

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100373

Start Date: 11/2/2021

Analysts: Carlie Glaister

Reason for instrument evaluation

Returned from training

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermatex 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 |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Replaced o-ring

100373 2021.04.26 Check In recommended returning the instrument to the manufacturer for refurbishment. The laboratory is not sending instruments out for refurbishment at this time Instrument is ready for certification. CKG 11/3/2021

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 11/2/2021

All printed copies are uncontrolled.

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100373

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/02/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 371 psi

BLANK TEST 0.000 13:00
INTERNAL STANDARD ✓ VERIFIED 13:00
Xq = 0.082 (1.18%)
EXTERNAL STANDARD 0.076 13:01
X[1] = 0.0762 (-0.0011) (-0.0010)
BLANK TEST 0.000 13:01
EXTERNAL STANDARD 0.076 13:02
X[1] = 0.0757 (-0.0015) (-0.0014)
BLANK TEST 0.000 13:03
EXTERNAL STANDARD 0.075 13:03
X[1] = 0.0751 (-0.0018) (-0.0010)
BLANK TEST 0.000 13:04
EXTERNAL STANDARD 0.076 13:04
X[1] = 0.0758 (-0.0021) (0.0000)
BLANK TEST 0.000 13:05
EXTERNAL STANDARD 0.076 13:05
X[1] = 0.0756 (-0.0012) (0.0004)
BLANK TEST 0.000 13:06

Average = 0.0758
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.03 V - 2.39 V)
Cooler Voltage = 1.69 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 532 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.710 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 = 0.083 1.82% (0.00% - 4.00%)