

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100414

Start Date: 10/26/2021

Analysts: Carlie Glaister

Reason for instrument evaluation

Datamaster returned due to construction at agency.

Visual Inspection

- Clean
- Cermetex Box is secure
- Gas Valve upright or secured to wall
- O-ring inspection and ensure 2 O-rings in replacement bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections are secure

Troubleshooting/Repair

Gas valve was not adhering well to wall. Removed & reapplied double sided tape.
No o-ring present, added an o-ring.

- 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: 10/26/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100414

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/26/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.02: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1131 psi

BLANK TEST 0.000 14:08
INTERNAL STANDARD VERIFIED 14:09
Xq = 0.087 (0.10%)
EXTERNAL STANDARD 0.077 14:09
X[1] = 0.0771 (-0.0036) (-0.0010)
BLANK TEST 0.000 14:10
EXTERNAL STANDARD 0.077 14:10
X[1] = 0.0768 (-0.0029) (-0.0014)
BLANK TEST 0.000 14:11
EXTERNAL STANDARD 0.077 14:11
X[1] = 0.0765 (-0.0044) (-0.0012)
BLANK TEST 0.000 14:12
EXTERNAL STANDARD 0.077 14:12
X[1] = 0.0774 (-0.0037) (-0.0005)
BLANK TEST 0.000 14:13
EXTERNAL STANDARD 0.077 14:13
X[1] = 0.0773 (-0.0027) (-0.0002)
BLANK TEST 0.000 14:14

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.76 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 513 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.0 in

PUMP INFO

Flow Rate = 4.738 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 VERIFIED PASSED
Xq = 0.087 0.30% (0.00% - 4.00%)