

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100366

Start Date: 7/22/20

Analysts: C. O. Bryant

Reason for instrument evaluation

Preventative Maintenance

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

Troubleshooting/Repair

Installed modem cable
Secured gas valve
Attached 2 replacement O-rings +
replaced regulator O-ring
Installed full 3.02 software

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

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 7/22/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100366

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/22/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 266 psi

BLANK TEST 0.000 08:41
INTERNAL STANDARD VERIFIED 08:41
Xq = 0.100 (0.26%)
EXTERNAL STANDARD 0.077 08:41
X[1] = 0.0773 (-0.0022) (-0.0029)
BLANK TEST 0.000 08:42
EXTERNAL STANDARD 0.078 08:42
X[1] = 0.0776 (-0.0016) (-0.0023)
BLANK TEST 0.000 08:43
EXTERNAL STANDARD 0.077 08:43
X[1] = 0.0770 (-0.0017) (-0.0025)
BLANK TEST 0.000 08:44
EXTERNAL STANDARD 0.078 08:44
X[1] = 0.0778 (-0.0011) (-0.0016)
BLANK TEST 0.000 08:45
EXTERNAL STANDARD 0.077 08:45
X[1] = 0.0774 (-0.0017) (-0.0017)
BLANK TEST 0.000 08:46

Average = 0.0774
Std Dev = 0.0005

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 = 46.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.35 V PASSED
(1.46 V - 3.42 V)
Cooler Voltage = 1.99 V PASSED
(1.10 V - 2.58 V)
Bias Voltage = 81 V PASSED
(48 V - 112 V)
Chopper Freq = 523 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 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

Xq = 0.101 (0.97%) (0.00% - 4.00%) PASSED