

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100423

Date: 03/09/2020

Analyst: Derek Walton

1. Reason for instrument evaluation

No records in reports and printing issue reported by agency.

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

Breath nose damaged - replaced.

Many records visible in reports. Verified last few days of tests from memory and last VOC made it into DMaster.

Replaced internal SD card. Loaded 3.02 (full version) software.

VOC completed normally and printed normally.

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 #: 100423

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/09/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.20: 0.078  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 769 psi

BLANK TEST	0.000	10:08
INTERNAL STANDARD ✓	VERIFIED	10:08
Xq = 0.092 (1.22%)		
EXTERNAL STANDARD	0.076	10:09
X[1] = 0.0762 (-0.0016) (0.0010)		
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.076	10:10
X[1] = 0.0760 (-0.0024) (0.0005)		
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.076	10:11
X[1] = 0.0764 (-0.0016) (0.0004)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.076	10:12
X[1] = 0.0765 (-0.0021) (0.0000)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.076	10:13
X[1] = 0.0764 (-0.0016) (0.0005)		
BLANK TEST	0.000	10:14

Average = 0.0760  
Std Dev = 0.0000

## 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 = 46.9°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.76 V PASSED  
(1.09 V - 2.53 V)  
Cooler Voltage = 1.56 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 79 V PASSED  
(48 V - 112 V)  
Chopper Freq = 514 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.2 in

### PUMP INFO

Flow Rate = 4.742 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  
(0.003 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD ✓ PASSED  
Xq = 0.092 1.40% (0.00% - 4.00%)