

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100381

Date: 06/24/19

Analyst: Derek Walton

1. Reason for instrument evaluation

Preventive maintenance

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

Added modem cable. O-ring gone - replaced.

Routed filter wires separately.

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 #: 100381

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/24/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 323 psi

| | | |
|-------------------------|-----------|-------|
| BLANK TEST | 0.000 | 14:22 |
| INTERNAL STANDARD | VERIFIED | 14:22 |
| Xq = 0.092 | (1.05%) | |
| EXTERNAL STANDARD | 0.076 | 14:22 |
| X[1] = 0.0761 (0.0008) | (-0.0014) | |
| BLANK TEST | 0.000 | 14:23 |
| EXTERNAL STANDARD | 0.077 | 14:24 |
| X[1] = 0.0766 (0.0000) | (-0.0011) | |
| BLANK TEST | 0.000 | 14:25 |
| EXTERNAL STANDARD | 0.077 | 14:25 |
| X[1] = 0.0774 (0.0001) | (-0.0016) | |
| BLANK TEST | 0.000 | 14:26 |
| EXTERNAL STANDARD | 0.077 | 14:26 |
| X[1] = 0.0775 (0.0000) | (-0.0010) | |
| BLANK TEST | 0.000 | 14:27 |
| EXTERNAL STANDARD | 0.077 | 14:27 |
| X[1] = 0.0769 (-0.0007) | (-0.0012) | |
| BLANK TEST | 0.000 | 14:28 |

Average = 0.0768
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 49.1°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 47.2°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.67 V | PASSED |
| (1.02 V - 2.38 V) | |
| Cooler Voltage = 1.68 V | PASSED |
| (0.97 V - 2.27 V) | |
| Bias Voltage = 79 V | PASSED |
| (47 V - 111 V) | |
| Chopper Freq = 534 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.8 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.921 L/M | PASSED |
| (3.500 L/M - 6.500 L/M) | |

DETECTOR INFO

| | |
|----------------------|--------|
| PUMP ON | PASSED |
| (0.003 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 = 0.092 (0.29%) (0.00% - 4.00%)