

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100695

Date: 12/6/17

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Removed for power issues

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Replaced o-ring on regulator.

Instrument on-off switch isn't working.

Replaced on-off switch.

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 #: 100695

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/13/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 395 psi

BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
Xq = 0.112	(2.34%)	
EXTERNAL STANDARD	0.077	11:25
X[1] = 0.0769	(-0.0015) (0.0005)	
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.076	11:26
X[1] = 0.0763	(-0.0005) (0.0008)	
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.076	11:27
X[1] = 0.0761	(-0.0015) (-0.0004)	
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.076	11:28
X[1] = 0.0761	(-0.0020) (-0.0003)	
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.076	11:29
X[1] = 0.0762	(-0.0010) (0.0004)	
BLANK TEST	0.000	11:30

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.63
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(0.95 V - 2.23 V)
Cooler Voltage = 1.71 V PASSED
(0.95 V - 2.21 V)
Bias Voltage = 79 V PASSED
(49 V - 113 V)
Chopper Freq = 557 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.235 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 = 0.112 2.66% (0.00% - 4.00%)