

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 04/03/2018  
Effective: 04/04/2018

Version: DMEF2018 R0  
Status: Active

Instrument # 100400

Date: 12/12/19

Analyst: Derek Walton

1. Reason for instrument evaluation

Tank interference, standard out of range

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Replaced o-ring.

Routed filter wires separately.

Recommend calibration due to nature of status messages.

5. VOC (attached)

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

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/13/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.32: 0.078  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 499 psi

BLANK TEST	0.000	13:51
INTERNAL STANDARD	✓ VERIFIED	13:51
Xq = 0.106 (0.50%)		
EXTERNAL STANDARD	0.076	13:51
X[1] = 0.0763 (0.0023) (0.0015)		
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.077	13:52
X[1] = 0.0766 (0.0023) (0.0019)		
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.076	13:53
X[1] = 0.0764 (0.0016) (0.0010)		
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.077	13:54
X[1] = 0.0765 (0.0018) (0.0010)		
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.077	13:55
X[1] = 0.0767 (0.0016) (0.0015)		
BLANK TEST	0.000	13:56

Average = 0.0766  
Std Dev = 0.0005

## 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 = 48.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.67 V PASSED  
(0.95 V - 2.23 V)  
Bias Voltage = 79 V PASSED  
(48 V - 112 V)  
Chopper Freq = 513 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.3 in

### PUMP INFO

Flow Rate = 4.813 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  
Xq = 0.105 1.49% (0.00% - 4.00%)