

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100423
Start Date: 10/3/23

Analyst(s): C.O. Bryant

Reason for Repair

Blank error during attempted adjustment.

Troubleshooting/Repair

Replaced detector.
Needs adjustment.
(Detector overflow) on attempted VOC due to new detector.
Attempted adjustment - Filter 3 won't zero
Filter wheel tests x 8 w/o errors
Attempted adjustment - Filter 3 won't zero
Recommend sending to Intox for repair.

VOC (attached) Verify software version
 VOC Internal Standard value $\leq 3.00\%$ Non-Drinking Subject Test (attached)

Ready for Adjustment Ready for Calibration
 Further Repair Needed Return to Factory
 Proceed to Close Out

End Date: ~~10/3/23~~ 10/17/23 COB

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100423

Analyst: C. O. Bryant

Date: 9/14/23

Reason for Adjustment

Failed Calibration Linearity @ 0.300 (twice)

0.100 Adjustment Simulator Solution

Manufacturer: Life/oc

Lot: 20HP41201

Expiration Date: 8/24/24

0.100 Adjustment Wet Bath Simulator

Serial Number: 501176

Verification Performed?

Calibrated External Thermometer

Serial Number: 210958384

Calibration Due Date: 11/9/23

Blank (Water) Wet Bath Simulator

Serial Number: ~~DR4178~~ DR4162 ^{COB 9/14/23}

Verification Performed?

*

* Failed adjustment due to blank errors.

COB 10/3/23

- Attach "Cal Factors"
- Attach Verification of Calibration (VOC)
- Internal Standard Value \leq 3.00%

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 09/14/2023
Time: 10:50:23

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0000 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0941 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Blank Error

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 09/14/2023
Time: 10:54:58

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0000 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0938 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Blank Error

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 09/14/2023
Time: 11:09:19

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0000 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0939 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Blank Error

*Detector replacement?
Multiple Blank errors
during attempted adjustment*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100423

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/03/2023

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.6°C

PASSED

Breath Tube = 44.2°C

PASSED

Detector Overflow

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100423

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2023

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.84 V PASSED
(1.09 V - 2.53 V)
Cooler Voltage = 1.56 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 521 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

Detector Overflow

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100423

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2023

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C

PASSED

Breath Tube = 44.0°C

PASSED

Detector Overflow

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 10/03/2023
Time: 15:50:33

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0000 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0000 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Filter 3 Won't Zero

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 10/03/2023
Time: 15:41:01

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0000 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0000 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Filter 3 Won't Zero