

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100685
Date: 5/19/2021

Analyst Carlie Bouley
Dereh Watton

Reason for Calibration

Filter 2 values outside ± 0.0040 .

1. Wet Bath Simulator Solution

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

2. Wet Bath Simulator

- a. Serial Number DR4163
- b. Date Calibrated 11/17/2020

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100685

Date: 05/19/2021
Time: 12:29:12

OPERATOR NAME:
CARLIE BAILEY
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.997159 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0820 0.0500 <= Xq < 0.2000
a21 = 1.155237 1.050 <= a21 < 1.300
a31 = 0.498386 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100685

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: 780 psi

BLANK TEST	0.000	12:50
INTERNAL STANDARD	VERIFIED	12:50
Xq = 0.082 (0.42%)		
EXTERNAL STANDARD	0.077	12:50
X[1] = 0.0771 (-0.0015) (0.0034)		
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.077	12:51
X[1] = 0.0774 (-0.0010) (0.0025)		
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.078	12:52
X[1] = 0.0777 (-0.0009) (0.0025)		
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.077	12:53
X[1] = 0.0771 (-0.0018) (0.0026)		
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.077	12:54
X[1] = 0.0772 (-0.0017) (0.0029)		
BLANK TEST	0.000	12:55

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.06 V - 2.46 V)	
Cooler Voltage = 1.86 V	PASSED
(1.12 V - 2.60 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 538 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 5.409 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.081 0.64% (0.00% - 4.00%)