

## Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 6/11/2014  
Effective: 6/11/2014

Version: DMEF2014 R0  
Status: Active

Instrument # 100351

Date: 4/20/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

While in-service @ ARD a subject spit into the breath hose so it was removed from the instrument. The instrument also gave multiple gas flow errors on a tank with low psi.

2. Troubleshooting/Repair

I performed multiple VOCs with high and low pressure tanks and continued to see gas flow errors. I replaced the regulator and performed a test (successfully with a low psi tank).

I was performing volume testing during a certification and I received multiple blank errors with noticeable alcohol absorbance lines during an alcohol free test. I suspected it might be due to the breath hose that had been spit into. I changed the breath hose and performed a certification. Instrument exhibited the same alcohol absorbance lines/peaks during alcohol free tests. I consulted Dave Radomski (NARS) and we agreed it appeared there may be something in the sample chamber.

3. VOC (attached)

4. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

SUBJECT TEST

Alaska Department of Public Safety  
 DATA/MASTER dmt: 100351

Date: 04/20/2015  
 Time: 09:19:04

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME

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

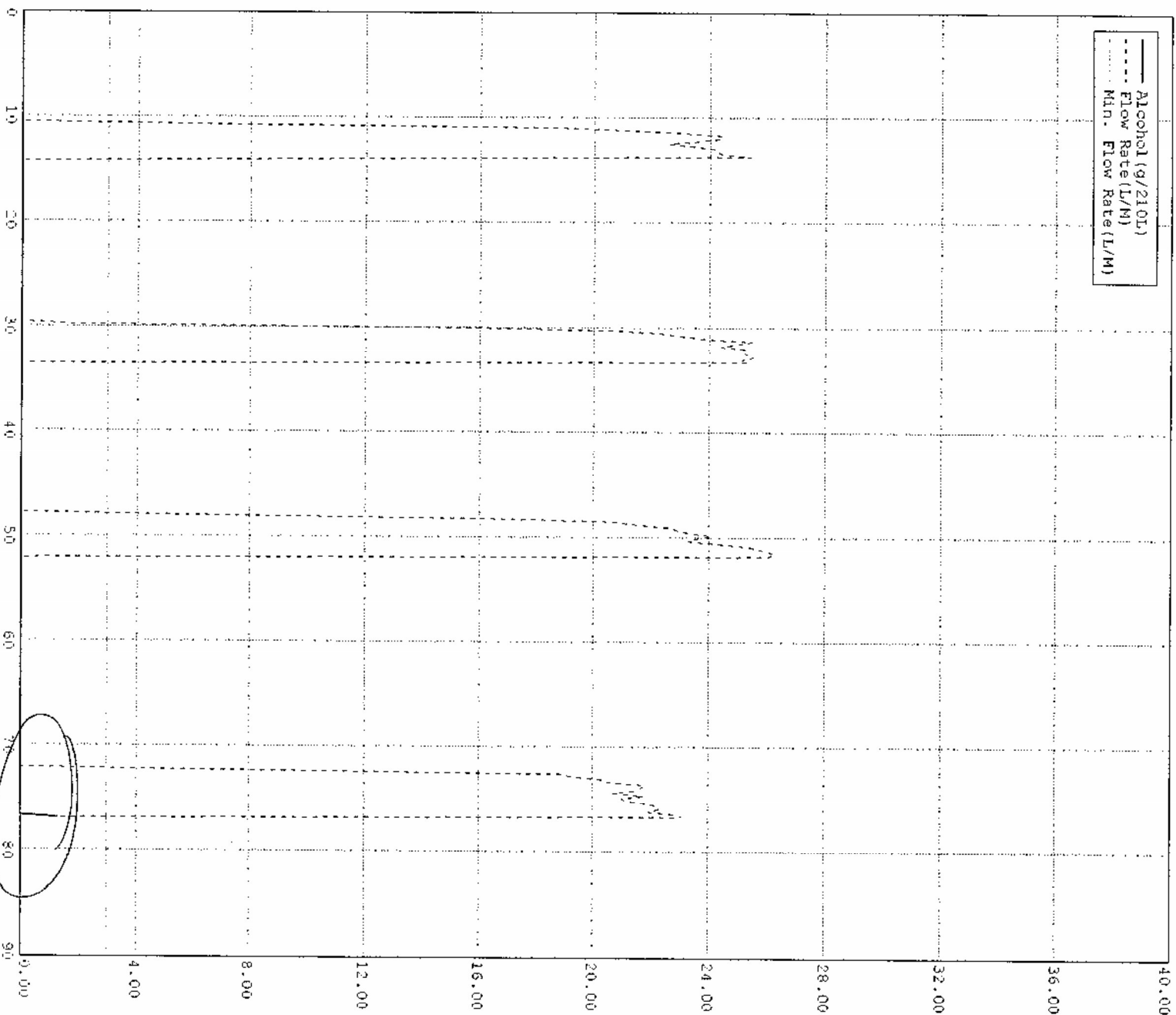
DEPT/AGENCY:  
 AAAL  
 CASE/REPORT: 15-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.41: 0.079  
 LOT #: 09214080A2  
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:20
BLANK TEST	0.000	09:21
INTERNAL STANDARD	VERIFIED	09:21
EXTERNAL STANDARD	0.077	09:21
BLANK TEST	0.000	09:22
SUBJECT SAMPLE	XXX	09:23

Blank Error

*With breaths have that was  
 sp. t. cab.*



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100351

Date: 04/20/2015  
Time: 09:32:58

SUBJECT NAME:  
TEST TEST  
LICENSE #: VOLUME

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

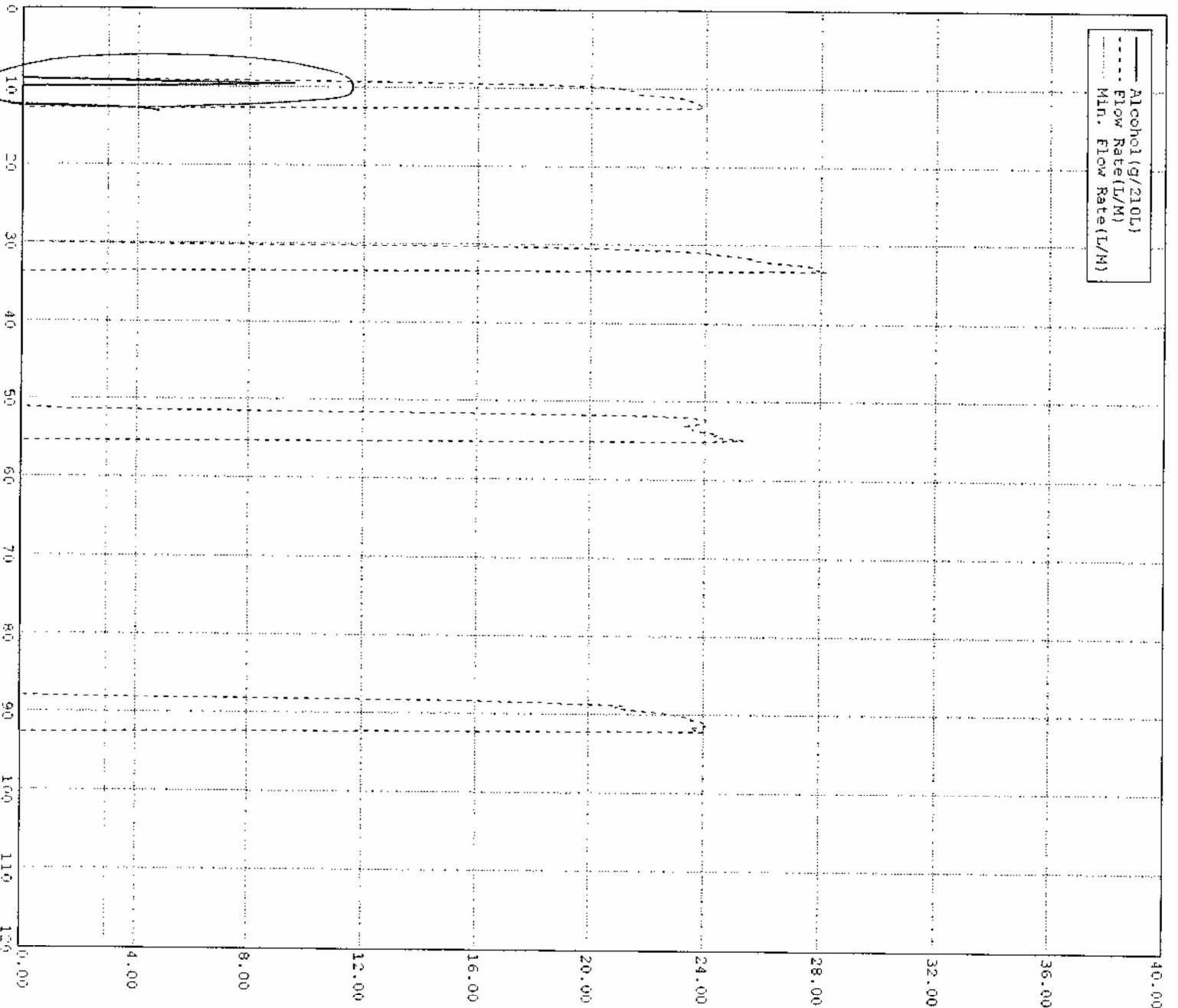
DEPT/AGENCY:  
AAAI  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.41: 0.079  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:34
BLANK TEST	0.000	09:34
INTERNAL STANDARD	VERIFIED	09:35
EXTERNAL STANDARD	0.078	09:35
BLANK TEST	0.000	09:36
SUBJECT SAMPLE (Vol=1.53L)	XXX	09:37

Blank Error

*With Breathrose that  
was spet onto*



SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100351

Date: 04/20/2015  
Time: 10:04:05

SUBJECT NAME:  
TEST TEST  
LICENSE #: VOLUME

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

DEPT/AGENCY:  
AAAI  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.42: 0.079  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK PASSED 10:07  
BLANK TEST 0.000 10:07  
INTERNAL STANDARD VERIFIED 10:07

Gas Flow Error

*pu 229*  
*changed from 1000 to 1000*  
*after this test.*



SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100351

Date: 04/20/2015  
Time: 10:10:28

SUBJECT NAME:  
TEST TEST  
LICENSE #: VOLUME

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

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.41: 0.079  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	10:12
BLANK TEST	0.000	10:12
INTERNAL STANDARD	VERIFIED	10:12
EXTERNAL STANDARD	0.085	10:13

Standard Out of Range

*Purge gas line +  
sample chamber.*

SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100351

Date: 04/20/2015  
 Time: 13:44:08

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

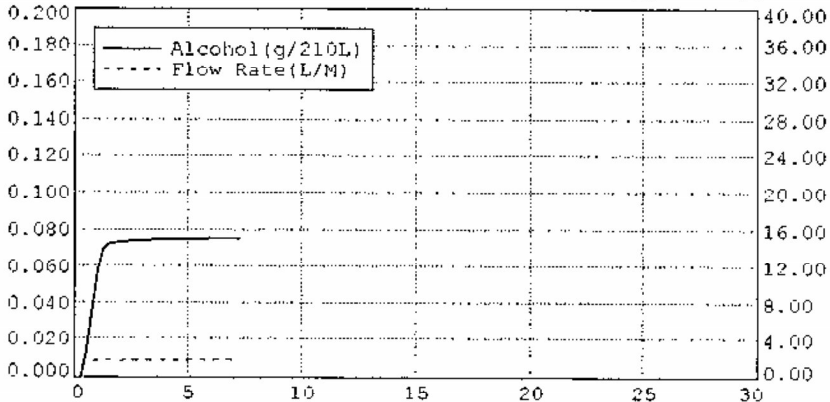
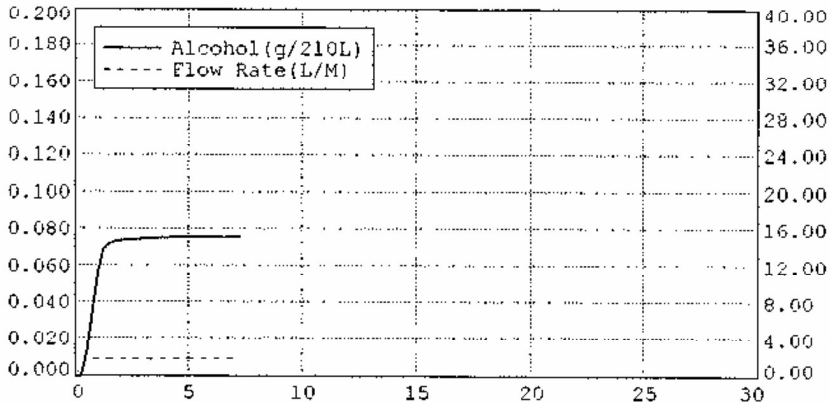
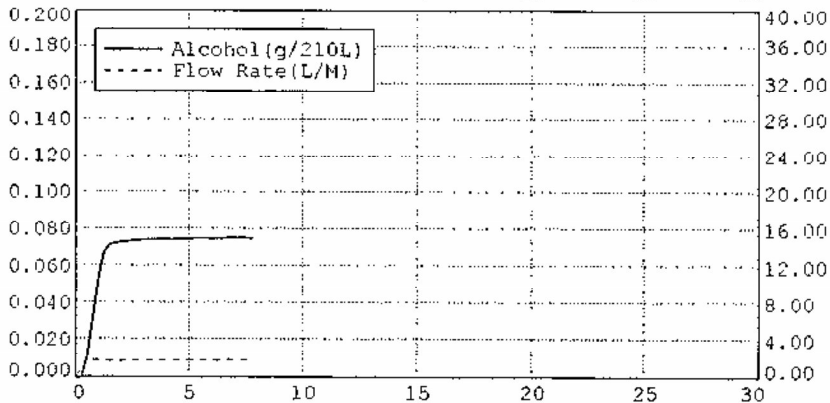
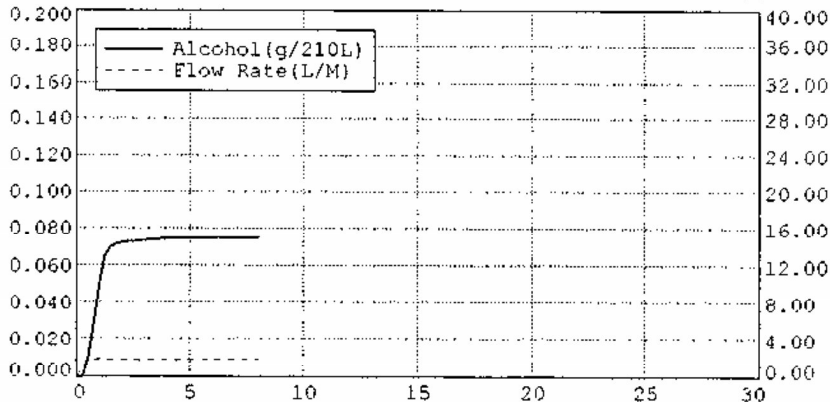
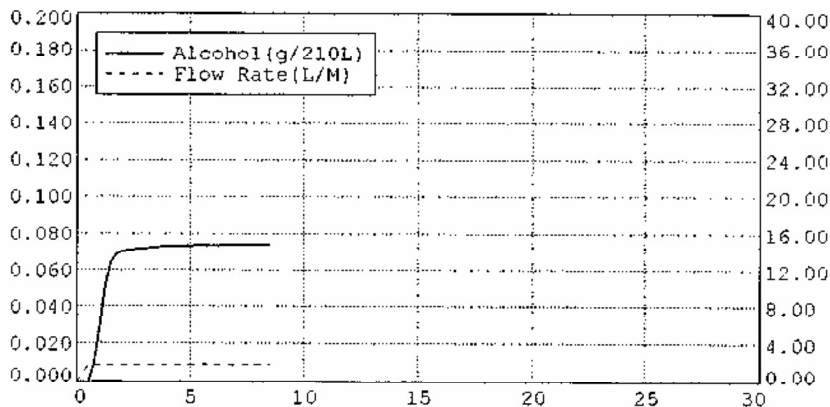
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.44: 0.079  
 LOT #: 09214080A2  
 EXPIRATION: 05/01/2016  
 TANK PRESSURE: 217 psi

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.076	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.077	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.077	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.077	13:49
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.077	13:50
BLANK TEST	0.000	13:51

Average = 0.0768  
 Std Dev = 0.0004

*Following regulator change.*



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100351

Date: 04/20/2015  
 Time: 14:11:06

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME

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

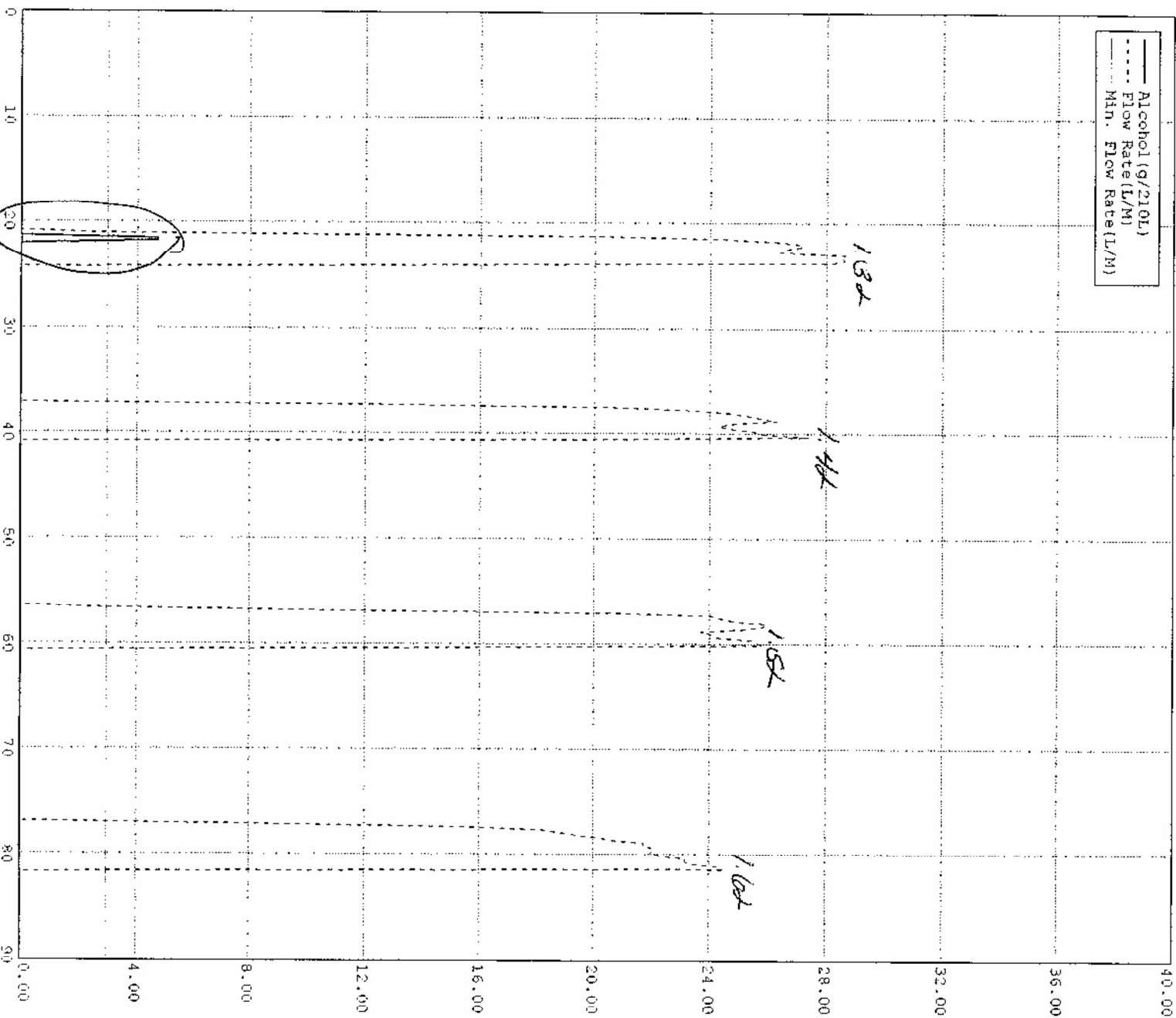
DEPT/AGENCY:  
 AAA1  
 CASE/REPORT: 15-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.41: 0.079  
 LOT #: 09214080A2  
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:12
BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.078	14:12
BLANK TEST	0.000	14:13
SUBJECT SAMPLE (Vol=1.55L)	0.000	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.078	14:16
BLANK TEST	0.000	14:16

*During certification with  
 New breath hose.*

*CB*



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

Date: 04/23/2015  
Time: 08:32:01

SUBJECT NAME:  
TEST TEST  
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:  
AAAI  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

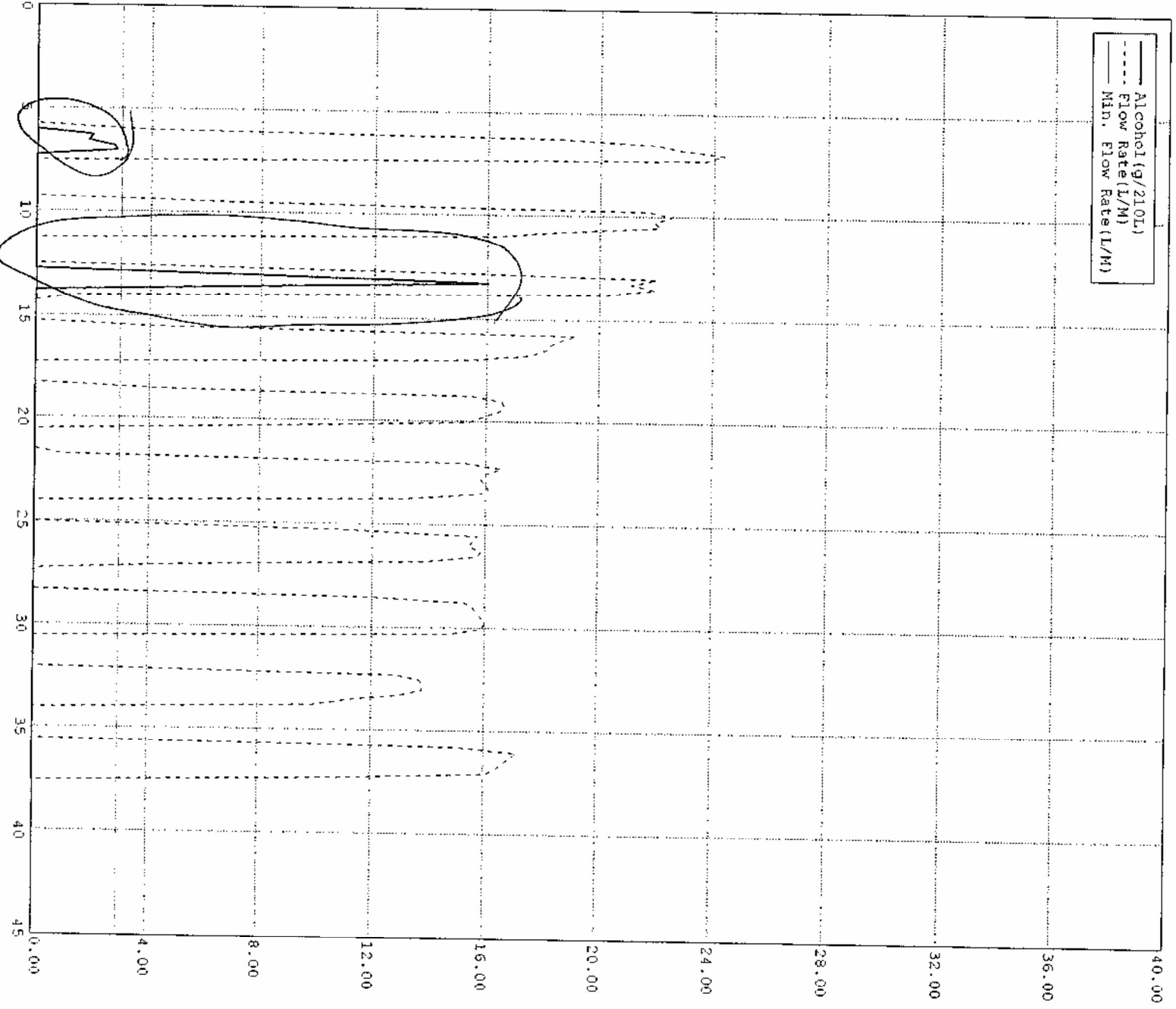
EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	08:33
BLANK TEST	0.000	08:33
INTERNAL STANDARD	VERIFIED	08:33
EXTERNAL STANDARD	0.078	08:34
BLANK TEST	0.000	08:35
SUBJECT SAMPLE	XXX	08:35

Maximum Attempts Exceeded

*During certification with  
new breath hose.*

*CS*





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

Date: 04/23/2015  
Time: 08:58:35

SUBJECT NAME:  
TEST TEST  
LICENSE #: NONDRINKING

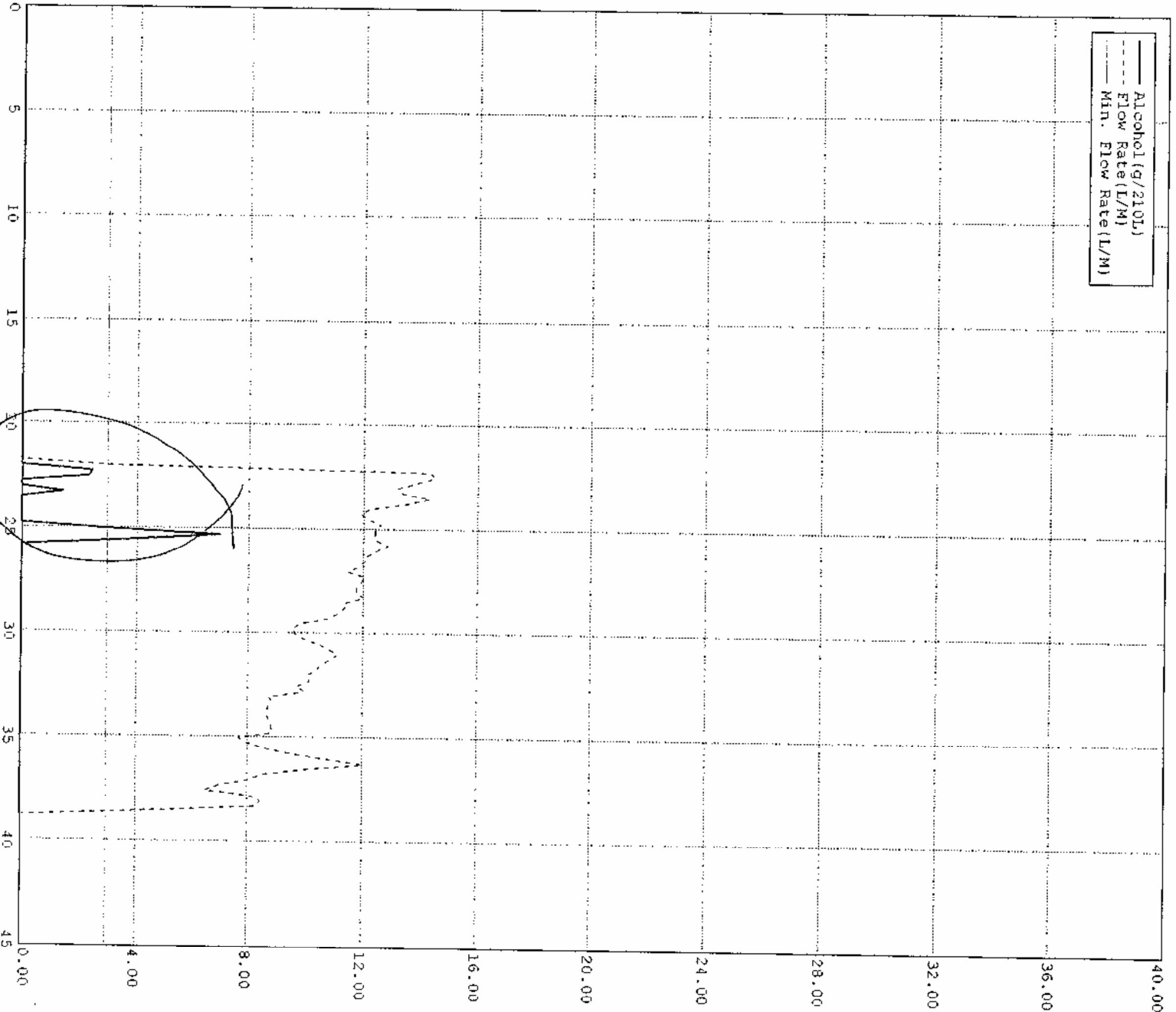
OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	08:59
BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.078	09:00
BLANK TEST	0.000	09:01
SUBJECT SAMPLE (Vol=2.94L)	0.000	09:02
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.078	09:03
BLANK TEST	0.000	09:04

*During certification with  
new breath hose.*



# VERIFICATION OF CALIBRATION REPORT

*of DataMaster dmt Breath Test Instrument*

*State of Alaska*

Serial #: 100351

*Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program*

Date: 04/20/2015

## External Standard Test Values

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.44: 0.079  
 LOT #: 09214080A2  
 EXPIRATION: 05/01/2016  
 TANK PRESSURE: 202 psi

BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:58
EXTERNAL STANDARD	0.077	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.078	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.078	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.078	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.077	14:03
BLANK TEST	0.000	14:03

Average = 0.0776  
 Std Dev = 0.0005

## Diagnostic Check

## VERSIONS

DMT: 3.00  
 PIC: 3.03  
 Modem: 2.6  
 Questions: 2.2

## TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 46.0°C	PASSED

## PUMP INFO

Flow Rate = 4.197 L/M	PASSED
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## 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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I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

\_\_\_\_\_  
 Nita J. Bolz  
 Scientific Director  
 State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_