

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 6/27/2017
Effective: 7/3/2017

Version: DMEF2017 R0
Status: Active

Instrument # 100406

Date: 8/3/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Pump fail on Diagnostic

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

set screw on 5 way valve missing.

Replaced 5-way valve - no more pump fail

Gas flow error on VOC

Replaced regulator - no gas flow error on VOC

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

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 08/03/2017
Time: 14:05:34

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 44.8°C PASSED

PUMP INFO

Flow Rate = 0.000 L/M FAILED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 08/03/2017
Time: 14:26:25

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 40.4°C PASSED

PUMP INFO

Flow Rate = 5.056 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/03/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.07: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 711 psi

BLANK TEST 0.000 14:32
INTERNAL STANDARD VERIFIED 14:32

Gas Flow Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 42.0°C PASSED

PUMP INFO

Flow Rate = 5.023 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date:08/04/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 704 psi

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 09:53 |
| INTERNAL STANDARD | VERIFIED | 09:53 |
| Xq = 0.103 (1.83%) | | |
| EXTERNAL STANDARD | 0.080 | 09:53 |
| X[1] = 0.0796 (0.0003) (0.0043) | | |
| BLANK TEST | 0.000 | 09:54 |
| EXTERNAL STANDARD | 0.079 | 09:55 |
| X[1] = 0.0794 (-0.0005) (0.0042) | | |
| BLANK TEST | 0.000 | 09:55 |
| EXTERNAL STANDARD | 0.080 | 09:56 |
| X[1] = 0.0796 (0.0010) (0.0034) | | |
| BLANK TEST | 0.000 | 09:57 |
| EXTERNAL STANDARD | 0.080 | 09:57 |
| X[1] = 0.0799 (0.0010) (0.0029) | | |
| BLANK TEST | 0.000 | 09:58 |
| EXTERNAL STANDARD | 0.079 | 09:58 |
| X[1] = 0.0795 (0.0002) (0.0027) | | |
| BLANK TEST | 0.000 | 09:59 |

Average = 0.0796
Std Dev = 0.0005

Diagnostic Check

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 = 42.6°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.76 V | PASSED |
| (1.09 V - 2.55 V) | |
| Cooler Voltage = 1.76 V | PASSED |
| (1.06 V - 2.46 V) | |
| Bias Voltage = 80 V | PASSED |
| (47 V - 111 V) | |
| Chopper Freq = 528 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 30.1 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 5.120 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

| | |
|----------------------------------|--------|
| Xq = 0.102 1.48% (0.00% - 4.00%) | PASSED |
|----------------------------------|--------|