

Alaska DMT Software Version 3.01 Evaluation

May 7, 2015

100673 was used in the evaluation

During routine evaluation of DataMaster DMTs in the laboratory it was discovered that if an external standard that is within 30 days of expiring is in use and a Verification of Calibration fails the software will allow subject testing to occur. This information was sent to the manufacturer and they reproduced the situation. A software revision (3.01) was sent to us for evaluation.

An external standard with an expiration date of 6/1/2015 was used. A blank error was triggered while a verification of calibration was in process. The 3.01 recognized this and did not allow any subject testing until a verification of calibration successfully completed. Also ran a subject test to confirm there were no changes made.

M. J. Kelly
5/11/2015

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100673

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/07/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015
TANK PRESSURE: 233 psi

BLANK TEST	0.000	08:10
INTERNAL STANDARD	VERIFIED	08:10
EXTERNAL STANDARD	0.046	08:10

Blank Error

Diagnostic Check

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

TEMPERATURES
Sample Chamber = 48.7°C PASSED
Breath Tube = 46.1°C PASSED

PUMP INFO
Flow Rate = 4.797 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

Instrument required a VOC after this failed
VOC

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 _____

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100673

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/07/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015
TANK PRESSURE: 230 psi

BLANK TEST	0.000	08:15
INTERNAL STANDARD	VERIFIED	08:16
EXTERNAL STANDARD	0.078	08:16
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.078	08:17
BLANK TEST	0.000	08:18
EXTERNAL STANDARD	0.078	08:18
BLANK TEST	0.000	08:19
EXTERNAL STANDARD	0.078	08:19
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.078	08:20
BLANK TEST	0.000	08:21

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 44.6°C PASSED

PUMP INFO

Flow Rate = 4.752 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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Nita J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20 _____

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 05/07/2015
Time: 08:22:53

SUBJECT NAME:
TEST TEST
LICENSE #: TEST

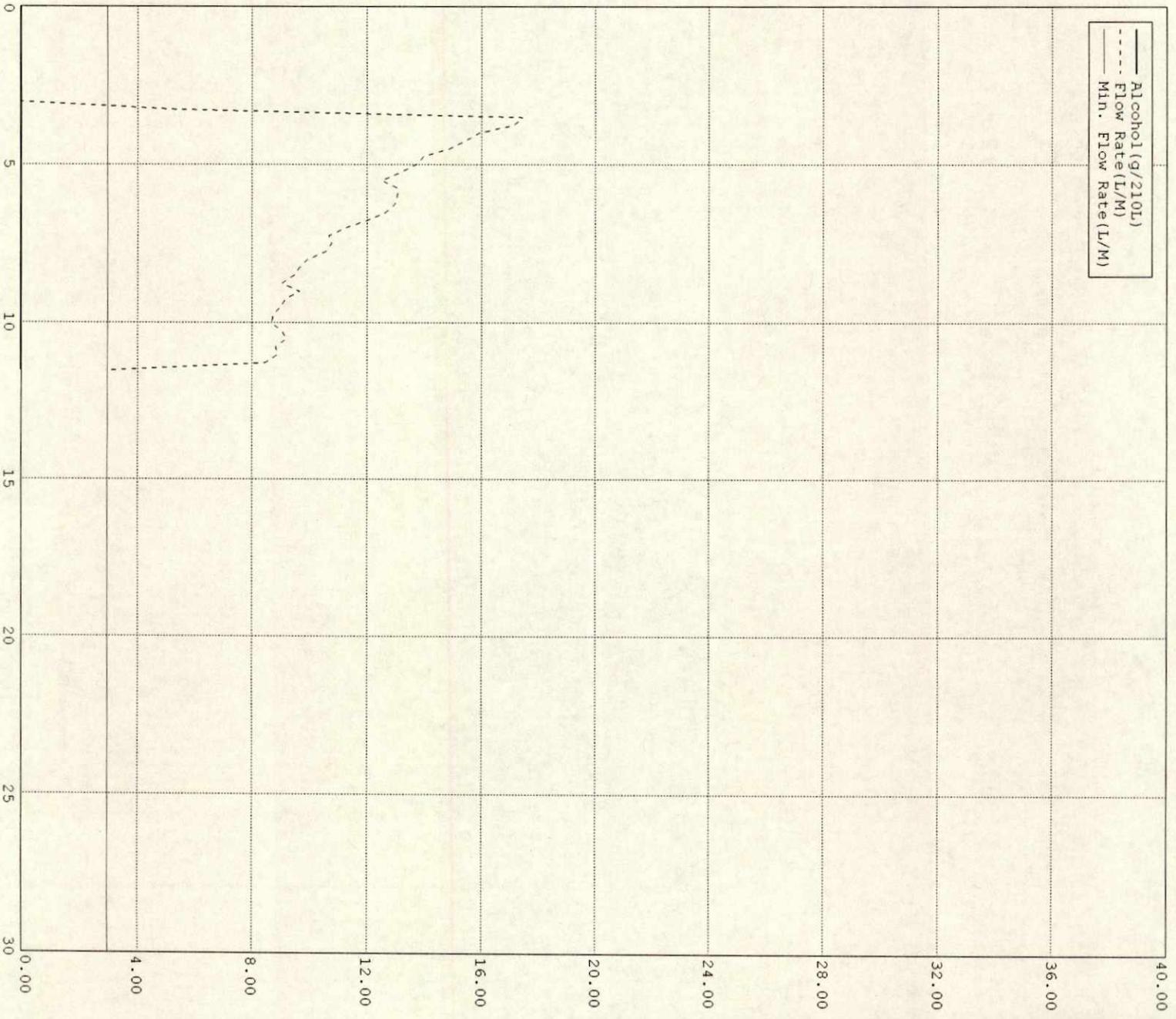
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7037

DEPT/AGENCY:
AAA1
CASE/REPORT: TEST
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:24
BLANK TEST	0.000	08:24
INTERNAL STANDARD	VERIFIED	08:24
EXTERNAL STANDARD	0.078	08:24
BLANK TEST	0.000	08:25
SUBJECT SAMPLE (Vol=1.57L)	0.000	08:26
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.078	08:27
BLANK TEST	0.000	08:28

BBB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 05/07/2015
Time: 08:33:26

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
AAA1
CASE/REPORT: TEST
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:34
BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
EXTERNAL STANDARD	0.039	08:34

Standard Out of Range

Bolz, Nita J (DPS)

From: Scott Marhefka <eng@npas.com>
Sent: Wednesday, May 06, 2015 9:49 AM
To: Bolz, Nita J (DPS)
Subject: Description of 3.01 software

Hello Nita,

We have changed the software from Version 3.00 to 3.01.

On 5/1/2015 Chuck Foster e-mailed

"I found that if a tank is installed that will be expired within the next month (leading to the status changing from "Ready <Push Run>" to "Ready <Change Tank Soon>") and a VoC fails, the status remains "Ready <Change Tank Soon>" instead of switching to "Ready <VoC Required>".

More importantly, this also allows for a subject test to be run even though the most recent VoC had failed. Nita wanted me to inform you of this issue and to see if you could reproduce it. It seems to only occur when the expiration date is approaching and not when the tank pressure is getting too low."

We confirmed that he was correct. The "Change Tank Soon" message was given priority over the "VoC Required" message which in turn permitted a subject test to be run. We changed the order of the logic so that the "VoC Required" message would be given priority so the DMT will operate as expected. This is the only change made from 3.00 to 3.01.

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