

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100699

Analyst Carlisle Bailey
Derck Watton

Date: 5/19/2021

Reason for Calibration

Internal standard > 4%

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Life 100
- c. Lot 20AP41118
- d. Expiration Date 1/15/2022

2. Wet Bath Simulator

- a. Serial Number DR 41163
- b. Date Calibrated 11/17/2020

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 05/19/2021
Time: 11:58:43

OPERATOR NAME:
CARLIE BAILEY
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.970671 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0057 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0788 0.0500 <= Xq < 0.2000
a21 = 1.157579 1.050 <= a21 < 1.300
a31 = 0.417855 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/19/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 650 psi

BLANK TEST	0.000	12:38
INTERNAL STANDARD ✓	VERIFIED	12:38
Xq = 0.079 (0.22%)		
EXTERNAL STANDARD	0.077	12:38
X[1] = 0.0770 (-0.0008) (0.0036)		
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.078	12:39
X[1] = 0.0776 (-0.0005) (0.0042)		
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.078	12:40
X[1] = 0.0779 (-0.0005) (0.0029)		
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.078	12:41
X[1] = 0.0780 (-0.0007) (0.0036)		
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.077	12:42
X[1] = 0.0774 (-0.0005) (0.0040)		
BLANK TEST	0.000	12:43

Average = 0.0776
Std Dev = 0.0005

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Cooler Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.780 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 ✓	PASSED
Xq = 0.078 0.99%	(0.00% - 4.00%)