

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 3/20/2025

Version: 3.0

Instrument #: 100400

Analyst: Carlie Glaister

Date: 11/4/25

Reason for Adjustment

Internal standard errors & elevated filter 3 readings.
Internal standard/filters cleaned.

0.100 Adjustment Simulator Solution

Manufacturer: Life10C

Lot: 25CP41280

Expiration Date: 3/19/27

0.100 Adjustment Wet Bath Simulator

Serial Number: DR6267

Verification Performed? ☒

Calibrated External Thermometer

Serial Number: 250159297

Calibration Due Date: 3/14/27

Blank (Water) Wet Bath Simulator

Serial Number: DR4176

Verification Performed? ☒

- ☒ Turn pump on/off in the technician screen to prevent pump error on VOC
- ☒ Attach "Cal Factors"
- ☒ Attach Verification of Calibration (VOC)
- ☒ Internal Standard Value $\leq 3.00\%$

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 11/04/2025
Time: 10:27:45

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0085 0.0000 <= b1 < 0.0040
b2 = 0.0056 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.1067 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Adjustment Error

Adjustment error on first adjustment attempt.
Adjustment reattempted OK - 11/4/25

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 11/04/2025
Time: 10:36:21

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.984539 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.1038 0.0500 <= Xq < 0.2000
a21 = 1.201276 1.050 <= a21 < 1.300
a31 = 0.468455 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/04/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.52: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 1246 psi

BLANK TEST 0.000 10:56

INTERNAL STANDARD VERIFIED 10:56

Xq = 0.104 (0.08%)

EXTERNAL STANDARD 0.078 10:57

X[1] = 0.0778 (0.0011) (0.0019)

BLANK TEST 0.000 10:58

EXTERNAL STANDARD 0.078 10:58

X[1] = 0.0782 (0.0009) (0.0009)

BLANK TEST 0.000 10:59

EXTERNAL STANDARD 0.078 10:59

X[1] = 0.0782 (0.0003) (0.0008)

BLANK TEST 0.000 11:00

EXTERNAL STANDARD 0.078 11:00

X[1] = 0.0777 (0.0002) (0.0007)

BLANK TEST 0.000 11:01

EXTERNAL STANDARD 0.079 11:01

X[1] = 0.0786 (0.0007) (0.0010)

BLANK TEST 0.000 11:02

Average = 0.0782

Std Dev = 0.0004

Diagnostic Check

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 = 45.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED
(1.04 V - 2.44 V)

Cooler Voltage = 1.91 V PASSED
(1.15 V - 2.67 V)

Bias Voltage = 78 V PASSED
(47 V - 109 V)

Chopper Freq = 519 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.803 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED

(0.005 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 = 0.105 0.68% (0.00% - 4.00%) PASSED