

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100361

Analyst Derek Walton

Date: 01/22/20

### Reason for Calibration

Internal standard value >4%

#### 1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Autu
- c. Lot 18370
- d. Expiration Date 12/05/20

#### 2. Wet Bath Simulator

- a. Serial Number ~~18370~~ DR4177
- b. Date Calibrated 10/08/19

#### 3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100361  
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Date: 01/22/2020  
Time: 09:37:21

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 0.972848    0.800 <= CAL < 1.200  
b1 = 0.0001    0.0000 <= b1 < 0.0040  
b2 = 0.0042    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0793    0.0500 <= Xq < 0.2000  
a21 = 1.205857    1.050 <= a21 < 1.300  
a31 = 0.508812    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/22/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.40: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 884 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
Xq = 0.079 (0.11%)		
EXTERNAL STANDARD	0.075	10:00
X[1] = 0.0755 (0.0004) (0.0030)		
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.075	10:01
X[1] = 0.0755 (0.0006) (0.0025)		
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.076	10:02
X[1] = 0.0756 (0.0001) (0.0017)		
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.076	10:03
X[1] = 0.0758 (0.0006) (0.0021)		
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.076	10:04
X[1] = 0.0757 (0.0000) (0.0025)		
BLANK TEST	0.000	10:05

Average = 0.0756  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.4°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 2.14 V	PASSED
(1.28 V - 3.00 V)	
Cooler Voltage = 1.91 V	PASSED
(1.15 V - 2.67 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 535 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 3.983 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	0.99%	(0.00% - 4.00%)	PASSED
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