

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100669

Analyst Derch Walton

Date: 03/08/21

Reason for Calibration

Failed certification at linearity

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer LifeLoc
- c. Lot 20AP41118
- d. Expiration Date 01/15/22

2. Wet Bath Simulator

- a. Serial Number SD1199
- b. Date Calibrated 05/07/20

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100669

Date: 03/08/2021
Time: 14:44:06

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.961268 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0842 0.0500 <= Xq < 0.2000
a21 = 1.150184 1.050 <= a21 < 1.300
a31 = 0.531383 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100669

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1201 psi

BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:02
Xq = 0.084 (0.31%)		
EXTERNAL STANDARD	0.078	15:02
X[1] = 0.0776 (-0.0019) (0.0016)		
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.078	15:03
X[1] = 0.0777 (-0.0014) (0.0005)		
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.078	15:04
X[1] = 0.0781 (-0.0010) (0.0013)		
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.078	15:05
X[1] = 0.0782 (-0.0011) (0.0011)		
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.078	15:07
X[1] = 0.0785 (-0.0012) (0.0011)		
BLANK TEST	0.000	15:07

Average = 0.0780
Std Dev = 0.0000

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 = 43.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.63 V	PASSED
(0.98 V - 2.30 V)	
Cooler Voltage = 1.63 V	PASSED
(0.98 V - 2.28 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.535 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
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Xq = 0.084 0.21% (0.00% - 4.00%)