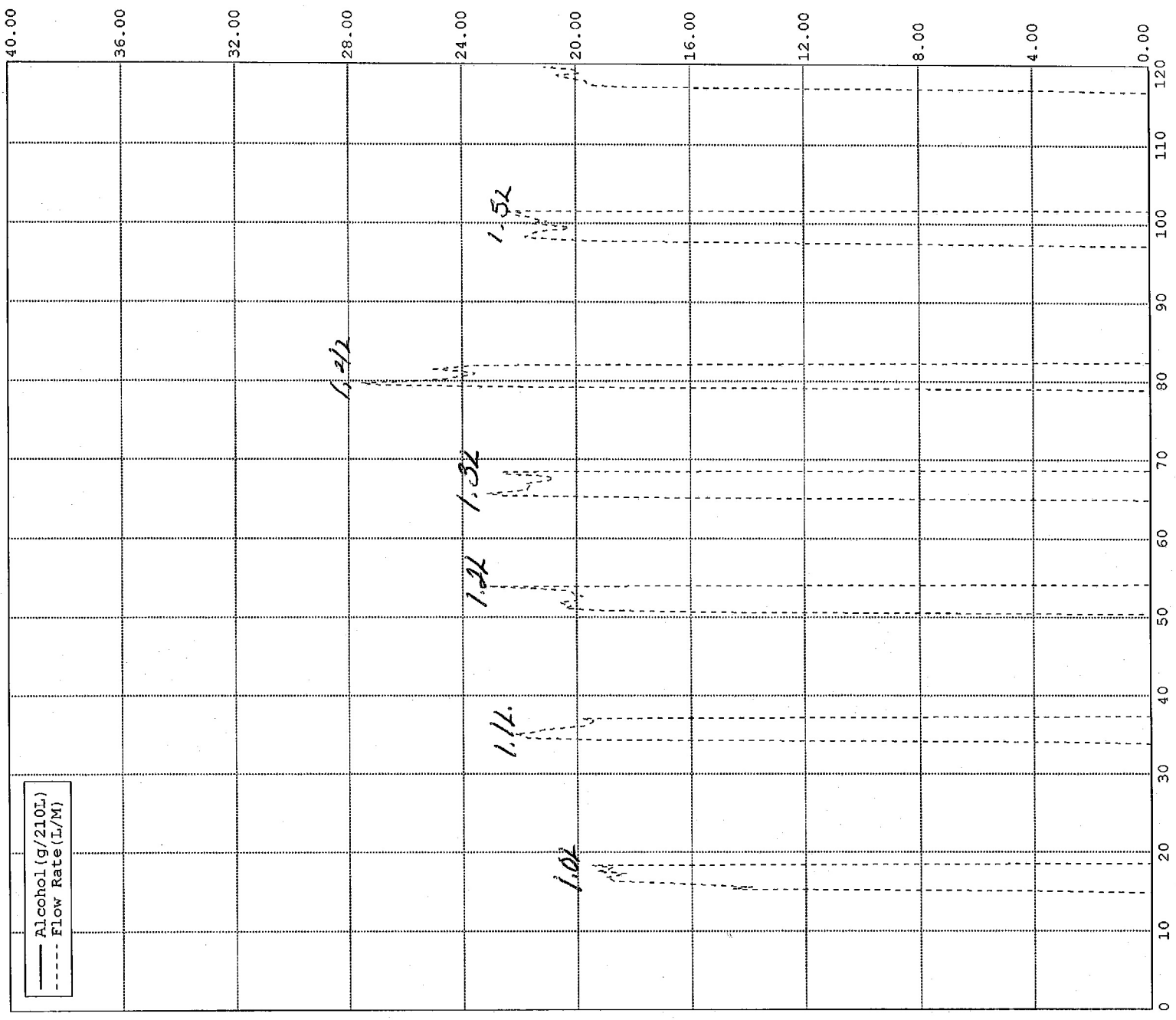
Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 03/22/2011
Time: 13:47:24

SUPERVISOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

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

Ca = 0.1000
CAL = 0.981284 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0056 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1004 0.0500 <= Xq < 0.2000
a21 = 1.173058 1.050 <= a21 < 1.300
a31 = 0.404921 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 10:44:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

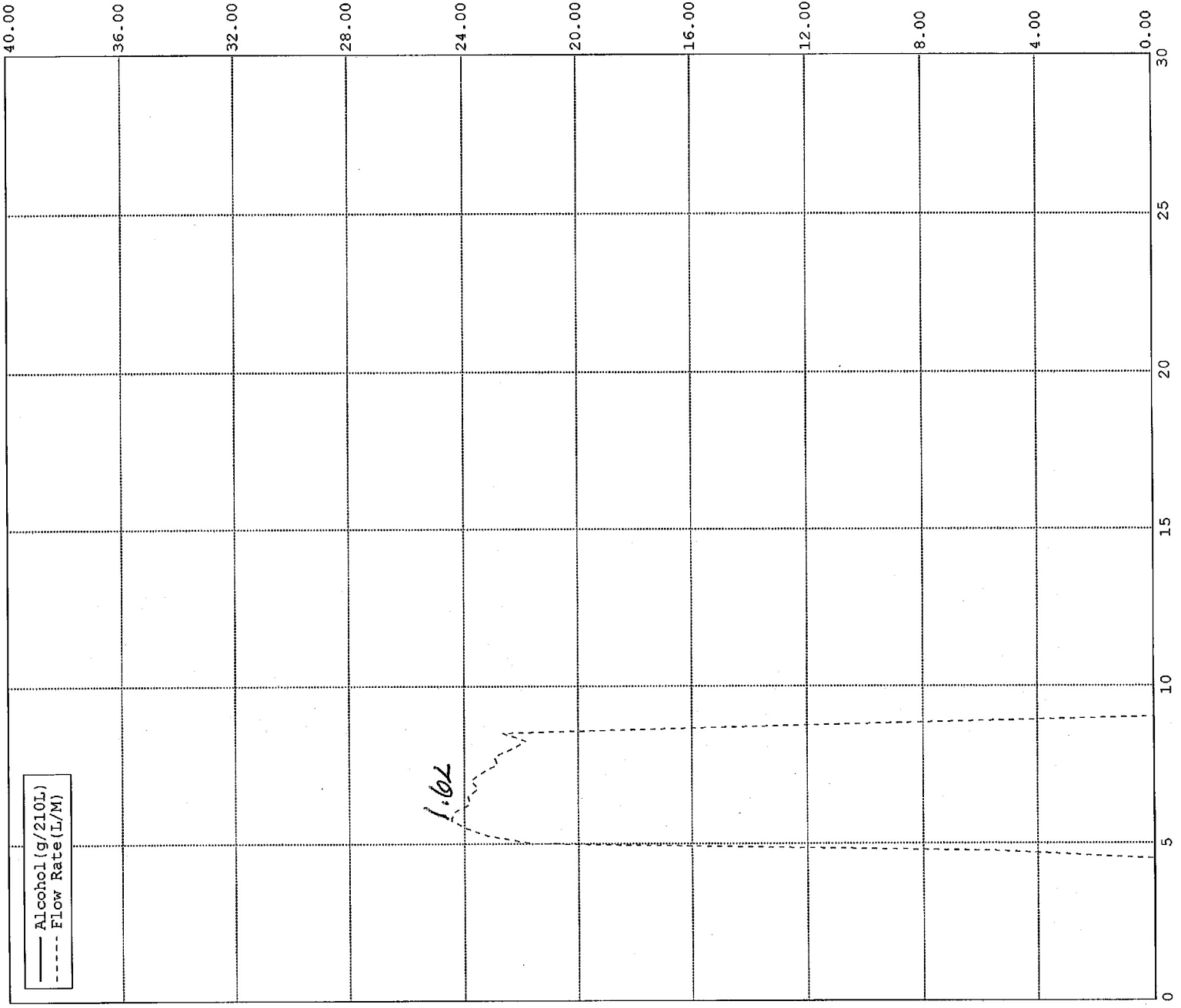
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 10:45
 BLANK TEST 0.000 10:45
 INTERNAL STANDARD VERIFIED 10:45
 EXTERNAL STANDARD 0.081 10:46
 BLANK TEST 0.000 10:47
 SUBJECT SAMPLE INCOMPLETE 10:49

CB

CB5/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 10:53:18

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:54
BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.079	10:54
BLANK TEST	0.000	10:55
SUBJECT SAMPLE	0.000	10:56
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.078	10:57
BLANK TEST	0.000	10:58

CS

03/19

LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100367

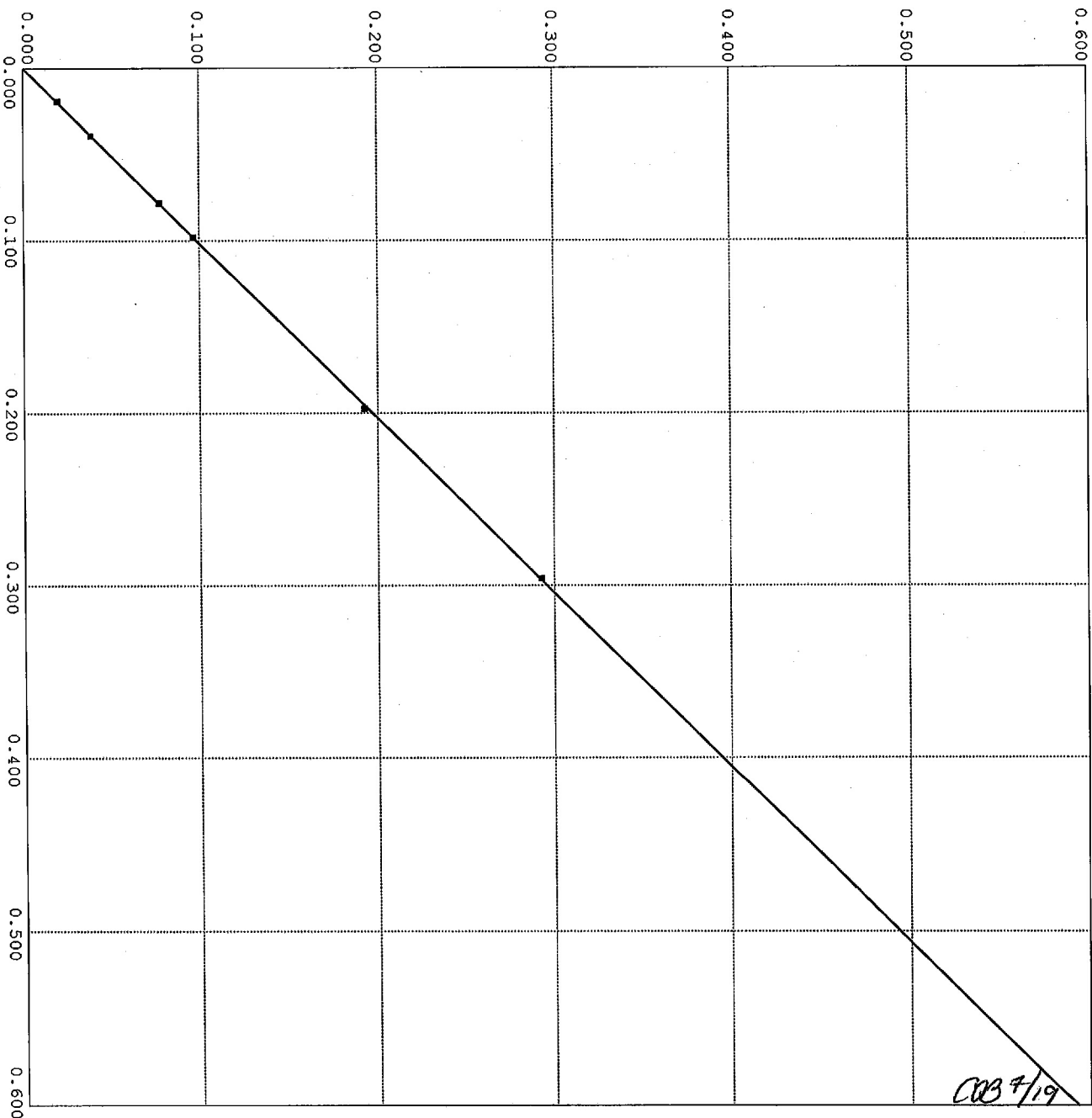
Date: 03/24/2011
 Time: 11:00:16

SUPERVISOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.019	0.0198	0.0004
0.039	0.0390	0.0000
0.078	0.0782	0.0004
0.098	0.0976	0.0005
0.197	0.1934	0.0009
0.295	0.2934	0.0009

SLOPE = 0.988607
 R² = 0.999948

CB



CB 3/19

LINEARITY CHECK: Control Test 1

 Alaska Department of Public Safety
 DATAMASTER dmt: 100367

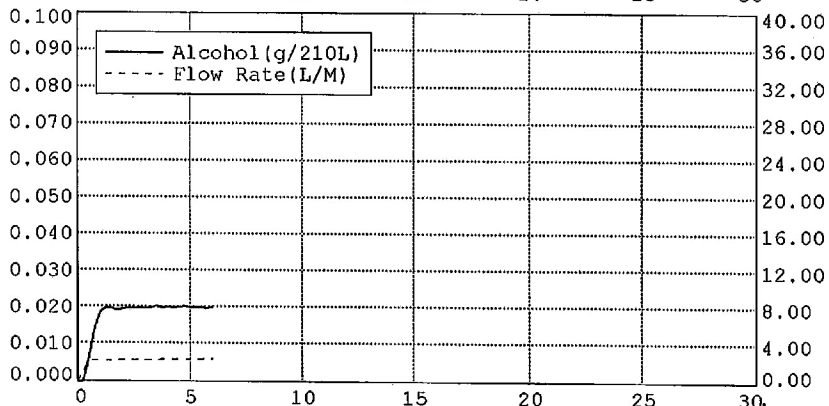
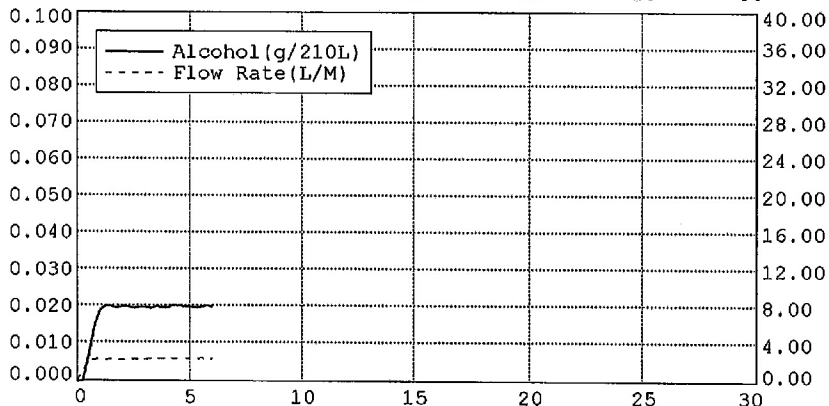
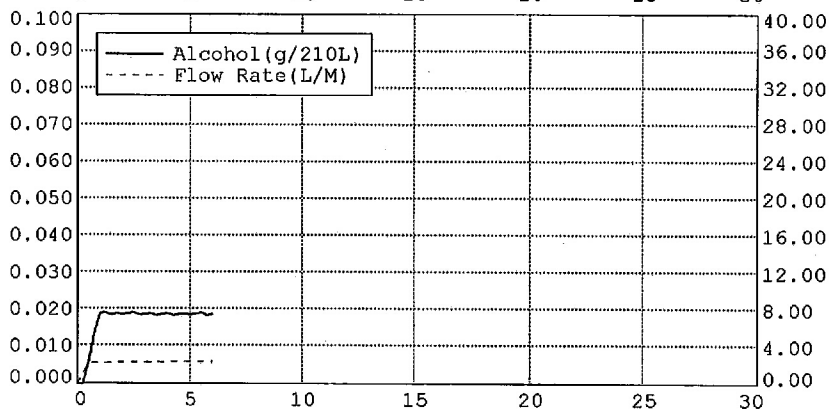
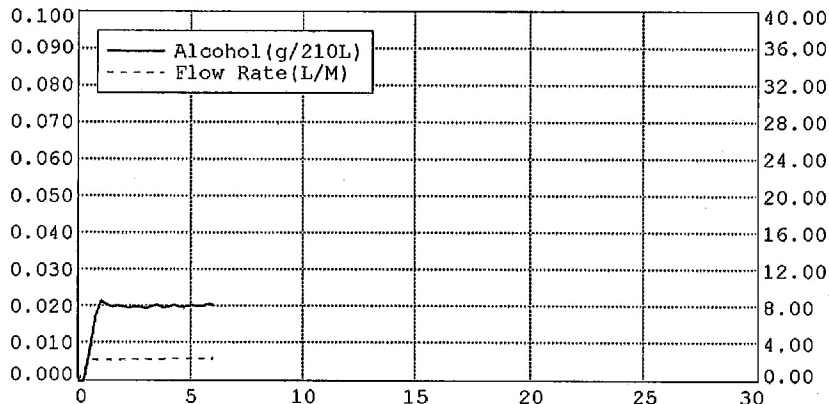
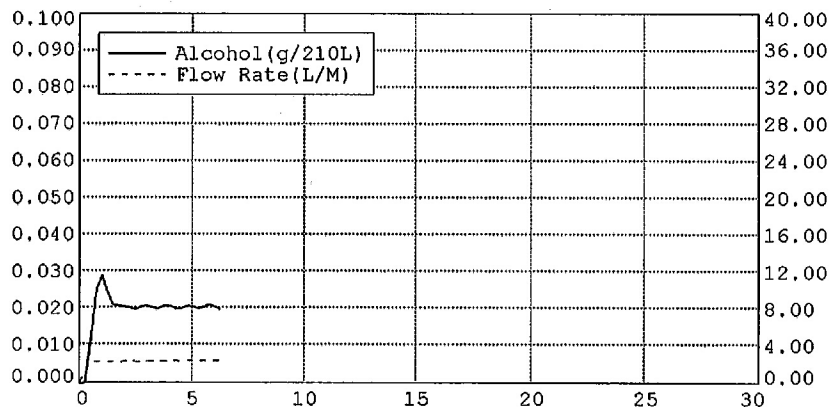
Date: 03/24/2011
 Time: 11:00:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.49: 0.019
 LOT #: 02811020A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.020	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.020	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.019	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.020	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.020	11:06
BLANK TEST	0.000	11:07

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

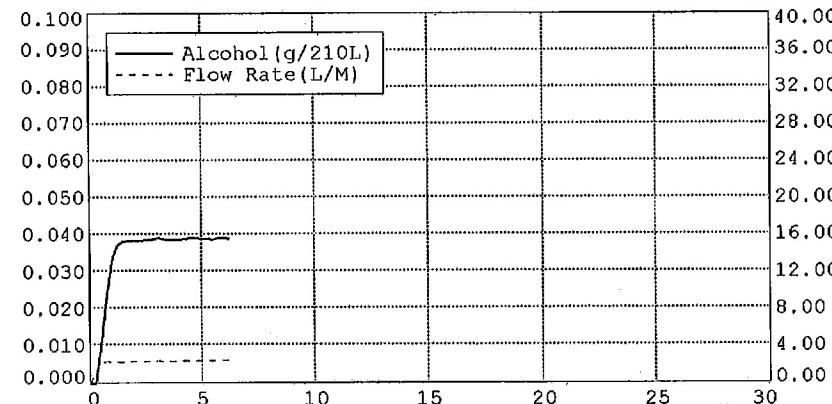
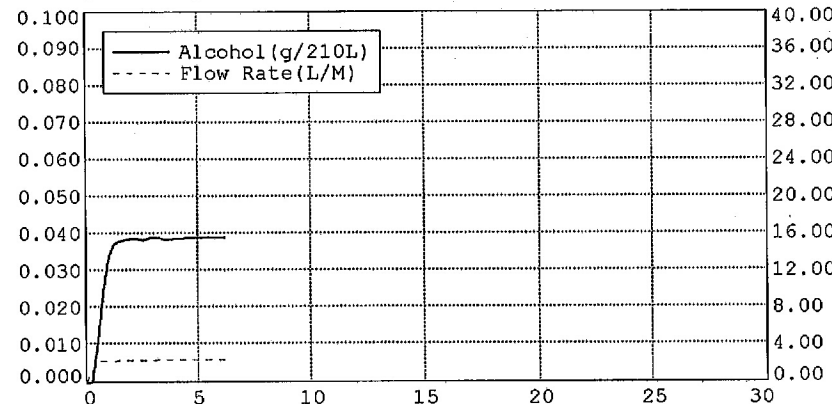
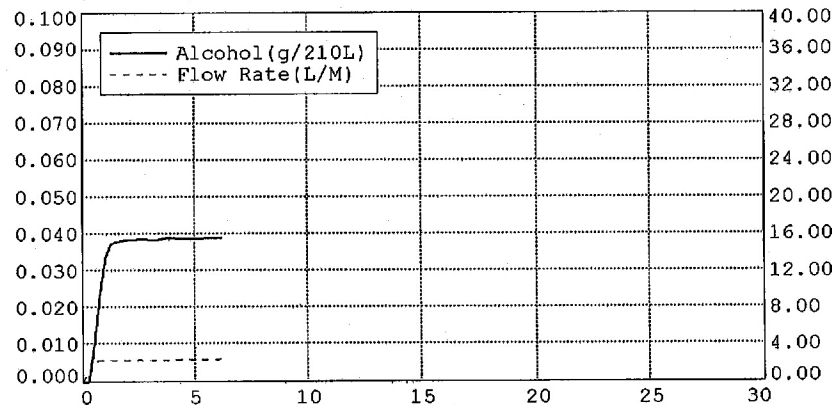
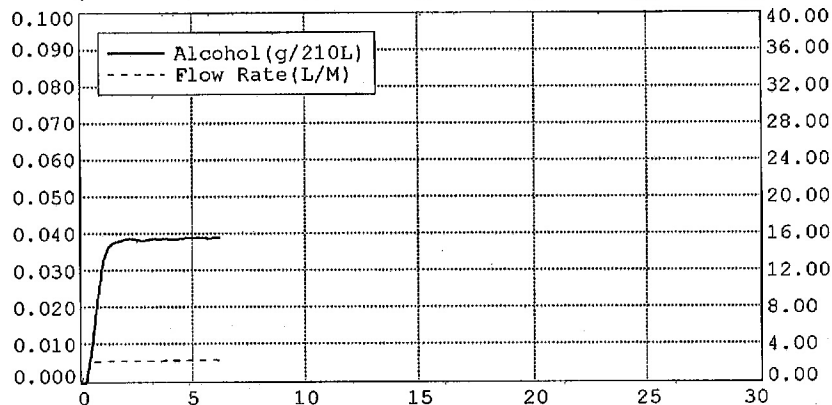
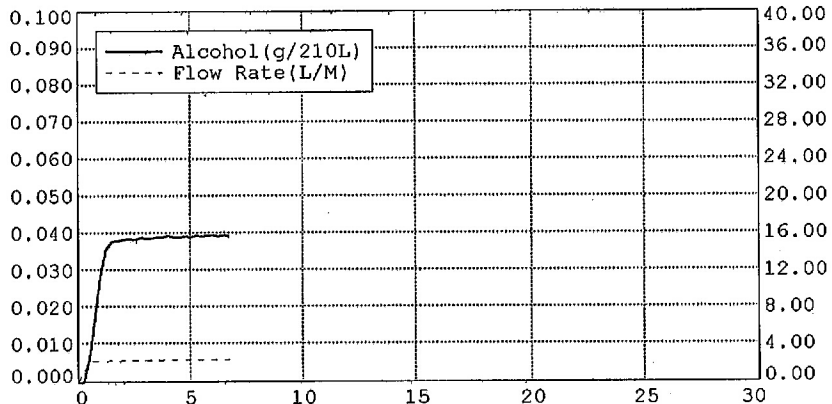
Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 11:10:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.49: 0.039
 LOT #: 02811040A2
 EXPIRATION: 02/01/2013

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

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

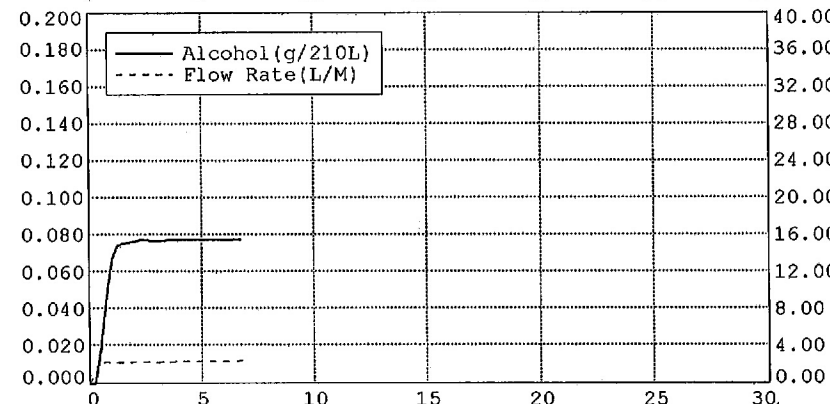
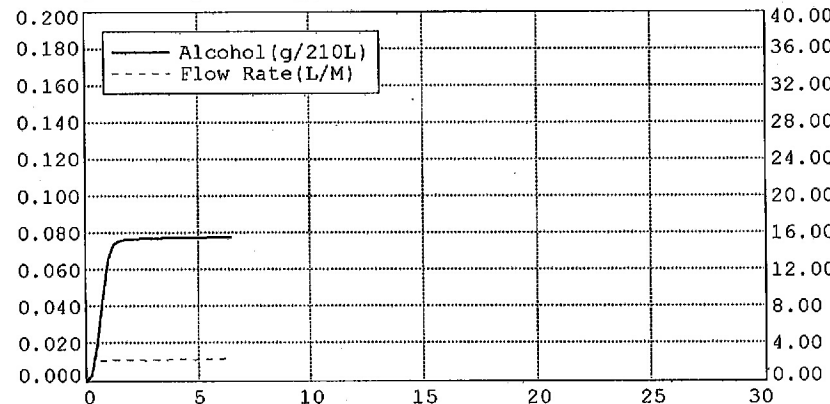
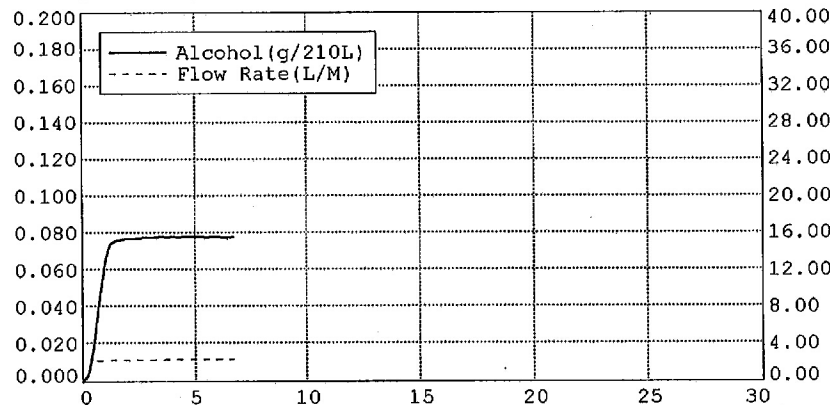
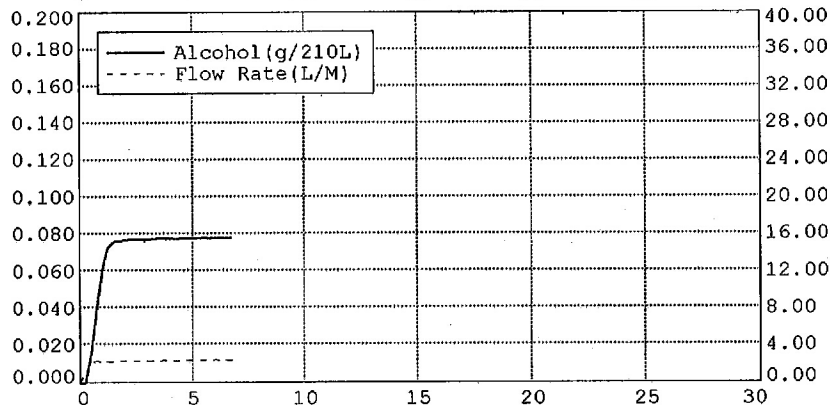
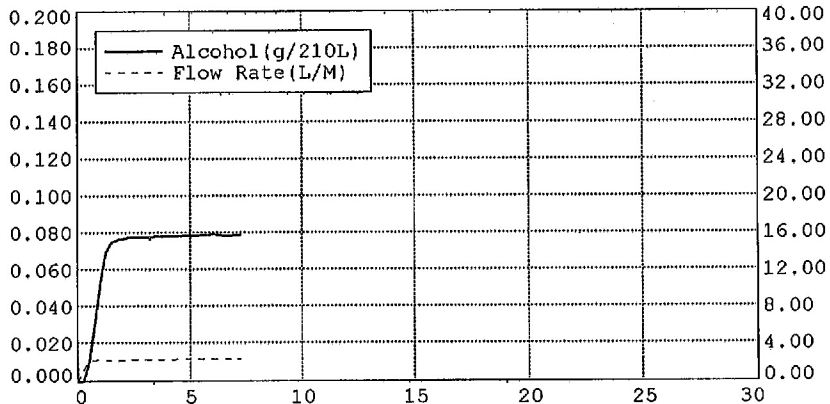
Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 11:19:58

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
EXTERNAL STANDARD	0.079	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.078	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.078	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.078	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.078	11:26
BLANK TEST	0.000	11:26

Average = 0.0782
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

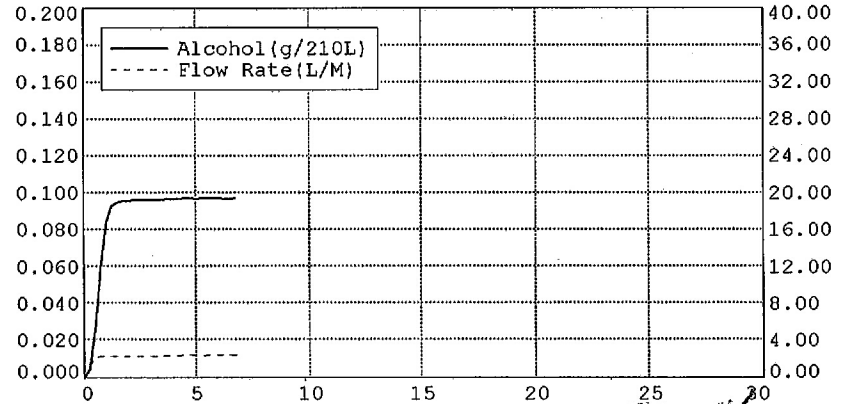
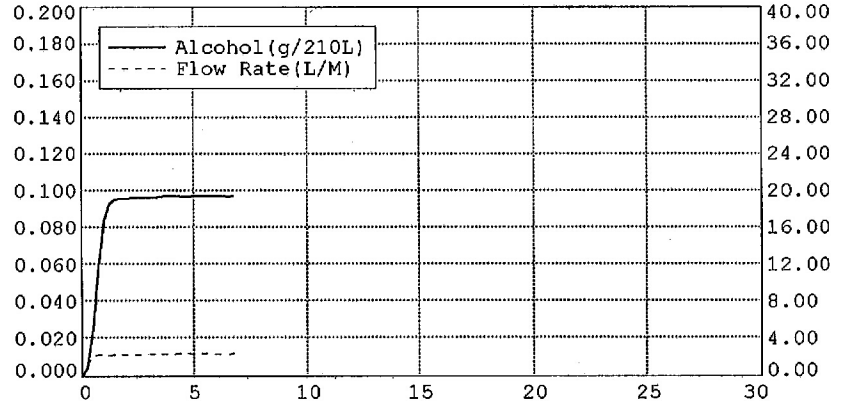
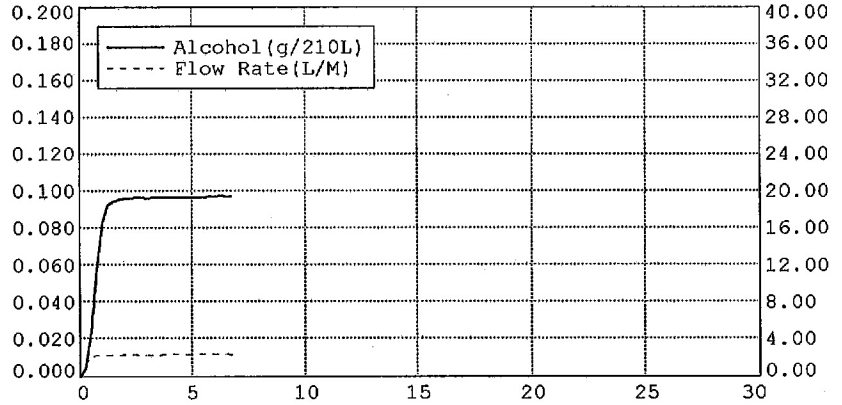
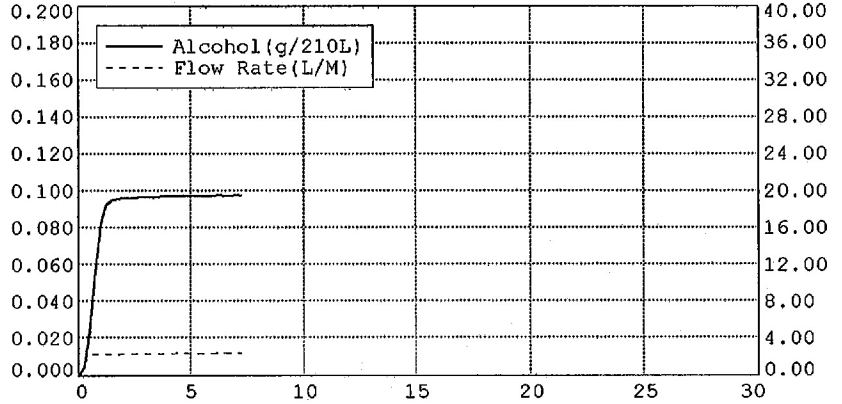
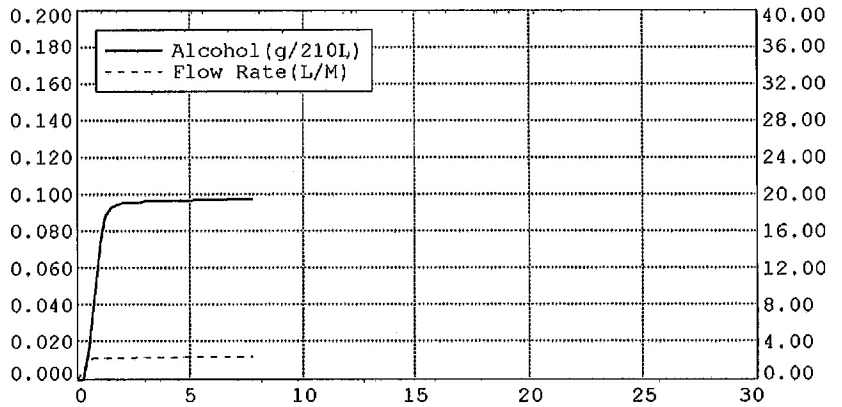
Alaska Department of Public Safety
 DATAMASTER dmt; 100367

Date: 03/24/2011
 Time: 11:30:16

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.47: 0.098
 LOT #: 05611100A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:31
INTERNAL STANDARD	VERIFIED	11:31
EXTERNAL STANDARD	0.098	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.098	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.098	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.097	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.097	11:36
BLANK TEST	0.000	11:37

Average = 0.0976
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

 Alaska Department of Public Safety
 DATAMASTER dmt: 100367

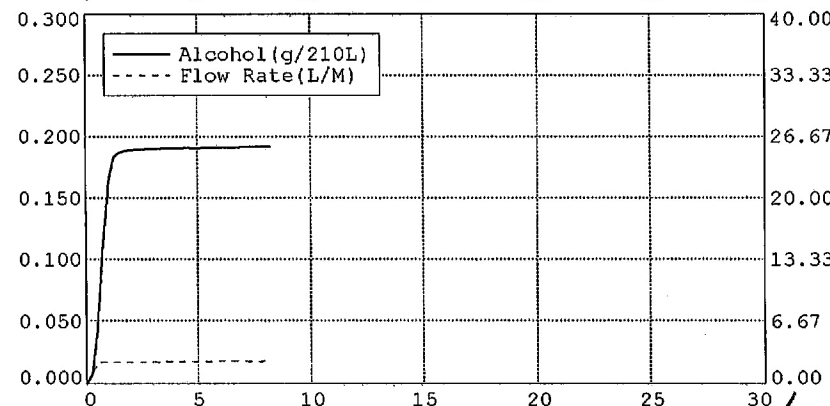
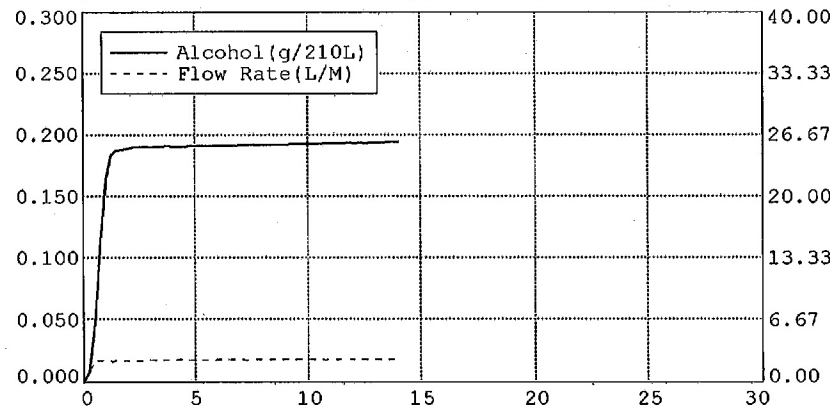
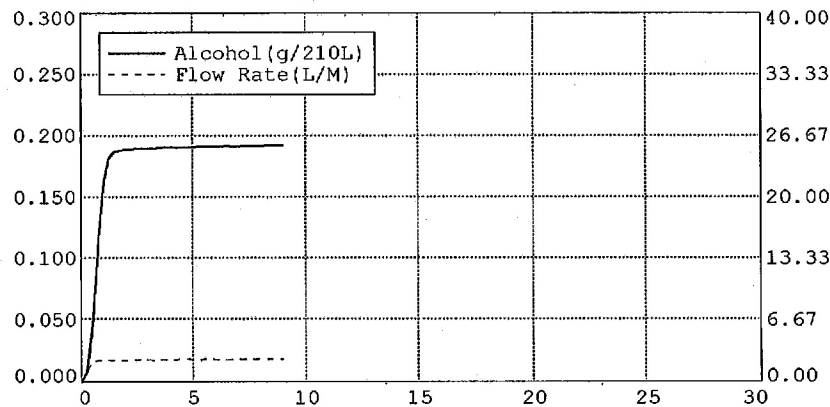
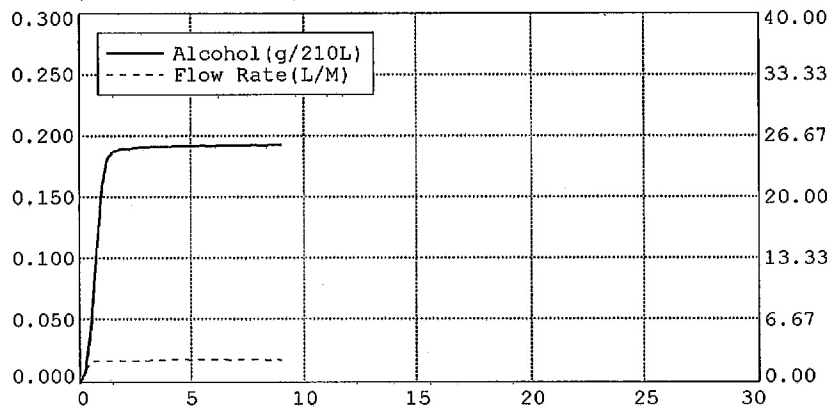
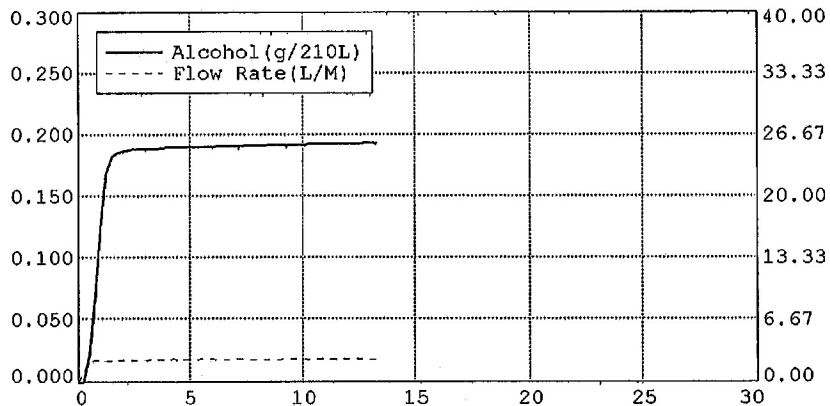
Date: 03/24/2011
 Time: 11:38:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 TARGET AT 29.47: 0.197
 LOT #: 07411200A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:40
EXTERNAL STANDARD	0.193	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.193	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.193	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.195	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.193	11:45
BLANK TEST	0.000	11:46

Average = 0.1934
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

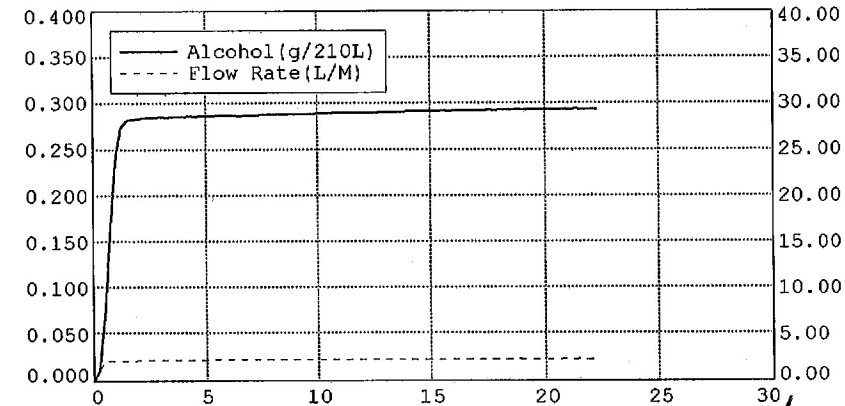
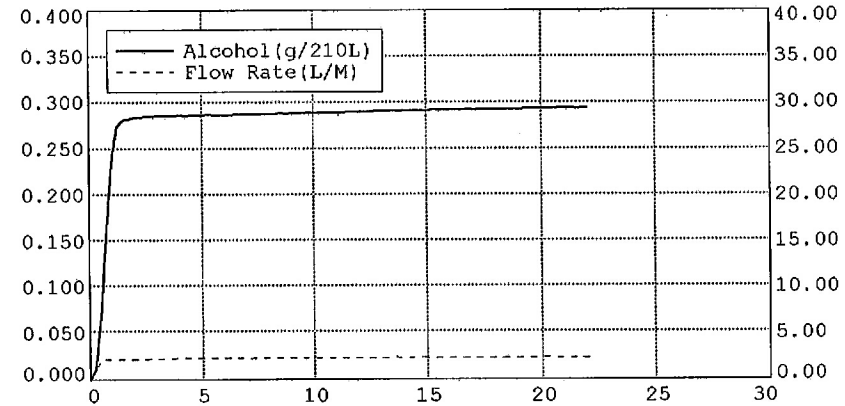
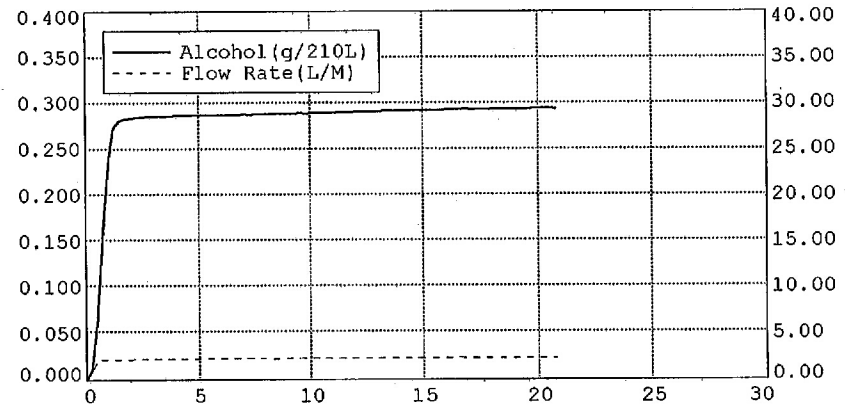
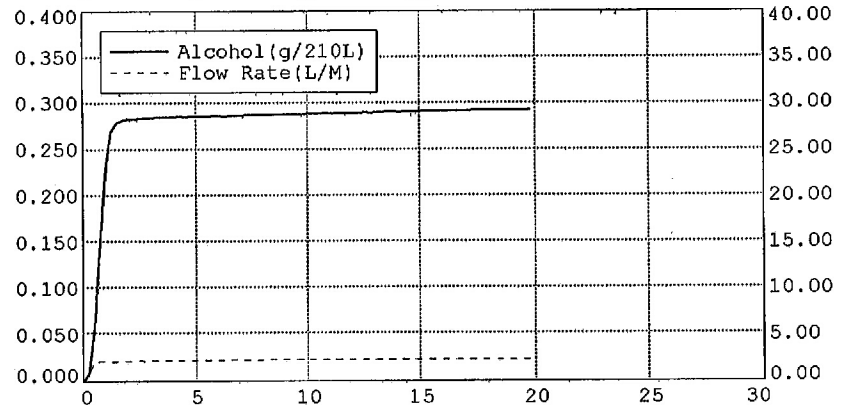
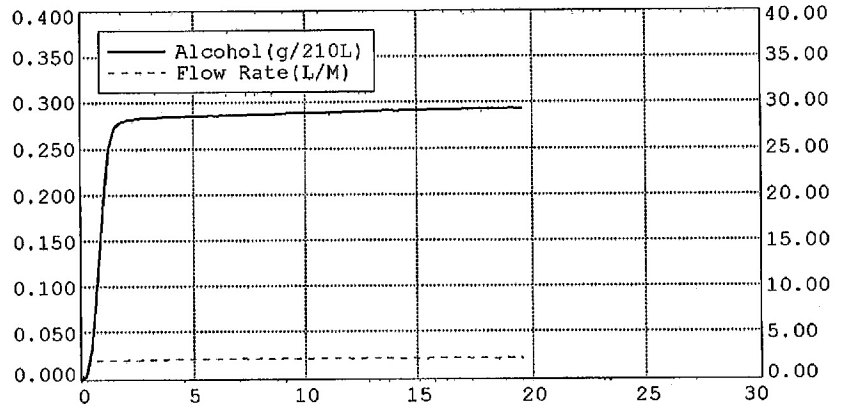
Alaska Department of Public Safety
 DATAMASTER dmt: 100367

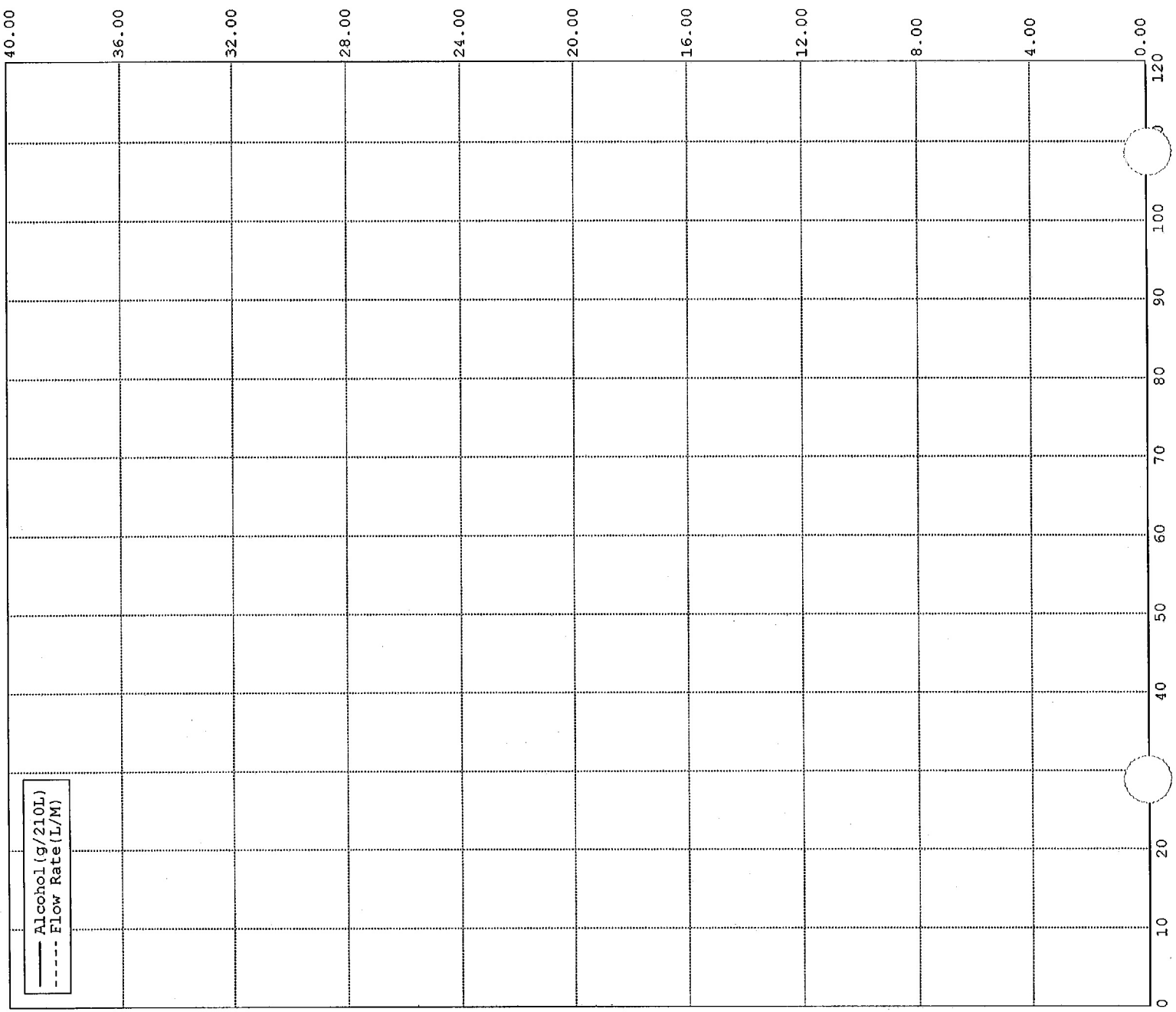
Date: 03/24/2011
 Time: 11:47:28

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 TARGET AT 29.48: 0.295
 LOT #: 07411300A1
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:48
INTERNAL STANDARD	VERIFIED	11:48
EXTERNAL STANDARD	0.294	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.292	11:50
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.294	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.294	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.293	11:55
BLANK TEST	0.000	11:56

Average = 0.2934
 Std Dev = 0.0009





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100367

 Date: 03/24/2011
 Time: 13:06:17

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

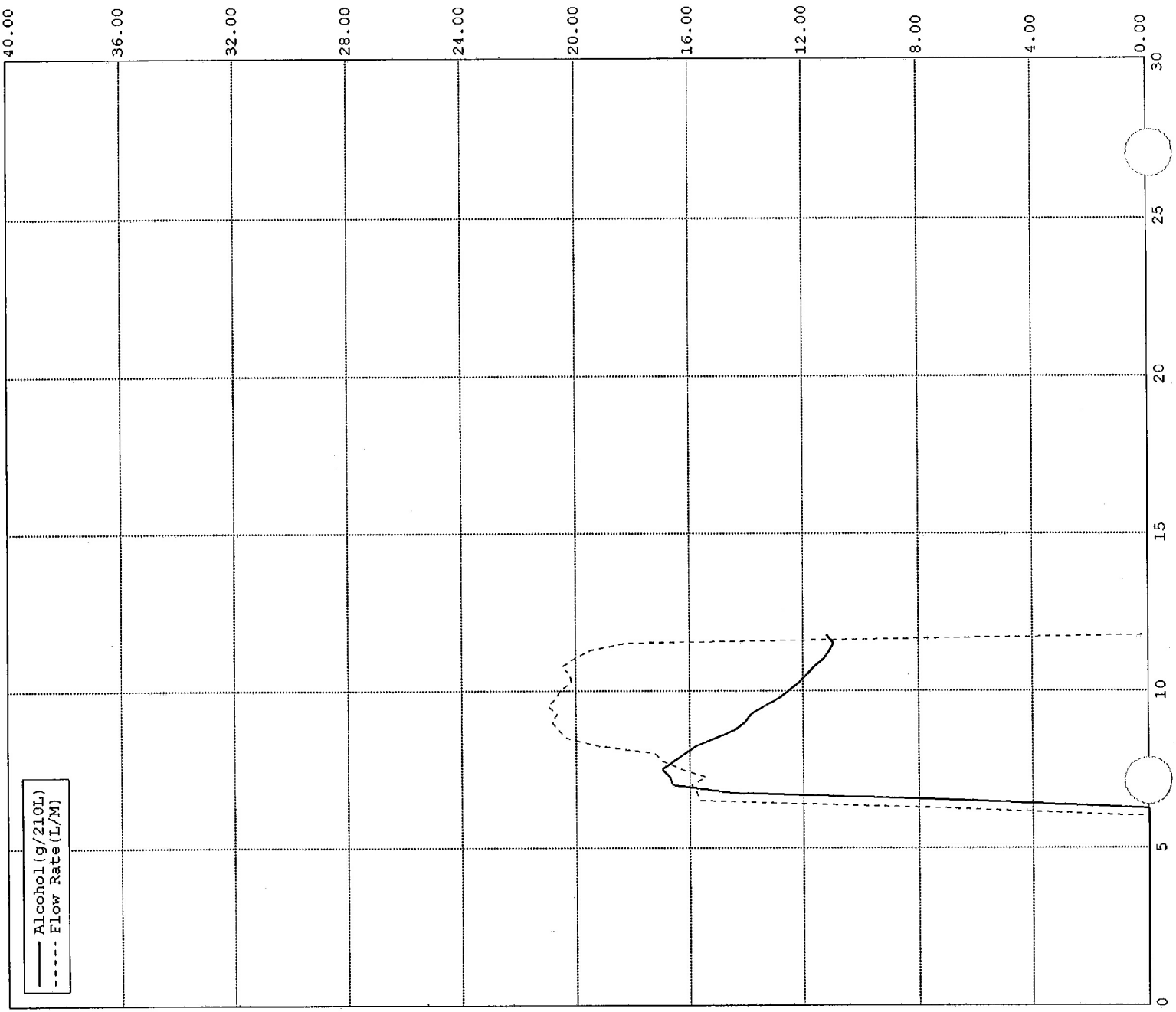
DEPT/AGENCY:
 AAAA

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 02511080A1
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 13:07
BLANK TEST 0.000 13:07
INTERNAL STANDARD VERIFIED 13:07
EXTERNAL STANDARD 0.080 13:07
BLANK TEST 0.000 13:08
SUBJECT SAMPLE INCOMPLETE 13:10

CAB
 00314/19



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100367

Date: 03/24/2011
Time: 13:18:19

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

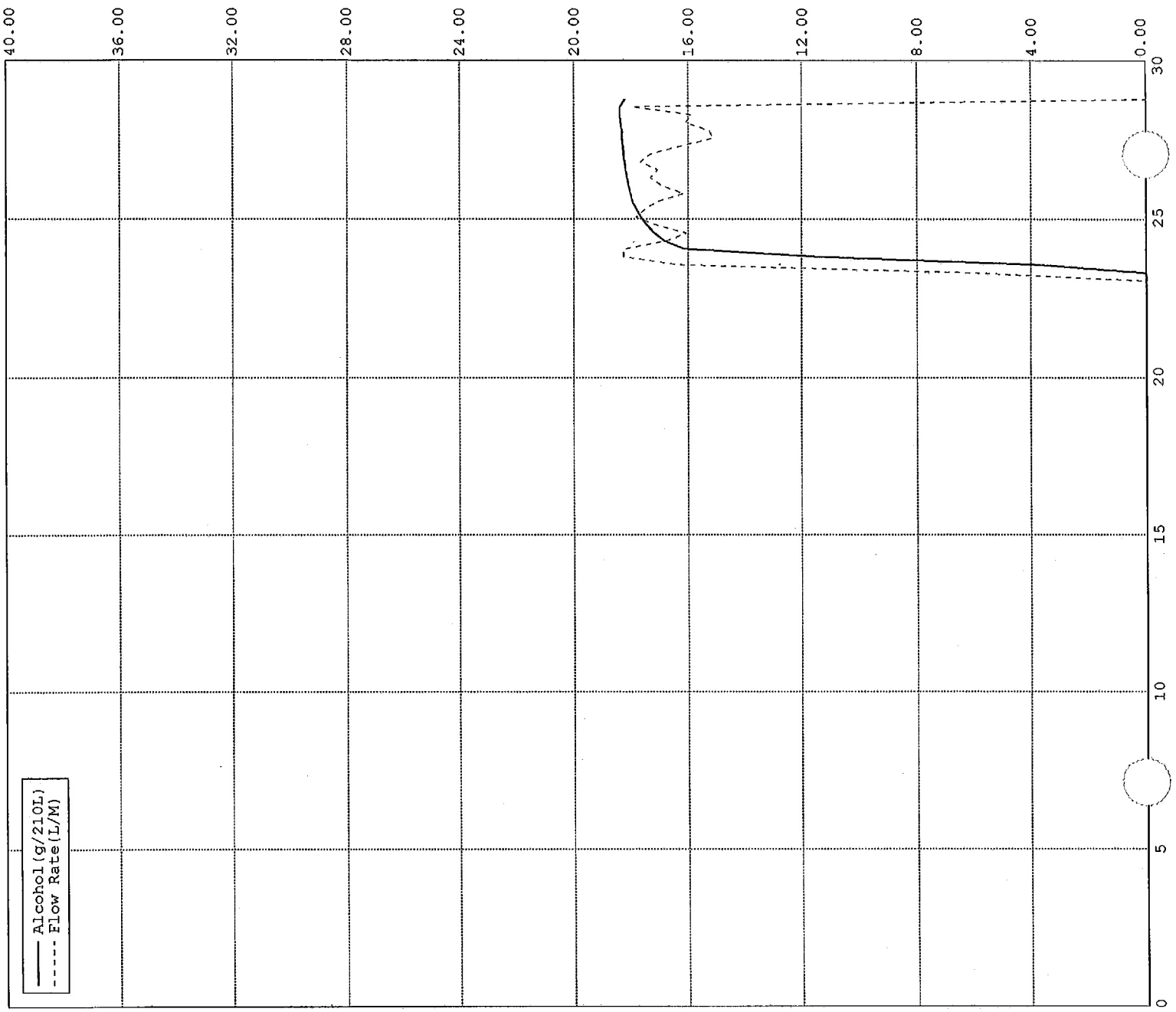
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 02511080A1
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 13:19
BLANK TEST 0.000 13:20
INTERNAL STANDARD VERIFIED 13:20
EXTERNAL STANDARD 0.080 13:20
BLANK TEST 0.000 13:21
SUBJECT SAMPLE Invalid 13:21

COB

COB 3/25/11



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100367

 Date: 03/24/2011
 Time: 13:36:55

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTF-ISO

OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

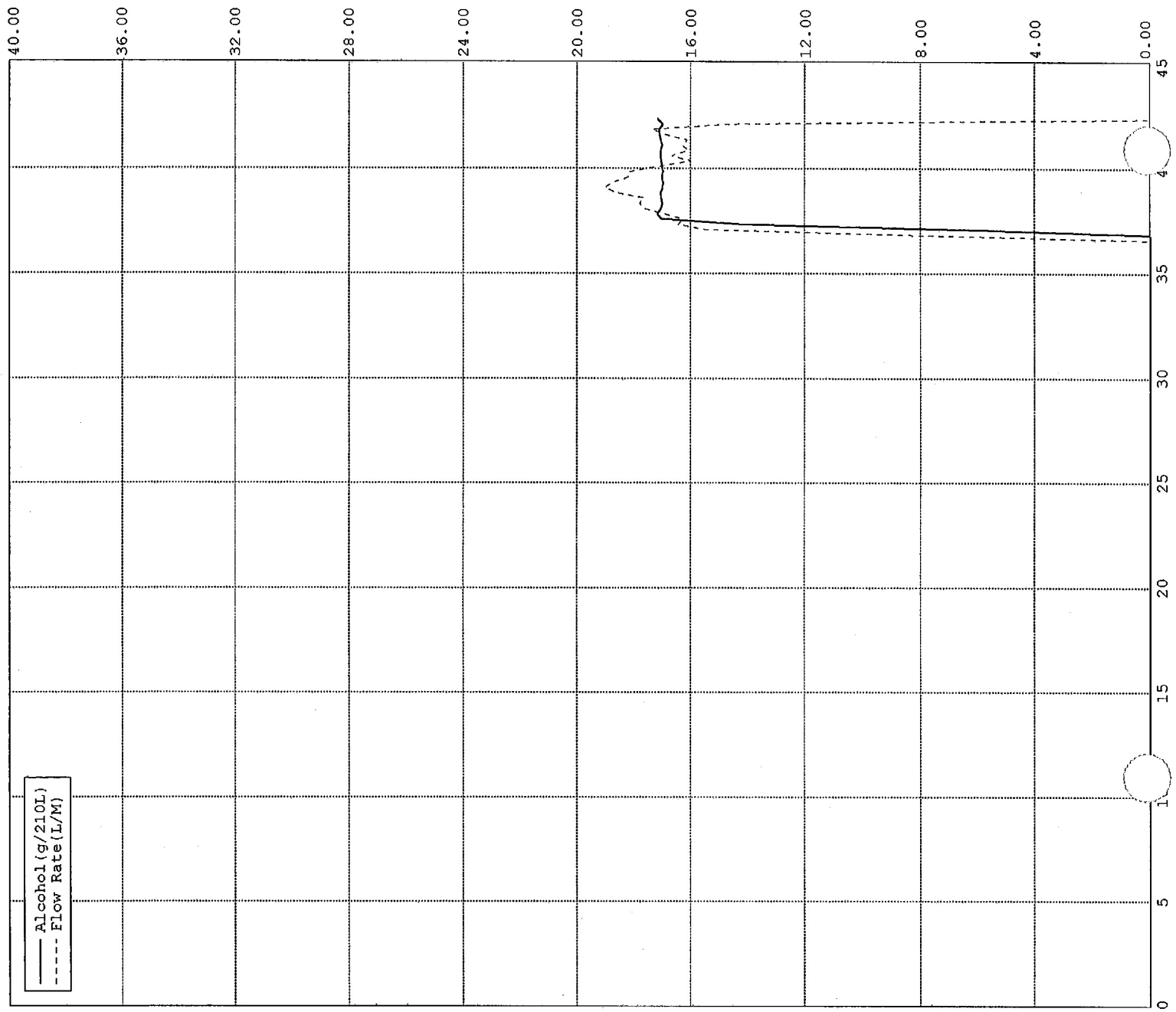
DEPT/AGENCY:
 AAAA

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 13:37
 BLANK TEST 0.000 13:38
 INTERNAL STANDARD VERIFIED 13:38
 EXTERNAL STANDARD 0.079 13:38
 BLANK TEST 0.000 13:39
 SUBJECT SAMPLE INTERFERENCE 13:39

CAS
CAS 10/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 14:03:17

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTF-ACET

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA1

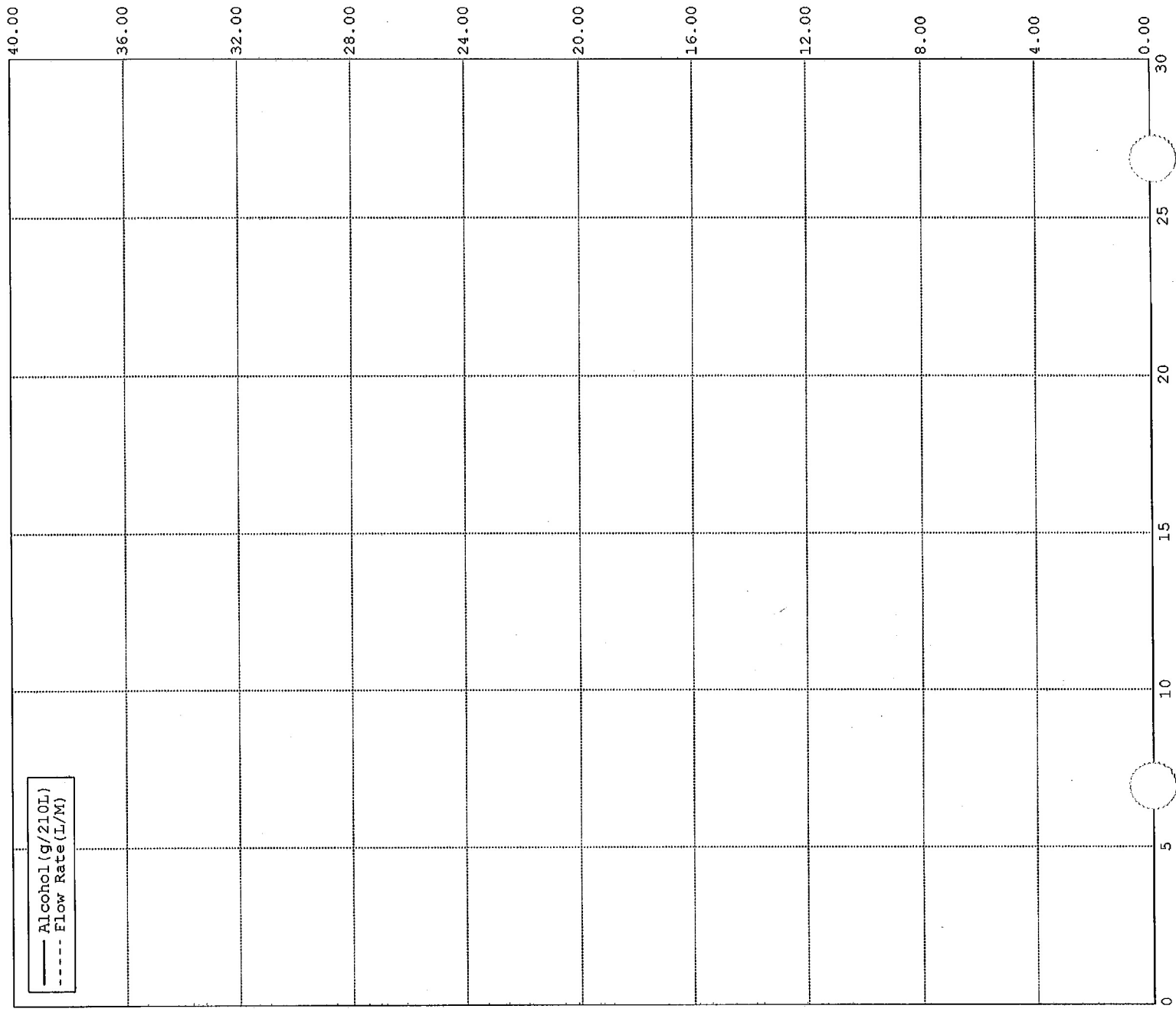
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:04
BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.079	14:04
BLANK TEST	0.000	14:05
SUBJECT SAMPLE	INTERFERENCE	14:06

CS

CS 17/19



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 13:58:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA

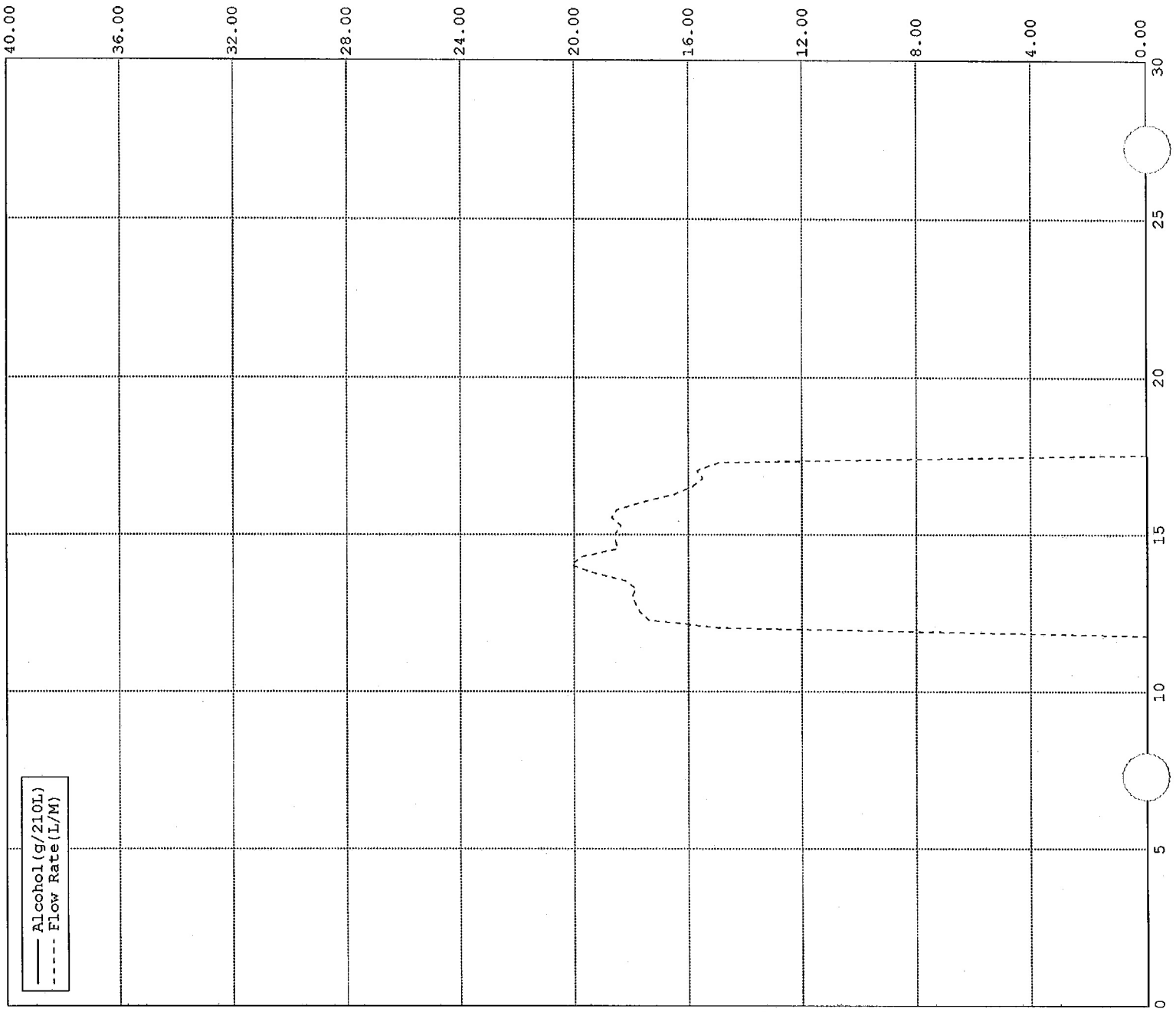
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 13:59
 BLANK TEST 0.000 13:59
 INTERNAL STANDARD VERIFIED 13:59
 EXTERNAL STANDARD 0.078 13:59
 BLANK TEST 0.000 14:00

RFI Detected

COB 3/18/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

Date: 03/24/2011
 Time: 14:09:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA1

CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:10
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.079	14:11
BLANK TEST	0.000	14:12
SUBJECT SAMPLE	0.000	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.078	14:13
BLANK TEST	0.000	14:14

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