

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100413

Analyst Carlie Flaister

Date: 10/29/2021

Reason for Calibration

Internal standard error

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Life100
- c. Lot 21DP41158
- d. Expiration Date 4/29/2023

2. Wet Bath Simulator

- a. Serial Number DR5298
- b. Date Calibrated 4/16/2021

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100413

Date: 10/29/2021
Time: 12:56:30

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.994710 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0793 0.0500 <= Xq < 0.2000
a21 = 1.134372 1.050 <= a21 < 1.300
a31 = 0.439394 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100413

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/29/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.58: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1224 psi

BLANK TEST	0.000	13:13
INTERNAL STANDARD	✓ VERIFIED	13:14
Xq = 0.079 (0.11%)		
EXTERNAL STANDARD	0.079	13:14
X[1] = 0.0791 (0.0000) (0.0018)		
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:15
X[1] = 0.0787 (-0.0002) (0.0013)		
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.079	13:16
X[1] = 0.0789 (-0.0003) (0.0012)		
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.079	13:17
X[1] = 0.0790 (-0.0002) (0.0019)		
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.079	13:18
X[1] = 0.0787 (-0.0010) (0.0018)		
BLANK TEST	0.000	13:19

Average = 0.0790
Std Dev = 0.0000

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 = 44.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Cooler Voltage = 1.87 V	PASSED
(1.12 V - 2.62 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 535 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.970 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 = 0.079	0.22%	(0.00% - 4.00%)