

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100906

Start Date: 07/12/21

Analysts: Derek Walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for intermittent fatal errors

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

Troubleshooting/Repair

DM 07/12/21
Source block is tight, 5 way valve ~~fract~~ feels Ok, mirror blocks taped, controller board modification present, filter wheel assembly feels smooth.
VOC and Subject test completed normally.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version
- DM 07/12/21 Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 07/12/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1185 psi

BLANK TEST 0.000 13:57
INTERNAL STANDARD ✓ VERIFIED 13:57
Xq = 0.084 (0.72%)
EXTERNAL STANDARD 0.079 13:57
X[1] = 0.0795 (-0.0020) (-0.0026)
BLANK TEST 0.000 13:58
EXTERNAL STANDARD 0.079 13:58
X[1] = 0.0790 (-0.0020) (-0.0029)
BLANK TEST 0.000 13:59
EXTERNAL STANDARD 0.080 13:59
X[1] = 0.0800 (-0.0014) (-0.0019)
BLANK TEST 0.000 14:00
EXTERNAL STANDARD 0.079 14:00
X[1] = 0.0793 (-0.0019) (-0.0020)
BLANK TEST 0.000 14:01
EXTERNAL STANDARD 0.079 14:01
X[1] = 0.0790 (-0.0023) (-0.0018)
BLANK TEST 0.000 14:02

Average = 0.0792
Std Dev = 0.0004

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 = 42.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.79 V PASSED
(1.07 V - 2.51 V)
Cooler Voltage = 1.79 V PASSED
(1.07 V - 2.51 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 507 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.884 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 = 0.084 0.82% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/12/2021
Time: 14:17:19

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 29.64: 0.079

DIAGNOSTIC CHECK	PASSED	14:18
BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.080	14:19
BLANK TEST	0.000	14:20
SUBJECT SAMPLE (Vol=3.26L)	0.000	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.080	14:21
BLANK TEST	0.000	14:22

