

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100344

Analyst Derek Walton

Date: 09/17/20

Reason for Calibration

Internal standard value > 3 %

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifetec
- c. Lot 20AP41118
- d. Expiration Date 01/15/2022

2. Wet Bath Simulator

- a. Serial Number DR6267
- b. Date Calibrated 10/08/19

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 09/17/2020
Time: 14:07:08

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.975312 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0029 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.1087 0.0500 <= Xq < 0.2000
a21 = 1.104109 1.050 <= a21 < 1.300
a31 = 0.580129 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100344

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/17/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 1236 psi

BLANK TEST 0.000 14:26
INTERNAL STANDARD ✓ VERIFIED 14:26
Xq = 0.109 (0.00%)
EXTERNAL STANDARD 0.077 14:26
X[1] = 0.0767 (0.0007) (0.0019)
BLANK TEST 0.000 14:27
EXTERNAL STANDARD 0.076 14:27
X[1] = 0.0764 (0.0002) (0.0021)
BLANK TEST 0.000 14:28
EXTERNAL STANDARD 0.077 14:28
X[1] = 0.0765 (0.0003) (0.0019)
BLANK TEST 0.000 14:29
EXTERNAL STANDARD 0.077 14:29
X[1] = 0.0769 (0.0005) (0.0017)
BLANK TEST 0.000 14:30
EXTERNAL STANDARD 0.077 14:30
X[1] = 0.0766 (0.0003) (0.0015)
BLANK TEST 0.000 14:31

Average = 0.0768
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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.25 V PASSED
(1.35 V - 3.15 V)
Cooler Voltage = 1.92 V PASSED
(1.15 V - 2.69 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 532 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 5.713 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 ✓ PASSED
Xq = 0.109 0.08% (0.00% - 4.00%)