

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100404

Start Date: 10/27/2021

Analysts: Carlisle Blaister

Reason for instrument evaluation

Preventative maintenance

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

Troubleshooting/Repair

Gas valve not secured to wall. Added double-sided tape & secured. Replaced O-ring, added bag w/ 2 replacement O-rings.

- VQE (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: 10/27/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100404

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/27/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 898 psi

BLANK TEST 0.000 14:33
INTERNAL STANDARD ✓ VERIFIED 14:33
Xq = 0.089 (0.39%)
EXTERNAL STANDARD 0.077 14:34
X[1] = 0.0769 (-0.0029) (-0.0002)
BLANK TEST 0.000 14:35
EXTERNAL STANDARD 0.077 14:35
X[1] = 0.0770 (-0.0031) (-0.0008)
BLANK TEST 0.000 14:36
EXTERNAL STANDARD 0.077 14:36
X[1] = 0.0768 (-0.0028) (-0.0007)
BLANK TEST 0.000 14:37
EXTERNAL STANDARD 0.077 14:37
X[1] = 0.0766 (-0.0042) (-0.0011)
BLANK TEST 0.000 14:38
EXTERNAL STANDARD 0.077 14:38
X[1] = 0.0767 (-0.0031) (-0.0008)
BLANK TEST 0.000 14:39

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 = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.71 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 82 V PASSED
(49 V - 115 V)
Chopper Freq = 521 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.579 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 = 0.089 0.29% (0.00% - 4.00%)