

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100666

Date: 02/28/20

Analyst: Derck Walton

1. Reason for instrument evaluation

Preventive maintenance

2. 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 |

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

4. Troubleshooting/Repair

Detector at 0.4 volts, adjusted lamp and cooler voltages.

Software seems slow. Loaded full version of 3.02 and recalibrated touch screen.

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100666

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/28/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1133 psi

BLANK TEST	0.000	10:25
INTERNAL STANDARD ✓	VERIFIED	10:26
Xq = 0.091 (0.57%)		
EXTERNAL STANDARD	0.079	10:26
X[1] = 0.0794 (-0.0025) (0.0003)		
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.079	10:27
X[1] = 0.0790 (-0.0024) (-0.0001)		
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.079	10:28
X[1] = 0.0793 (-0.0023) (0.0009)		
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.079	10:29
X[1] = 0.0793 (-0.0024) (0.0000)		
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.079	10:30
X[1] = 0.0793 (-0.0021) (-0.0004)		
BLANK TEST	0.000	10:31

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 44.4°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.81 V (0.97 V - 2.27 V)	PASSED
Cooler Voltage = 1.58 V (0.92 V - 2.14 V)	PASSED
Bias Voltage = 79 V (47 V - 111 V)	PASSED
Chopper Freq = 526 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.865 L/M (3.500 L/M - 6.500 L/M)	PASSED
--	--------

DETECTOR INFO

PUMP ON (0.001 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.091 0.57% (0.00% - 4.00%)	