

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100699

Analyst: Carlie Glaister

Date: 12/29/2021

Reason for Calibration:

Internal standard errors

0.100 Calibration Simulator Solution

Manufacturer: Lifetoc

Lot: 21DP41158

Expiration Date: 4/29/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DR5298

Date Calibrated: 6/16/2021

Blank (Water) Wet Bath Simulator

Serial Number: SD1199

Date Calibrated: 6/15/2021

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

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 12/29/2021
Time: 12:00:50

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.976429 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0059 0.0010 <= b2 < 0.0100
b3 = 0.0016 0.0000 <= b3 < 0.0040
Xq = 0.0772 0.0500 <= Xq < 0.2000
a21 = 1.162257 1.050 <= a21 < 1.300
a31 = 0.412623 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: 12/29/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 679 psi

BLANK TEST	0.000	12:32
INTERNAL STANDARD	VERIFIED	12:32
Xq = 0.077 (0.34%)		
EXTERNAL STANDARD	0.077	12:32
X[1] = 0.0774 (-0.0019) (0.0014)		
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.077	12:33
X[1] = 0.0773 (-0.0019) (0.0007)		
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.077	12:34
X[1] = 0.0772 (-0.0021) (-0.0004)		
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.077	12:35
X[1] = 0.0775 (-0.0022) (-0.0008)		
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.078	12:36
X[1] = 0.0777 (-0.0016) (0.0001)		
BLANK TEST	0.000	12:37

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.3°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 = 4.558 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 = 0.079 1.69% (0.00% - 4.00%)