

# Alaska Scientific Crime Detection Laboratory

## DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100676

Analyst: Megan Corlock

Date: 6/19/24

*Supervised casework with  
Derek Walker 06/21/24 JMV*

### Reason for Adjustment

High internal standard values on Calibration (Rejected) performed on  
6/19/24.

### 0.100 Adjustment Simulator Solution

Manufacturer: Lifec

Lot: 22HP41201

Expiration Date: 8/24/24

### 0.100 Adjustment Wet Bath Simulator

Serial Number: SD1198

Verification Performed?

### Calibrated External Thermometer

Serial Number: 230631106

Calibration Due Date: 9/19/25

### Blank (Water) Wet Bath Simulator

Serial Number: DR5298

Verification Performed?

- Attach "Cal Factors"
- Attach Verification of Calibration (VOC)
- Internal Standard Value  $\leq$  3.00%

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100676  
-----

Date: 06/18/2024  
Time: 11:22:31

OPERATOR NAME:  
MEGAN CARLOCK  
CERTIFICATE #: 10747

Ca = 0.1000  
CAL = 0.996365    0.800 <= CAL < 1.200  
b1 = 0.0010    0.0000 <= b1 < 0.0040  
b2 = 0.0057    0.0010 <= b2 < 0.0100  
b3 = 0.0008    0.0000 <= b3 < 0.0040  
Xq = 0.0908    0.0500 <= Xq < 0.2000  
a21 = 1.240422    1.050 <= a21 < 1.300  
a31 = 0.582175    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100676

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/18/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.88: 0.080  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 464 psi

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
Xq = 0.090 (0.38%)		
EXTERNAL STANDARD	0.078	11:44
X[1] = 0.0780 (0.0013) (0.0021)		
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.078	11:45
X[1] = 0.0776 (0.0007) (0.0014)		
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.078	11:46
X[1] = 0.0783 (0.0006) (0.0019)		
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.078	11:47
X[1] = 0.0781 (0.0011) (0.0018)		
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.078	11:48
X[1] = 0.0784 (0.0013) (0.0021)		
BLANK TEST	0.000	11:49

Average = 0.0780  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.2°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.64 V	PASSED
(0.98 V - 2.30 V)	
Cooler Voltage = 1.70 V	PASSED
(1.01 V - 2.37 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 534 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.170 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 PASSED

Xq = 0.090 0.38% (0.00% - 4.00%)