

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100405

Analyst: Carlie Glaister

Date: 7/12/2022

Reason for Calibration:

Failed linearity during Breath validation.

0.100 Calibration Simulator Solution

Manufacturer: LifeLOC

Lot: 21KP4172

Expiration Date: 11/9/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DR4178

Date Calibrated: 12/01/2021

Blank (Water) Wet Bath Simulator

Serial Number: DR6267

Date Calibrated: 11/29/2021

- Attach Calibration Factors
- Attach Verification of Calibration
- Internal Standard Value \leq 3.00%

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 07/12/2022
Time: 10:36:42

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.967144 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0886 0.0500 <= Xq < 0.2000
a21 = 1.098475 1.050 <= a21 < 1.300
a31 = 0.484885 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100405

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 1236 psi

BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
Xq = 0.089 (0.00%)		
EXTERNAL STANDARD	0.077	10:56
X[1] = 0.0768 (-0.0012) (0.0021)		
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.077	10:57
X[1] = 0.0769 (-0.0004) (0.0014)		
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.077	10:58
X[1] = 0.0775 (-0.0004) (0.0018)		
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.077	10:59
X[1] = 0.0770 (-0.0010) (0.0018)		
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.077	11:00
X[1] = 0.0772 (-0.0010) (0.0020)		
BLANK TEST	0.000	11:01

Average = 0.0770
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 = 46.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.72 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.71 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 5.325 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 = 0.089 0.30%	PASSED
(0.00% - 4.00%)	