

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100373

Date: 10/5/16

Analyst: AST/Menana

1. Reason for instrument evaluation

gas flow errors

2. Visual Inspection

3. Troubleshooting/Repair

Replaced regulator and o-ring on regulator.

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 #: 100373

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/05/2016

External Standard Test Values

Diagnostic Check

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 01315080A2
 EXPIRATION: 02/05/2017
 TANK PRESSURE: 811 psi

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
 (44.0°C - 52.0°C)
 Breath Tube = 46.9°C PASSED
 (38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.71 V PASSED
 (1.03 V - 2.39 V)
 Cooler Voltage = 1.66 V PASSED
 (0.97 V - 2.25 V)
 Bias Voltage = 79 V PASSED
 (47 V - 111 V)
 Chopper Freq = 530 Hz PASSED
 (475 Hz - 575 Hz)
 Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.743 L/M PASSED
 (3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
 (0.003 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

Xq = 0.080 1.92% (0.00% - 4.00%) PASSED

BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:34
Xq = 0.082 (0.32%)		
EXTERNAL STANDARD	0.077	10:34
X[1] = 0.0772 (-0.0011) (0.0017)		
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.077	10:35
X[1] = 0.0772 (-0.0009) (0.0008)		
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.078	10:36
X[1] = 0.0782 (-0.0011) (0.0013)		
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.078	10:38
X[1] = 0.0776 (-0.0017) (0.0003)		
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.079	10:39
X[1] = 0.0787 (-0.0009) (0.0010)		
BLANK TEST	0.000	10:40

Average = 0.0778
 Std Dev = 0.0008