

# Alaska Scientific Crime Detection Laboratory

## DataMaster Adjustment Form

Effective: 3/20/2025

Version: 3.0

Instrument #: 100400

Analyst: Carlie Flaister

Date: 4/8/25

### Reason for Adjustment

Internal standard value close to 3% high (passing) filter 3 average during Rejected Calibration.

### 0.100 Adjustment Simulator Solution

Manufacturer: Life10C

Lot: 23IP41233

Expiration Date: 9/20/25

### 0.100 Adjustment Wet Bath Simulator

Serial Number: DR5298

Verification Performed?

### Calibrated External Thermometer

Serial Number: 230631106

Calibration Due Date: 9/19/25

### Blank (Water) Wet Bath Simulator

Serial Number: SD1202

Verification Performed?

- Turn pump on/off in the technician screen to prevent pump error on VOC
- Attach "Cal Factors"
- Attach Verification of Calibration (VOC)
- Internal Standard Value  $\leq$  3.00%

1st VOC attempt: Interference Detected on external standard, elevated filter 2 reading. Replaced the tank.

2nd VOC - completed. Filter 3 values remain high. Adjustment is rejected for this reason. Recommend cleaning filters in Repair. OLG 4/8/25

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100400  
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Date: 04/08/2025  
Time: 11:36:32

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca	=	0.1000		
CAL	=	0.986312	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0046	0.0010	<= b2 < 0.0100
b3	=	0.0002	0.0000	<= b3 < 0.0040
Xq	=	0.1095	0.0500	<= Xq < 0.2000
a21	=	1.185299	1.050	<= a21 < 1.300
a31	=	0.467693	0.300	<= a31 < 0.800

REJECTED

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/08/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.10: 0.078  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 410 psi

BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
Xq = 0.110 (0.08%)		
EXTERNAL STANDARD	0.076	11:53
X[1] = 0.0759 (0.0002) (0.0024)		
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.077	11:55
X[1] = 0.0766 (0.0002) (0.0030)		
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.076	11:56
X[1] = 0.0760 (-0.0003) (0.0029)		
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.076	11:57
X[1] = 0.0761 (-0.0008) (0.0025)		
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	INTERFERENCE	11:58
X[1] = 0.0764 (0.0906) (0.0023)		

Interference Detected

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 45.7°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.69 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.99 V PASSED  
(1.19 V - 2.79 V)  
Bias Voltage = 78 V PASSED  
(47 V - 109 V)  
Chopper Freq = 518 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.1 in

### PUMP INFO

Flow Rate = 4.695 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 = 0.109 0.16% (0.00% - 4.00%) PASSED

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/08/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.09: 0.078  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 348 psi

BLANK TEST	0.000	12:09
INTERNAL STANDARD	VERIFIED	12:09
Xq = 0.110 (0.16%)		
EXTERNAL STANDARD	0.077	12:09
X[1] = 0.0772 (0.0002) (0.0041)		
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.077	12:10
X[1] = 0.0769 (-0.0003) (0.0033)		
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.077	12:11
X[1] = 0.0768 (-0.0009) (0.0029)		
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.077	12:12
X[1] = 0.0772 (0.0000) (0.0033)		
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.077	12:13
X[1] = 0.0772 (0.0001) (0.0029)		
BLANK TEST	0.000	12:14

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 47.3°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.69 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.99 V PASSED  
(1.19 V - 2.79 V)  
Bias Voltage = 78 V PASSED  
(47 V - 109 V)  
Chopper Freq = 518 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.1 in

### PUMP INFO

Flow Rate = 4.658 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

Xq = 0.109 0.32% (0.00% - 4.00%) PASSED