

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100693

Date: 03/08/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Blank error, Internal Standard error, Standard out of range

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Replaced O-ring. Routed filter wires separately. Loaded full version of 3.02 software. Interference detected on external standard on VOC. 2nd VOC and repeated subject tests did not have an Interference status message. Internal standard offset is approaching 3.00%. Recommend instrument calibration.

One electronic spike was observed in the first non-drinking subject test.

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 #: 100693

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.42: 0.079
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 439 psi

| | | |
|-------------------------|--------------|----------|
| BLANK TEST | 0.000 | 13:16 |
| INTERNAL STANDARD | VERIFIED | 13:16 |
| Xq = 0.090 | (2.68%) | |
| EXTERNAL STANDARD | 0.077 | 13:17 |
| X[1] = 0.0774 (-0.0010) | (0.0003) | |
| BLANK TEST | 0.000 | 13:18 |
| EXTERNAL STANDARD | 0.077 | 13:18 |
| X[1] = 0.0765 (-0.0017) | (0.0003) | |
| BLANK TEST | 0.000 | 13:19 |
| EXTERNAL STANDARD | 0.077 | 13:19 |
| X[1] = 0.0766 (-0.0014) | (0.0004) | |
| BLANK TEST | 0.000 | 13:20 |
| EXTERNAL STANDARD | 0.076 | 13:20 |
| X[1] = 0.0765 (-0.0006) | (0.0002) | |
| BLANK TEST | 0.000 | 13:21 |
| EXTERNAL STANDARD | INTERFERENCE | 13:21 |
| X[1] = 0.0761 | (0.0057) | (0.0005) |

Interference Detected

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 48.7°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 46.0°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.72 V | PASSED |
| (0.95 V - 2.23 V) | |
| Cooler Voltage = 1.67 V | PASSED |
| (1.00 V - 2.34 V) | |
| Bias Voltage = 79 V | PASSED |
| (48 V - 112 V) | |
| Chopper Freq = 537 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.4 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.349 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 |
| (0.004 V <= 0.010 V) | |

FILTER INFO

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

INTERNAL STANDARD

| | | | |
|------------|---------|-----------------|--------|
| Xq = 0.089 | (1.89%) | (0.00% - 4.00%) | PASSED |
|------------|---------|-----------------|--------|

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100693

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.41: 0.079
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 421 psi

| | | |
|-------------------------|----------|-------|
| BLANK TEST | 0.000 | 13:32 |
| INTERNAL STANDARD | VERIFIED | 13:32 |
| Xq = 0.090 | (2.88%) | |
| EXTERNAL STANDARD | 0.077 | 13:32 |
| X[1] = 0.0770 (-0.0003) | (0.0009) | |
| BLANK TEST | 0.000 | 13:33 |
| EXTERNAL STANDARD | 0.077 | 13:34 |
| X[1] = 0.0765 (-0.0007) | (0.0012) | |
| BLANK TEST | 0.000 | 13:34 |
| EXTERNAL STANDARD | 0.077 | 13:35 |
| X[1] = 0.0767 (-0.0008) | (0.0011) | |
| BLANK TEST | 0.000 | 13:36 |
| EXTERNAL STANDARD | 0.077 | 13:36 |
| X[1] = 0.0770 (-0.0002) | (0.0012) | |
| BLANK TEST | 0.000 | 13:37 |
| EXTERNAL STANDARD | 0.077 | 13:37 |
| X[1] = 0.0768 (-0.0008) | (0.0009) | |
| BLANK TEST | 0.000 | 13:38 |

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 49.1°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 45.1°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.72 V | PASSED |
| (0.95 V - 2.23 V) | |
| Cooler Voltage = 1.67 V | PASSED |
| (1.00 V - 2.34 V) | |
| Bias Voltage = 79 V | PASSED |
| (48 V - 112 V) | |
| Chopper Freq = 540 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.4 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.458 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 = 0.090 | (2.88%) (0.00% - 4.00%) |

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100693

Date: 03/08/2019
 Time: 13:42:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

DEPT/AGENCY:
 NON-DRINKING SUBJECT
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.40: 0.079
 LOT #: AG735001
 EXPIRATION: 12/16/2019

| | | |
|----------------------------|-----------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:43 |
| BLANK TEST | 0.000 | 13:43 |
| INTERNAL STANDARD | VERIFIED | 13:43 |
| Xq = 0.090 (2.48%) | | |
| EXTERNAL STANDARD | 0.077 | 13:43 |
| X[1] = 0.0770 (-0.0009) | (0.0021) | |
| BLANK TEST | 0.000 | 13:44 |
| SUBJECT SAMPLE (Vol=2.44L) | 0.000 | 13:44 |
| X[1] = 0.0000 (-0.0013) | (0.0000) | |
| BLANK TEST | 0.000 | 13:45 |
| EXTERNAL STANDARD | 0.077 | 13:46 |
| X[1] = 0.0775 (-0.0002) | (0.0020) | |
| BLANK TEST | 0.000 | 13:46 |
| SUBJECT SAMPLE (Vol=2.94L) | 0.000 | 13:47 |
| X[1] = 0.0000 (-0.0014) | (-0.0005) | |
| BLANK TEST | 0.000 | 13:48 |
| EXTERNAL STANDARD | 0.077 | 13:48 |
| X[1] = 0.0774 (0.0003) | (0.0020) | |
| BLANK TEST | 0.000 | 13:49 |
| SUBJECT SAMPLE (Vol=2.22L) | 0.000 | 13:49 |
| X[1] = 0.0000 (0.0000) | (0.0000) | |
| BLANK TEST | 0.000 | 13:50 |
| EXTERNAL STANDARD | 0.077 | 13:50 |

DMC

B:

