

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100403

Start Date: 11/3/2021

Analysts: Carrie Blaister

Reason for instrument evaluation

preventative maintenance

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall | <input checked="" type="checkbox"/> All tubing and connections are secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Added double sided tape to gas valve & secured to wall. Replaced o-ring. Added zip bag with 2 replacement o-rings. Breath hose clip/holder was broken, replaced.

- | |
|---|
| <input checked="" type="checkbox"/> VOC (attached) |
| <input checked="" type="checkbox"/> Internal Standard value $\leq 3.00\%$ |
| <input checked="" type="checkbox"/> Verify software version |

- | |
|---|
| <input type="checkbox"/> Return to Factory for Repair |
| <input checked="" type="checkbox"/> Ready for Certification |

- | |
|--|
| <input type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Proceed to Close Out |

End Date: 11/3/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100403

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/03/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 305 psi

| | | |
|-----------------------------------|------------|-------|
| BLANK TEST | 0.000 | 14:40 |
| INTERNAL STANDARD | ✓ VERIFIED | 14:40 |
| Xq = 0.076 (1.75%) | | |
| EXTERNAL STANDARD | 0.079 | 14:41 |
| X[1] = 0.0786 (-0.0015) (-0.0030) | | |
| BLANK TEST | 0.000 | 14:42 |
| EXTERNAL STANDARD | 0.079 | 14:42 |
| X[1] = 0.0791 (-0.0017) (-0.0018) | | |
| BLANK TEST | 0.000 | 14:43 |
| EXTERNAL STANDARD | 0.079 | 14:43 |
| X[1] = 0.0790 (-0.0020) (-0.0026) | | |
| BLANK TEST | 0.000 | 14:44 |
| EXTERNAL STANDARD | 0.079 | 14:44 |
| X[1] = 0.0795 (-0.0012) (-0.0028) | | |
| BLANK TEST | 0.000 | 14:45 |
| EXTERNAL STANDARD | 0.079 | 14:45 |
| X[1] = 0.0792 (-0.0020) (-0.0025) | | |
| BLANK TEST | 0.000 | 14:46 |

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 = 49.0°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 40.9°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.67 V | PASSED |
| (1.04 V - 2.42 V) | |
| Cooler Voltage = 1.75 V | PASSED |
| (0.98 V - 2.30 V) | |
| Bias Voltage = 79 V | PASSED |
| (47 V - 111 V) | |
| Chopper Freq = 526 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.1 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.510 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 |
| (0.002 V <= 0.010 V) | |

FILTER INFO

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

| | | |
|-------------------|-------|-----------------|
| INTERNAL STANDARD | ✓ | PASSED |
| Xq = 0.076 | 1.87% | (0.00% - 4.00%) |