

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMCEF 2015 R1
Status: Active

Instrument S/N 100675 Analyst C. O'Bryant Start Date 1/13/16

1. Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$ Yes

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias

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 1.5 L (1.3L to 1.7L)

4. 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 01315080A3 Exp 2/5/17

iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17

1. Simulator S/N DR6267 Date Calibrated 1/20/15

vi. 0.300g/210L Mnf Guth Lot 15170 Exp 7/20/17

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

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

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

ii. Isopropanol - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N SD1176 Date Calibrated 1/20/15

iii. Negative Control - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

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

e. RFI

6. Verify stylus is calibrated

7. Reset Options

8. Clear Memory

9. Verification of Calibration

10. Non-Drinking Subject Test (attached)

11. Upload

13. Remove tank prior to shut down

End Date 1/13/16

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 07:59:05

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.68 V PASSED
(0.98 V - 2.28 V)
Cooler Voltage = 1.66 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 561 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 5.066 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)
PUMP OFF PASSED
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.082 2.97% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 8:24 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 48.0°C

Current Barometer 29.1 in
Volume (Ltr) 1.55

Settings

Lamp: 1.68 V
Bias: 79 V
Cooler: 1.69 V
Chopper: 559 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.066 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 10/25/2011
Time: 10:29:44

Ca	=	0.1000			
CAL	=	0.978693	0.800	<=	CAL < 1.200
b1	=	0.0000	0.0000	<=	b1 < 0.0040
b2	=	0.0031	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0849	0.0500	<=	Xq < 0.2000
a21	=	1.192763	1.050	<=	a21 < 1.300
a31	=	0.437617	0.300	<=	a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 08:24:57

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

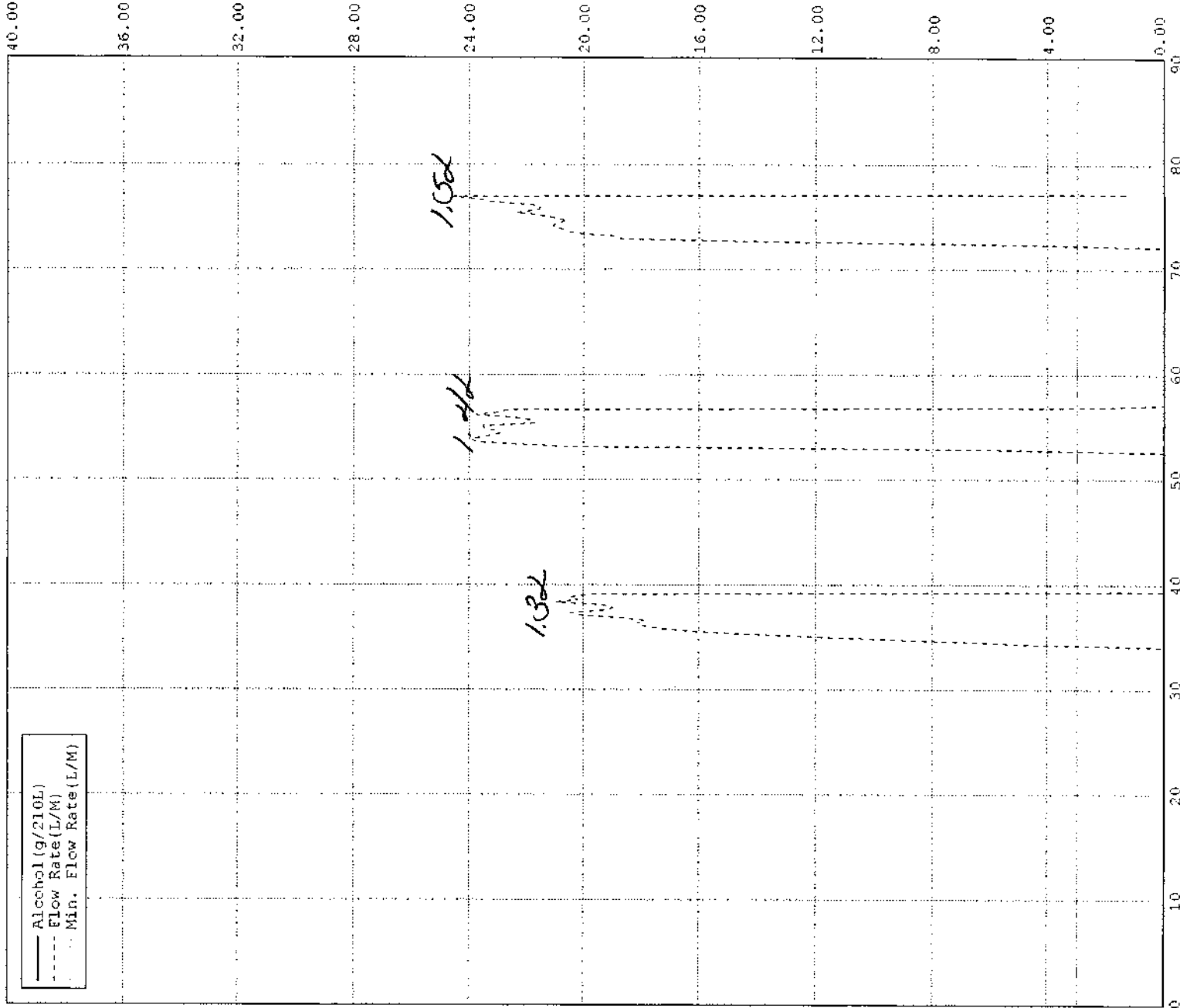
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	08:26
BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.076	08:27
BLANK TEST	0.000	08:28
SUBJECT SAMPLE (Vol=1.59L)	0.000	08:29
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.077	08:30
BLANK TEST	0.000	08:31



LINEARITY CHECK

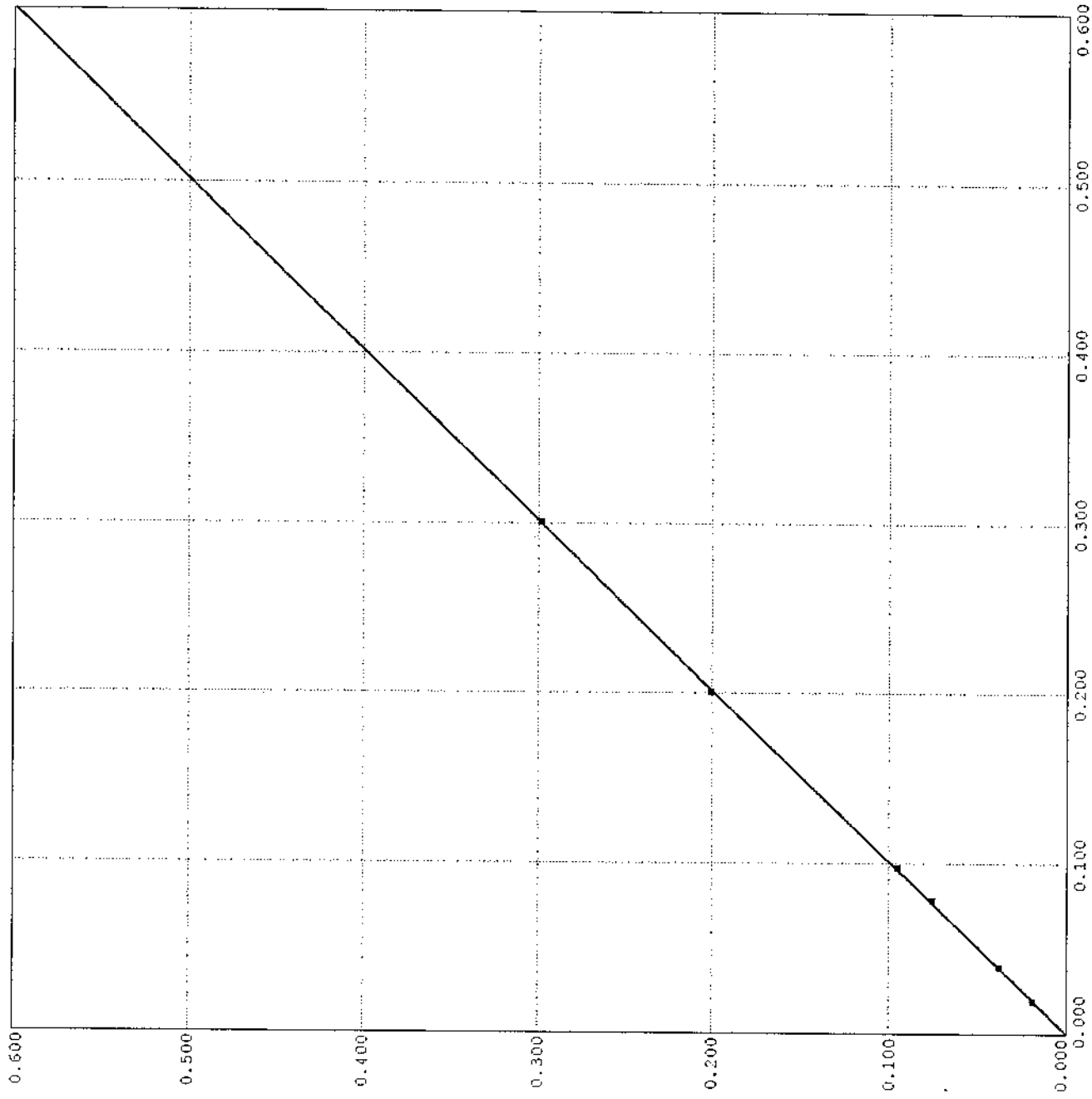
Alaska Department of Public Safety
 DATAMASTER dmt: 100675

Date: 01/13/2016
 Time: 08:33:56

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0768	0.0004
0.097	0.0962	0.0004
0.200	0.2014	0.0005
0.300	0.2990	0.0000

SLOPE = 0.998290
 R² = 0.999899



COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

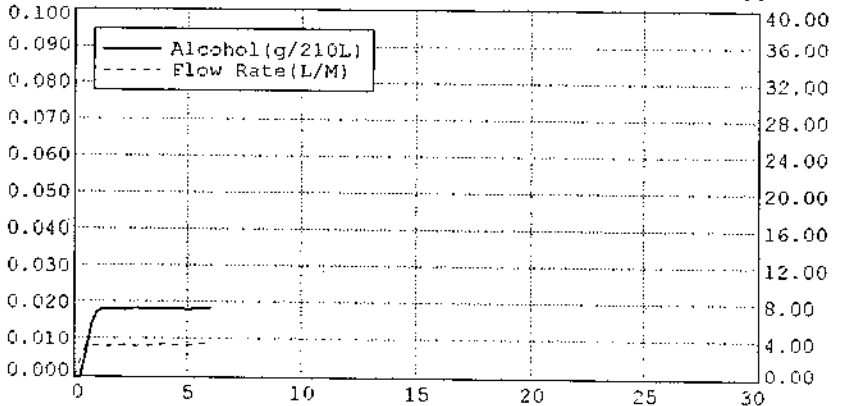
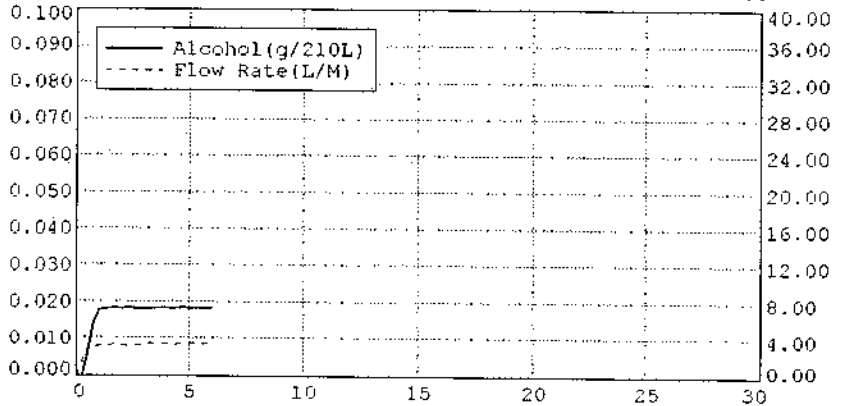
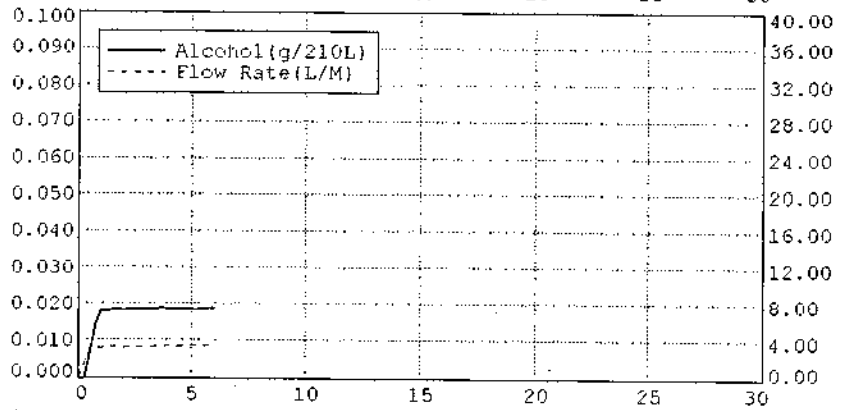
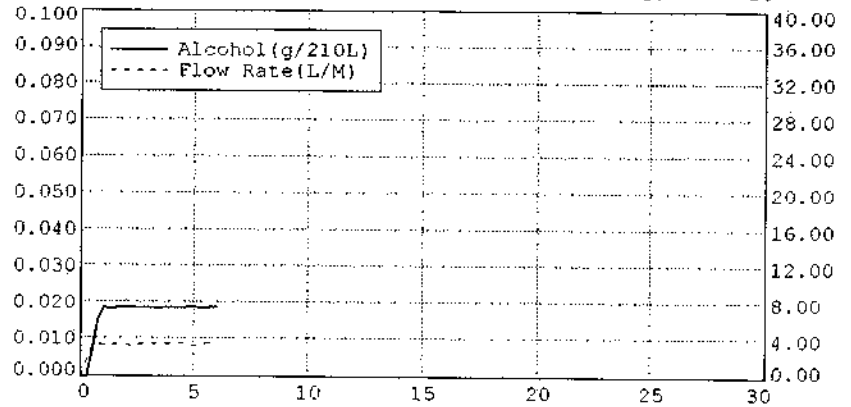
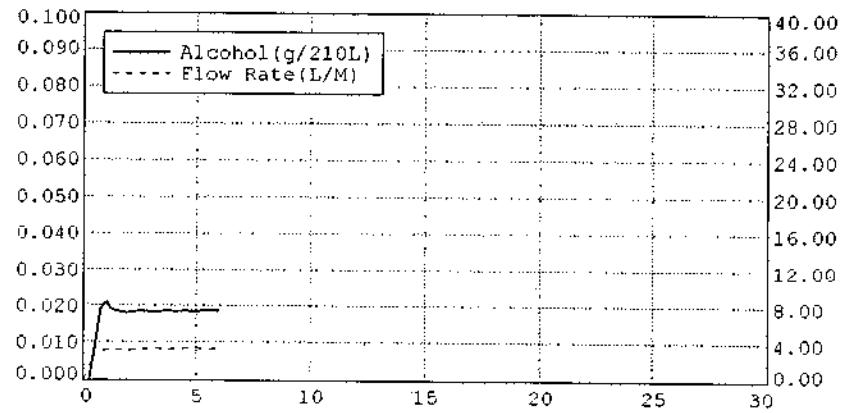
Date: 01/13/2016
 Time: 08:33:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.10: 0.019
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 999 psi

BLANK TEST	0.000	08:47
INTERNAL STANDARD	VERIFIED	08:47
EXTERNAL STANDARD	0.020	08:47
BLANK TEST	0.000	08:48
EXTERNAL STANDARD	0.020	08:48
BLANK TEST	0.000	08:49
EXTERNAL STANDARD	0.020	08:49
BLANK TEST	0.000	08:50
EXTERNAL STANDARD	0.020	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.020	08:51
BLANK TEST	0.000	08:52

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

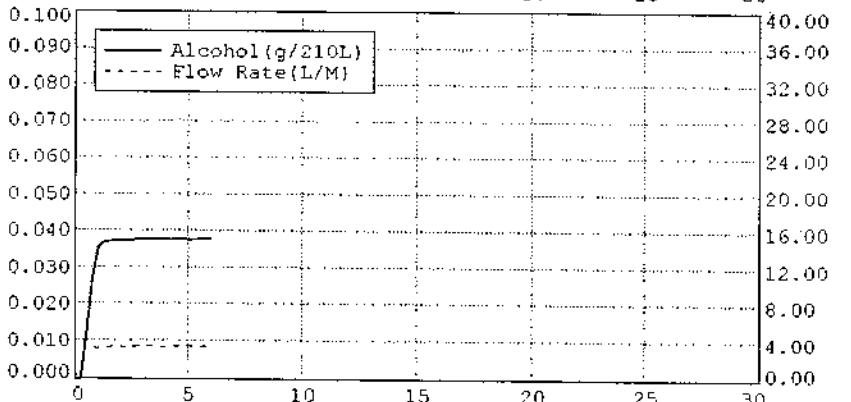
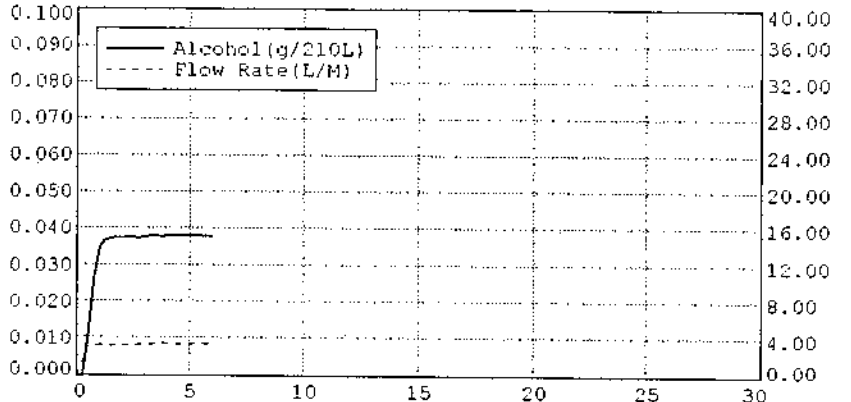
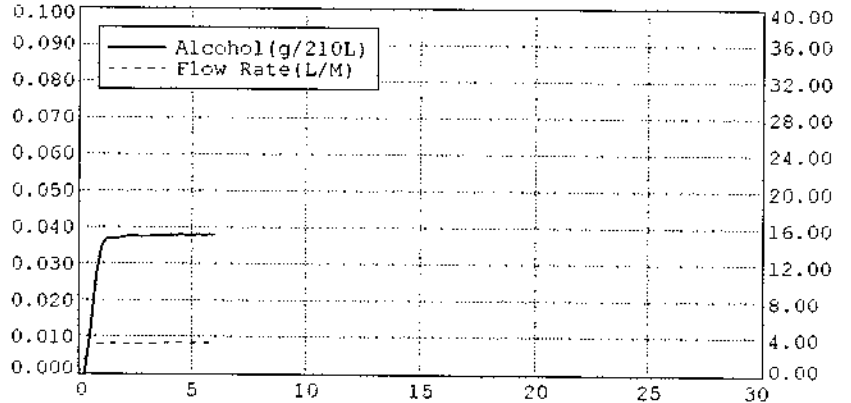
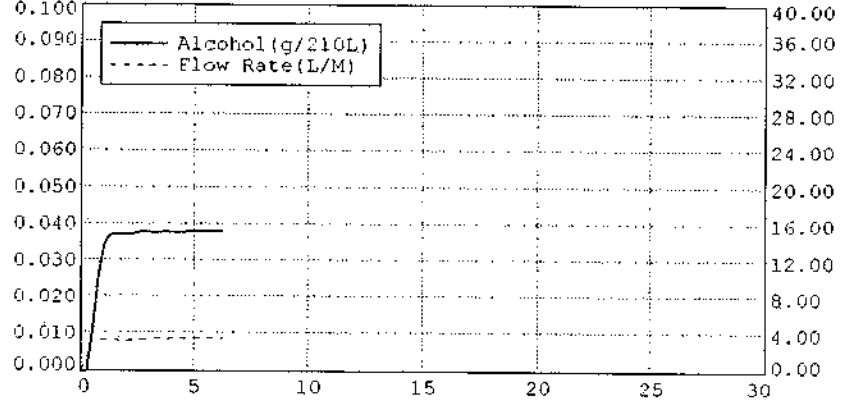
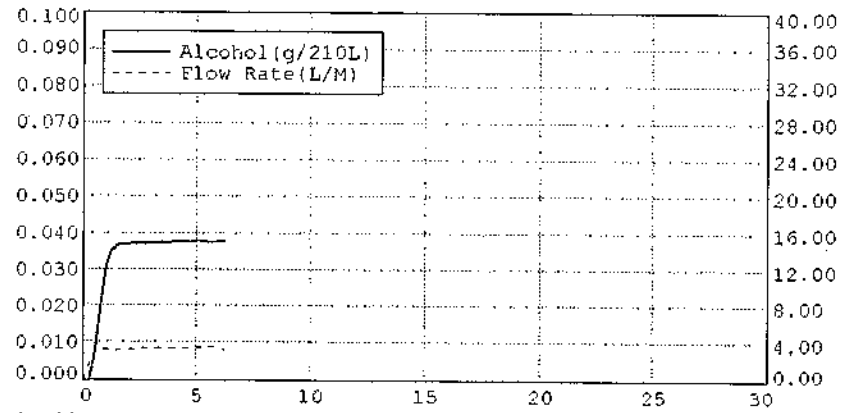
Date: 01/13/2016
 Time: 08:54:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.11: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1037 psi

BLANK TEST	0.000	08:55
INTERNAL STANDARD	VERIFIED	08:55
EXTERNAL STANDARD	0.039	08:55
BLANK TEST	0.000	08:56
EXTERNAL STANDARD	0.039	08:56
BLANK TEST	0.000	08:57
EXTERNAL STANDARD	0.039	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.039	08:58
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.039	09:00
BLANK TEST	0.000	09:00

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

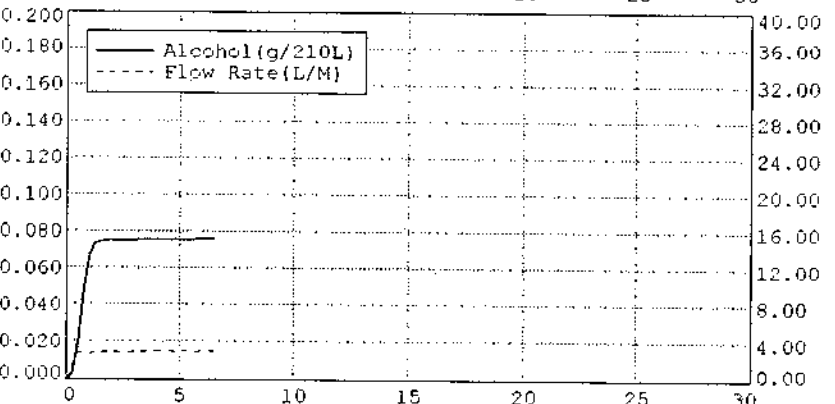
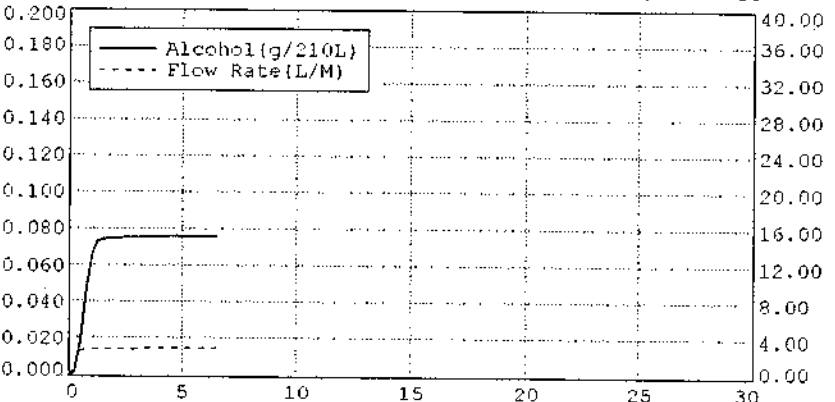
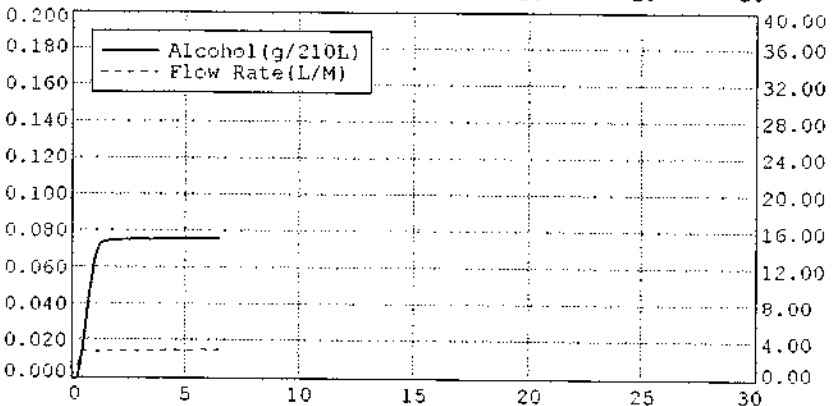
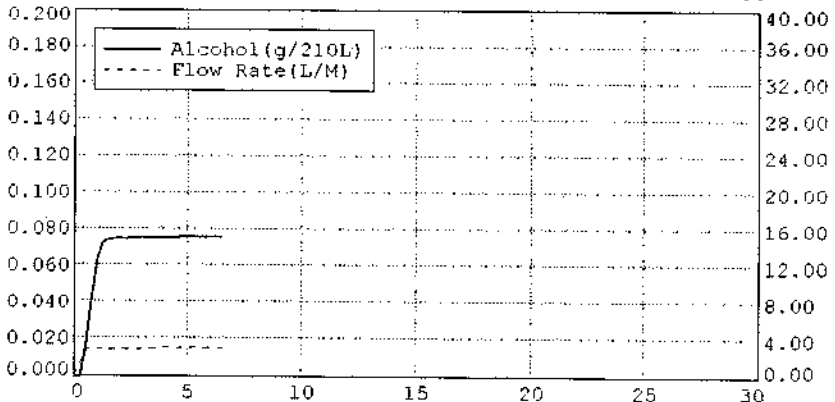
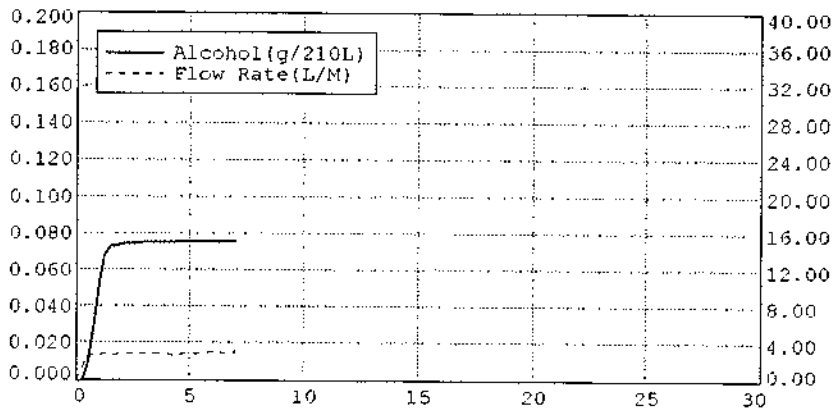
Date: 01/13/2016
 Time: 09:03:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.11: 0.078
 LOT #: 01315080A3
 EXPIRATION: 02/05/2017
 TANK PRESSURE: 419 psi

BLANK TEST	0.000	09:04
INTERNAL STANDARD	VERIFIED	09:04
EXTERNAL STANDARD	0.077	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.076	09:05
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.077	09:07
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.077	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.077	09:09
BLANK TEST	0.000	09:10

Average = 0.0768
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

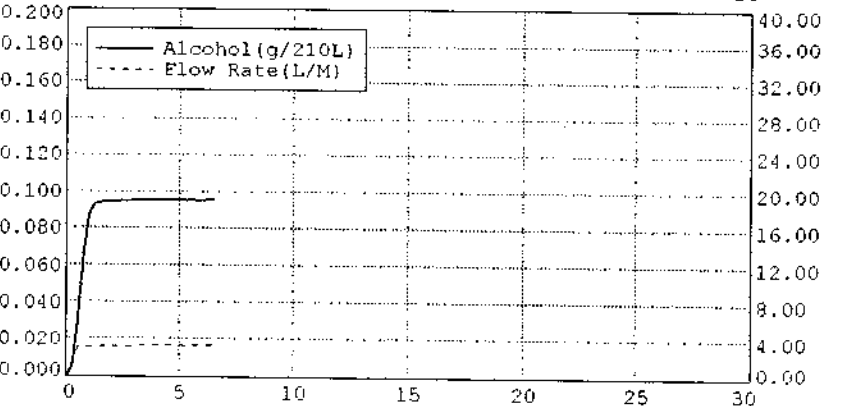
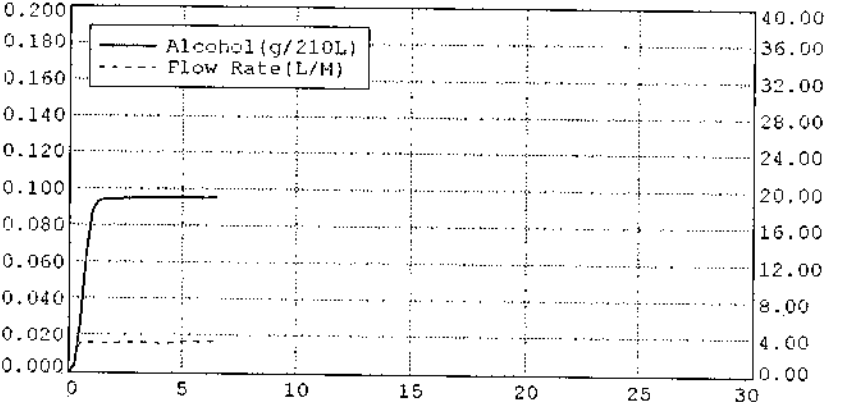
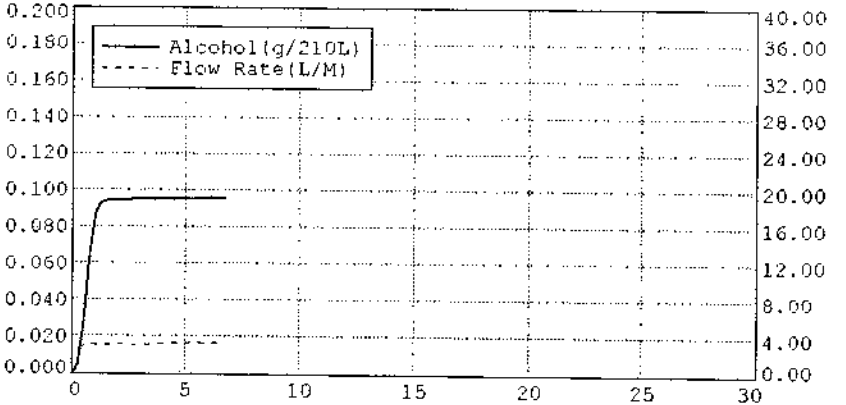
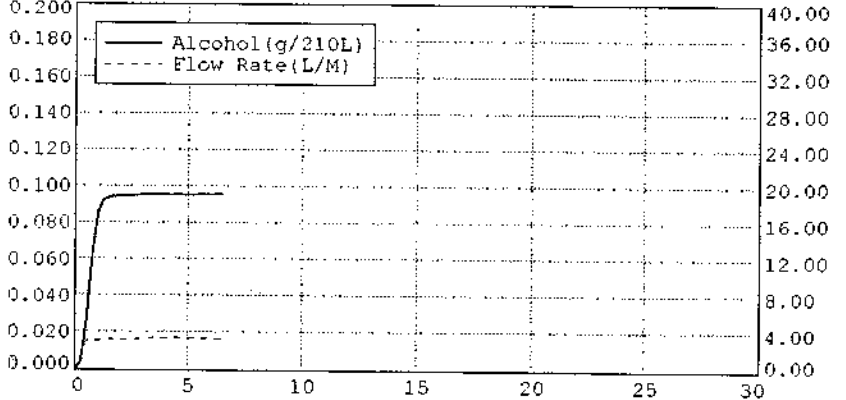
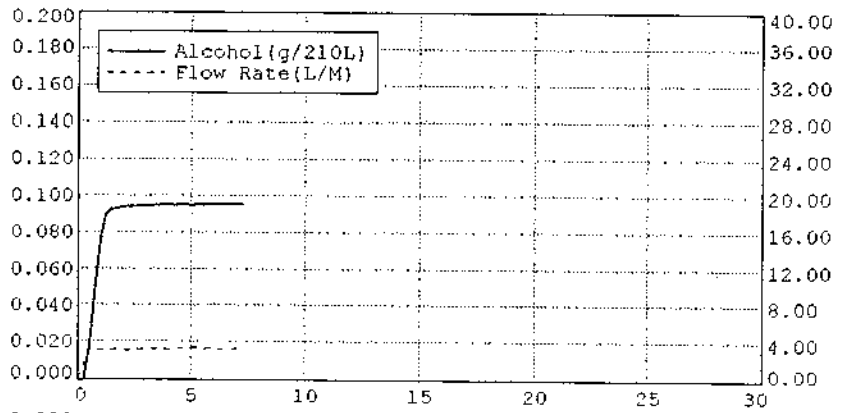
Date: 01/13/2016
 Time: 09:13:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.12: 0.097
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 781 psi

BLANK TEST	0.000	09:14
INTERNAL STANDARD	VERIFIED	09:14
EXTERNAL STANDARD	0.096	09:14
BLANK TEST	0.000	09:15
EXTERNAL STANDARD	0.096	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.097	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.096	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.096	09:19
BLANK TEST	0.000	09:19

Average = 0.0962
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

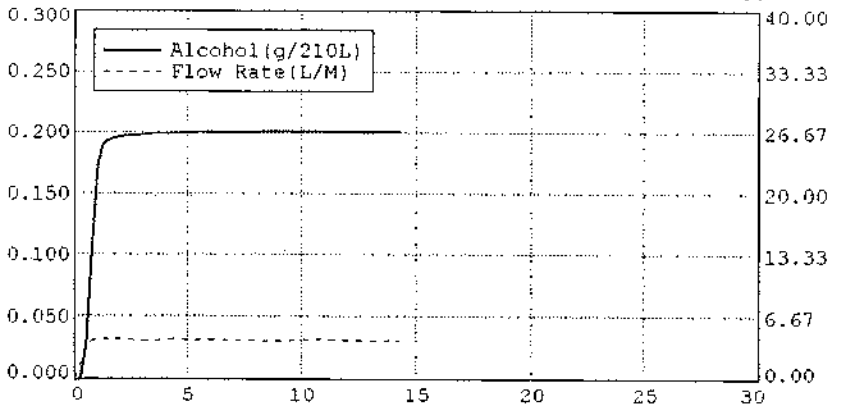
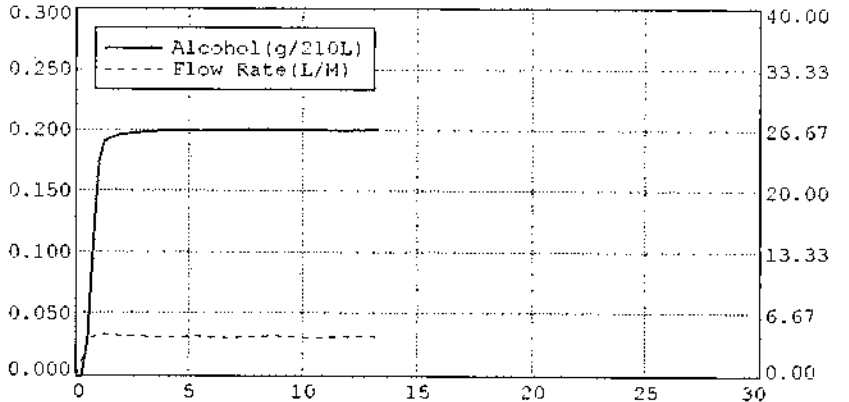
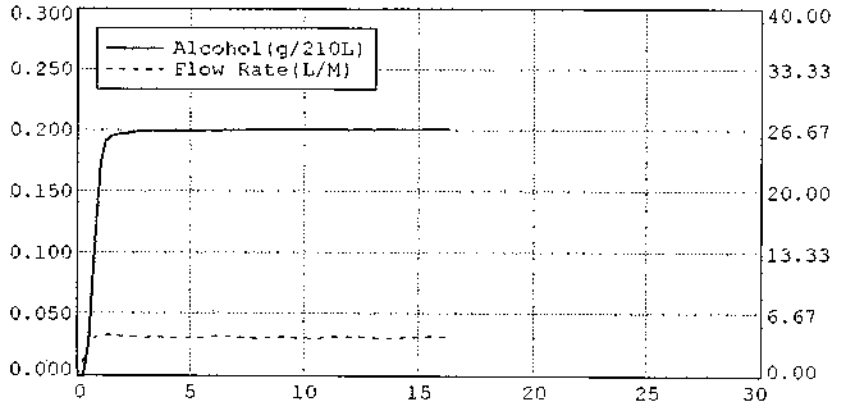
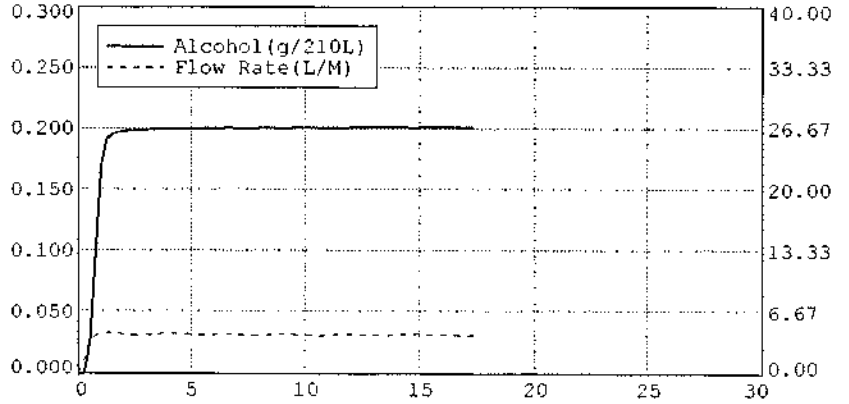
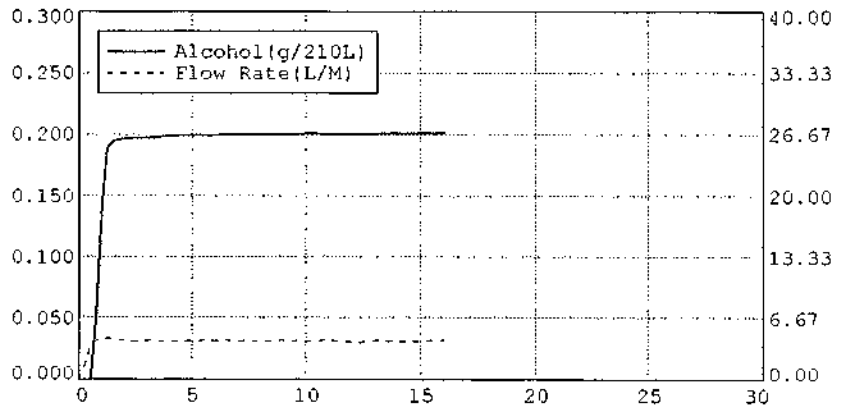
Date: 01/13/2016
 Time: 09:21:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 15130
 EXPIRATION: 05/11/2017

BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:23
EXTERNAL STANDARD	0.202	09:23
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.202	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.201	09:26
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.201	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.201	09:28
BLANK TEST	0.000	09:29

Average = 0.2014
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

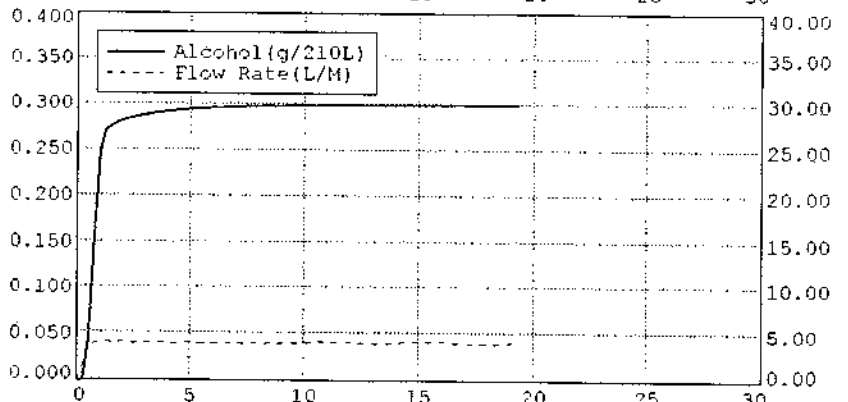
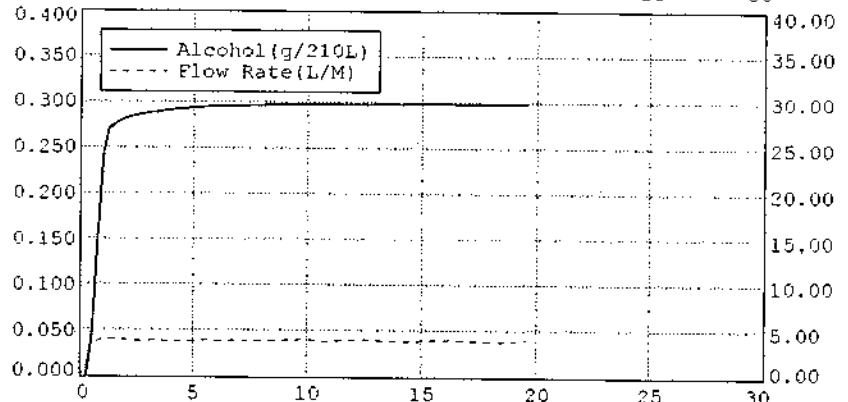
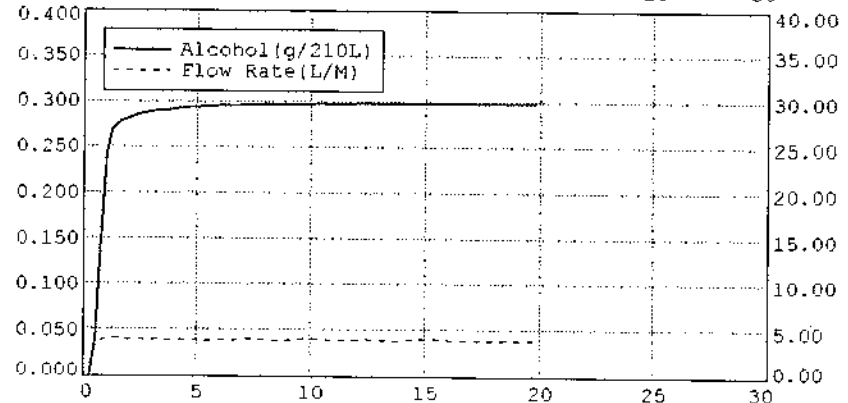
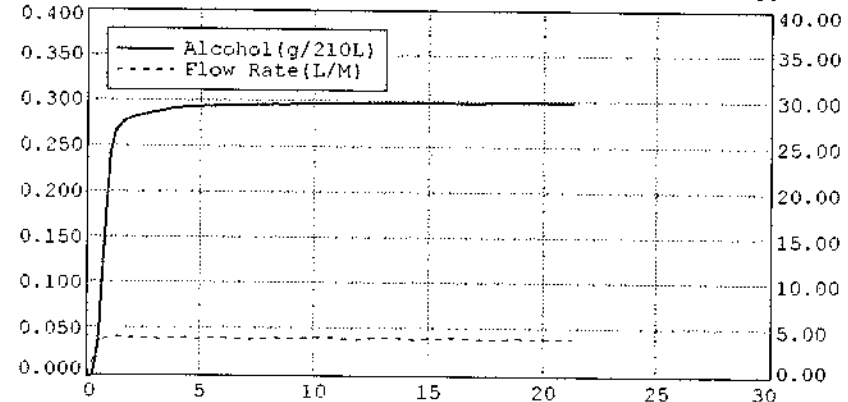
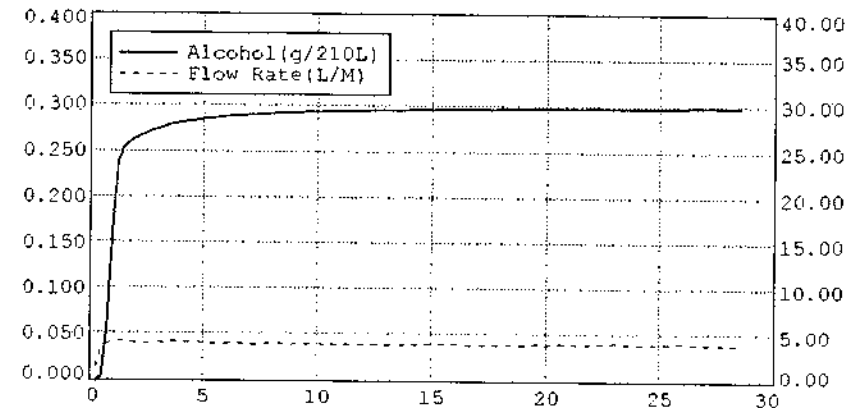
Alaska Department of Public Safety
 DATAMASTER dmt: 100675

Date: 01/13/2016
 Time: 09:31:19

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 15170
 EXPIRATION: 07/20/2017

BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.299	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.299	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.299	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.299	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.299	09:38
BLANK TEST	0.000	09:39

Average = 0.2990
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 09:46:50

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

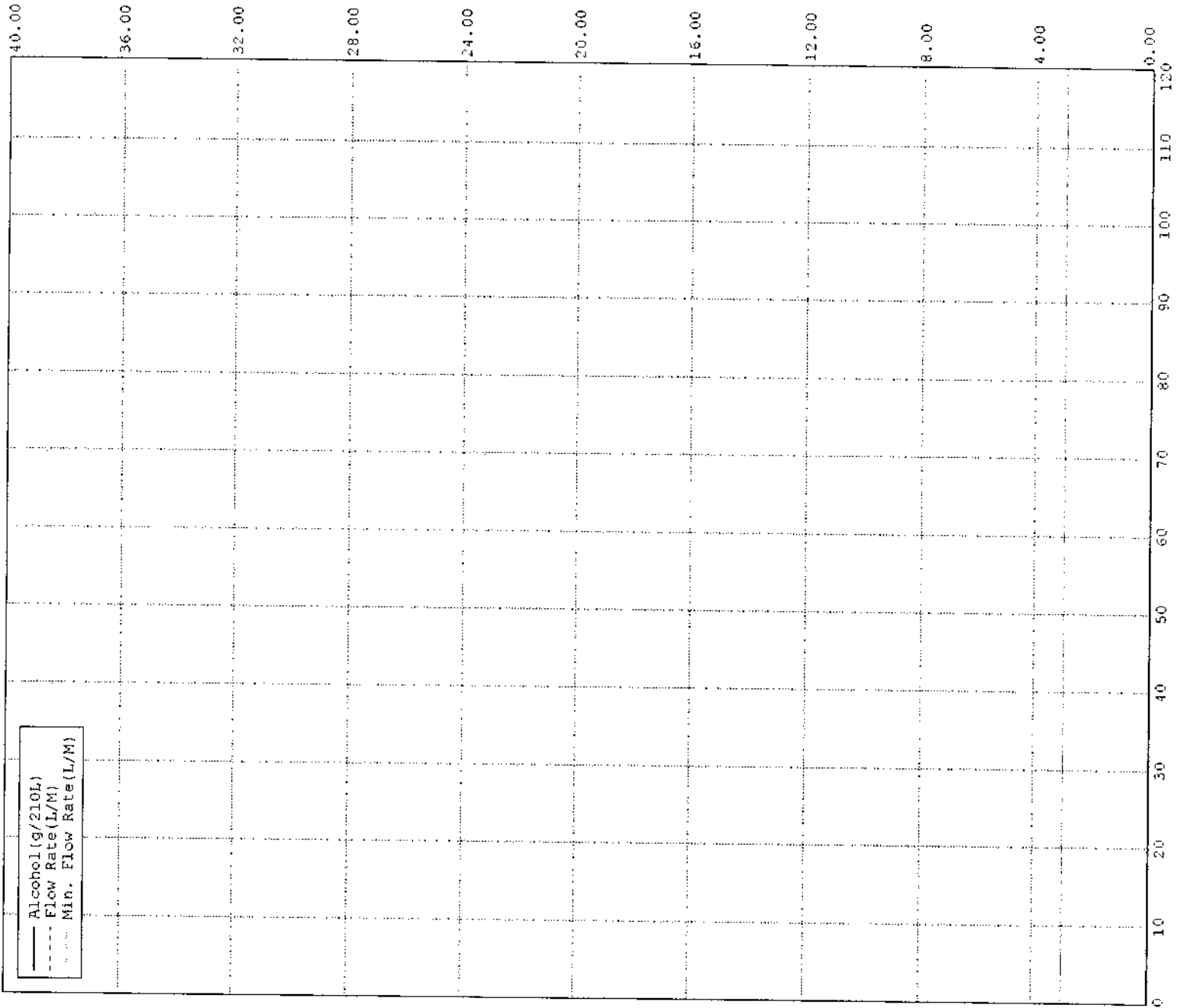
DEPT/AGENCY:
AAA1

CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.13: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	09:57
BLANK TEST	0.000	09:57
INTERNAL STANDARD	VERIFIED	09:58
EXTERNAL STANDARD	0.077	09:58
BLANK TEST	0.000	09:59
SUBJECT SAMPLE	INCOMPLETE	10:01



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100675

Date: 01/13/2016
Time: 10:26:43

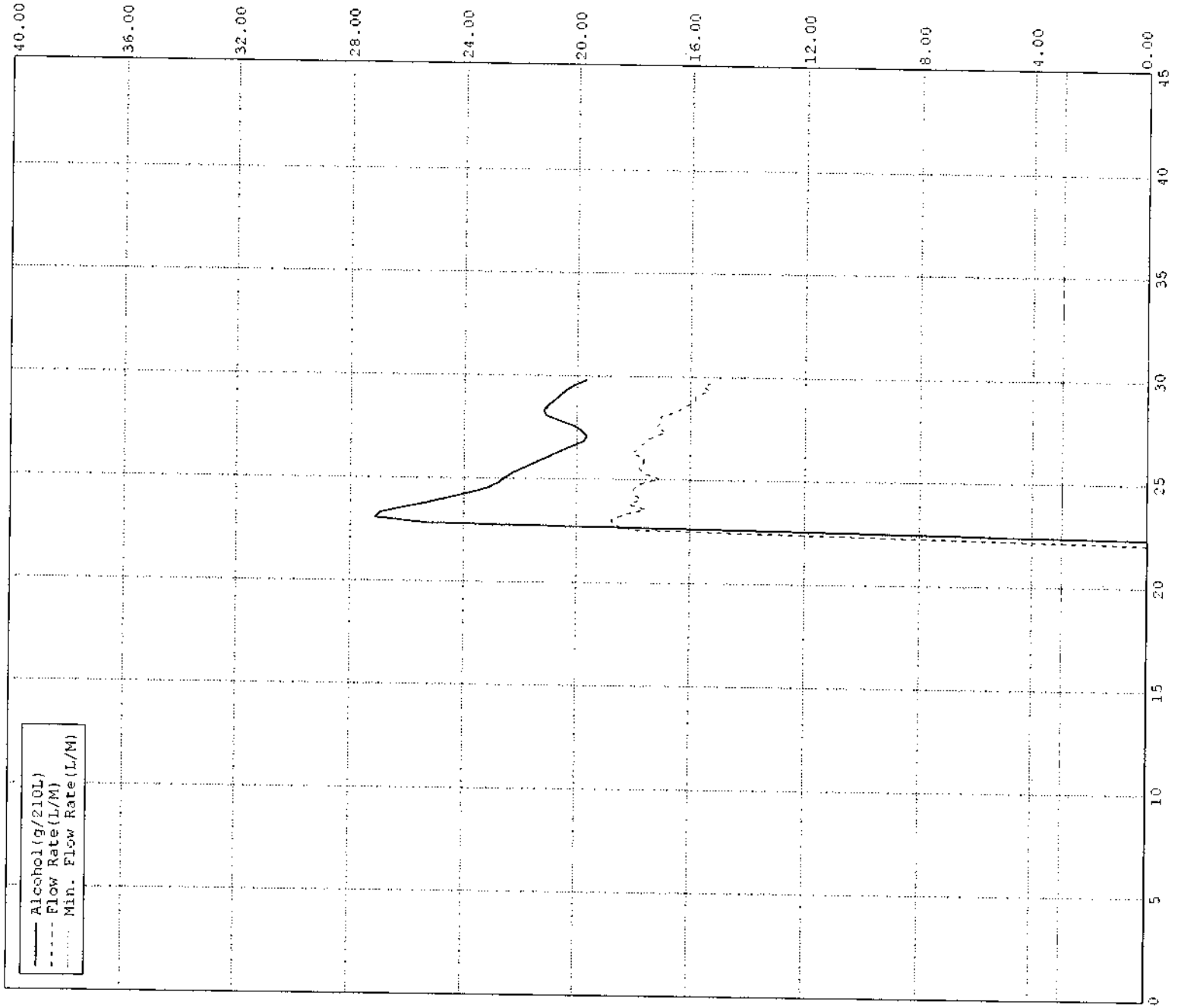
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.13: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:28
INTERNAL STANDARD 0.000 10:28
EXTERNAL STANDARD VERIFIED 10:28
BLANK TEST 0.076 10:29
SUBJECT SAMPLE 0.000 10:30
INVALID 10:30



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 10:43:39

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 16-1234
TEST TYPE: TEST

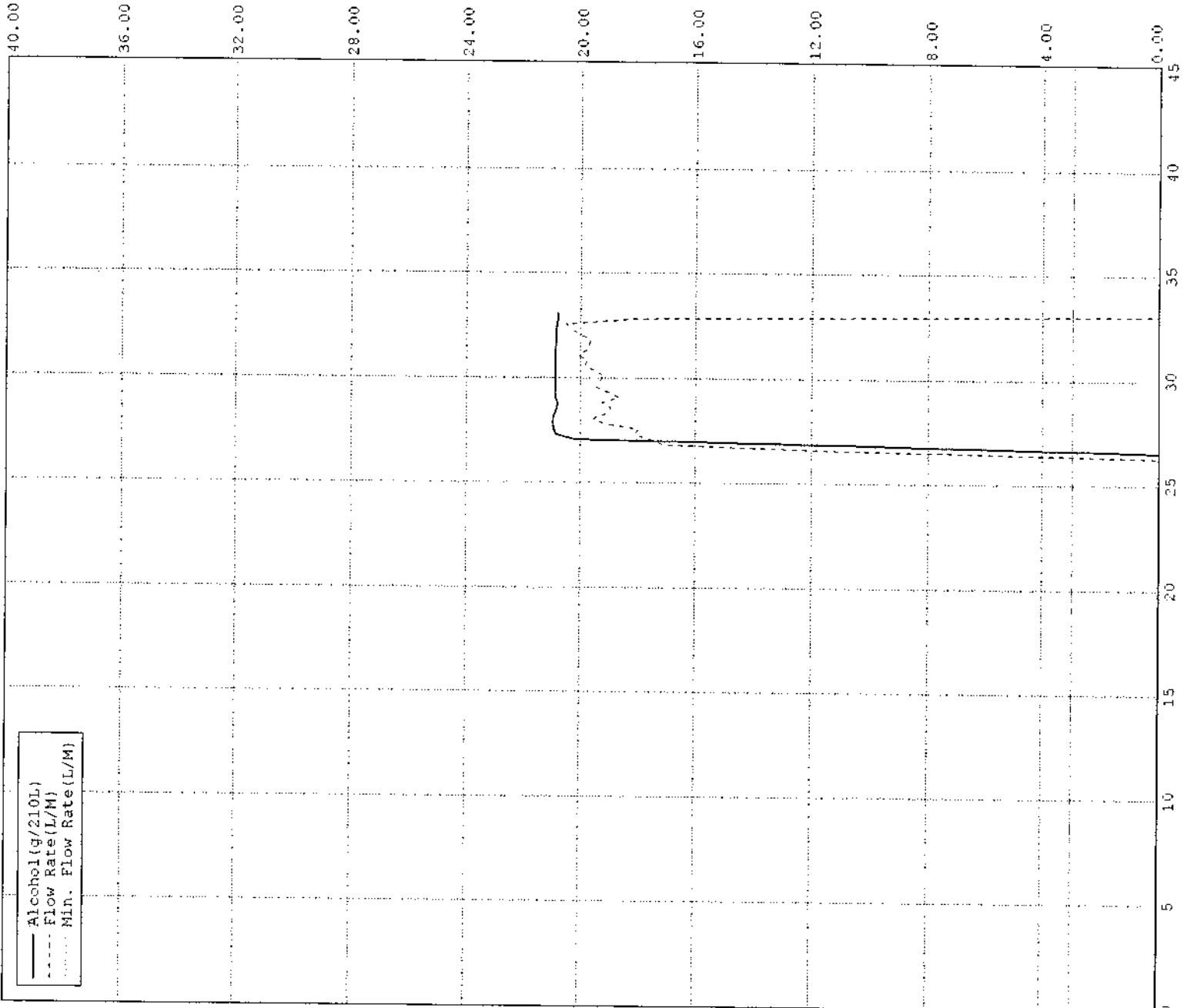
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.13: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:44
BLANK TEST 0.000 10:45
INTERNAL STANDARD VERIFIED 10:45
Xq = 0.084 (1.03%)
EXTERNAL STANDARD 0.077 10:45
X[1] = 0.0771 (0.0012) (0.0031)
BLANK TEST 0.000 10:46
SUBJECT SAMPLE XXX 10:47
X[1] = 0.1032 (-0.0120) (0.0021)

Interference Detected

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 10:49:31

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 16-1234
TEST TYPE: TEST

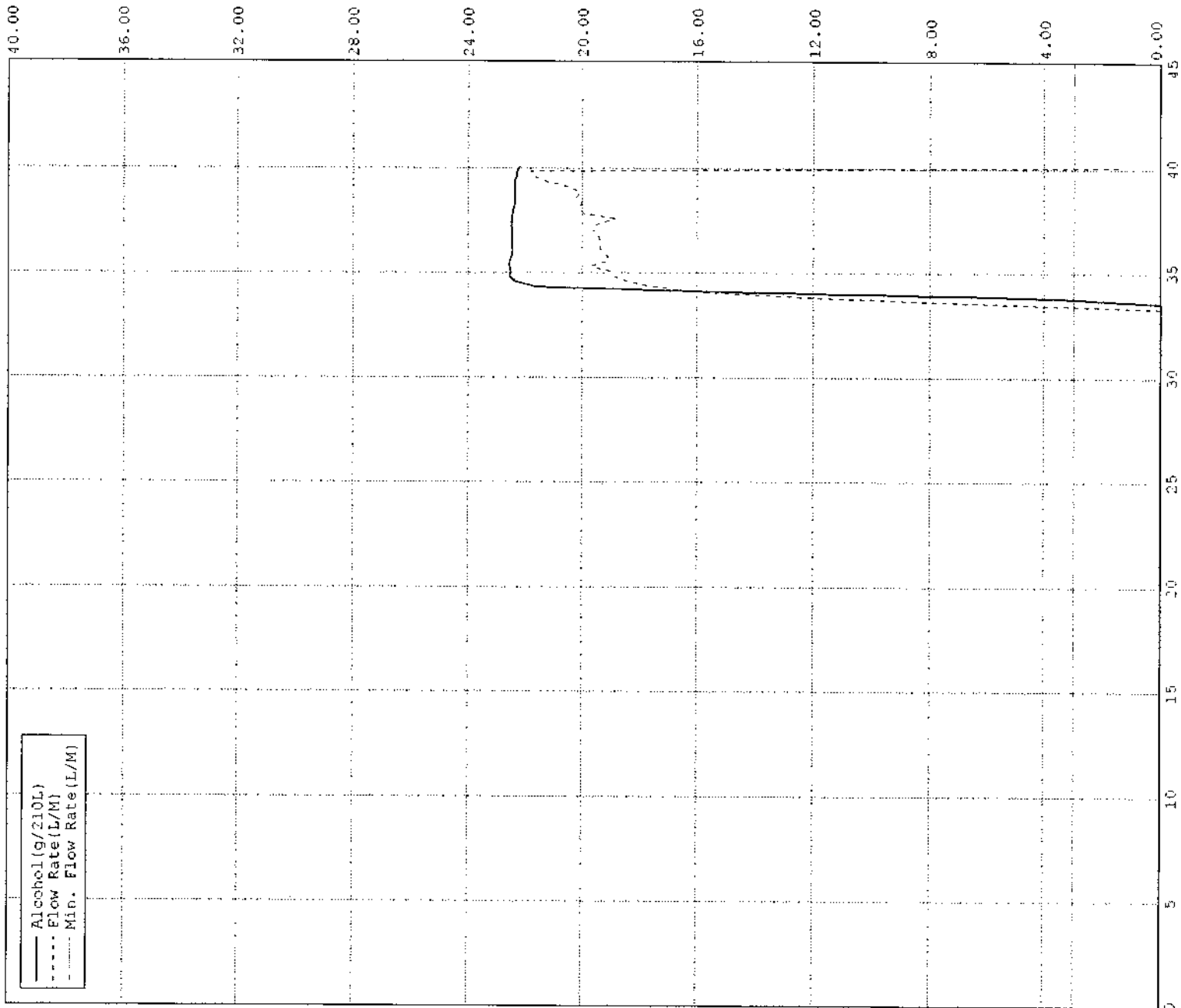
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.13: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	10:50
BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
Xq = 0.083 (2.058)		
EXTERNAL STANDARD	0.077	10:50
X[1] = 0.0766 (0.0008) (0.0021)		
BLANK TEST	0.000	10:51
SUBJECT SAMPLE	XXX	10:52
X[1] = 0.1101 (-0.0234) (0.0013)		

Interference Detected

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 10:56:04

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

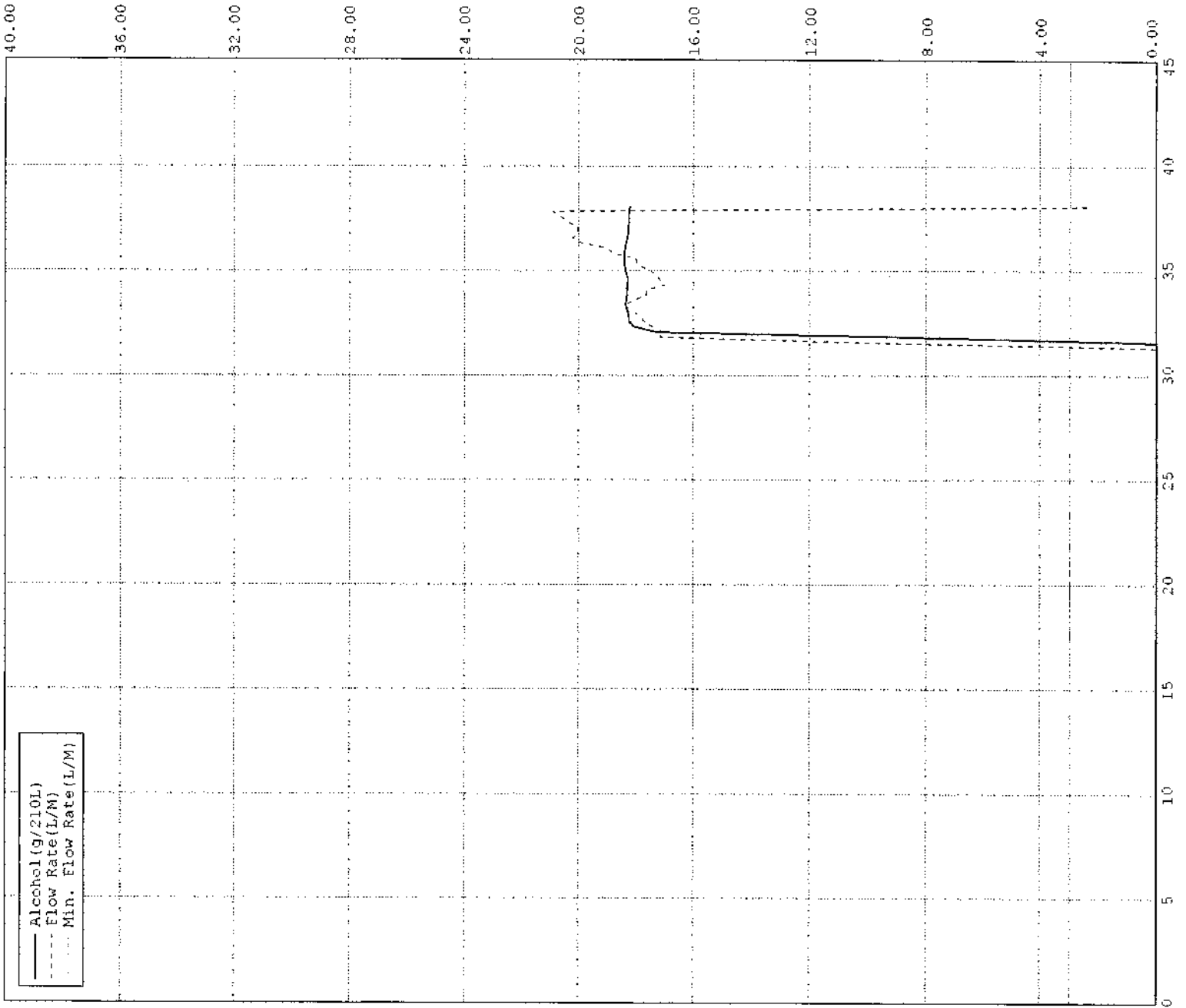
DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.14: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	10:57
BLANK TEST	0.000	10:57
INTERNAL STANDARD	VERIFIED	10:57
$X_q = 0.084$ (1.33%)		
EXTERNAL STANDARD	0.077	10:57
$X\{1\} = 0.0769$ (0.0009)	(0.0026)	
BLANK TEST	0.000	10:58
SUBJECT SAMPLE (Vol=1.97L)	0.090	10:59
$X\{1\} = 0.0904$ (-0.0007)	(0.0006)	
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.077	11:00
$X\{1\} = 0.0768$ (0.0014)	(0.0018)	
BLANK TEST	0.000	11:01

Filter 2 avg = 0.0011
Filter 3 avg = 0.0024

CRS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 11:13:23

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
AAA1

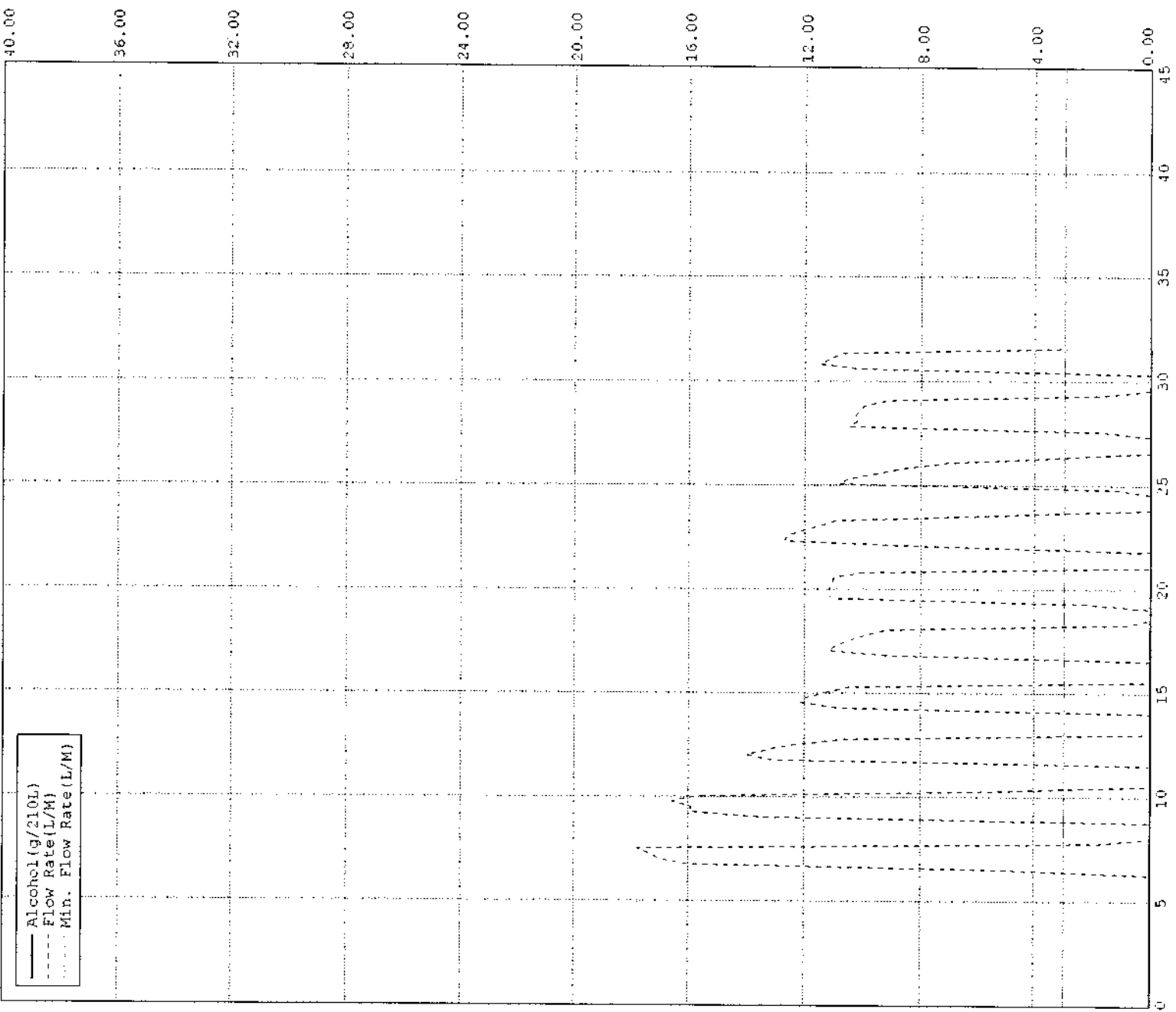
CASE/REPORT: 16-1324
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.13: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 11:16
BLANK TEST 0.000 11:16
INTERNAL STANDARD VERIFIED 11:16
EXTERNAL STANDARD 0.077 11:16
BLANK TEST 0.000 11:17
SUBJECT SAMPLE XXX 11:18

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100675

Date: 01/13/2016
Time: 11:20:19

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

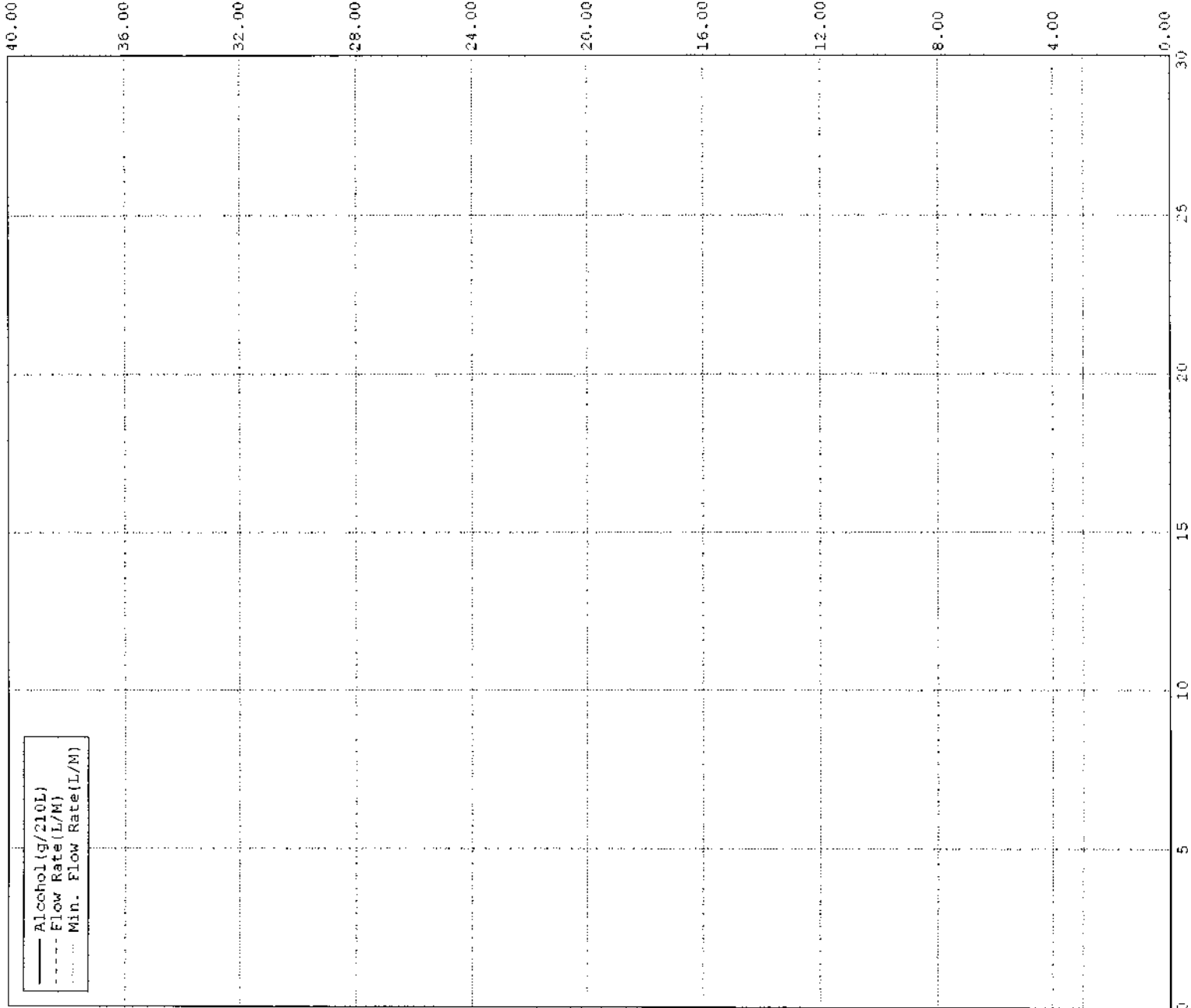
DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1324
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.14: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:21
INTERNAL STANDARD VERIFIED 11:22
EXTERNAL STANDARD 0.077 11:22
BLANK TEST 0.000 11:23

RFI DETECTED

CSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 01/13/2016
Time: 11:36:46

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 16-1324
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.15: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	11:38
BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.077	11:38
BLANK TEST	0.000	11:39
SUBJECT SAMPLE (Vol=2.07L)	0.000	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.077	11:41
BLANK TEST	0.000	11:42

CS

