

## 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 100670 Analyst Colleen O'Bryant Start Date 7/13/16

1. Diagnostic Test (attached)  Internal Standard value  $\leq 3.00\%$  Yes
1. Voltage Checks
- Adjust voltages, if needed 
    - Lamp (2.6V Maximum)
    - Bias
    - Cooler (2.0V Maximum)
  - Set RFI
  - Adjust barometer reading to match NIST traceable barometer
  - Adjust volume setting, if needed (1.5L +/- 0.1L)
  - Print Technician Screen (attached)
- iv. Chopper Frequency  
v. Detector Voltage (-0.100V to 0.100V)
2. Print Calibration Factors (attached)
3. Volume Test - Minimum 1.5 L (1.3L to 1.7L)
4. Linearity Test (attached)
- Levels Used
    - 0.020g/210L Mnf ILMO Lot 02915030A2 Exp 3/5/17
    - 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
    - 0.080g/210L Mnf Argon Lot AG608504 Exp 3/25/18
    - 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
    - 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17
      - Simulator S/N DR5098 Date Calibrated 8/5/15
    - 0.300g/210L Mnf Guth Lot 15170 Exp 7/20/17
      - Simulator S/N SD1188 Date Calibrated 8/5/15
5. Functional Tests (attached) SD1198 COB 7/13/16
- Incomplete
  - Invalid
  - Interference
  - Exceeded attempts
- Acetone - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17
    - Simulator S/N SD1199 Date Calibrated 8/5/15
  - Isopropanol - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17
    - Simulator S/N SD1177 Date Calibrated 8/5/15
  - Negative Control - Mnf 15220 Lot 0-1503 Level 0.100 Exp 9/28/17
    - 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: 100670

Date: 07/13/2016  
Time: 13:22:46

VERSIONS  
DMT: 3.02  
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 = 1.74 V PASSED  
(1.05 V - 2.45 V)  
Cooler Voltage = 1.76 V PASSED  
(1.01 V - 2.35 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 545 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.1 in

PUMP INFO

Flow Rate = 4.894 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 = 0.087 1.48% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100670  
-----

Date: 07/13/2016  
Time: 2:18 PM

Temperatures (°C)

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

Current Barometer 30.0 in  
Volume (Ltr) 1.51

Settings

Lamp: 1.74 V  
Bias: 80 V  
Cooler: 1.79 V  
Chopper: 544 Hz

Voltages (V)

Flow: 1.04 V  
Detector: 0.029 V

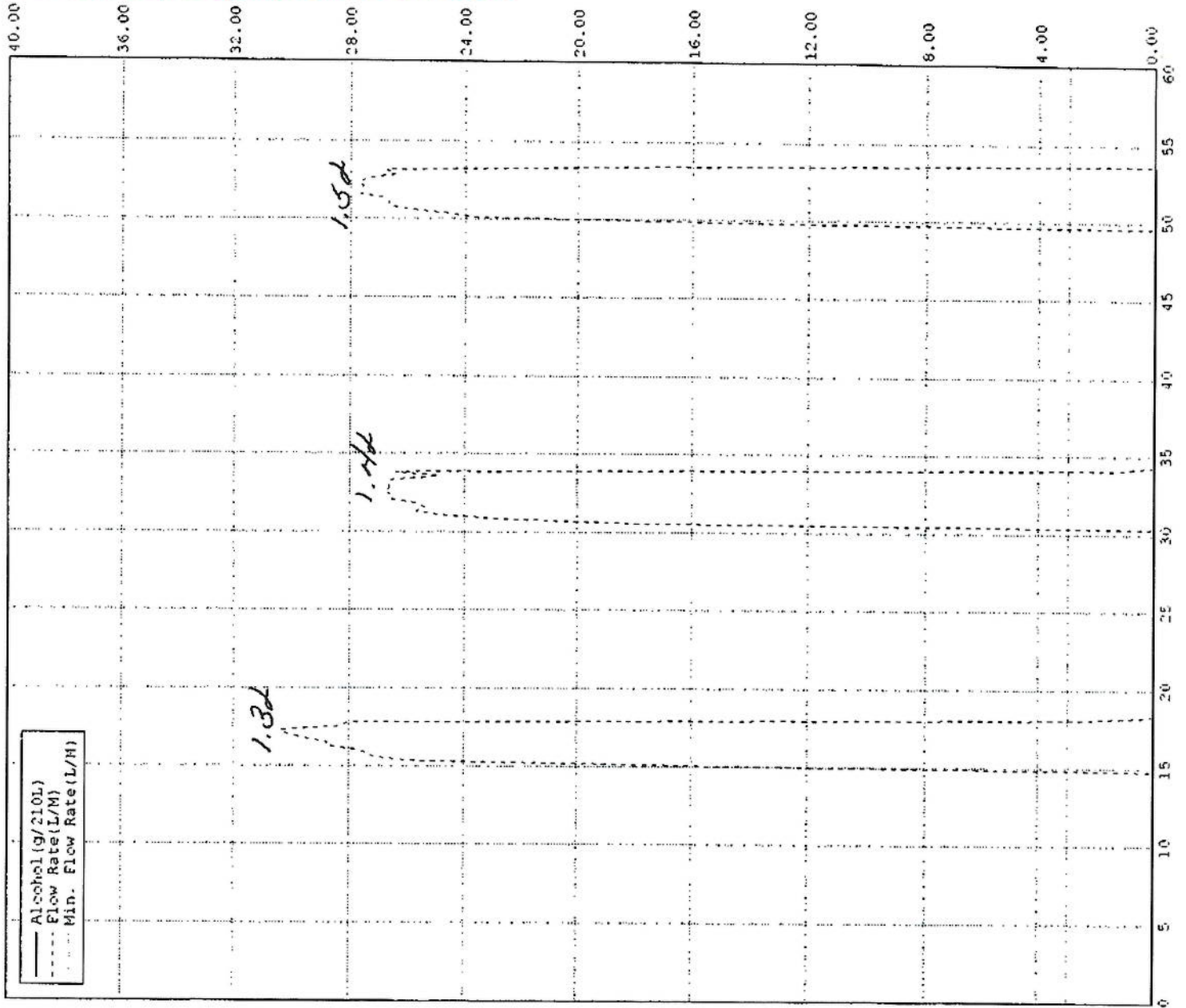
CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100670  
-----

Date: 09/21/2011  
Time: 14:17:27

Ca = 0.1500  
CAL = 0.983698    0.800 <= CAL < 1.200  
b1 = 0.0002    0.0000 <= b1 < 0.0040  
b2 = 0.0023    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0886    0.0500 <= Xq < 0.2000  
a21 = 1.179698    1.050 <= a21 < 1.300  
a31 = 0.439665    0.300 <= a31 < 0.800





**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/13/2016  
 Time: 14:19:05

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME TEST

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

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.97: 0.080  
 LOT #: AG608504  
 EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:20
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE (Vol=1.58L)	0.000	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.080	14:23
BLANK TEST	0.000	14:24

*COB*

LINEARITY CHECK

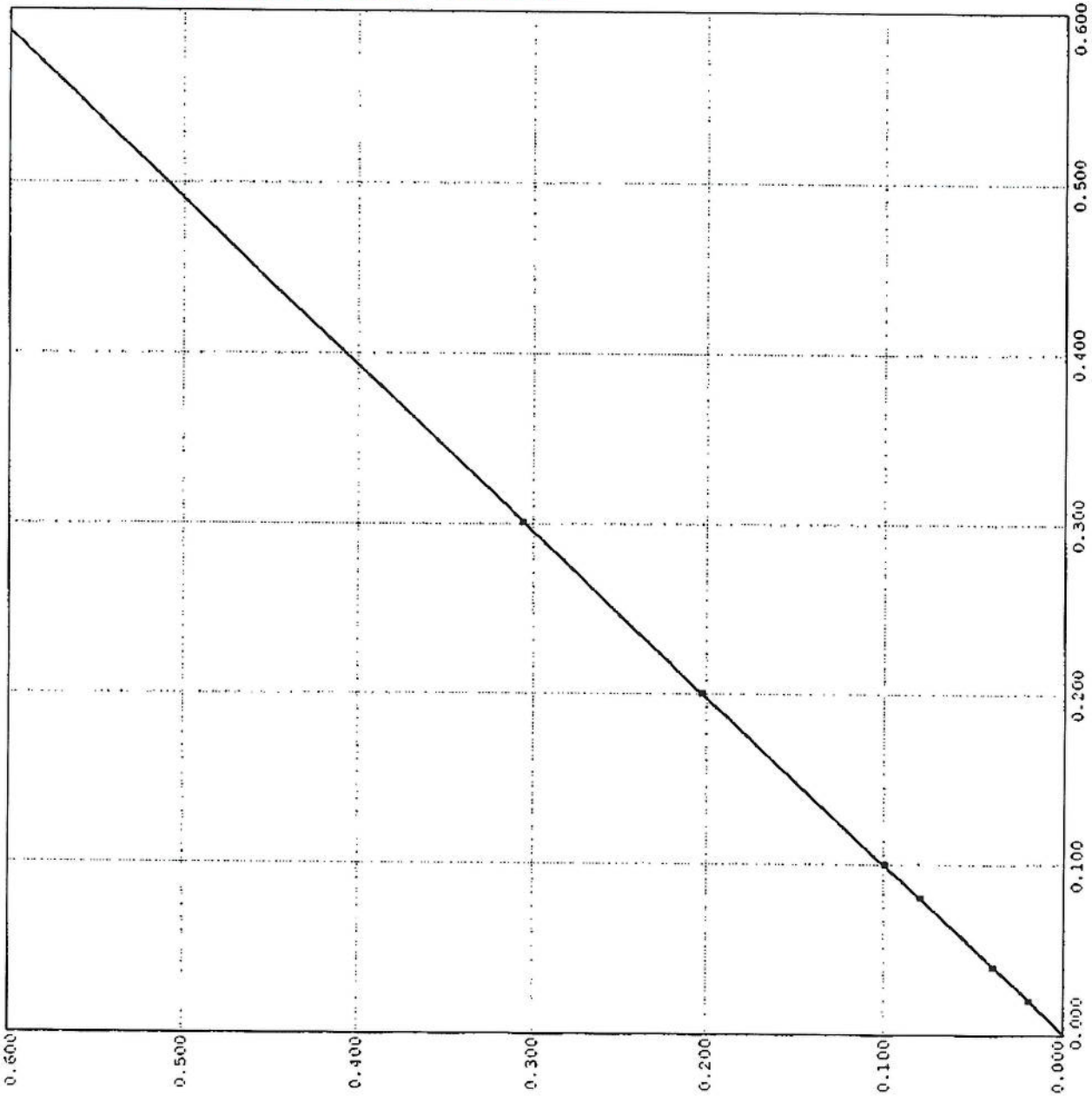
Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

Date: 07/13/2016  
 Time: 14:53:08

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.040	0.0406	0.0005
0.080	0.0810	0.0000
0.100	0.1004	0.0005
0.200	0.2034	0.0009
0.300	0.3068	0.0004

SLOPE = 1.022345  
 R² = 0.999945



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

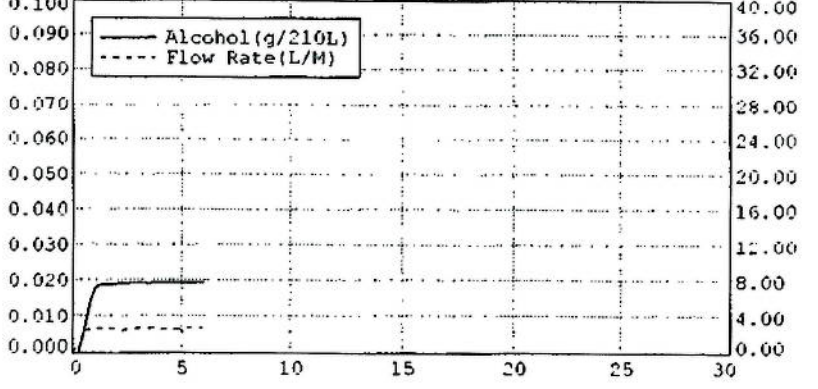
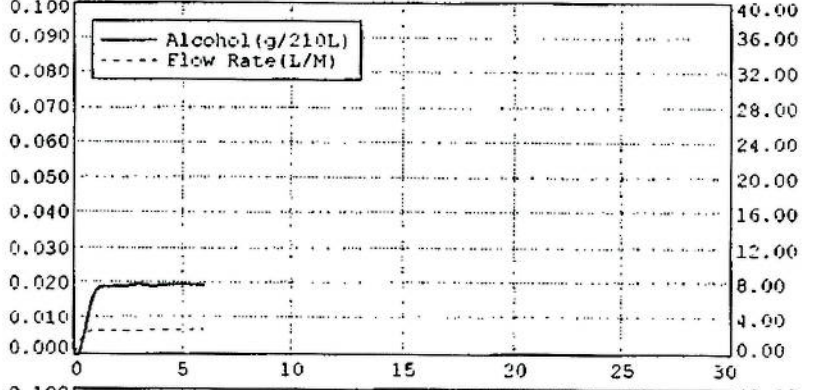
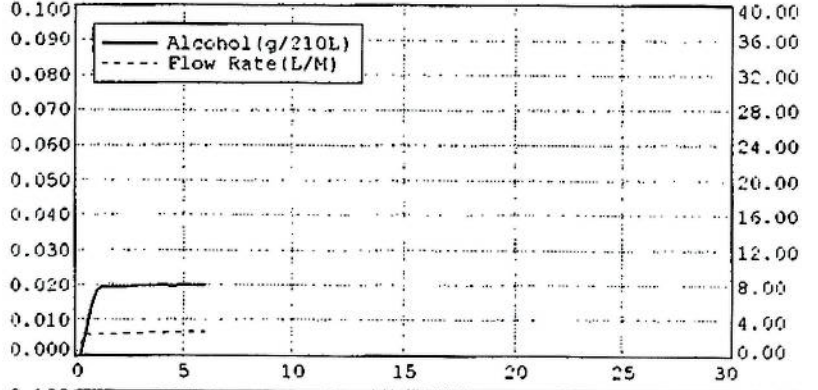
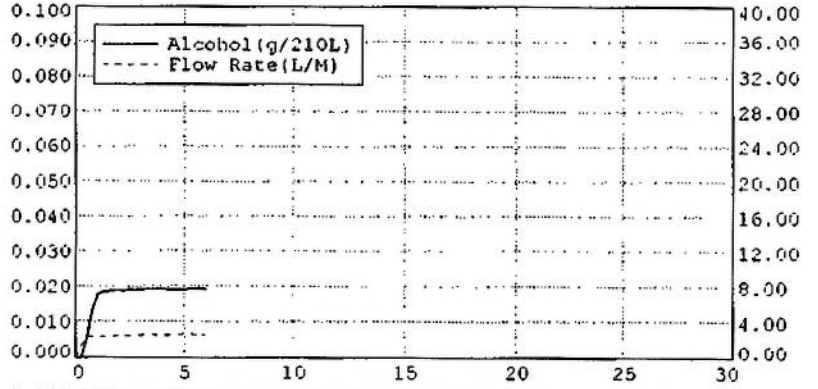
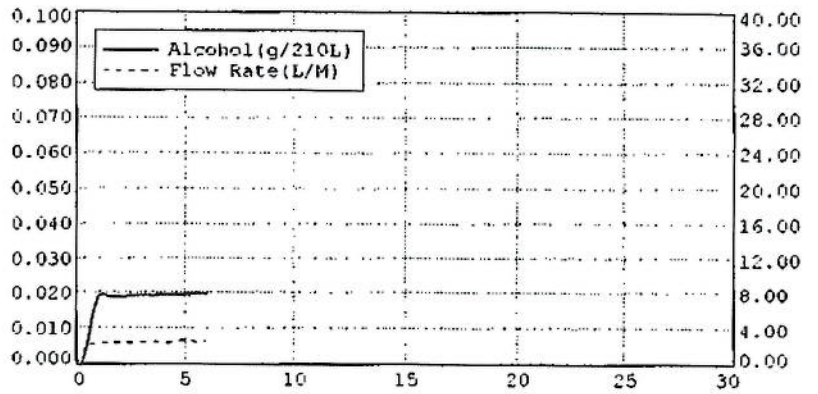
Date: 07/13/2016  
 Time: 14:53:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.96: 0.020  
 LOT #: 02915020A2  
 EXPIRATION: 03/05/2017  
 TANK PRESSURE: 795 psi

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.021	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.021	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.021	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.020	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.021	15:04
BLANK TEST	0.000	15:05

Average = 0.0208  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

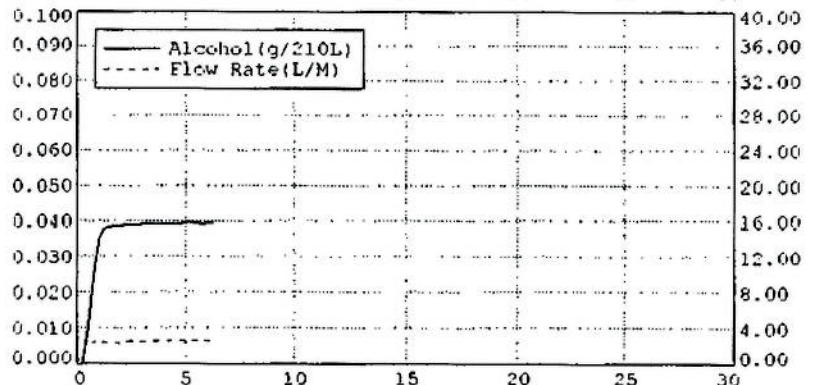
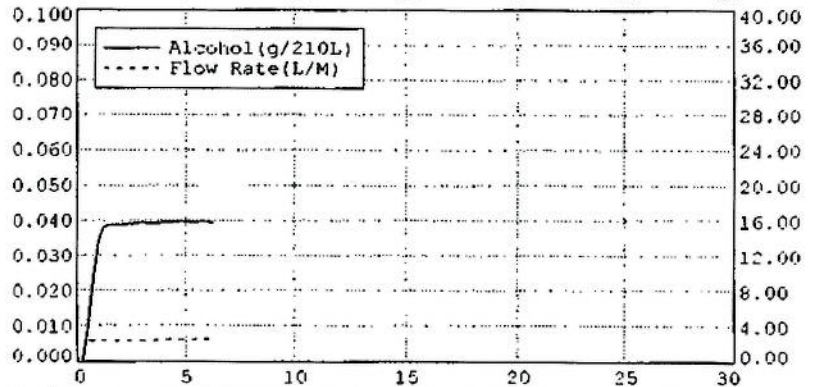
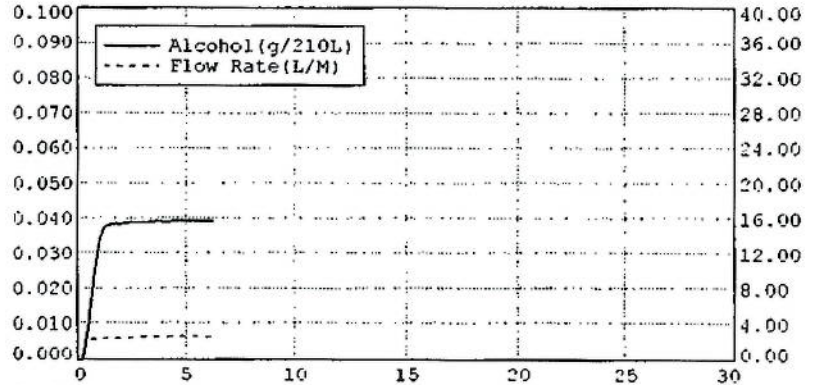
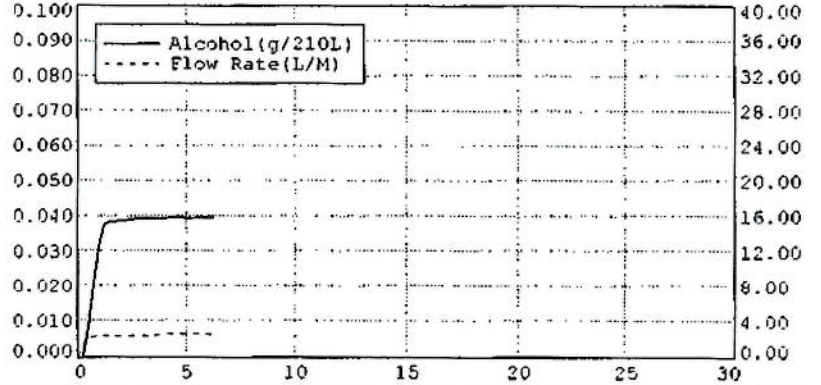
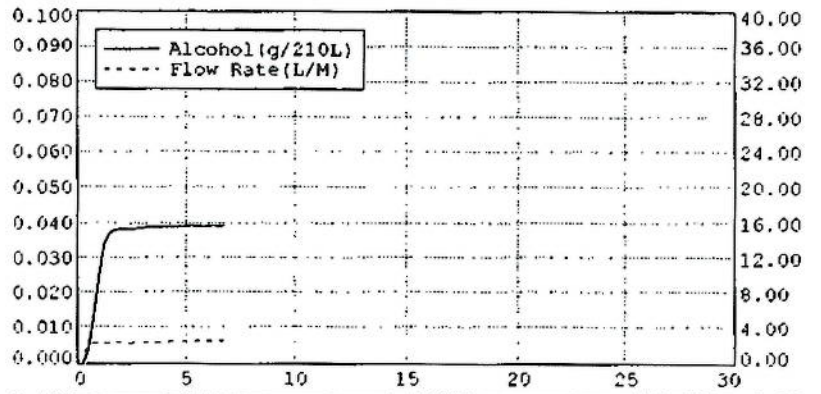
Date: 07/13/2016  
 Time: 15:07:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.95: 0.040  
 LOT #: 02915040A3  
 EXPIRATION: 03/05/2017  
 TANK PRESSURE: 259 psi

BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.040	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.041	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.040	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.041	15:12
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.041	15:13
BLANK TEST	0.000	15:14

Average = 0.0406  
 Std Dev = 0.0005





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

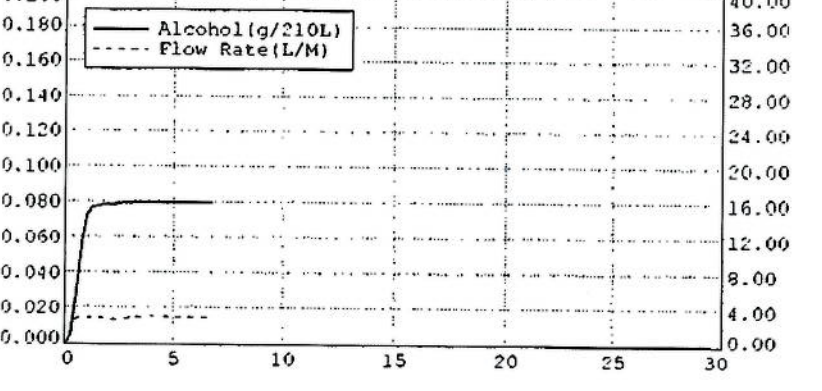
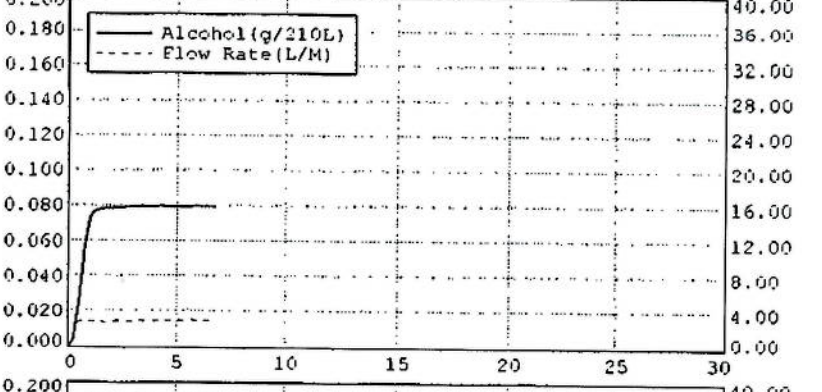
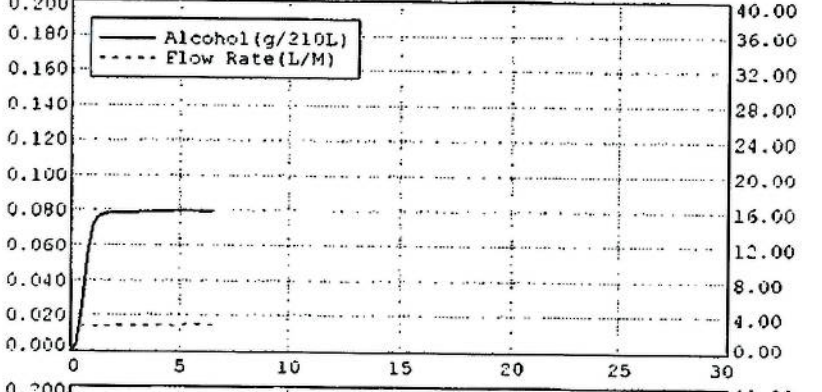
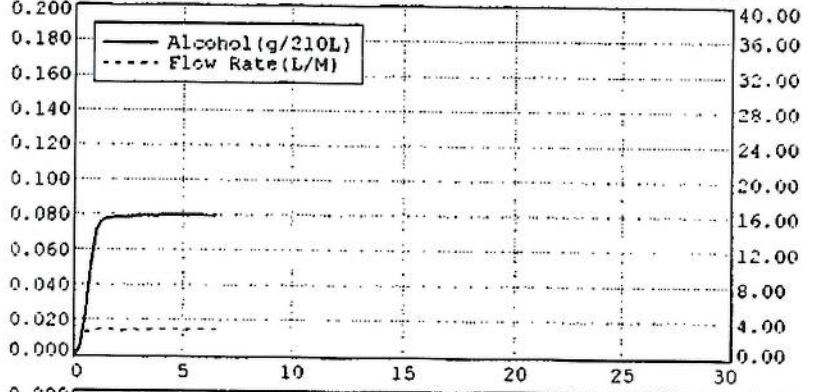
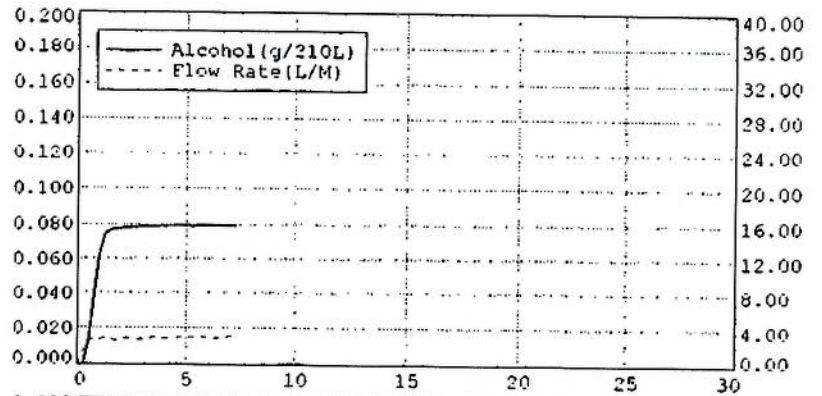
Date: 07/13/2016  
 Time: 15:15:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.95: 0.080  
 LOT #: AG608504  
 EXPIRATION: 03/25/2018  
 TANK PRESSURE: 1014 psi

BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.081	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.081	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.081	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.081	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.081	15:21
BLANK TEST	0.000	15:22

Average = 0.0810  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

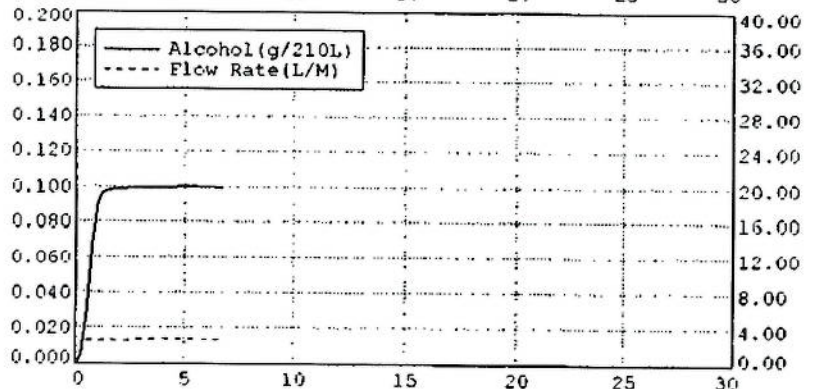
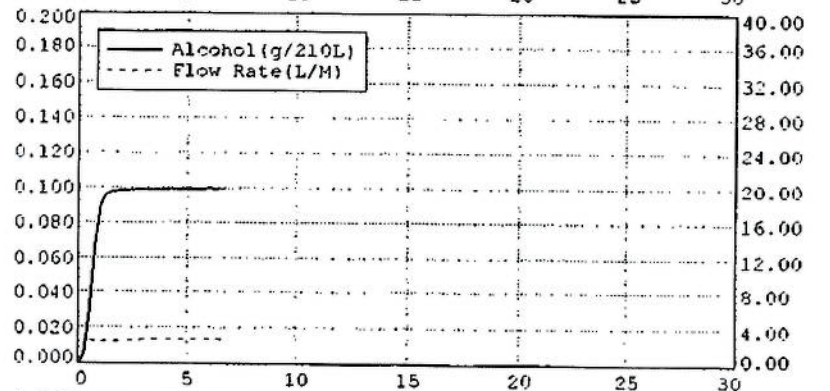
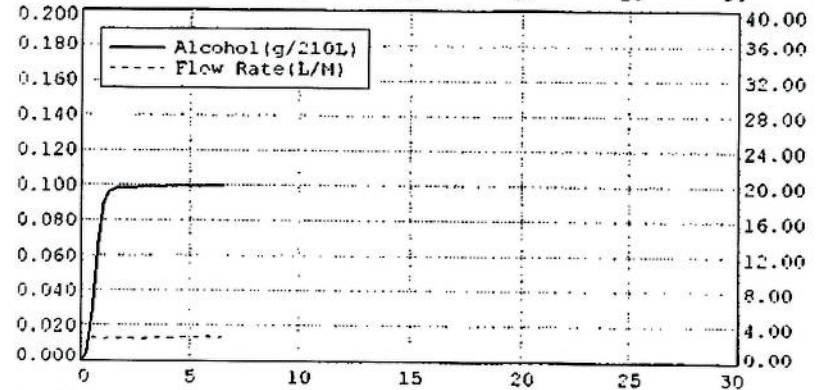
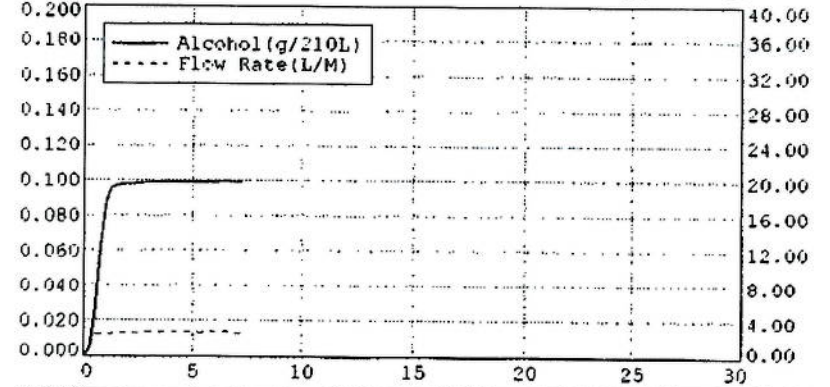
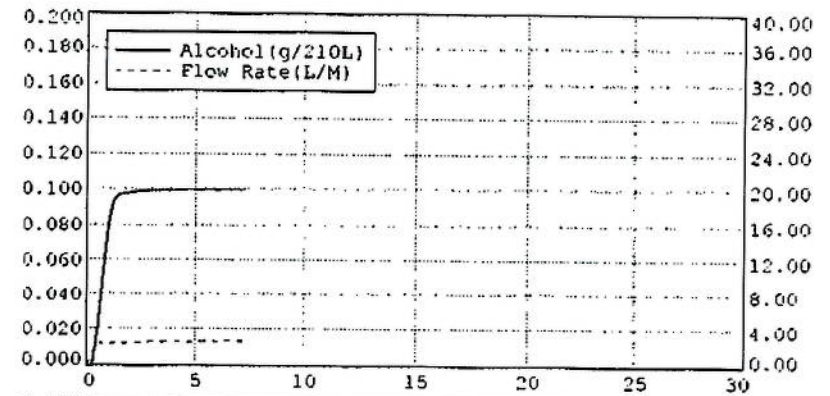
Date: 07/13/2016  
 Time: 15:24:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.96: 0.100  
 LOT #: 02915100A1  
 EXPIRATION: 03/05/2017  
 TANK PRESSURE: 519 psi

BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
EXTERNAL STANDARD	0.101	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.100	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.100	15:28
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.100	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.101	15:30
BLANK TEST	0.000	15:31

Average = 0.1004  
 Std Dev = 0.0005





LINEARITY CHECK: Control Test 5

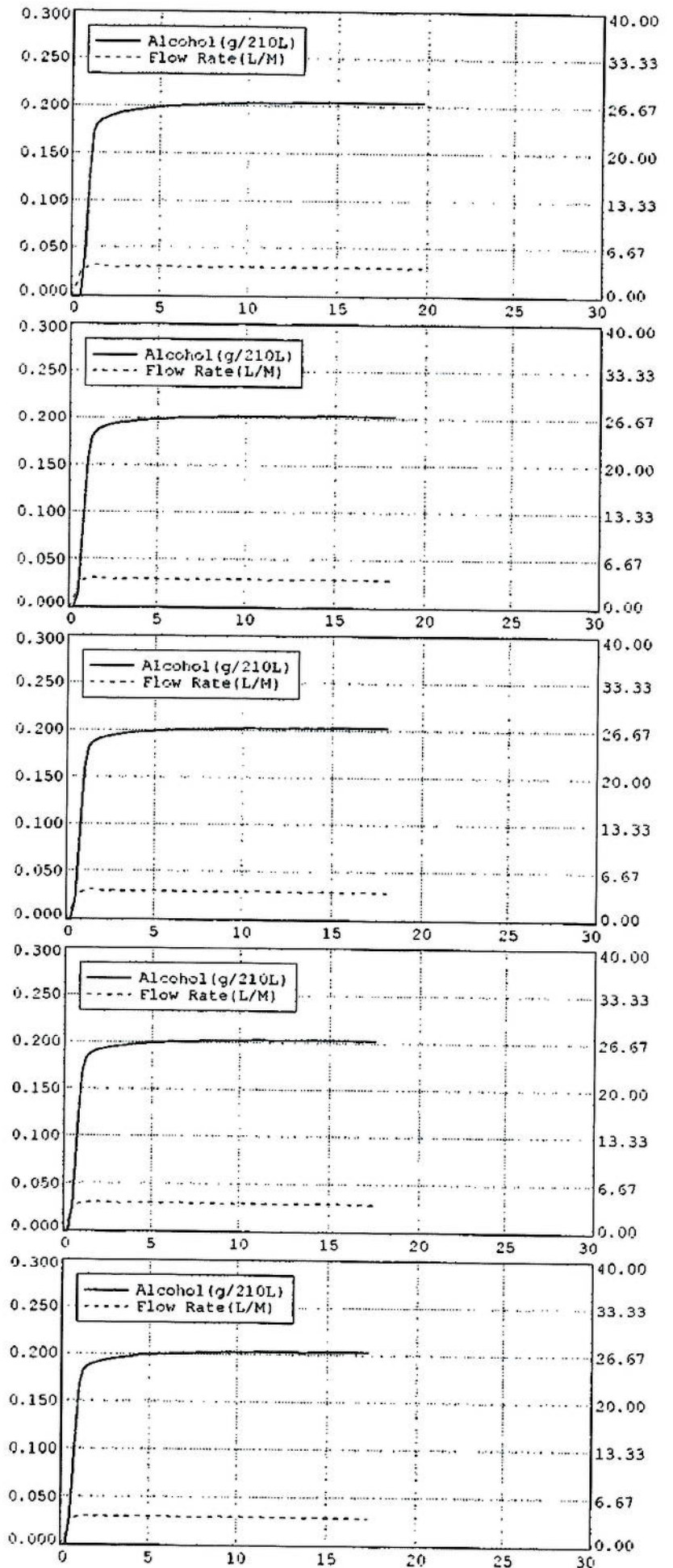
Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

Date: 07/13/2016  
 Time: 15:31:50

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.200  
 LOT #: 15130  
 EXPIRATION: 05/11/2017

BLANK TEST	0.000	15:32
INTERNAL STANDARD	VERIFIED	15:33
EXTERNAL STANDARD	0.205	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.203	15:35
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.203	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.203	15:37
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.203	15:39
BLANK TEST	0.000	15:40

Average = 0.2034  
 Std Dev = 0.0009





LINEARITY CHECK: Control Test 6

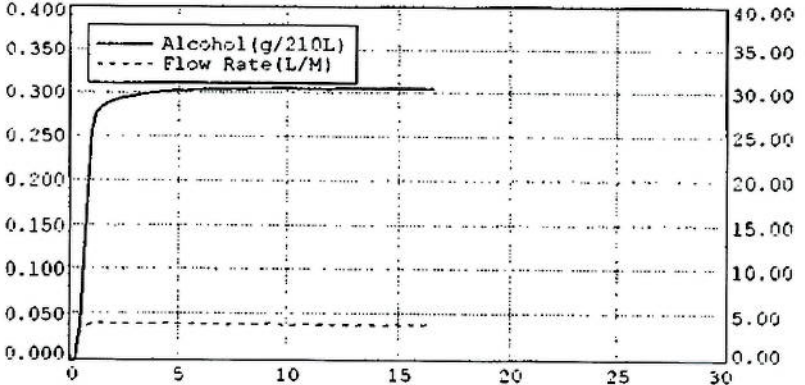
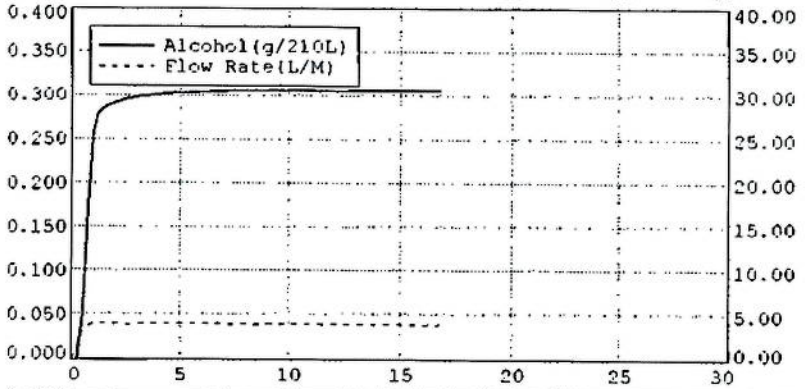
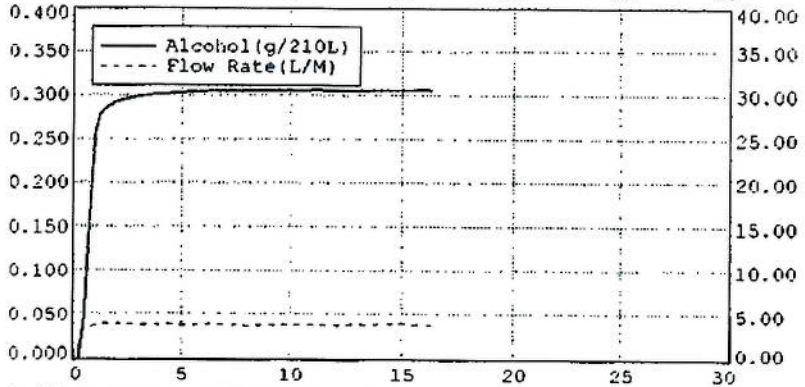
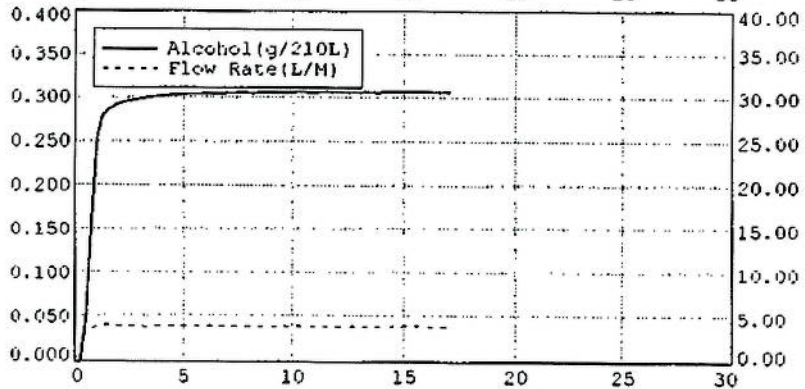
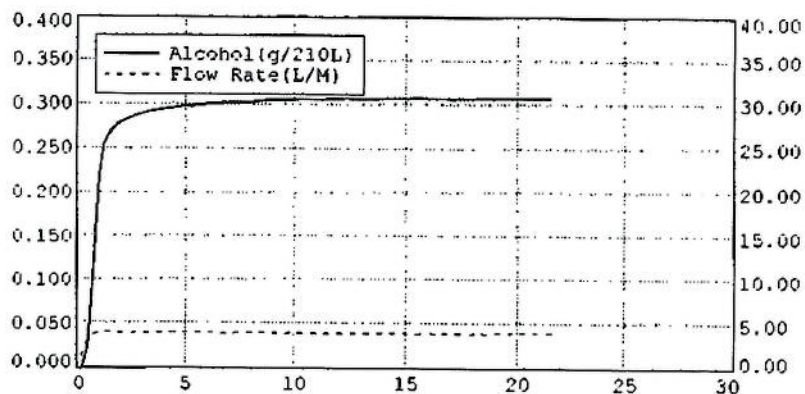
Alaska Department of Public Safety  
 DATAMASTER dmt: 100670

Date: 07/13/2016  
 Time: 15:50:40

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

BLANK TEST	0.000	15:51
INTERNAL STANDARD	VERIFIED	15:51
EXTERNAL STANDARD	0.307	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.307	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.307	15:54
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.307	15:56
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.306	15:57
BLANK TEST	0.000	15:58

Average = 0.3068  
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100670

Date: 07/14/2016  
Time: 07:50:45

SUBJECT NAME:  
TEST TEST  
LICENSE #: INCOMPLETE

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

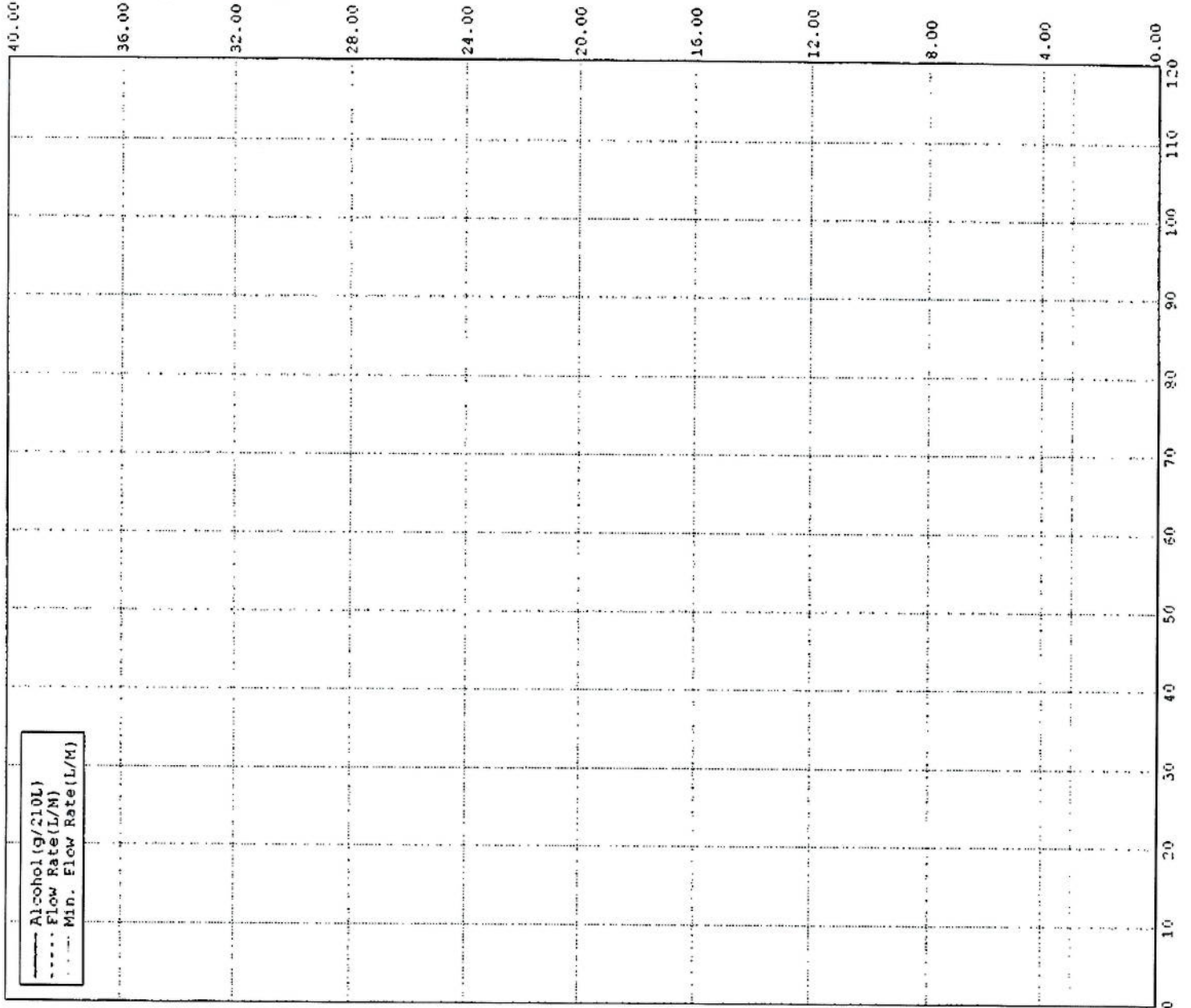
DEPT/AGENCY:  
AAA1

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 07:52  
BLANK TEST 0.000 07:52  
INTERNAL STANDARD VERIFIED 07:52  
EXTERNAL STANDARD 0.081 07:52  
BLANK TEST 0.000 07:53  
SUBJECT SAMPLE INCOMPLETE 07:55



Tree of Life Child Development Center

268 E. Fireweed Ave.  
 Palmer, AK 99645  
 EIN 45-4858112

# Invoice

Date	Invoice #
08/01/2016	2101

Bill To
Tim Popowski Colleen O'Bryant (Taylor) 1230 Jewel St Palmer, AK 99645

P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
	Infant F/T Month (Carson)	344.00	344.00T
	Child F/T Month (Taylor)	706.00	706.00T
	Family F/T Discount	-50.00	-50.00
	Infant F/T Month (Carson)	606.00	606.00
	Sales Tax	3.00%	30.00
		<b>Total</b>	<b>\$1,636.00</b>



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 07:57:20

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** INVALID

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

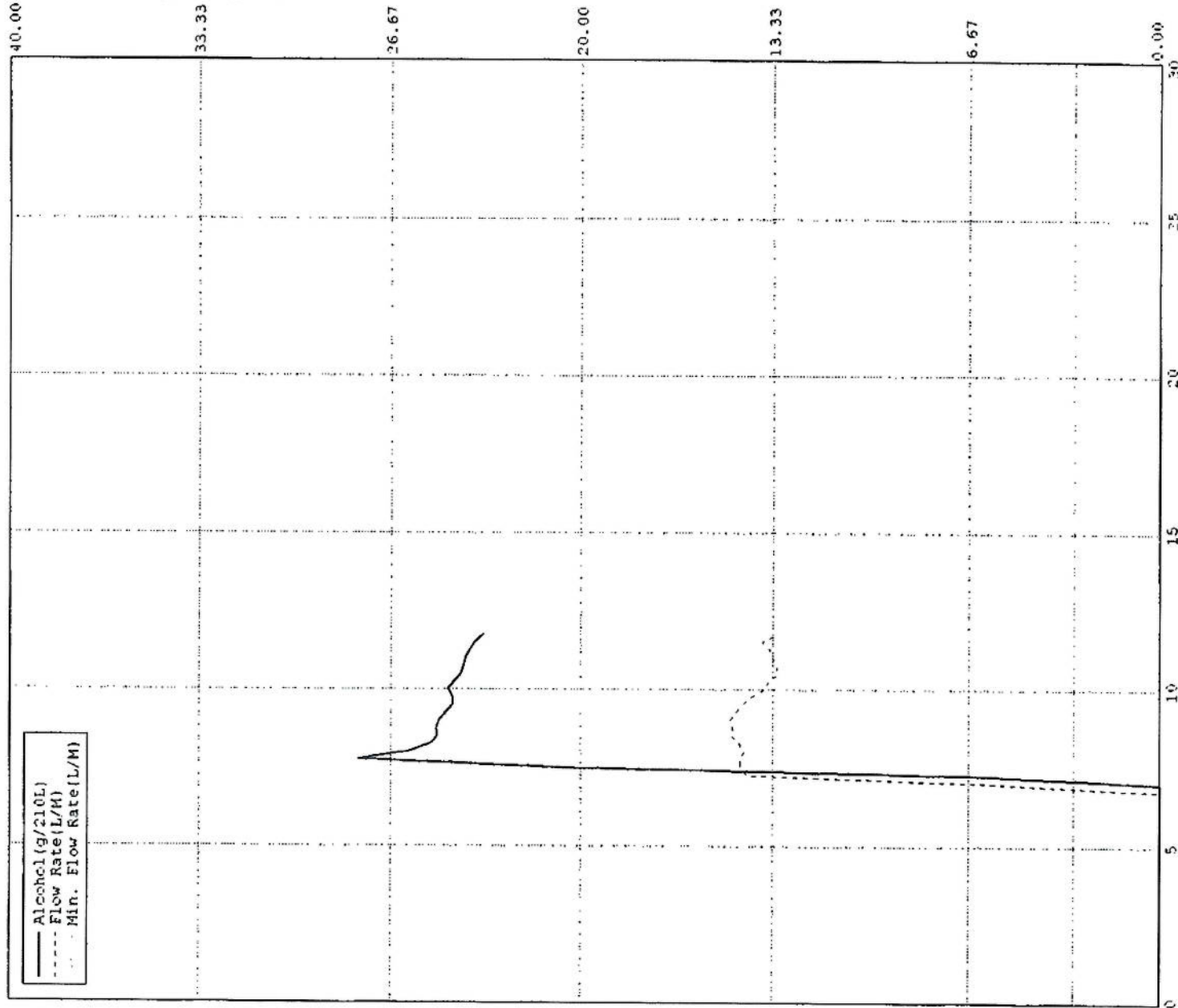
**DEPT/AGENCY:**  
 AAA1

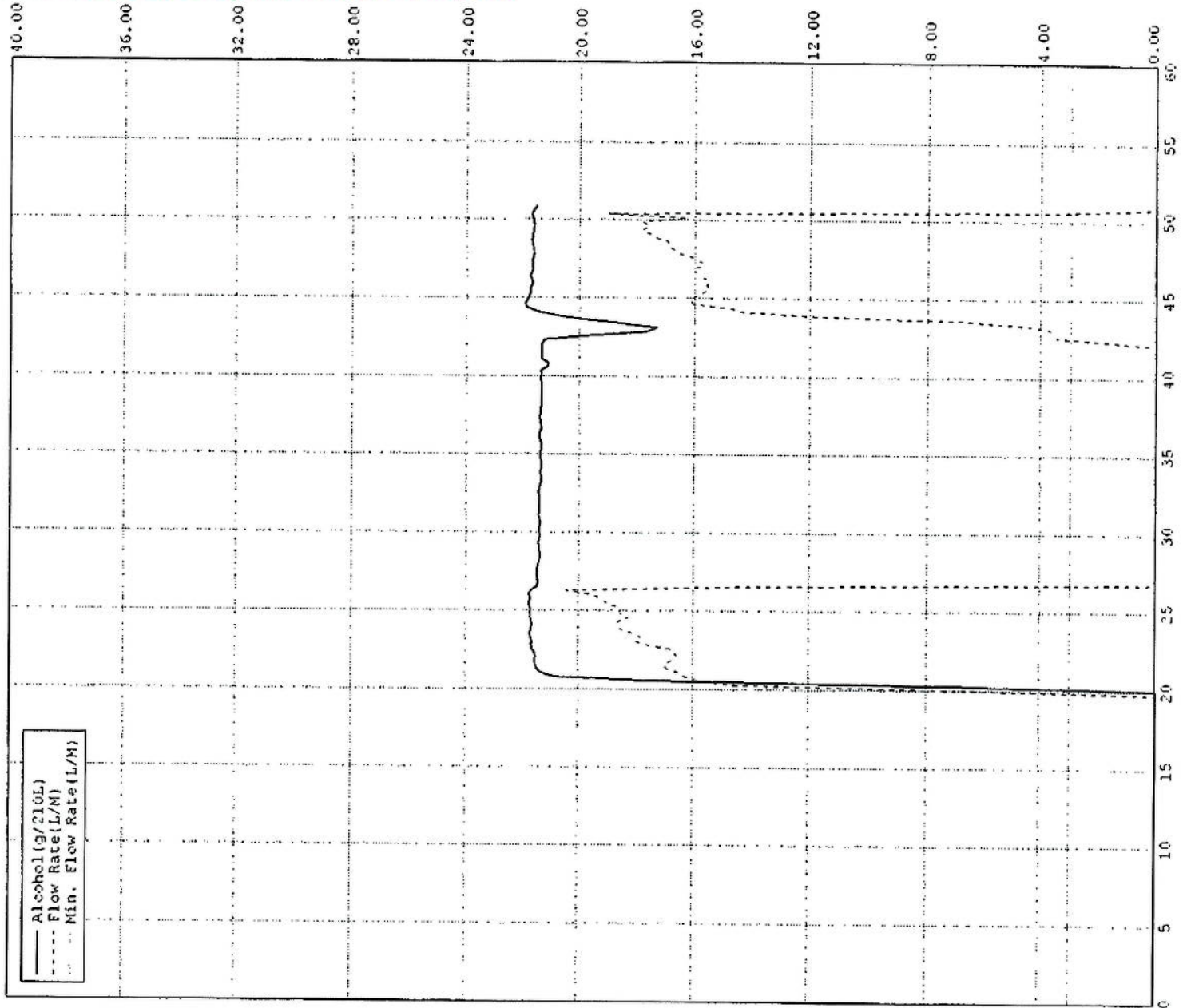
**CASE/REPORT:** 16-1234  
**TEST TYPE:** TEST

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

**DIAGNOSTIC CHECK** PASSED 07:58  
**BLANK TEST** 0.000 07:58  
**INTERNAL STANDARD** VERIFIED 07:58  
**EXTERNAL STANDARD** 0.081 07:58  
**BLANK TEST** 0.000 07:59  
**SUBJECT SAMPLE** INVALID 08:00

*CS*





**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 08:05:29

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: ACETONE -INT

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

DEPT/AGENCY:  
 AAA1

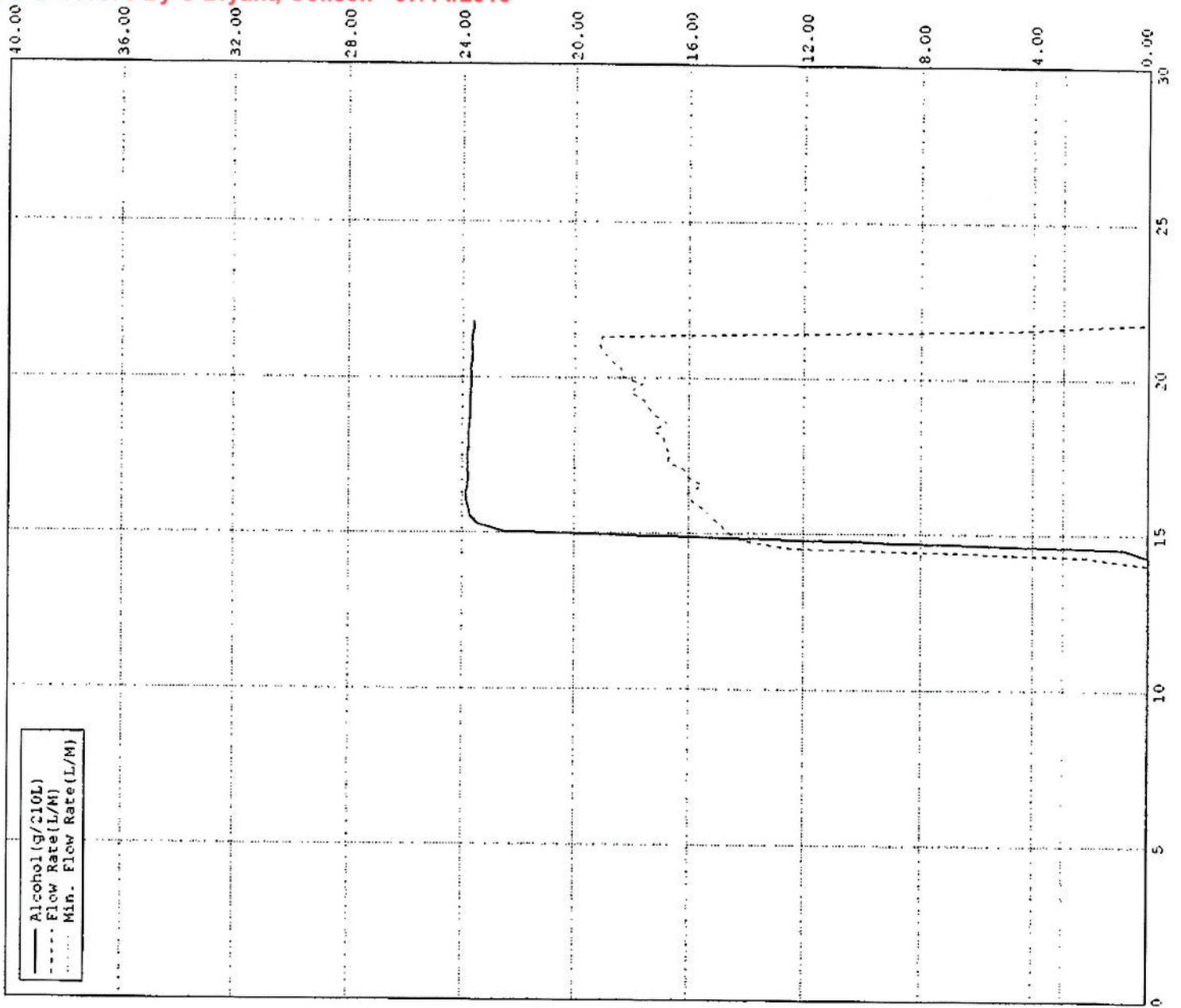
CASE/REPORT: 16-1234  
 TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 08:06  
 BLANK TEST 0.000 08:06  
 INTERNAL STANDARD VERIFIED 08:07  
 Xq = 0.098 (1.18%)  
 EXTERNAL STANDARD 0.081 08:07  
 X[1] = 0.0810 (0.0020) (0.0019)  
 BLANK TEST 0.000 08:08  
 SUBJECT SAMPLE XXX 08:09  
 X[1] = 0.1080 (-0.0199) (-0.0001)

Interference Detected

COB



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 08:12:48

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** IPA - INT

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

**DEPT/AGENCY:**  
 AAAI

**CASE/REPORT:** 16-1234  
**TEST TYPE:** TEST

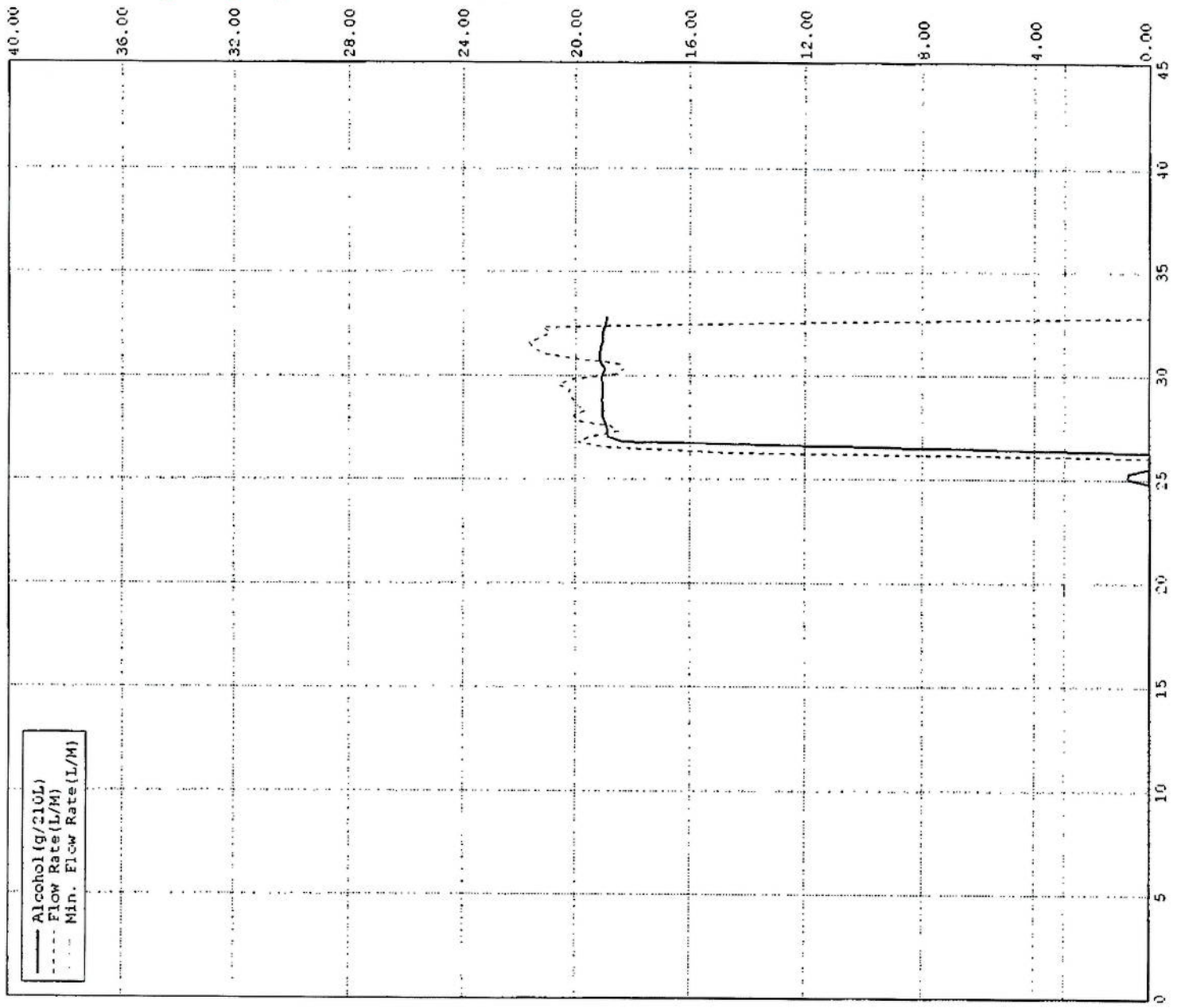
**EXTERNAL STANDARD INFORMATION**  
**NOMINAL:** 0.080  
**TARGET AT 30.11:** 0.081  
**LOT #:** AG608504  
**EXPIRATION:** 03/25/2018

<b>DIAGNOSTIC CHECK</b>	<b>PASSED</b>	<b>08:14</b>
<b>BLANK TEST</b>	<b>0.000</b>	<b>08:14</b>
<b>INTERNAL STANDARD</b>	<b>VERIFIED</b>	<b>08:14</b>
<b>Xg = 0.087 (1.48%)</b>		
<b>EXTERNAL STANDARD</b>	<b>0.081</b>	<b>08:14</b>
<b>X[1] = 0.0810 (0.0018) (0.0010)</b>		
<b>BLANK TEST</b>	<b>0.000</b>	<b>08:15</b>
<b>SUBJECT SAMPLE</b>	<b>XXX</b>	<b>08:16</b>
<b>X[1] = 0.1180 (-0.0255) (-0.0001)</b>		

**Interference Detected**

*CSB*





**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 08:19:21

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** NEGATIVE INT

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

**DEPT/AGENCY:**  
 AAA1

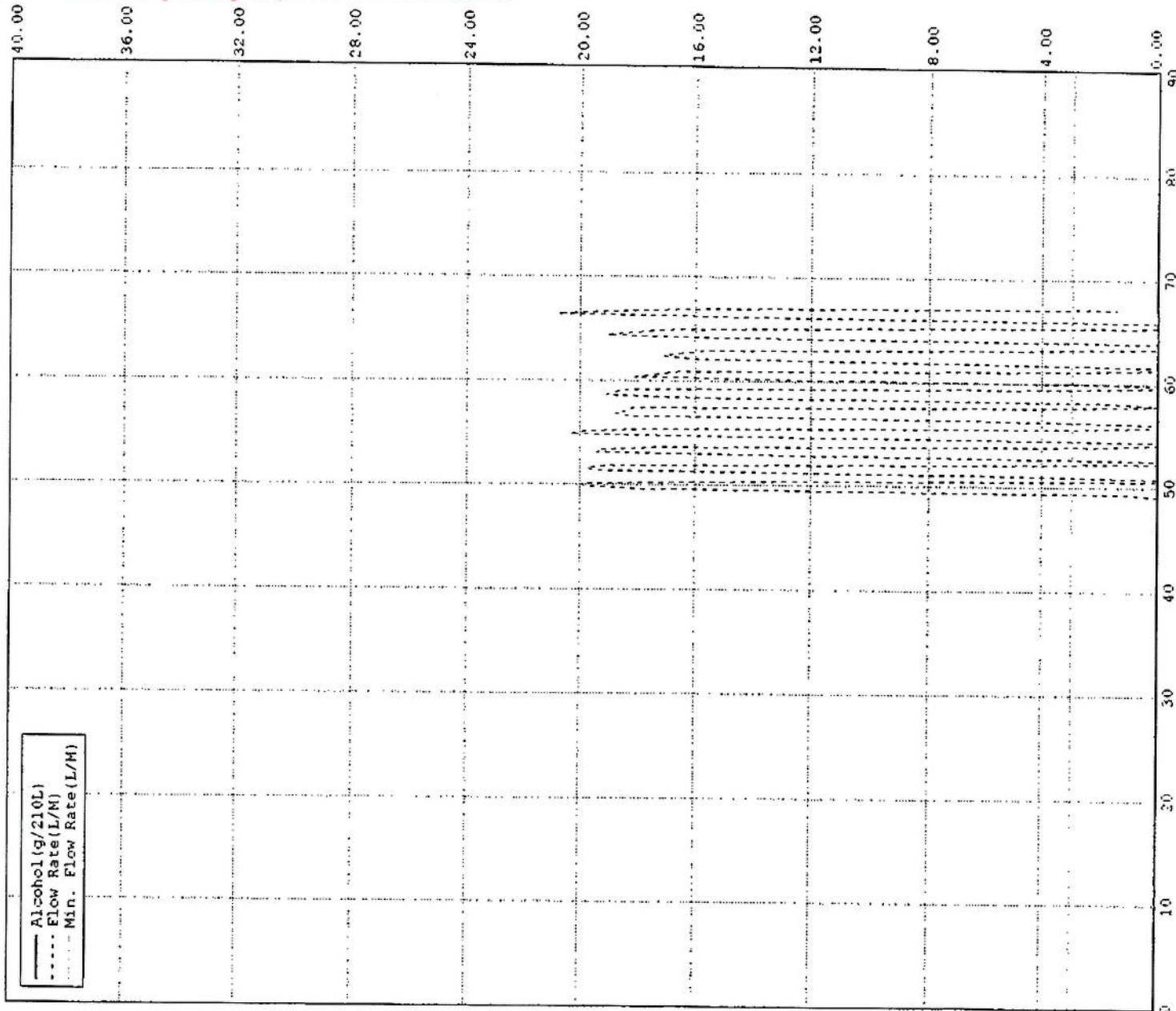
**CASE/REPORT:** 16-1234  
**TEST TYPE:** TEST

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

<b>DIAGNOSTIC CHECK</b>	<b>PASSED</b>	<b>08:20</b>
<b>BLANK TEST</b>	0.000	<b>08:20</b>
<b>INTERNAL STANDARD</b>	<b>VERIFIED</b>	<b>08:20</b>
$Xg = 0.087$ (1.28%)		
<b>EXTERNAL STANDARD</b>	0.081	<b>08:20</b>
$X[1] = 0.0809$ (0.0020) (0.0014)		
<b>BLANK TEST</b>	0.000	<b>08:21</b>
<b>SUBJECT SAMPLE (Vol=2.11L)</b>	0.095	<b>08:22</b>
$X[1] = 0.0950$ (-0.0020) (0.0000)		
<b>BLANK TEST</b>	0.000	<b>08:23</b>
<b>EXTERNAL STANDARD</b>	0.081	<b>08:23</b>
$X[1] = 0.0808$ (0.0020) (0.0016)		
<b>BLANK TEST</b>	0.000	<b>08:24</b>

*Filter 2 avg = 0.0020*  
*Filter 3 avg = 0.0015*

*OB*



SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 08:28:12

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:  
 AAA1

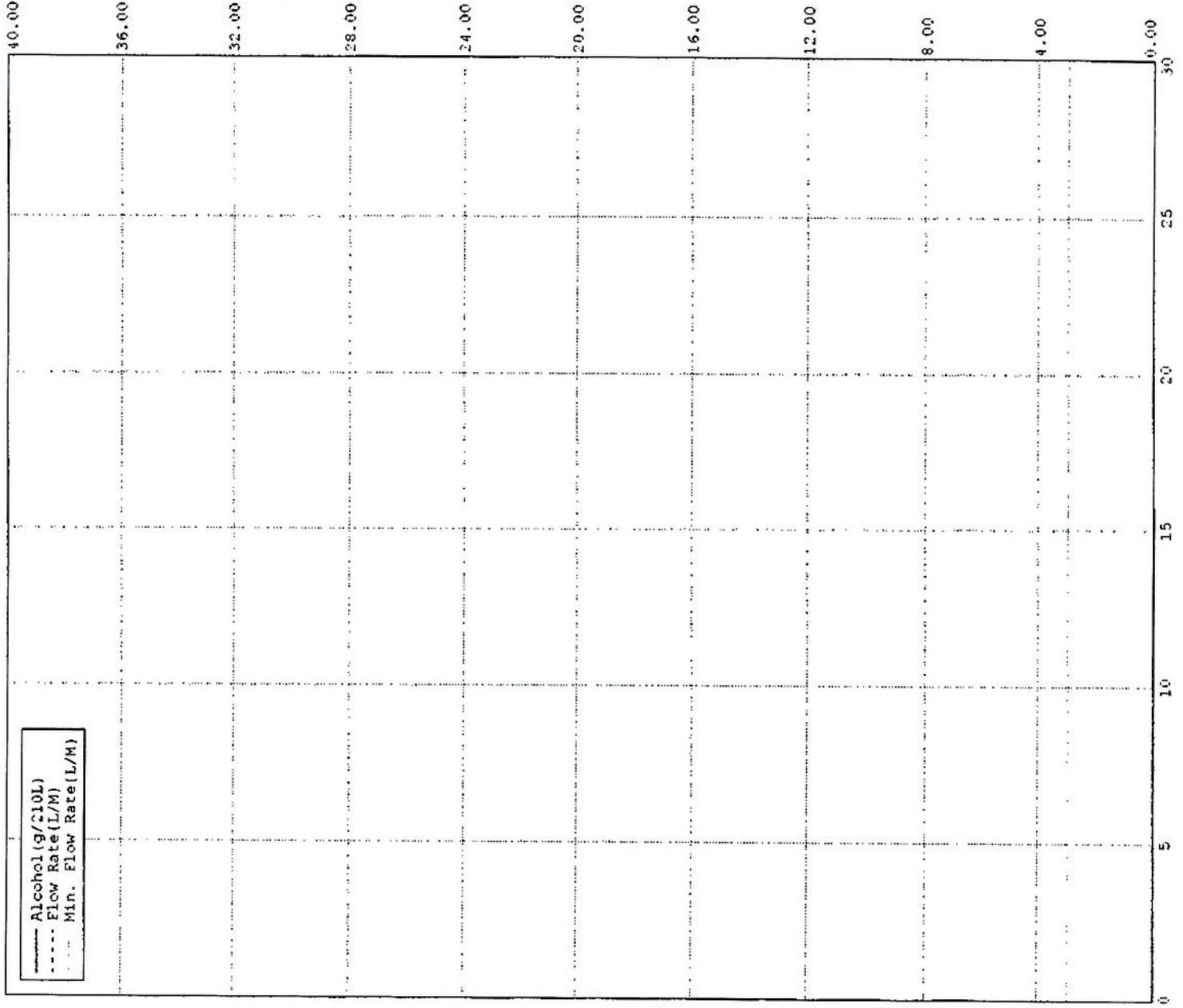
CASE/REPORT: 16-1234  
 TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 08:29  
 BLANK TEST 0.000 08:29  
 INTERNAL STANDARD VERIFIED 08:29  
 EXTERNAL STANDARD 0.081 08:29  
 BLANK TEST 0.000 08:30  
 SUBJECT SAMPLE XXX 08:31

Maximum Attempts Exceeded

*COB*



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 08:34:13

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: RFI

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

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

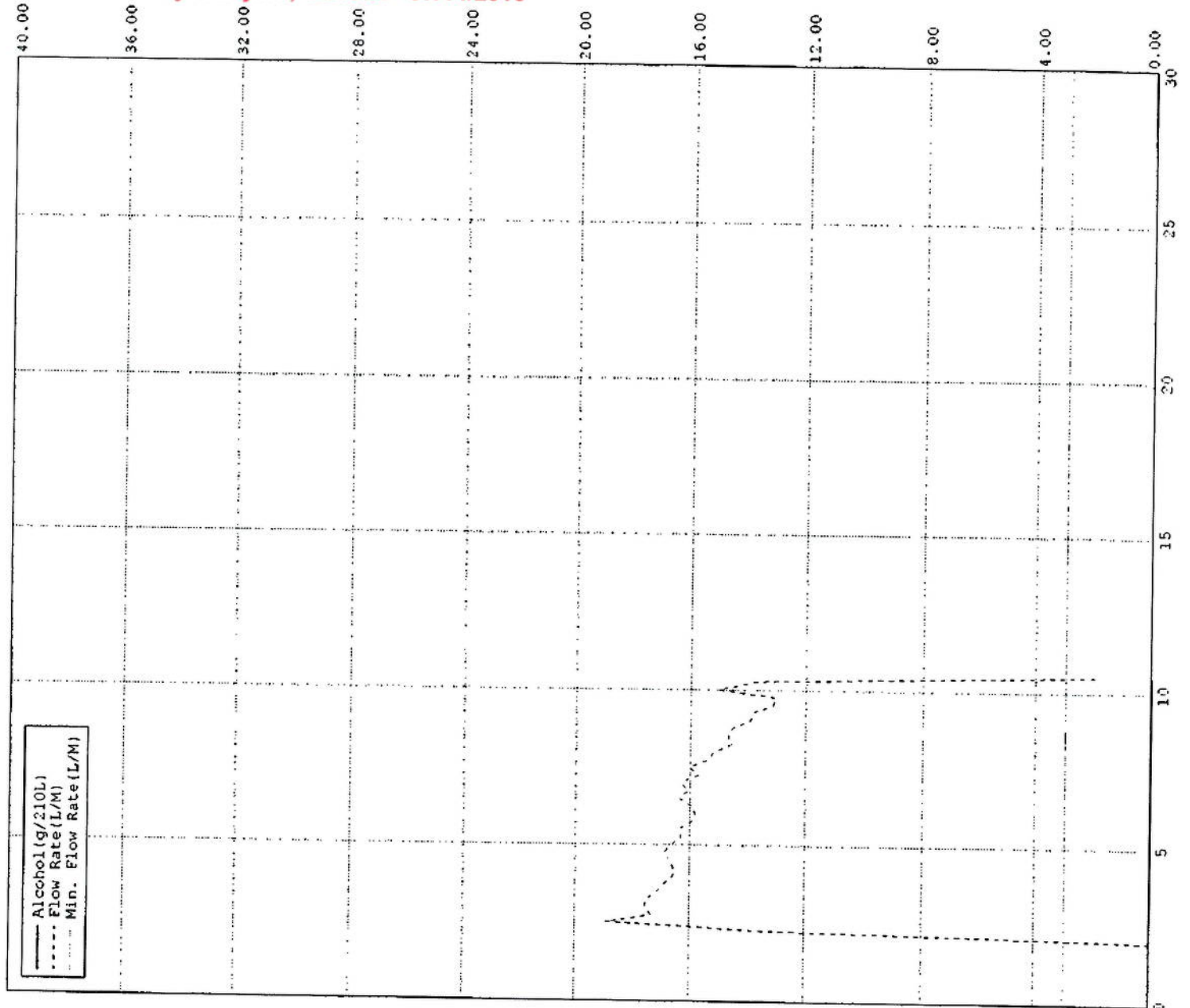
EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 30.11: 0.081  
 LOT #: AG608504  
 EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 08:35  
 BLANK TEST 0.000 08:35  
 INTERNAL STANDARD VERIFIED 08:35  
 EXTERNAL STANDARD 0.081 08:35  
 BLANK TEST 0.000 08:36

RFI DETECTED

*CB*





**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100670  
 -----  
 Date: 07/14/2016  
 Time: 08:52:05

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** NON DRINKING

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

**DEPT/AGENCY:**  
 AAAA

**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

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	08:53
BLANK TEST	0.000	08:53
INTERNAL STANDARD	VERIFIED	08:53
EXTERNAL STANDARD	0.081	08:53
BLANK TEST	0.000	08:54
SUBJECT SAMPLE (Vol=2.17L)	0.000	08:55
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.082	08:56
BLANK TEST	0.000	08:57

CSG