

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100384

Analyst Carlie Glaister

Date: 10/29/2021

Reason for Calibration

Internal standard errors on VDCs

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Life100
- c. Lot 21 DP41158
- 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: 100384  
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Date: 10/29/2021  
Time: 12:59:57

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.976941    0.800 <= CAL < 1.200  
b1 = 0.0008    0.0000 <= b1 < 0.0040  
b2 = 0.0065    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.0903    0.0500 <= Xq < 0.2000  
a21 = 1.178742    1.050 <= a21 < 1.300  
a31 = 0.530893    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100384

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/29/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.57: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 908 psi

BLANK TEST	0.000	13:16
INTERNAL STANDARD	✓ VERIFIED	13:16
Xq = 0.089 (1.35%)		
EXTERNAL STANDARD	0.077	13:17
X[1] = 0.0773 (-0.0031) (0.0026)		
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.077	13:18
X[1] = 0.0771 (-0.0032) (0.0021)		
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.077	13:19
X[1] = 0.0772 (-0.0039) (0.0021)		
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.078	13:20
X[1] = 0.0777 (-0.0018) (0.0026)		
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.077	13:21
X[1] = 0.0775 (-0.0015) (0.0025)		
BLANK TEST	0.000	13:22

Average = 0.0772  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 46.7°C (38.0°C - 50.0°C)	PASSED

### SETTINGS

Lamp Voltage = 1.64 V (0.98 V - 2.30 V)	PASSED
Cooler Voltage = 1.78 V (1.07 V - 2.49 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 527 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.795 L/M (3.500 L/M - 6.500 L/M)	PASSED
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### DETECTOR INFO

PUMP ON (0.003 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	✓	PASSED
Xq = 0.089 0.97% (0.00% - 4.00%)		