

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100365

Analyst Carlie Glaister

Date: 10/29/2021

### Reason for Calibration

Internal standard on VOC above 3% during evaluation

#### 1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Life100
- c. Lot 21DP41158
- d. Expiration Date 4/29/2023

#### 2. Wet Bath Simulator

- a. Serial Number DR5298
- b. Date Calibrated 6/16/2021

#### 3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
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Date: 10/29/2021  
Time: 13:41:08

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.986413    0.800 <= CAL < 1.200  
b1 = 0.0009    0.0000 <= b1 < 0.0040  
b2 = 0.0050    0.0010 <= b2 < 0.0100  
b3 = 0.0003    0.0000 <= b3 < 0.0040  
Xq = 0.1011    0.0500 <= Xq < 0.2000  
a21 = 1.179051    1.050 <= a21 < 1.300  
a31 = 0.461790    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/29/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.58: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 345 psi

BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:58
Xq = 0.100 (0.87%)		
EXTERNAL STANDARD	0.077	13:58
X[1] = 0.0769 (-0.0008) (0.0015)		
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.077	13:59
X[1] = 0.0765 (-0.0006) (0.0022)		
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.078	14:00
X[1] = 0.0783 (-0.0027) (0.0017)		
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.078	14:02
X[1] = 0.0777 (0.0014) (0.0019)		
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.078	14:03
X[1] = 0.0784 (0.0004) (0.0029)		
BLANK TEST	0.000	14:04

Average = 0.0776  
Std Dev = 0.0005

## 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 = 39.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.84 V	PASSED
(1.10 V - 2.58 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 524 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.699 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.007 V <= 0.010 V)	
PUMP OFF	PASSED
(0.004 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	VERIFIED	PASSED
Xq = 0.101 0.35% (0.00% - 4.00%)		