

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100412

Analyst Carrie Bailey
Deren Walton

Date: 5/19/2021

Reason for Calibration

Internal standard 74%

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifeloc
- c. Lot 20AP41118
- d. Expiration Date 1/15/2022

2. Wet Bath Simulator

- a. Serial Number DR 4163
- b. Date Calibrated 11/17/2020

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 05/19/2021
Time: 11:49:16

OPERATOR NAME:
CARLIE BAILEY
CERTIFICATE #: 10436

Ca	=	0.1000		
CAL	=	0.957572	0.800	<= CAL < 1.200
b1	=	0.0010	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0004	0.0000	<= b3 < 0.0040
Xq	=	0.0862	0.0500	<= Xq < 0.2000
a21	=	1.162237	1.050	<= a21 < 1.300
a31	=	0.556113	0.300	<= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/19/2021

Serial #: 100412

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 904 psi

BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:06
Xq = 0.087 (0.71%)		
EXTERNAL STANDARD	0.078	12:07
X[1] = 0.0780 (-0.0012) (0.0024)		
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.078	12:08
X[1] = 0.0779 (-0.0004) (0.0025)		
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.078	12:09
X[1] = 0.0778 (-0.0004) (0.0026)		
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.078	12:10
X[1] = 0.0781 (-0.0010) (0.0029)		
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.079	12:11
X[1] = 0.0785 (-0.0009) (0.0032)		
BLANK TEST	0.000	12:12

Average = 0.0782
Std Dev = 0.0004

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 = 44.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.71 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.957 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 = 0.087 1.01% (0.00% - 4.00%)	