

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 100398 Analyst Colleen Bryant Start Date 7/13/16

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 Argas Lot AG608504 Exp 3/25/18
- 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 DR0298 Date Calibrated 8/5/15
- vi. 0.300g/210L Mnf Guth Lot 15170 Exp 7/20/17
 - 1. Simulator S/N SD1188 Date Calibrated 8/5/15

5. Functional Tests (attached)

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

i. Acetone - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N SD1199 Date Calibrated 8/5/15

ii. Isopropanol - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N SD1177 Date Calibrated 8/5/15

iii. Negative Control - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N DR4161 Date Calibrated 8/5/15

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 7/14/16

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/13/2016
Time: 13:15:31

VERSIONS

DMT: 3.02
PIC: 3.02
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 = 1.79 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.79 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 535 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 4.646 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 PASSED

Xq = 0.095 (0.37%) (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100398

Date: 07/13/2016
Time: 2:07 PM

Temperatures (°C)

Sample Cell: 49.0°C
Breath Tube: 48.0°C

Current Barometer 30.0 in
Volume (Ltr) 1.53

Settings

Lamp: 1.82 V
Bias: 80 V
Cooler: 1.79 V
Chopper: 535 Hz

Voltages (V)

Flow: 1.02 V
Detector: 0.061 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 05/01/2015
Time: 10:32:08

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca = 0.1000
CAL = 0.977715 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0078 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0952 0.0500 <= Xq < 0.2000
a21 = 1.238166 1.050 <= a21 < 1.300
a31 = 0.474955 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/13/2016
Time: 14:09:59

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

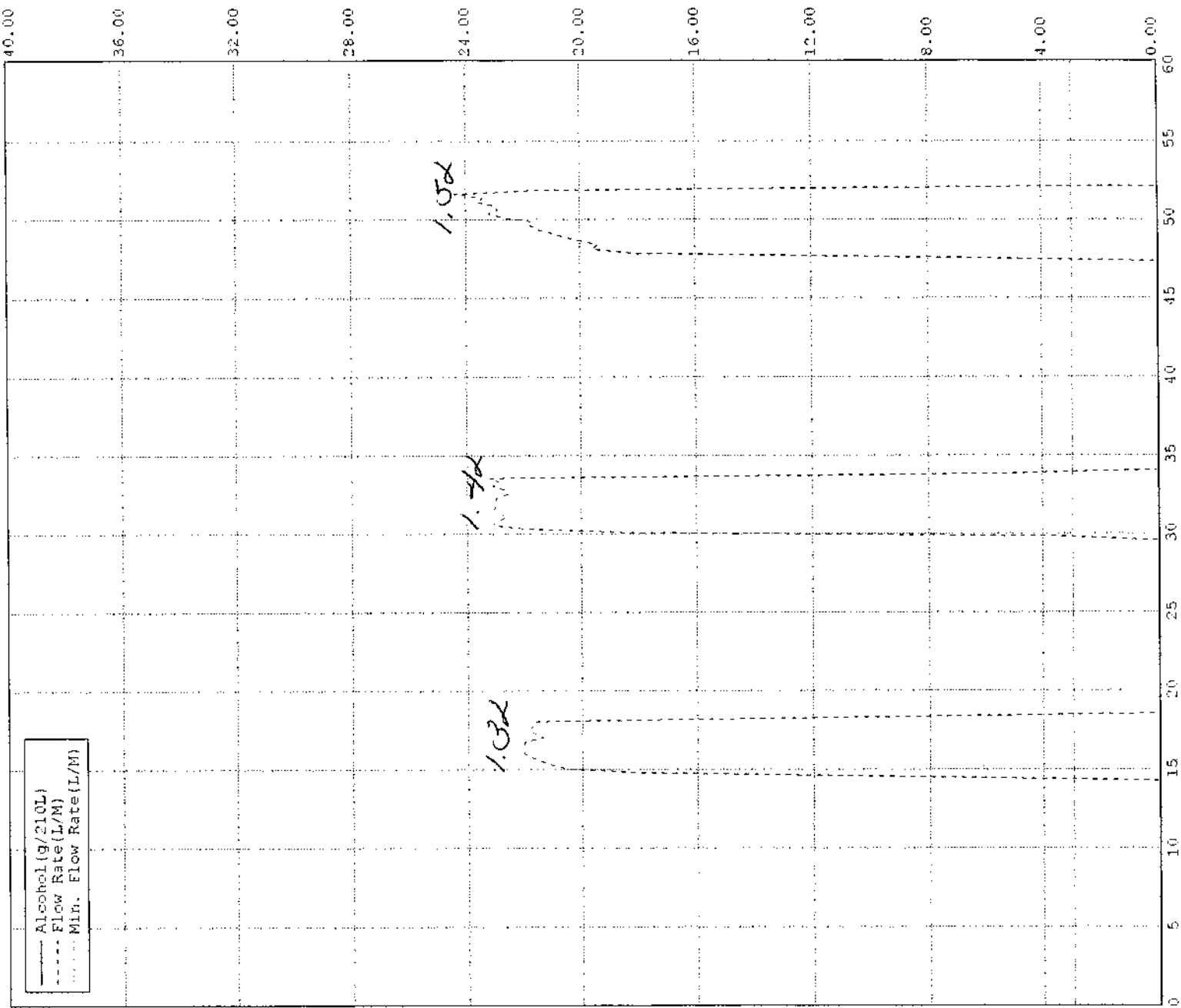
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:11
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
INTERNAL STANDARD	0.078	14:11
BLANK TEST	0.000	14:12
SUBJECT SAMPLE (Vol=1.57L)	0.000	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.079	14:14
BLANK TEST	0.000	14:15



LINEARITY CHECK

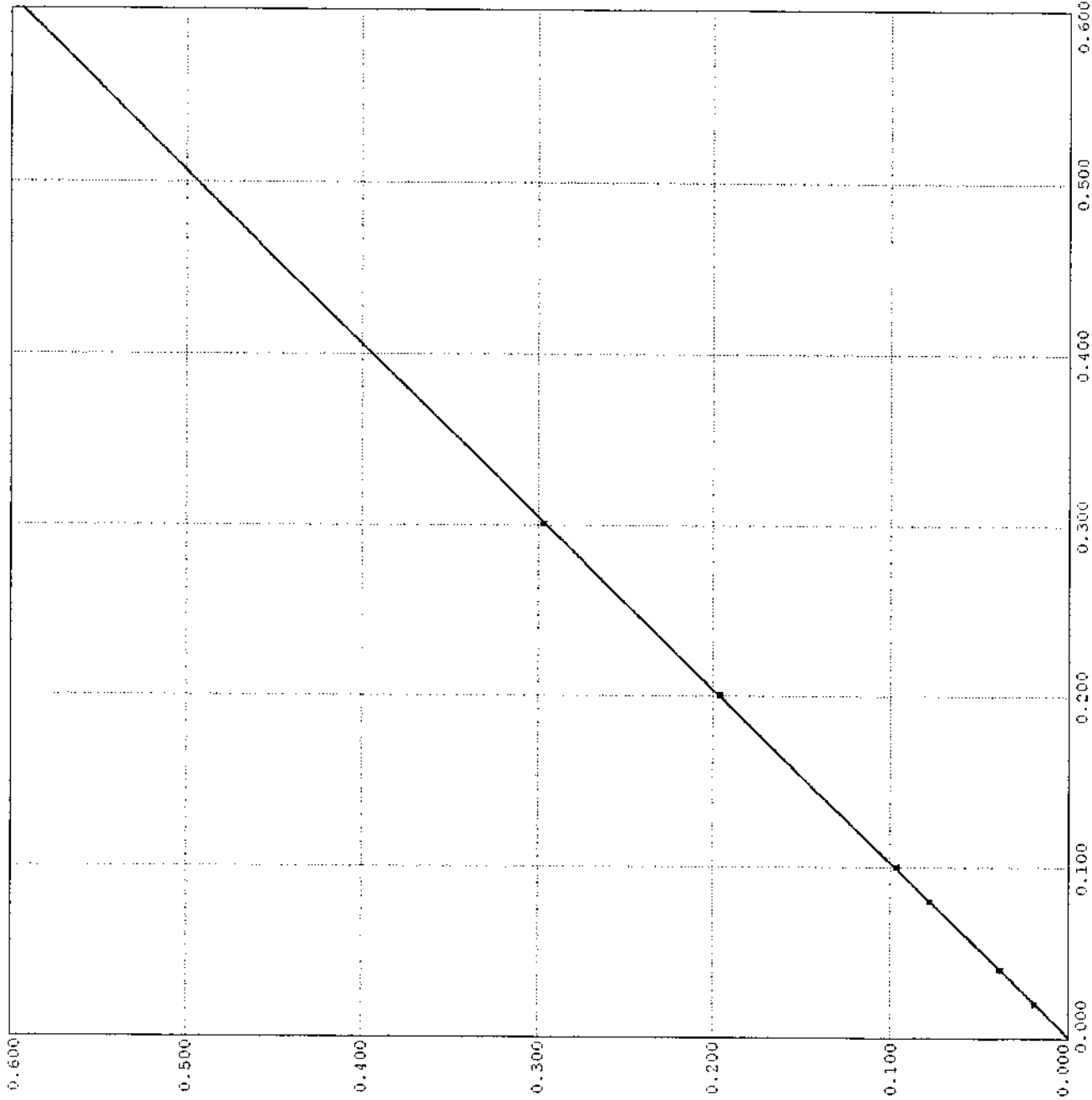
Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/13/2016
Time: 14:44:26

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0394	0.0005
0.080	0.0790	0.0000
0.100	0.0974	0.0005
0.200	0.1968	0.0004
0.300	0.2974	0.0005

SLOPE = 0.990362
R² = 0.999944



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

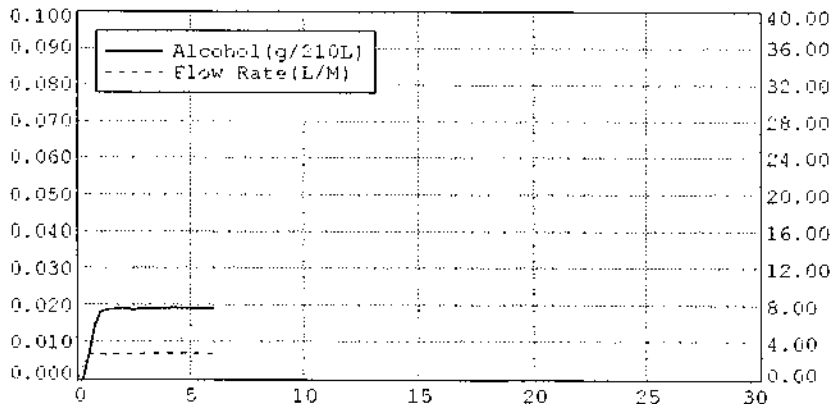
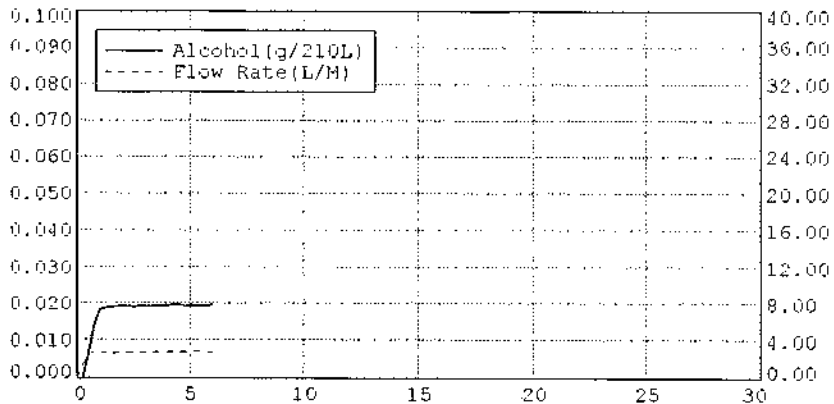
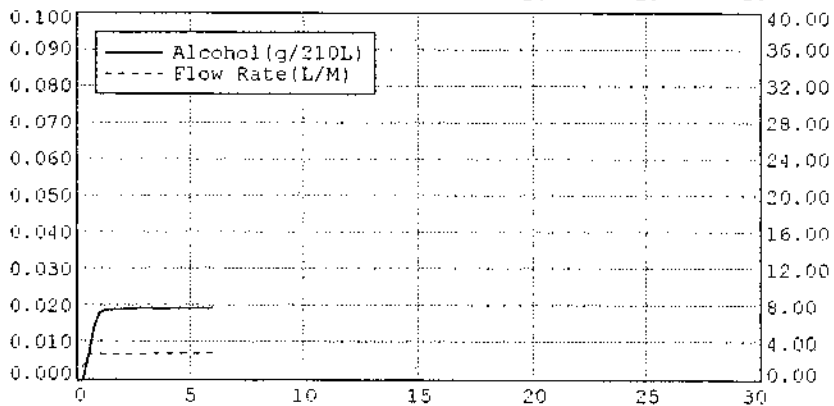
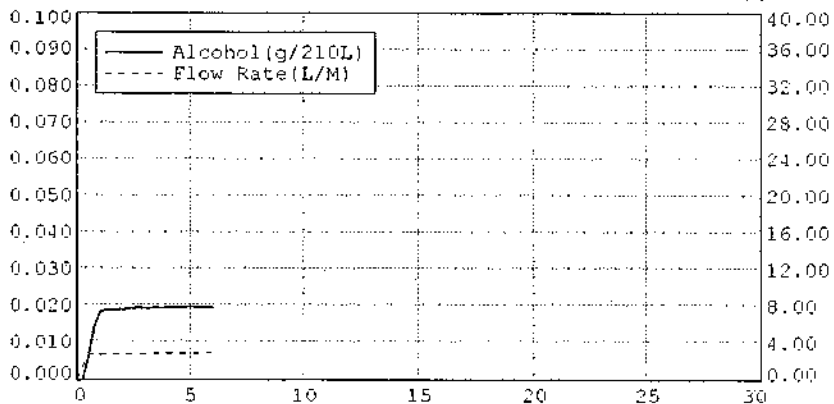
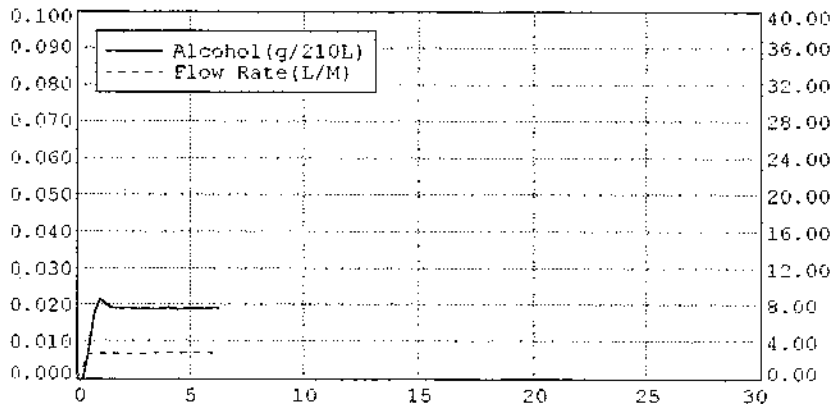
Date: 07/13/2016
 Time: 14:44:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.96: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 810 psi

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
EXTERNAL STANDARD	0.020	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.020	14:47
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.020	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.020	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.020	14:50
BLANK TEST	0.000	14:51

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

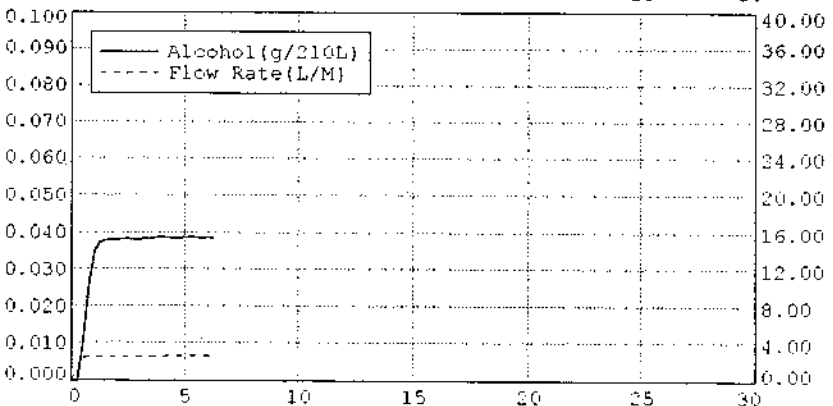
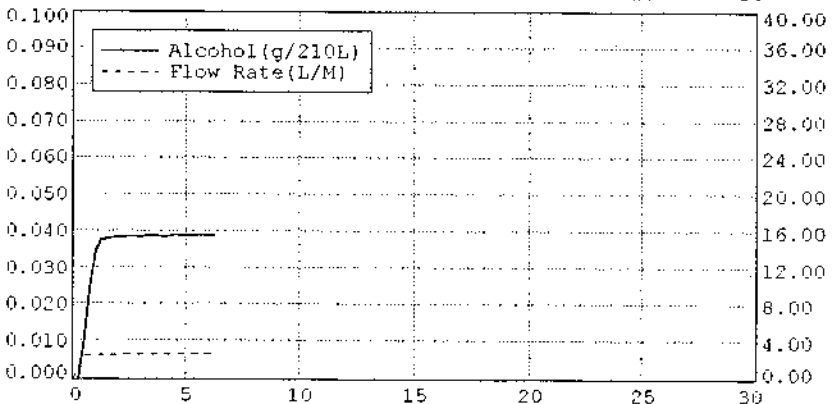
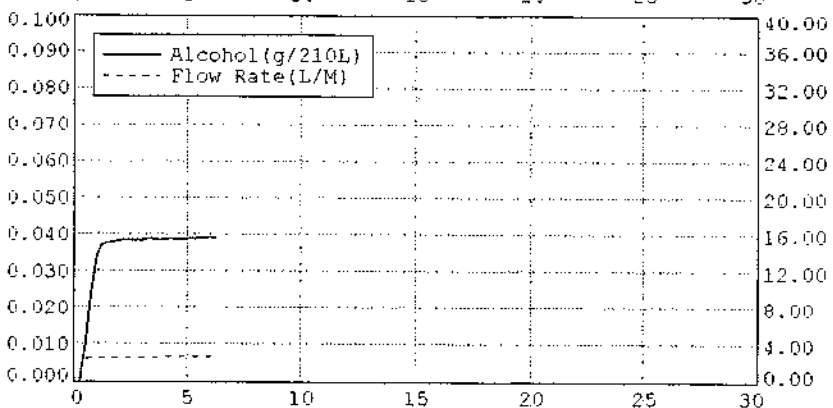
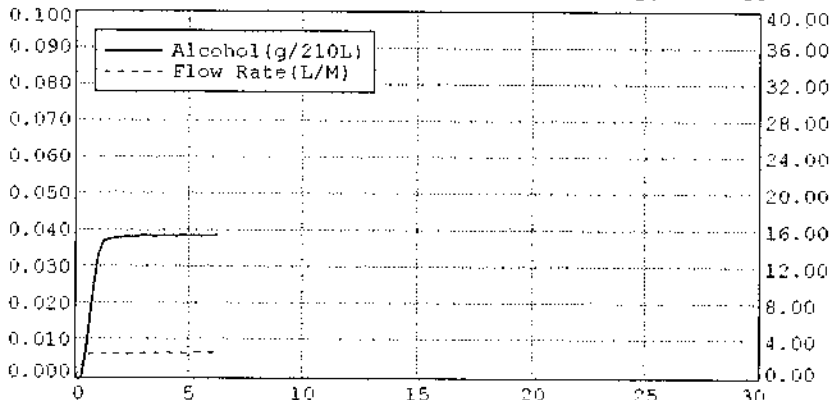
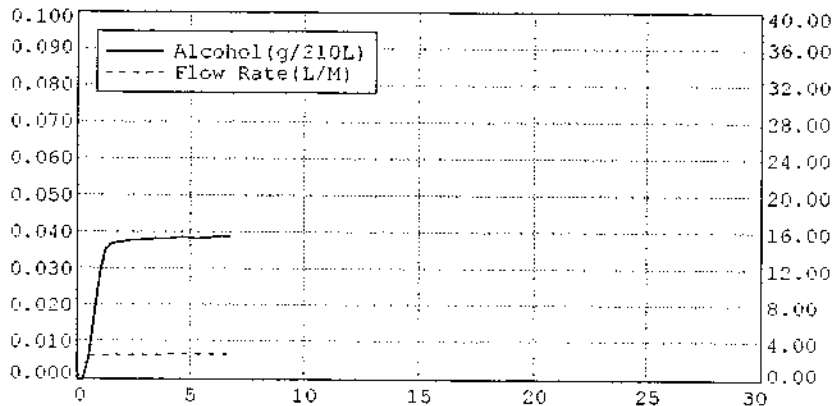
Date: 07/13/2016
 Time: 14:52:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.96: 0.040
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 275 psi

BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.039	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.039	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.040	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.040	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.039	14:58
BLANK TEST	0.000	14:58

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

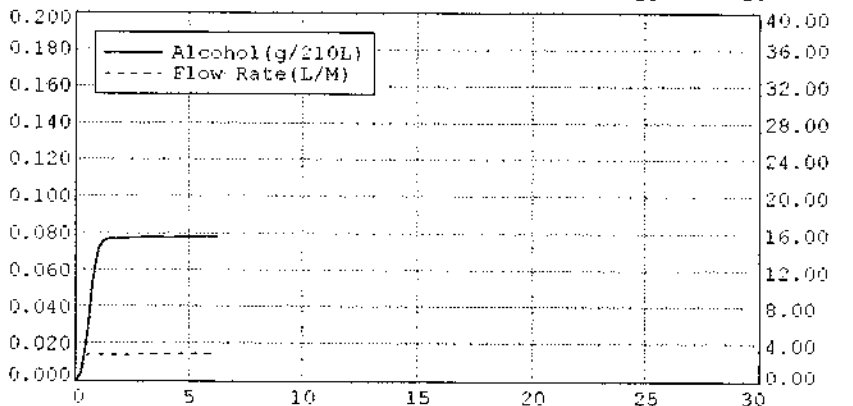
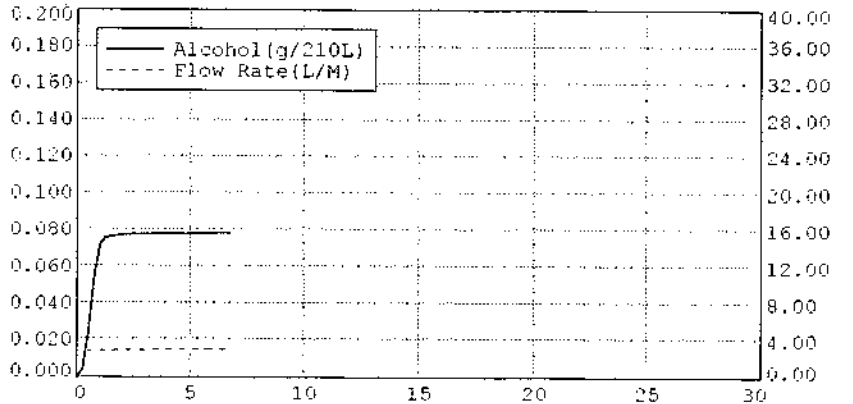
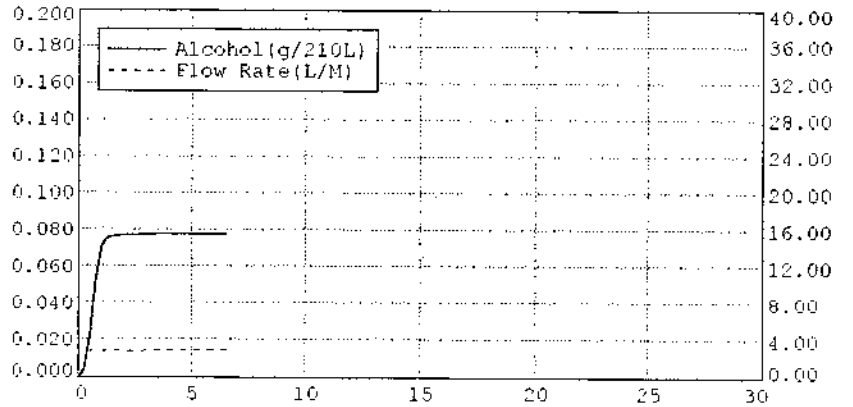
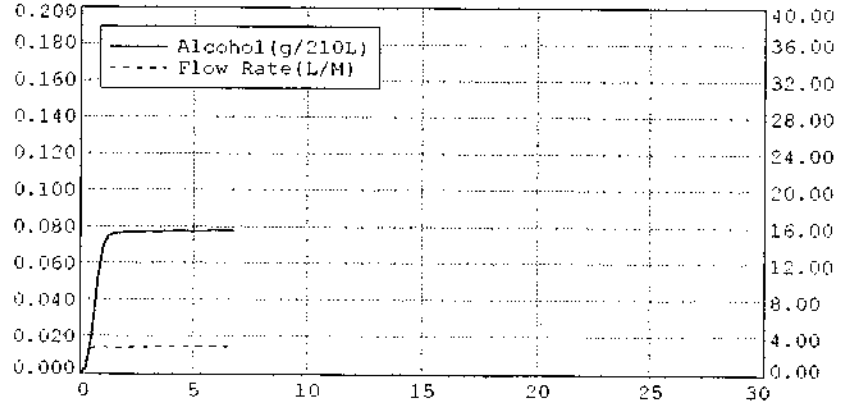
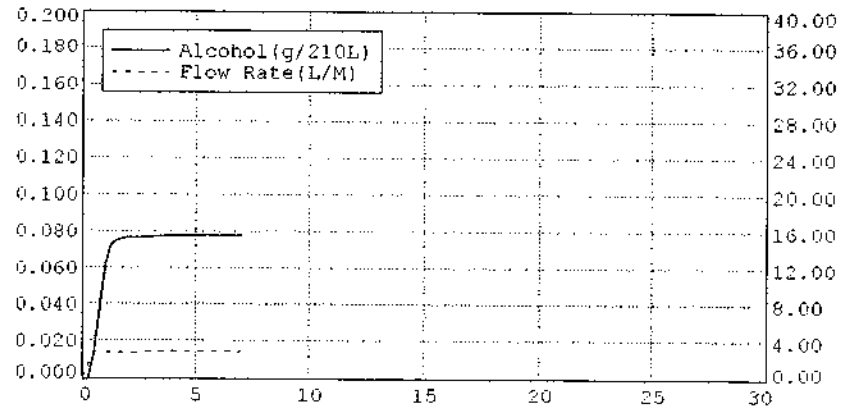
Date: 07/13/2016
 Time: 14:59:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 949 psi

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.079	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.079	15:02
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.079	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.079	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.079	15:05
BLANK TEST	0.000	15:06

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

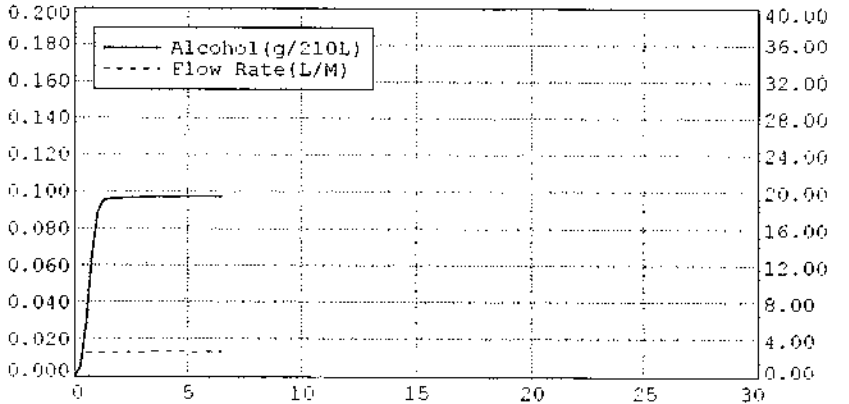
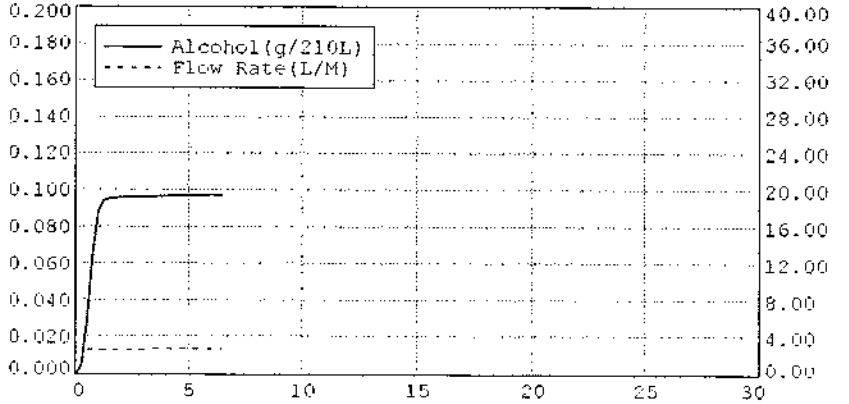
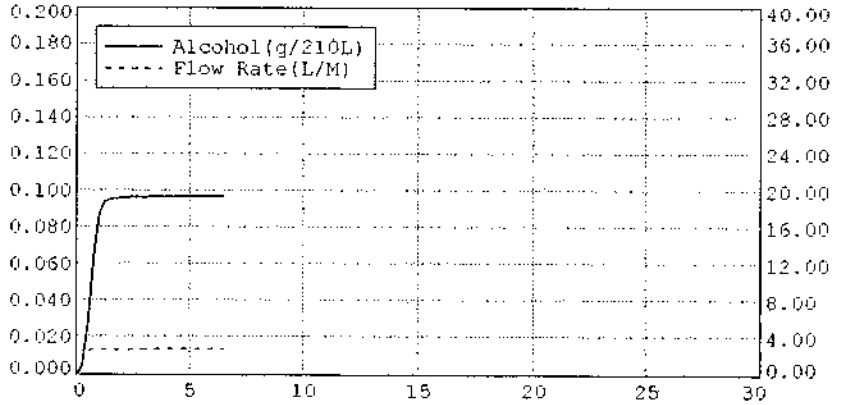
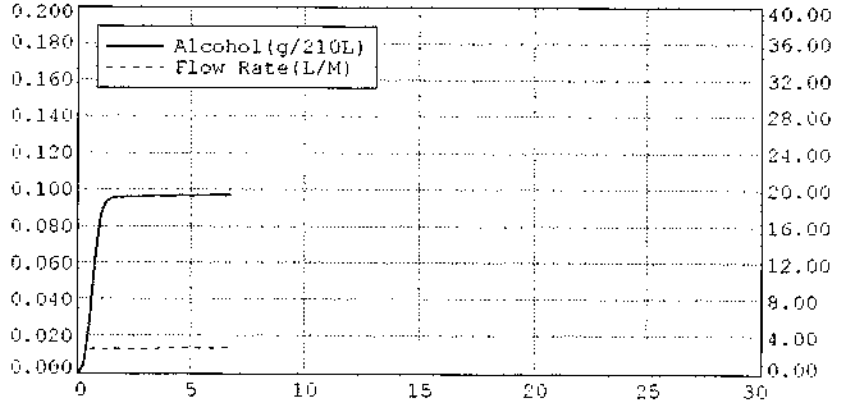
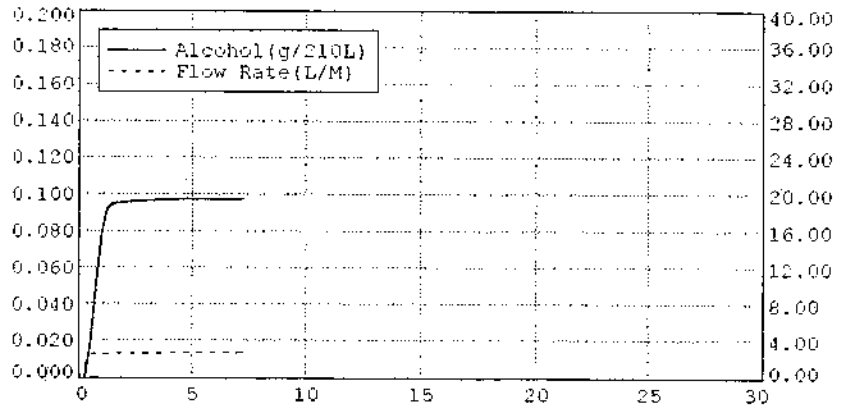
Date: 07/13/2016
 Time: 15:07:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.95: 0.100
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 537 psi

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.098	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.097	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.097	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.097	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.098	15:13
BLANK TEST	0.000	15:14

Average = 0.0974
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

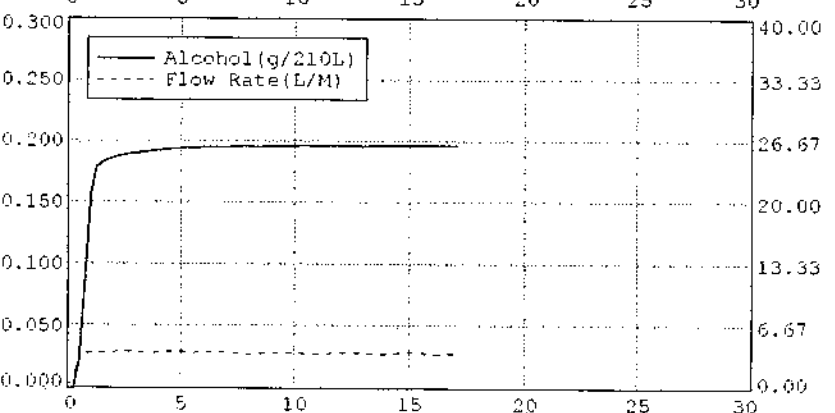
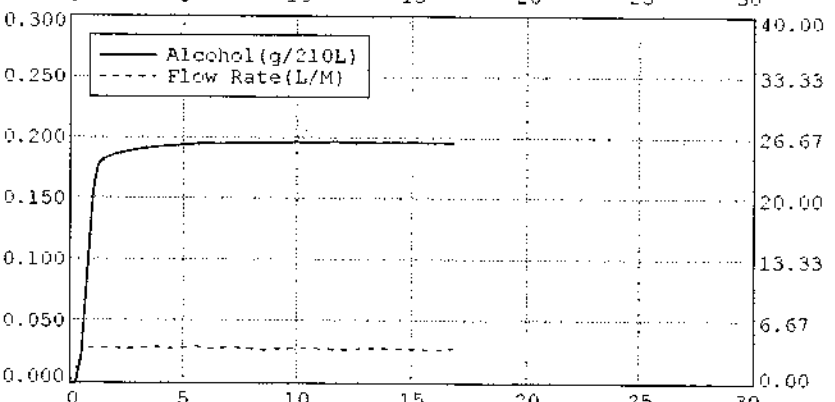
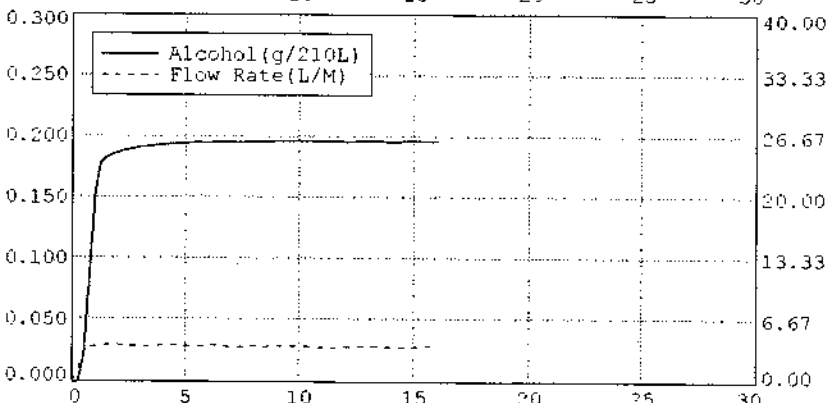
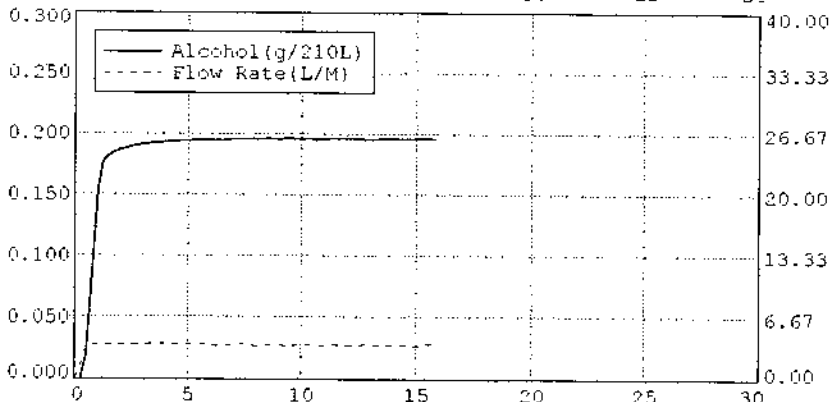
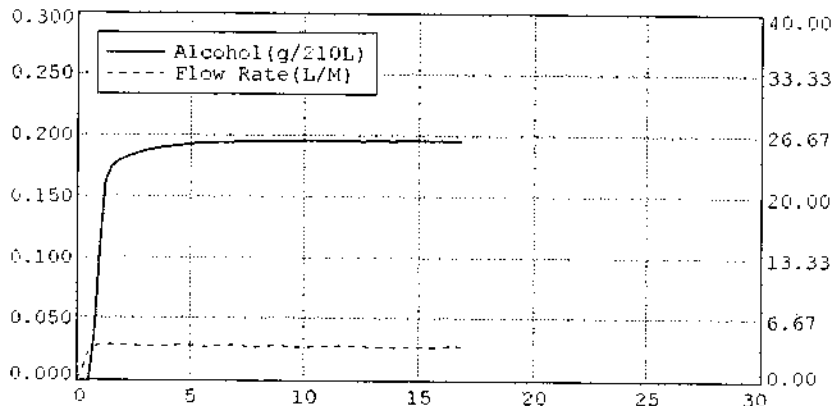
Date: 07/13/2016
 Time: 15:16:03

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.196	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.197	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.197	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.197	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.197	15:23
BLANK TEST	0.000	15:24

Average = 0.1968
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

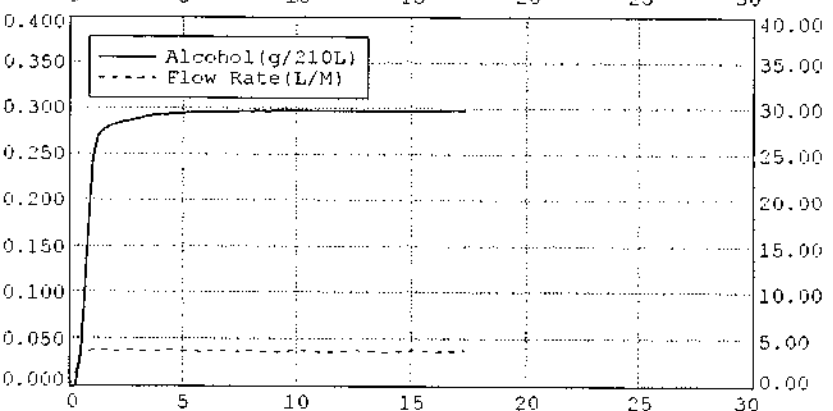
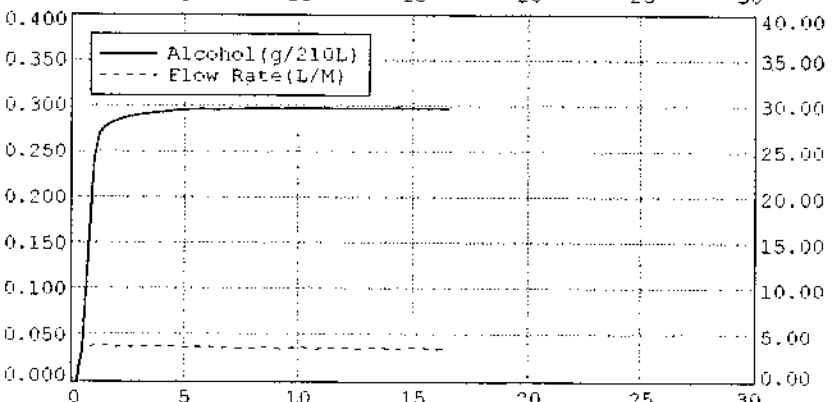
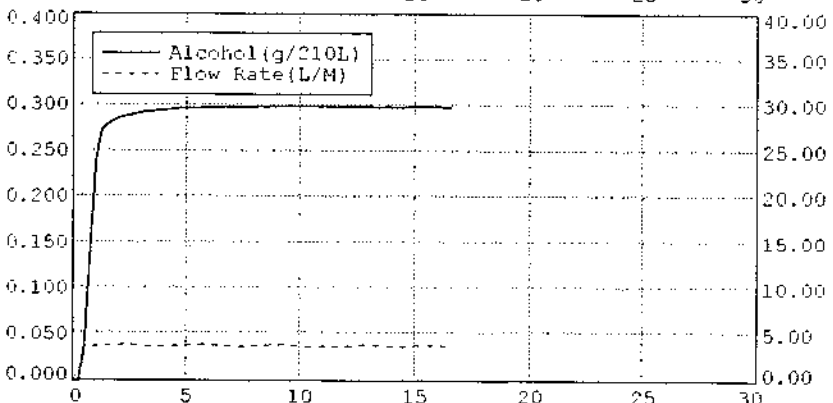
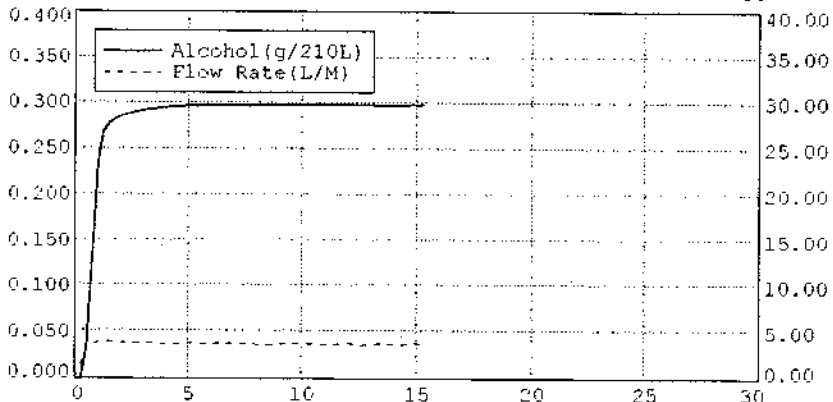
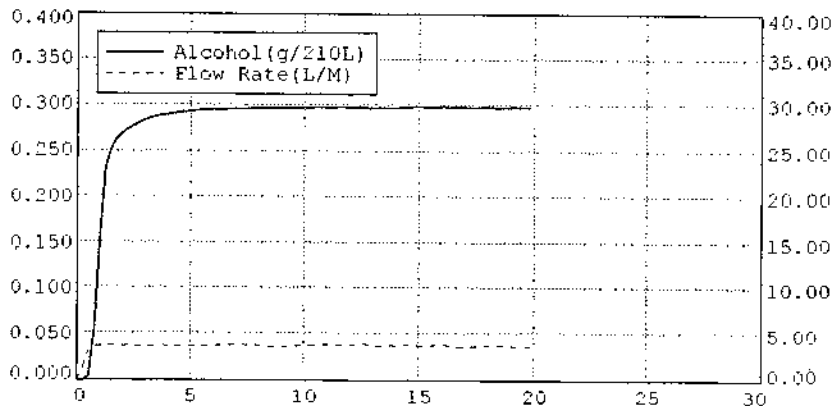
Date: 07/13/2016
 Time: 15:25:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 15170
 EXPIRATION: 07/20/2017

BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.297	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.297	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.298	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.297	15:31
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.298	15:32
BLANK TEST	0.000	15:33

Average = 0.2974
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 07:43:52

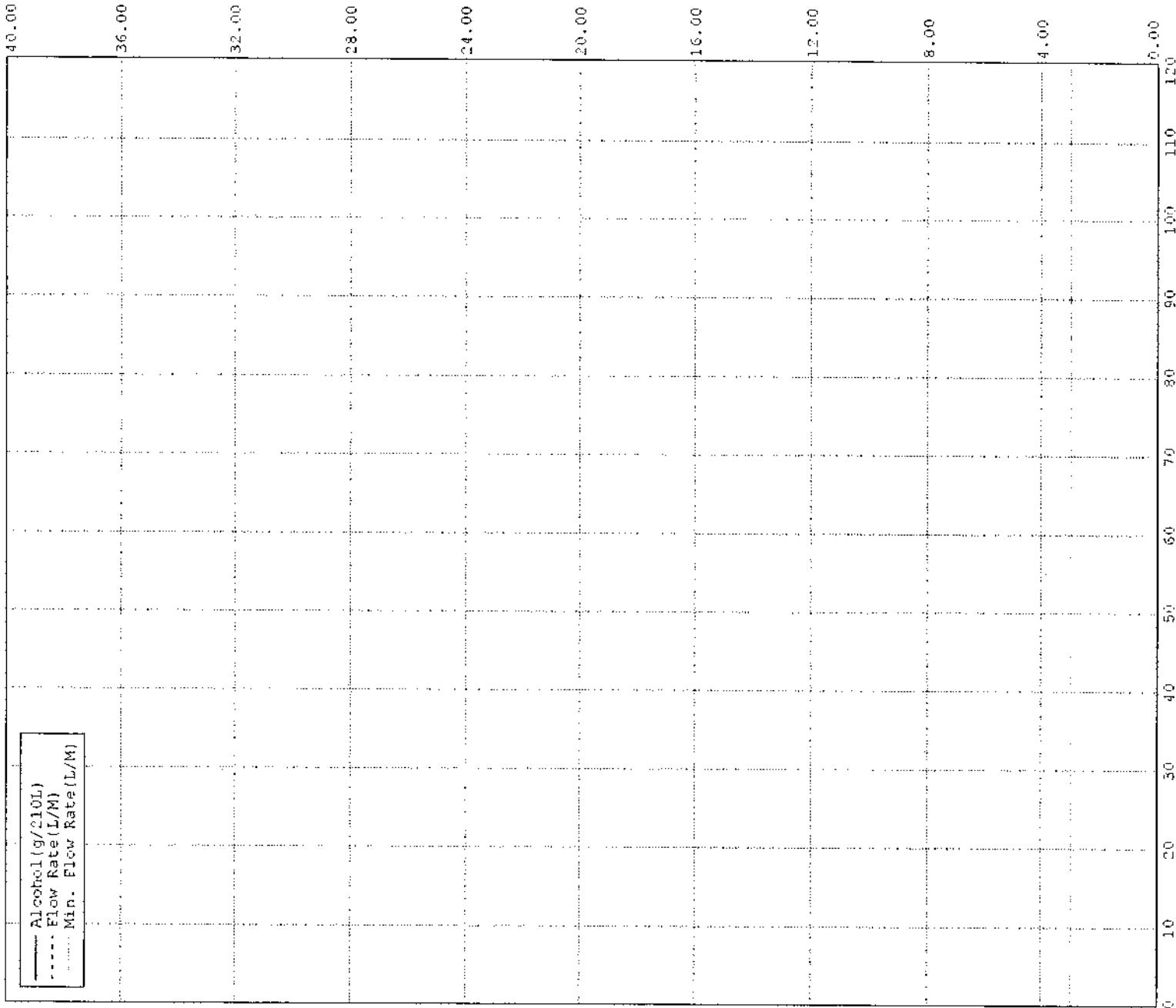
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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 30.12: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 07:45
BLANK TEST 0.000 07:45
INTERNAL STANDARD VERIFIED 07:45
EXTERNAL STANDARD 0.079 07:45
BLANK TEST 0.000 07:46
SUBJECT SAMPLE INCOMPLETE 07:48



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 07:50:25

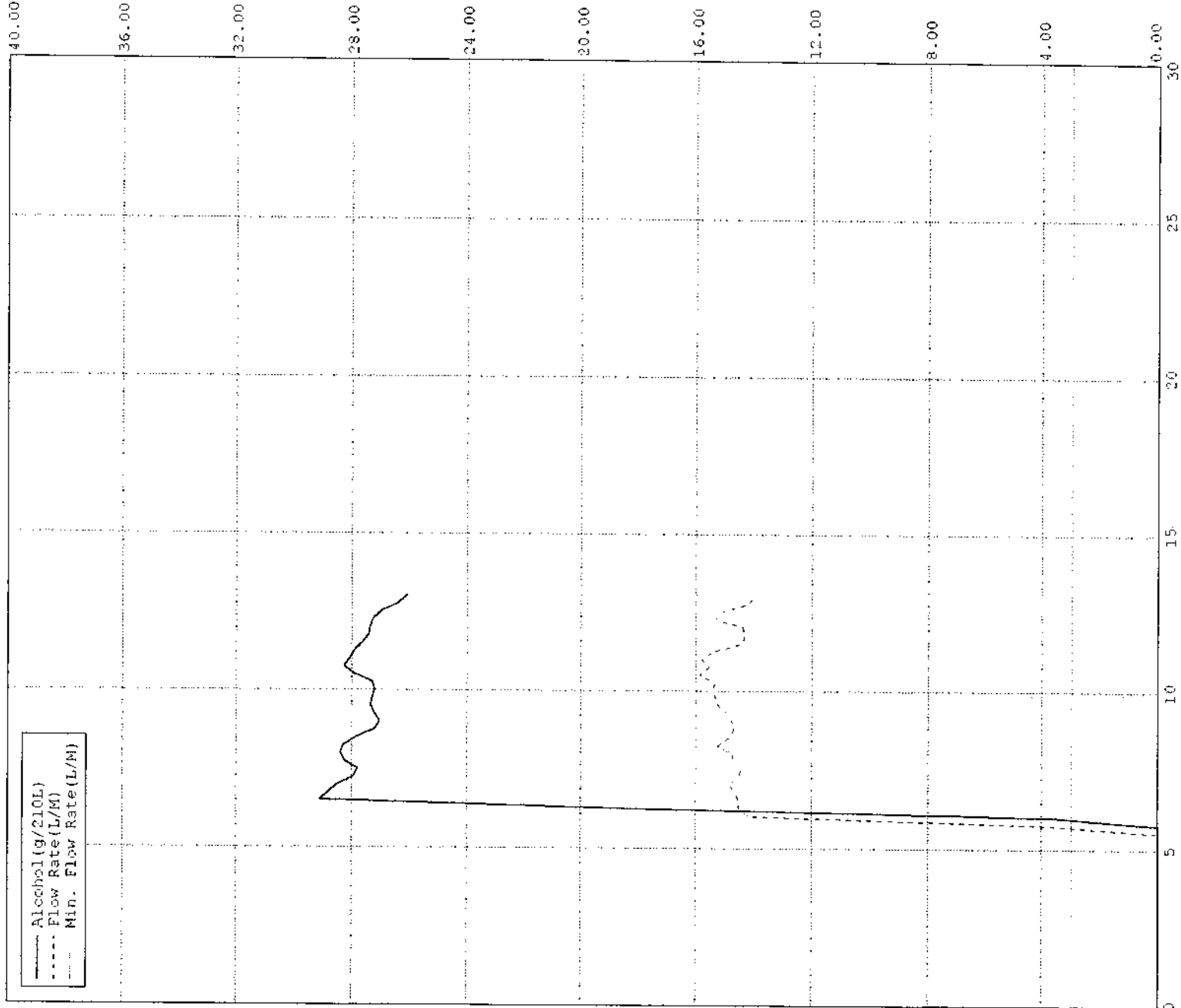
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.11: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 07:51
BLANK TEST 0.000 07:51
INTERNAL STANDARD VERIFIED 07:51
EXTERNAL STANDARD 0.079 07:51
BLANK TEST 0.000 07:52
SUBJECT SAMPLE INVALID 07:53



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 07:56:13

SUBJECT NAME:
TEST TEST
LICENSE #: ACETONE -INT

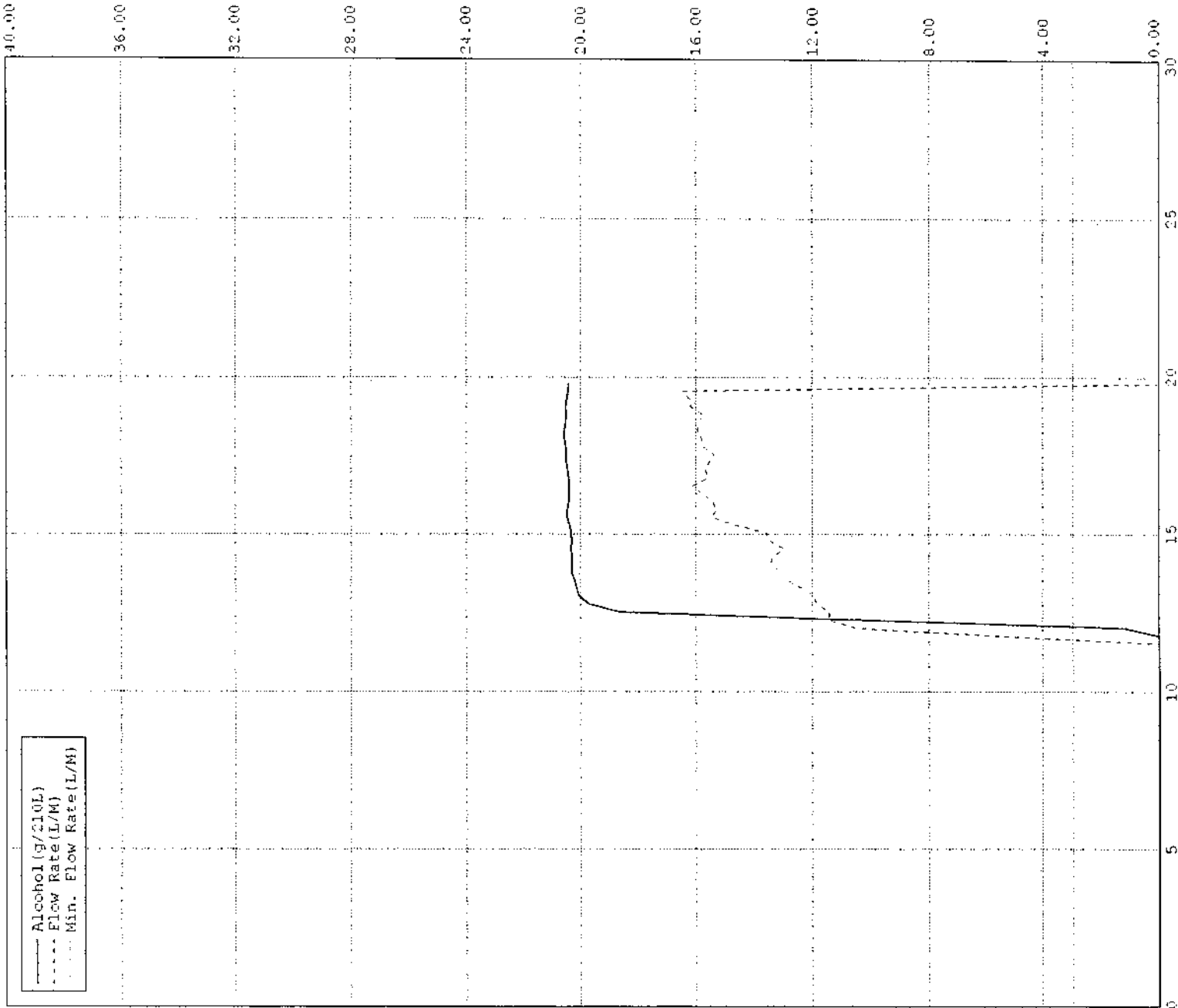
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.12: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 07:57
BLANK TEST 0.000 07:57
INTERNAL STANDARD VERIFIED 07:57
Xg = 0.095 (0.09%)
EXTERNAL STANDARD 0.079 07:58
X[1] = 0.0789 (-0.0012) (0.0021)
BLANK TEST 0.000 07:58
SUBJECT SAMPLE XXX 07:59
X[1] = 0.1025 (-0.0171) (-0.0009)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 08:02:28

SUBJECT NAME:
TEST TEST
LICENSE #: IPA - INT

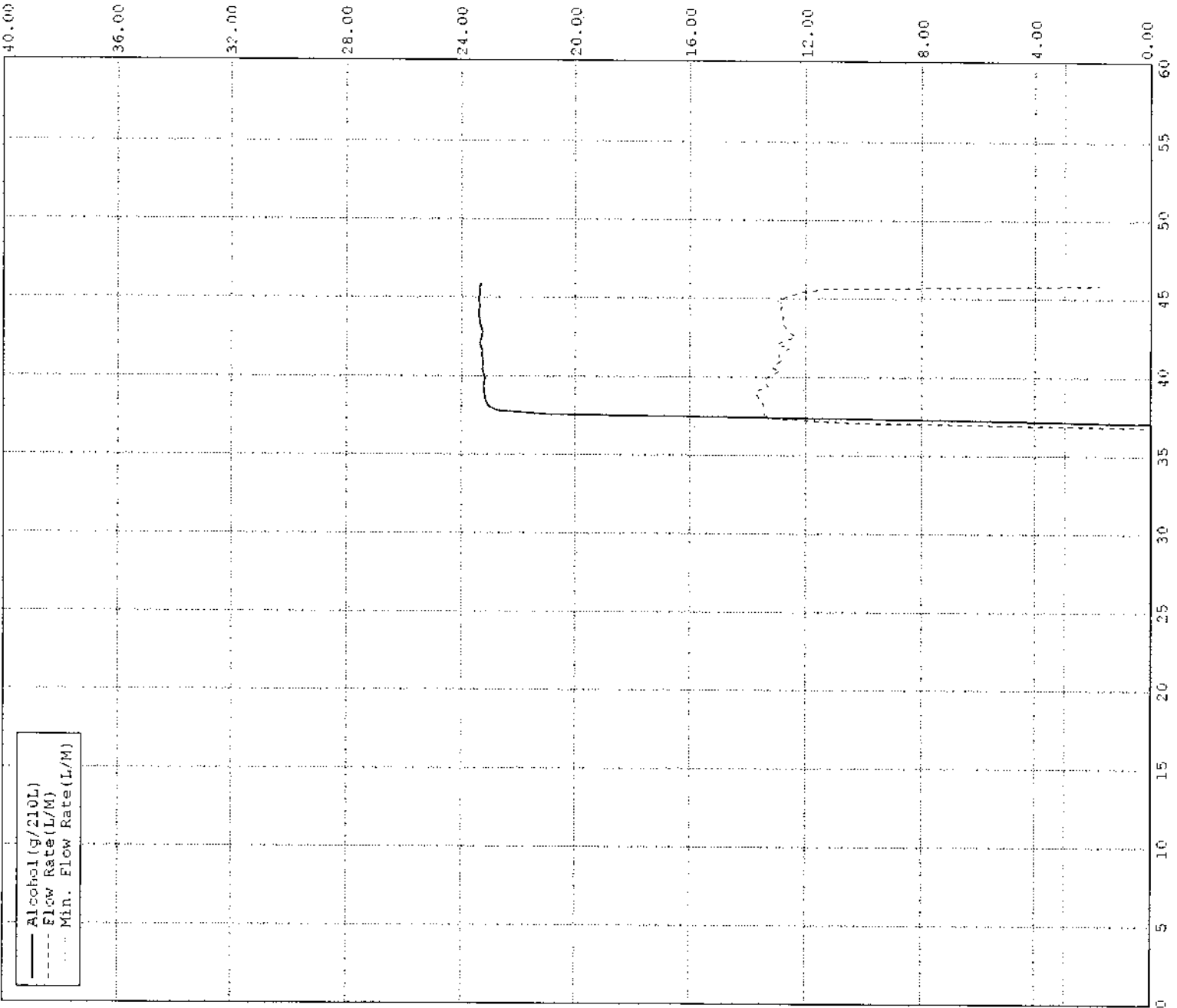
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.11: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	08:04
BLANK TEST	0.000	08:04
INTERNAL STANDARD	VERIFIED	08:04
Xq = 0.095 (0.46%)		
EXTERNAL STANDARD	0.079	08:04
X[1] = 0.0785 (-0.0010)	(0.0018)	
BLANK TEST	0.000	08:05
SUBJECT SAMPLE	XXX	08:06
X[1] = 0.1170 (-0.0238)	(0.0015)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 08:10:03

SUBJECT NAME:
TEST TEST
LICENSE #: NEGATIVE INT

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

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

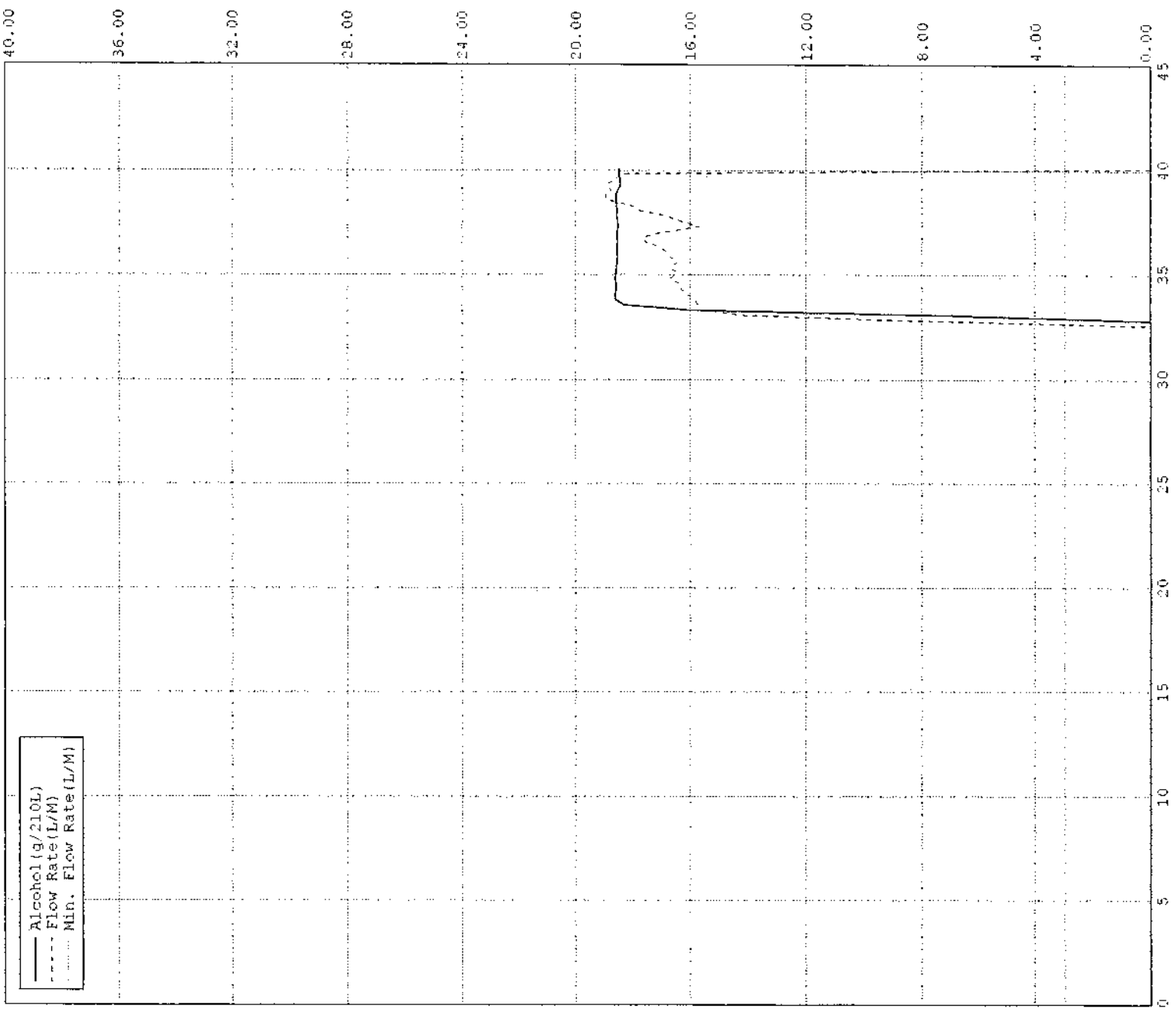
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.12: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

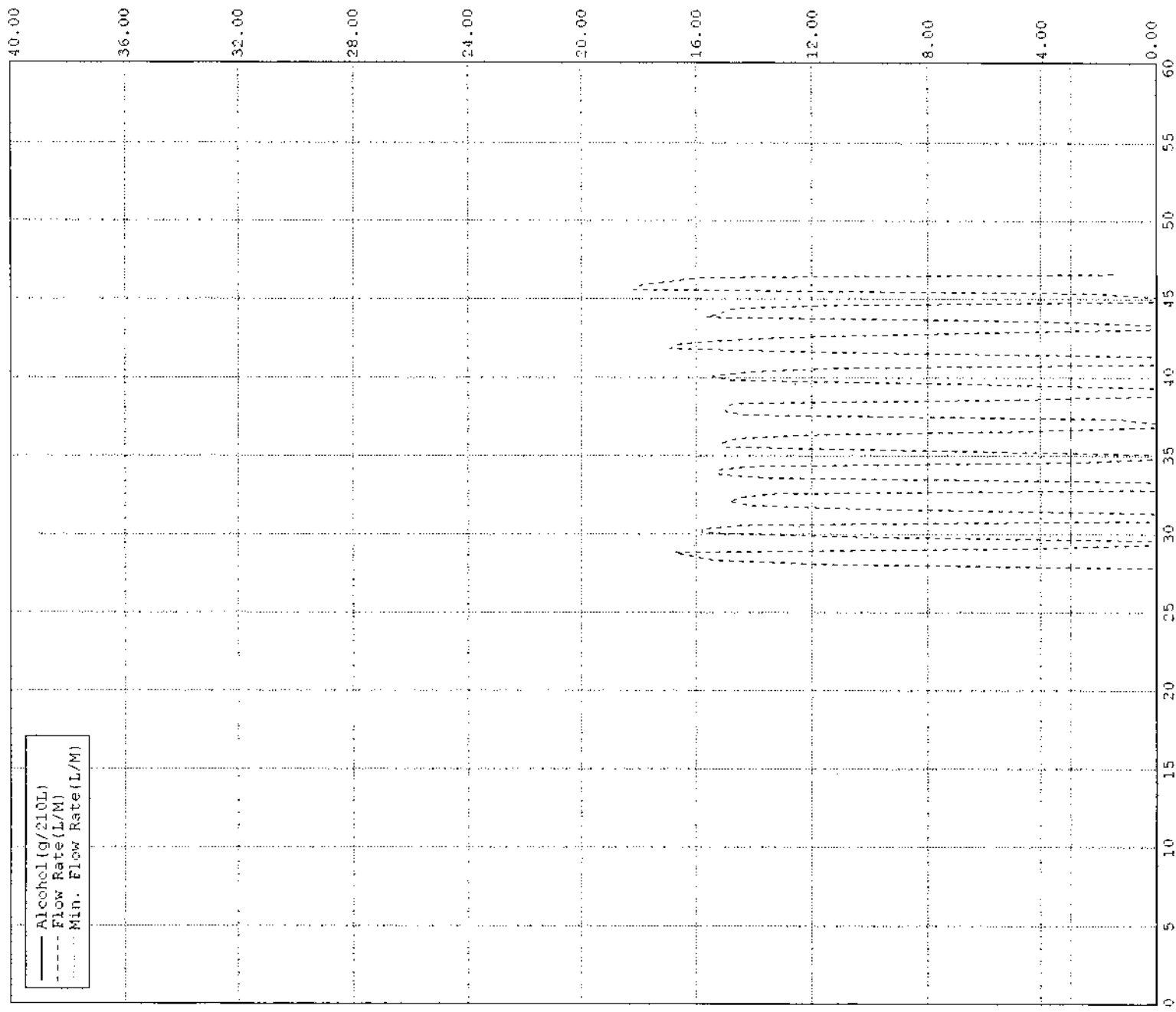
DIAGNOSTIC CHECK	PASSED	08:11
INTERNAL STANDARD	0.000	08:11
INTERNAL STANDARD	VERIFIED	08:11
EXTERNAL STANDARD	Xq = 0.095 (0.00%)	0.079 08:11
EXTERNAL STANDARD	X[1] = 0.0788 (-0.0002) (0.0018)	0.000 08:12
BLANK TEST	SUBJECT SAMPLE (Vol=2.02L)	0.092 08:13
BLANK TEST	X[1] = 0.0924 (0.0025) (0.0005)	0.000 08:14
EXTERNAL STANDARD	0.000	0.079 08:14
EXTERNAL STANDARD	X[1] = 0.0790 (0.0001) (0.0018)	0.000 08:15
BLANK TEST	0.000	08:15

3 cos #14/16
Filter avg = 0.0019

cos #14/16
Filter avg = 0.0006

CLP





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100398

 Date: 07/14/2016
 Time: 08:20:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
 AAAA

CASE/REPORT: 16-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.11: 0.081
 LOT #: AG608504
 EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 08:22
 BLANK TEST 0.000 08:22
 INTERNAL STANDARD VERIFIED 08:22
 EXTERNAL STANDARD 0.079 08:22
 BLANK TEST 0.000 08:23
 SUBJECT SAMPLE XXX 08:24

Maximum Attempts Exceeded

CSB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 08:26:55

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

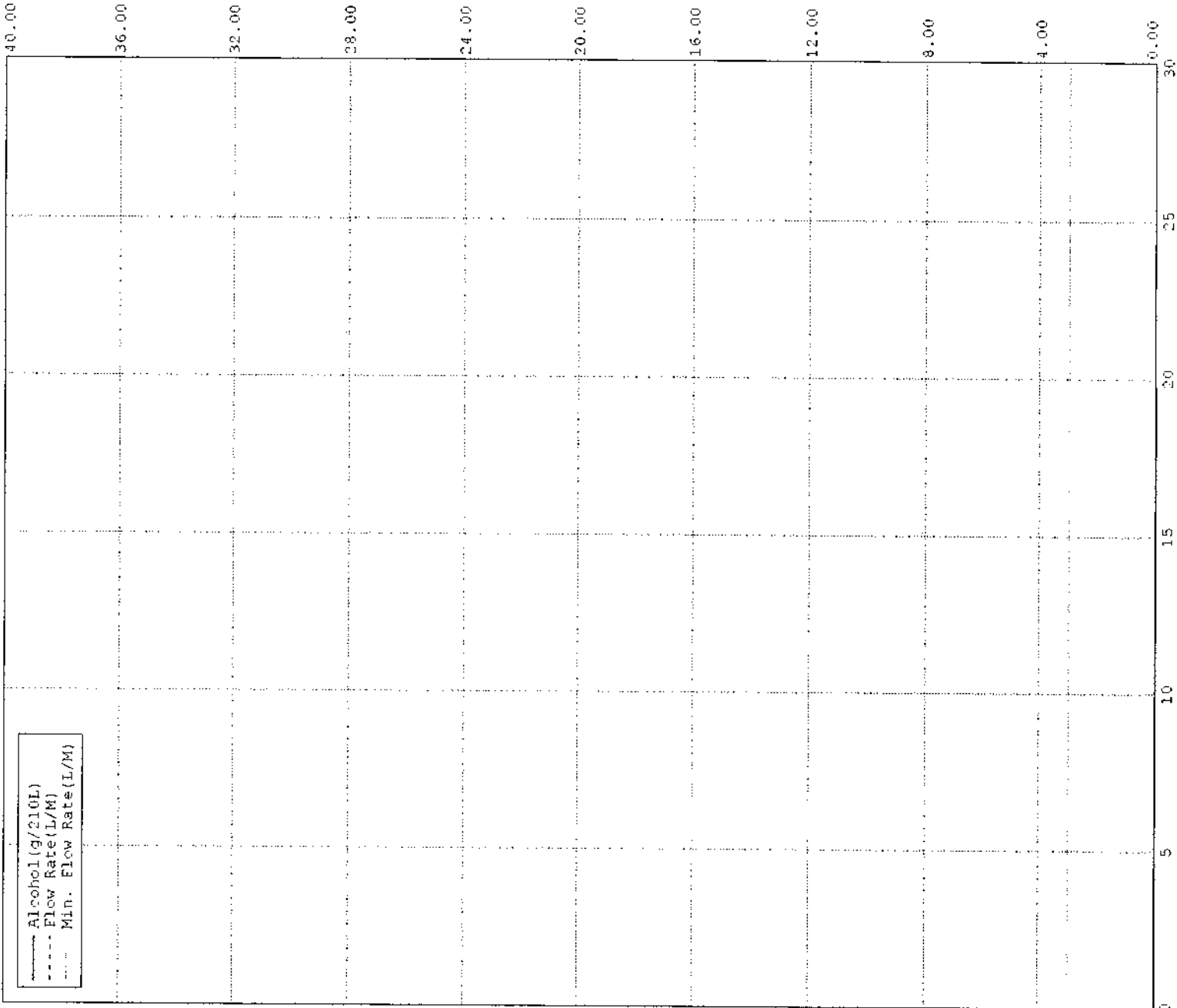
DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.11: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 08:28
BLANK TEST 0.000 09:28
INTERNAL STANDARD VERIFIED 08:28
EXTERNAL STANDARD 0.079 08:28
BLANK TEST 0.000 08:29

RFI DETECTED

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 07/14/2016
Time: 08:44:42

SUBJECT NAME:
TEST TEST
LICENSE #: NON DRINKING

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 30.12: 0.081
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	08:45
BLANK TEST	0.000	08:45
INTERNAL STANDARD	VERIFIED	08:46
EXTERNAL STANDARD	0.079	08:46
BLANK TEST	0.000	08:47
SUBJECT SAMPLE (Vol.=2.36L)	0.000	08:47
BLANK TEST	0.080	08:48
EXTERNAL STANDARD	0.000	08:48
BLANK TEST	0.000	08:49

