

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100366

Date: 8/9/16

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Chopper frequency failing on Diagnostic

2. Visual Inspection

3. Troubleshooting/Repair

set chopper frequency to 525

replaced regulator o-ring

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 #: 100366

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/09/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 958 psi

| | | |
|-----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 10:48 |
| INTERNAL STANDARD | VERIFIED | 10:48 |
| Xq = 0.101 (0.70%) | | |
| EXTERNAL STANDARD | 0.078 | 10:49 |
| X[1] = 0.0785 (-0.0010) (-0.0012) | | |
| BLANK TEST | 0.000 | 10:50 |
| EXTERNAL STANDARD | 0.078 | 10:50 |
| X[1] = 0.0783 (-0.0010) (-0.0008) | | |
| BLANK TEST | 0.000 | 10:51 |
| EXTERNAL STANDARD | 0.078 | 10:51 |
| X[1] = 0.0782 (-0.0009) (-0.0008) | | |
| BLANK TEST | 0.000 | 10:52 |
| EXTERNAL STANDARD | 0.078 | 10:52 |
| X[1] = 0.0784 (-0.0019) (-0.0009) | | |
| BLANK TEST | 0.000 | 10:53 |
| EXTERNAL STANDARD | 0.078 | 10:53 |
| X[1] = 0.0783 (-0.0013) (-0.0007) | | |
| BLANK TEST | 0.000 | 10:54 |

Average = 0.0780
Std Dev = 0.0000

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 = 46.0°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 2.35 V | PASSED |
| (1.46 V - 3.42 V) | |
| Cooler Voltage = 1.99 V | PASSED |
| (1.10 V - 2.58 V) | |
| Bias Voltage = 81 V | PASSED |
| (48 V - 112 V) | |
| Chopper Freq = 527 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.6 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.756 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 |
| (0.002 V <= 0.010 V) | |

FILTER INFO

| | |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

INTERNAL STANDARD PASSED

Xq = 0.101 0.79% (0.00% - 4.00%)