

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100683

Date: 06/20/2018

Analyst: Derck Walton

1. Reason for instrument evaluation

Preventative Maintenance

2. Visual Inspection

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Clean                                | <input checked="" type="checkbox"/> Replace missing screws                |
| <input checked="" type="checkbox"/> Cermetex Box is secure               | <input checked="" type="checkbox"/> Ensure modem cable present            |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall | <input checked="" type="checkbox"/> All tubing and connections are secure |

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

4. Troubleshooting/Repair

Missing o-ring - replaced.

5. VOC (attached)

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

7. Verify software version  3.02

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 #: 100683

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/20/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.52: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 855 psi

|                                  |          |       |
|----------------------------------|----------|-------|
| BLANK TEST                       | 0.000    | 15:41 |
| INTERNAL STANDARD                | VERIFIED | 15:41 |
| Xq = 0.103 (0.59%)               |          |       |
| EXTERNAL STANDARD                | 0.079    | 15:42 |
| X[1] = 0.0789 (-0.0027) (0.0009) |          |       |
| BLANK TEST                       | 0.000    | 15:42 |
| EXTERNAL STANDARD                | 0.079    | 15:43 |
| X[1] = 0.0792 (-0.0017) (0.0012) |          |       |
| BLANK TEST                       | 0.000    | 15:44 |
| EXTERNAL STANDARD                | 0.080    | 15:44 |
| X[1] = 0.0795 (-0.0017) (0.0010) |          |       |
| BLANK TEST                       | 0.000    | 15:45 |
| EXTERNAL STANDARD                | 0.080    | 15:45 |
| X[1] = 0.0798 (-0.0019) (0.0005) |          |       |
| BLANK TEST                       | 0.000    | 15:46 |
| EXTERNAL STANDARD                | 0.080    | 15:46 |
| X[1] = 0.0799 (-0.0013) (0.0012) |          |       |
| BLANK TEST                       | 0.000    | 15:47 |

Average = 0.0796  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

DMT: 3.0C  
PIC: 3.03  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

|  |        |
|--|--------|
| Sample Chamber = 48.8°C<br>(44.0°C - 52.0°C) | PASSED |
| Breath Tube = 48.1°C<br>(39.0°C - 50.0°C)    | PASSED |

### SETTINGS

|  |        |
|--|--------|
| Lamp Voltage = 1.64 V<br>(1.00 V - 2.34 V)   | PASSED |
| Cooler Voltage = 1.64 V<br>(1.00 V - 2.32 V) | PASSED |
| Bias Voltage = 79 V<br>(48 V - 112 V)        | PASSED |
| Chopper Freq = 550 Hz<br>(475 Hz - 575 Hz)   | PASSED |
| Barometer = 29.6 in                          |        |

### PUMP INFO

|  |        |
|--|--------|
| Flow Rate = 4.238 L/M<br>(3.500 L/M - 6.500 L/M) | PASSED |
|--|--------|

### DETECTOR INFO

|                                  |        |
|----------------------------------|--------|
| PUMP ON<br>(0.002 V <= 0.010 V)  | PASSED |
| PUMP OFF<br>(0.002 V <= 0.010 V) | PASSED |

### FILTER INFO

|          |        |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

|                                  |        |
|----------------------------------|--------|
| INTERNAL STANDARD                | PASSED |
| Xq = 0.103 0.55% (0.00% - 4.00%) |        |