

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100699

Start Date: 12/18/20

Analysts: Derek Walton

Reason for instrument evaluation

Gas flow errors

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

Replaced regulator. Source block loose - tightened.
Adjusted lamp and cooler voltages.

Blank errors produced on VOC and internal standard
value > 3.00%. Recommend calibration.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$ *ND*
- Verify software version
- Return to Factory for Repair
- Ready for Calibration
- Ready for Certification
- Proceed to Close Out

End Date: 12/18/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/18/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.83: 0.077
LOT #: AG018102
EXPIRATION* 06/29/2022
TANK PRESSURE: 928 psi

BLANK TEST	0.000	10:24
INTERNAL STANDARD	VERIFIED	10:24
EXTERNAL STANDARD	0.073	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.073	10:26

Blank Error

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 44.3°C	PASSED

PUMP INFO

Flow Rate = 4.155 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

PASSED

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External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.84: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 914 psi

BLANK TEST 0.000 10:29
INTERNAL STANDARD ✓ VERIFIED 10:29
Xq = 0.072 (3.25%)
EXTERNAL STANDARD 0.073 10:30
X[1] = 0.0733 (-0.0038) (-0.0001)
BLANK TEST 0.000 10:30
EXTERNAL STANDARD 0.074 10:31
X[1] = 0.0740 (-0.0034) (-0.0006)
BLANK TEST 0.000 10:32
EXTERNAL STANDARD 0.074 10:32
X[1] = 0.0735 (-0.0039) (0.0001)

Blank Error

Diagnostic Check

VERSIONS ✓
DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED
(0.92 V - 2.14 V)
Cooler Voltage = 1.46 V PASSED
(0.88 V - 2.04 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 531 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.8 in

PUMP INFO

Flow Rate = 4.150 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 ✓ PASSED
Xq = 0.073 1.97% (0.00% - 4.00%)