

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100397

Analyst: Carlie Glaister

Date: 12/29/2021

Reason for Calibration:

Internal standard errors after replacing 5-way valve.

0.100 Calibration Simulator Solution

Manufacturer: Lifeloc

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: 100397

Date: 12/29/2021
Time: 12:07:55

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.981690 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0078 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0943 0.0500 <= Xq < 0.2000
a21 = 1.214245 1.050 <= a21 < 1.300
a31 = 0.511454 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100397

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/29/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.75: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 876 psi

BLANK TEST	0.000	12:24
INTERNAL STANDARD	VERIFIED	12:24
Xq = 0.094 (0.56%)		
EXTERNAL STANDARD	0.078	12:24
X[1] = 0.0783 (-0.0022) (0.0011)		
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.079	12:25
X[1] = 0.0790 (-0.0019) (0.0024)		
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.078	12:27
X[1] = 0.0783 (-0.0015) (0.0016)		
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.079	12:28
X[1] = 0.0785 (-0.0012) (0.0023)		
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.078	12:29
X[1] = 0.0780 (-0.0023) (0.0018)		
BLANK TEST	0.000	12:30

Average = 0.0784
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 46.8°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.69 V (1.01 V - 2.37 V)	PASSED
Cooler Voltage = 1.74 V (1.04 V - 2.44 V)	PASSED
Bias Voltage = 81 V (49 V - 113 V)	PASSED
Chopper Freq = 534 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.538 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.002 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.094 0.09% (0.00% - 4.00%)	