

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100422

Analyst Dereu Walton

Date: 10/04/2019

Reason for Calibration

Internal standard errors on attempted certification

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Autu
- c. Lot 18370
- d. Expiration Date 12/05/2020

2. Wet Bath Simulator

- a. Serial Number SD1198
- b. Date Calibrated 03/06/2019

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 10/04/2019
Time: 09:33:43

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 1.004874 0.800 <= CAL < 1.200
b1 = 0.0017 0.0000 <= b1 < 0.0040
b2 = 0.0063 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.1076 0.0500 <= Xq < 0.2000
a21 = 1.227246 1.050 <= a21 < 1.300
a31 = 0.426886 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1212 psi

BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:08
Xq = 0.108	(0.00%)	
EXTERNAL STANDARD	0.079	10:08
X[1] = 0.0790 (0.0013)	(0.0022)	
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.079	10:09
X[1] = 0.0792 (0.0016)	(0.0029)	
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.079	10:10
X[1] = 0.0793 (0.0018)	(0.0019)	
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.080	10:11
X[1] = 0.0795 (0.0014)	(0.0017)	
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.079	10:12
X[1] = 0.0794 (0.0009)	(0.0010)	
BLANK TEST	0.000	10:13

Average = 0.0792
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 = 45.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.81 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 546 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.711 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.005 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 = 0.108	0.49%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------