

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100417

Start Date: 7/14/20

Analysts: C. O'Bryant

Reason for instrument evaluation

Tried to certify the instrument and all USB ports were non-responsive.

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box is secure *(New board)*
- Ensure modem cable present
- Gas Valve upright or secured to wall
- All tubing and connections are secure
- O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

Switched keyboard and USB port still would not connect. Replaced modem board + connectivity was restored.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 7/14/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100417

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/14/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 328 psi

| | | |
|-------------------------|-----------|-------|
| BLANK TEST | 0.000 | 11:53 |
| INTERNAL STANDARD | VERIFIED | 11:53 |
| Xq = 0.093 | (0.65%) | |
| EXTERNAL STANDARD | 0.079 | 11:54 |
| X[1] = 0.0793 (0.0002) | (0.0007) | |
| BLANK TEST | 0.000 | 11:54 |
| EXTERNAL STANDARD | 0.079 | 11:55 |
| X[1] = 0.0790 (-0.0010) | (-0.0001) | |
| BLANK TEST | 0.000 | 11:56 |
| EXTERNAL STANDARD | 0.079 | 11:56 |
| X[1] = 0.0792 (-0.0012) | (0.0002) | |
| BLANK TEST | 0.000 | 11:57 |
| EXTERNAL STANDARD | 0.079 | 11:57 |
| X[1] = 0.0789 (-0.0006) | (0.0000) | |
| BLANK TEST | 0.000 | 11:58 |
| EXTERNAL STANDARD | 0.079 | 11:58 |
| X[1] = 0.0789 (-0.0005) | (0.0001) | |
| BLANK TEST | 0.000 | 11:59 |

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 49.1°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 47.8°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.89 V | PASSED |
| (1.13 V - 2.65 V) | |
| Cooler Voltage = 1.89 V | PASSED |
| (1.13 V - 2.65 V) | |
| Bias Voltage = 80 V | PASSED |
| (48 V - 112 V) | |
| Chopper Freq = 524 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.6 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.950 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 PASSED

Xq = 0.093 (0.93%) (0.00% - 4.00%)