

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100692

Analyst: Tatiana Malnoske

Date: 09/01/2022

Supervising Analyst: Carlie Glaister

Reason for Calibration:

During certification filter 3 average was 0.0038 internal standard was reading 2.31%. Decided to fail certification and calibrate instrument as a precaution.

0.100 Calibration Simulator Solution

Manufacturer: Lifeloc

Lot: 21KP41172

Expiration Date: 11/09/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DK4162

Date Calibrated: 11/29/2021

Blank (Water) Wet Bath Simulator

Serial Number: DKU267

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: 100692

Date: 09/01/2022
Time: 08:22:06

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.964068 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0925 0.0500 <= Xq < 0.2000
a21 = 1.163215 1.050 <= a21 < 1.300
a31 = 0.580475 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100692

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/01/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.21: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 985 psi

BLANK TEST	0.000	08:37
INTERNAL STANDARD	VERIFIED	08:37
Xq = 0.093 (0.57%)		
EXTERNAL STANDARD	0.077	08:38
X[1] = 0.0766 (-0.0002) (0.0018)		
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.076	08:39
X[1] = 0.0762 (-0.0006) (0.0017)		
BLANK TEST	0.000	08:40
EXTERNAL STANDARD	0.076	08:40
X[1] = 0.0763 (-0.0009) (0.0014)		
BLANK TEST	0.000	08:41
EXTERNAL STANDARD	0.077	08:41
X[1] = 0.0766 (-0.0006) (0.0017)		
BLANK TEST	0.000	08:42
EXTERNAL STANDARD	0.076	08:42
X[1] = 0.0763 (-0.0009) (0.0015)		
BLANK TEST	0.000	08:43

Average = 0.0764
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.2°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.85 V	PASSED
(1.11 V - 2.59 V)	
Cooler Voltage = 1.48 V	PASSED
(0.89 V - 2.07 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 534 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.106 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.093 0.19%	PASSED
(0.00% - 4.00%)	