

# Alaska Scientific Crime Detection Laboratory

## DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100349

Analyst: Kaija Swisher

Supervised by C. O'Bryant - 2024.06.18

C. O'Bryant

Date: 4/29/24

### Reason for Adjustment

Internal standard value was 2.95%, and over 3% during  
interference tests. (100349 2024.03.28 Calibration - Rejected).

### 0.100 Adjustment Simulator Solution

Manufacturer: lifeloc

Lot: ~~22HP41201~~ 22HP41201 KS 6/18/24

Expiration Date: 8/24/24

### 0.100 Adjustment Wet Bath Simulator

Serial Number: KS 4/24/24  
~~DR5298~~ 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

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Alaska Department of Public Safety  
DATAMASTER dmt: 100349  
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Date: 04/29/2024  
Time: 12:41:52

OPERATOR NAME:  
KAIJA SWISHER  
CERTIFICATE #: 10746

Ca = 0.1000  
CAL = 0.980299    0.800 <= CAL < 1.200  
b1 = 0.0005    0.0000 <= b1 < 0.0040  
b2 = 0.0057    0.0010 <= b2 < 0.0100  
b3 = 0.0009    0.0000 <= b3 < 0.0040  
Xq = 0.0777    0.0500 <= Xq < 0.2000  
a21 = 1.191043    1.050 <= a21 < 1.300  
a31 = 0.569042    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100349

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/29/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 798 psi

BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
Xq = 0.078 (0.56%)		
EXTERNAL STANDARD	0.078	13:04
X[1] = 0.0778 (-0.0007) (0.0009)		
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.079	13:06
X[1] = 0.0787 (0.0004) (0.0023)		
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.079	13:07
X[1] = 0.0792 (0.0001) (0.0015)		
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.079	13:08
X[1] = 0.0786 (0.0000) (0.0012)		
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.079	13:09
X[1] = 0.0790 (0.0003) (0.0017)		
BLANK TEST	0.000	13:10

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.05 V - 2.45 V)	
Cooler Voltage = 1.73 V	PASSED
(1.04 V - 2.42 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.564 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.079	1.56%	(0.00% - 4.00%)	PASSED
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