

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100696

Date: 2/26/16

Analyst: CNF

1. Reason for instrument evaluation

Returned from NPAS - Calibration Failures

2. Visual Inspection

3. Troubleshooting/Repair

Calibrated at NPAS

VOC Passed

4. VOC (attached)

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

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/26/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.00: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 629 psi

BLANK TEST 0.000 14:00
INTERNAL STANDARD VERIFIED 14:01
Xq = 0.104 (0.76%)
EXTERNAL STANDARD 0.078 14:01
X[1] = 0.0783 (-0.0015) (-0.0027)
BLANK TEST 0.000 14:02
EXTERNAL STANDARD 0.077 14:02
X[1] = 0.0774 (-0.0024) (-0.0028)
BLANK TEST 0.000 14:03
EXTERNAL STANDARD 0.077 14:03
X[1] = 0.0774 (-0.0028) (-0.0023)
BLANK TEST 0.000 14:04
EXTERNAL STANDARD 0.078 14:04
X[1] = 0.0776 (-0.0024) (-0.0025)
BLANK TEST 0.000 14:05
EXTERNAL STANDARD 0.078 14:05
X[1] = 0.0775 (-0.0028) (-0.0021)
BLANK TEST 0.000 14:06

Average = 0.0776
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 41.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED
(1.04 V - 2.44 V)
Cooler Voltage = 1.77 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 517 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.0 in

PUMP INFO

Flow Rate = 4.475 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED
Xq = 0.103 0.34% (0.00% - 4.00%)