

# Alaska Scientific Crime Detection Laboratory

## DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100365

Analyst: C. O. Bryant

Date: 9/14/23

Reason for Adjustment

Internal Standard errors  
- Adjusted twice. First time resulted in internal  
Standard reading of 3.1%

0.100 Adjustment Simulator Solution

Manufacturer: Life/oc

Lot: 22HP4/201

Expiration Date: 8/24/24

0.100 Adjustment Wet Bath Simulator

Serial Number: SD1176

Verification Performed?

Calibrated External Thermometer

Serial Number: 210958384

Calibration Due Date: 11/9/23

Blank (Water) Wet Bath Simulator

Serial Number: DR4162

Verification Performed?

- Attach "Cal Factors"
- Attach Verification of Calibration (VOC)
- Internal Standard Value  $\leq$  3.00%

CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 09/14/2023  
Time: 09:28:02

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

Ca = 0.1000  
CAL = 1.011450    0.800 <= CAL < 1.200  
b1 = 0.0010    0.0000 <= b1 < 0.0040  
b2 = 0.0050    0.0010 <= b2 < 0.0100  
b3 = 0.0007    0.0000 <= b3 < 0.0040  
Xq = 0.0921    0.0500 <= Xq < 0.2000  
a21 = 1.172680    1.050 <= a21 < 1.300  
a31 = 0.450786    0.300 <= a31 < 0.800

*Adjustment #1*  
*Not kept. 3.1% IS*  
*COB 9/14/23*

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/14/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.16: 0.078  
LOT #: AG135004  
EXPIRATION: 12/16/2023  
TANK PRESSURE: 692 psi

BLANK TEST	0.000	10:39
INTERNAL STANDARD	VERIFIED	10:39
Xq = 0.090 (2.18%)		
EXTERNAL STANDARD	0.080	10:39
X[1] = 0.0796 (0.0021) (0.0022)		
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.078	10:40
X[1] = 0.0782 (0.0007) (0.0003)		
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.079	10:42
X[1] = 0.0786 (-0.0009) (0.0010)		
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.080	10:43
X[1] = 0.0795 (0.0000) (0.0016)		
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.080	10:44
X[1] = 0.0800 (0.0003) (0.0014)		
BLANK TEST	0.000	10:45

Average = 0.0794  
Std Dev = 0.0009

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.439 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.007 V <= 0.010 V)	
PUMP OFF	PASSED
(0.004 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.080	PASSED
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3.13% (0.00% - 4.00%)

greater than 3%  
readjusted. COB 9/14/23  
VOC post adjustment #1

CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 09/14/2023  
Time: 11:20:56

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

Ca = 0.1000  
CAL = 1.001378    0.800 <= CAL < 1.200  
b1 = 0.0005    0.0000 <= b1 < 0.0040  
b2 = 0.0046    0.0010 <= b2 < 0.0100  
b3 = 0.0006    0.0000 <= b3 < 0.0040  
Xq = 0.0895    0.0500 <= Xq < 0.2000  
a21 = 1.177345    1.050 <= a21 < 1.300  
a31 = 0.442058    0.300 <= a31 < 0.800

*Adjustment #2*

*COB 9/14/23*

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/14/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.18: 0.078  
LOT #: AG135004  
EXPIRATION: 12/16/2023  
TANK PRESSURE: 652 psi

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:39
Xq = 0.088	(1.85%)	
EXTERNAL STANDARD	0.078	11:40
X[1] = 0.0777 (0.0005)	(0.0013)	
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.078	11:41
X[1] = 0.0784 (0.0011)	(-0.0001)	
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.078	11:42
X[1] = 0.0784 (0.0008)	(0.0021)	
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.078	11:43
X[1] = 0.0778 (0.0006)	(0.0016)	
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.078	11:44
X[1] = 0.0784 (0.0016)	(0.0016)	
BLANK TEST	0.000	11:45

Average = 0.0780  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.411 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
(0.003 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.090	0.98%	(0.00% - 4.00%)	PASSED
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