

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100374

Analyst Carlisle Bailey

Date: 5/19/2021

Dereen Walton

Reason for Calibration

Failed certification due to linearity

1. Wet Bath Simulator Solution

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

2. Wet Bath Simulator

- a. Serial Number DR4163
- b. Date Calibrated 11/17/2020

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 05/19/2021
Time: 12:43:22

OPERATOR NAME:
CARLIE BAILEY
CERTIFICATE #: 10436

Ca	=	0.1000			
CAL	=	0.962604	0.800	<=	CAL < 1.200
b1	=	0.0012	0.0000	<=	b1 < 0.0040
b2	=	0.0076	0.0010	<=	b2 < 0.0100
b3	=	0.0010	0.0000	<=	b3 < 0.0040
Xq	=	0.0876	0.0500	<=	Xq < 0.2000
a21	=	1.207609	1.050	<=	a21 < 1.300
a31	=	0.391692	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 #: 100374

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 519 psi

BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
Xq = 0.087 (0.30%)		
EXTERNAL STANDARD	0.078	13:04
X[1] = 0.0785 (-0.0015) (0.0014)		
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.079	13:06
X[1] = 0.0788 (-0.0011) (0.0013)		
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.079	13:07
X[1] = 0.0787 (-0.0013) (0.0012)		
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.079	13:08
X[1] = 0.0791 (-0.0010) (0.0013)		
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.079	13:09
X[1] = 0.0791 (-0.0012) (0.0021)		
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 = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.59 V	PASSED
(0.95 V - 2.23 V)	
Cooler Voltage = 1.53 V	PASSED
(0.92 V - 2.14 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 = 4.965 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 = 0.088 0.30% (0.00% - 4.00%) PASSED