

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100369

Analyst Derck Walton

Date: 12/17/19

Reason for Calibration

filter 2
External standard values are close to limit

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Guth
- c. Lot 18370
- d. Expiration Date 12/05/20

2. Wet Bath Simulator

- a. Serial Number SD1202
- b. Date Calibrated 03/05/19

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 12/17/2019
Time: 13:08:22

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.971577 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0837 0.0500 <= Xq < 0.2000
a21 = 1.196816 1.050 <= a21 < 1.300
a31 = 0.486796 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100369

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/17/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1192 psi

BLANK TEST	0.000	13:35
INTERNAL STANDARD	VERIFIED	13:36
Xq = 0.084 (0.00%)		
EXTERNAL STANDARD	0.077	13:36
X[1] = 0.0769 (0.0002) (0.0024)		
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.077	13:37
X[1] = 0.0770 (0.0005) (0.0019)		
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.077	13:38
X[1] = 0.0768 (-0.0007) (0.0016)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.077	13:39
X[1] = 0.0769 (-0.0002) (0.0018)		
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.077	13:40
X[1] = 0.0767 (-0.0011) (0.0022)		
BLANK TEST	0.000	13:41

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.93 V - 2.17 V)	
Cooler Voltage = 1.66 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 5.200 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.083	0.42%	(0.00% - 4.00%)
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