

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Issued: 4/12/2018
Effective: 4/13/2018

Version: DMCAF 2018 R0
Status: Active

Instrument # 100674

Analyst Curlye Bailey
Derek Watten

Date: 5/19/2021

Reason for Calibration

Detector replaced

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifecloc
- c. Lot 20AP41118
- d. Expiration Date 1/15/2022

2. Wet Bath Simulator

- a. Serial Number DR 4163
- b. Date Calibrated 11/17/2020

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 05/19/2021
Time: 12:22:24

OPERATOR NAME:
CARLIE BAILEY
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.989156 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0036 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.1052 0.0500 <= Xq < 0.2000
a21 = 1.121970 1.050 <= a21 < 1.300
a31 = 0.426706 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100674

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/19/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 528 psi

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 13:06 |
| INTERNAL STANDARD | VERIFIED | 13:06 |
| Xq = 0.105 (0.17%) | | |
| EXTERNAL STANDARD | 0.077 | 13:06 |
| X[1] = 0.0767 (-0.0004) (0.0021) | | |
| BLANK TEST | 0.000 | 13:07 |
| EXTERNAL STANDARD | 0.077 | 13:07 |
| X[1] = 0.0769 (-0.0008) (0.0025) | | |
| BLANK TEST | 0.000 | 13:08 |
| EXTERNAL STANDARD | 0.077 | 13:09 |
| X[1] = 0.0775 (0.0002) (0.0025) | | |
| BLANK TEST | 0.000 | 13:09 |
| EXTERNAL STANDARD | 0.077 | 13:10 |
| X[1] = 0.0767 (-0.0006) (0.0027) | | |
| BLANK TEST | 0.000 | 13:11 |
| EXTERNAL STANDARD | 0.077 | 13:11 |
| X[1] = 0.0766 (-0.0007) (0.0031) | | |
| BLANK TEST | 0.000 | 13:12 |

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 49.0°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 48.1°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 2.06 V | PASSED |
| (1.24 V - 2.88 V) | |
| Cooler Voltage = 1.81 V | PASSED |
| (1.08 V - 2.52 V) | |
| Bias Voltage = 80 V | PASSED |
| (48 V - 112 V) | |
| Chopper Freq = 539 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.8 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 5.028 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 = 0.105 | 0.42% | (0.00% - 4.00%) | PASSED |
|------------|-------|-----------------|--------|