

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 7/10/2015  
Effective: 7/10/2015

Version: DMEF2015 R0  
Status: Active

Instrument # 100665

Date: 1/24/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Preventative maintenance, no instrumental issues

2. Visual Inspection

3. Troubleshooting/Repair

none

4. VOC (attached)

5. Internal Standard value  $\leq 3.00\%$  Yes  No

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100665

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/24/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.93: 0.077  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 359 psi

BLANK TEST 0.000 14:21  
INTERNAL STANDARD VERIFIED 14:21  
Xg = 0.130 (0.83%)  
EXTERNAL STANDARD 0.076 14:21  
X[1] = 0.0765 (0.0001) (-0.0005)  
BLANK TEST 0.000 14:22  
EXTERNAL STANDARD 0.076 14:22  
X[1] = 0.0761 (0.0002) (-0.0010)  
BLANK TEST 0.000 14:23  
EXTERNAL STANDARD 0.077 14:24  
X[1] = 0.0769 (-0.0002) (-0.0007)  
BLANK TEST 0.000 14:24  
EXTERNAL STANDARD 0.076 14:25  
X[1] = 0.0760 (0.0000) (0.0001)  
BLANK TEST 0.000 14:26  
EXTERNAL STANDARD 0.077 14:26  
X[1] = 0.0766 (-0.0001) (0.0005)  
BLANK TEST 0.000 14:27

Average = 0.0764  
Std Dev = 0.0005

## 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 = 47.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.64 V PASSED  
(0.98 V - 2.30 V)  
Cooler Voltage = 1.70 V PASSED  
(1.03 V - 2.41 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 551 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 28.9 in

### PUMP INFO

Flow Rate = 5.225 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.004 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 PASSED  
Xg = 0.129 (0.21%) (0.00% - 4.00%)

BMB  
1/24/17