

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100678

Start Date: 09/15/21

Analysts: Derek Walton

Reason for instrument evaluation

Returbished by manufacturer, repaired for crashing on startup

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

Mirror blocks taped, controller board modification present, 5 way valve and filter wheel assembly are smooth.

Source block was loose - removed, retaped, and tightened.

Did not encounter any startup issues.

Recommend calibration due to internal standard errors on subject tests.

DJW
09/16/21

- VOC (attached)
- Internal Standard value $\leq 3.00\%$ NO - Above 3% DJW 09/16/21
- Verify software version

- Return to Factory for Repair
- Ready for Calibration
- Ready for Certification
- Proceed to Close Out

End Date: 09/15/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100678

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/15/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.49: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 919 psi

BLANK TEST	0.000	15:23
INTERNAL STANDARD ✓	VERIFIED	15:23
Xq = 0.079 (3.87%)		
EXTERNAL STANDARD	0.076	15:24
X[1] = 0.0760 (-0.0033) (-0.0014)		
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.076	15:25
X[1] = 0.0759 (-0.0035) (-0.0016)		
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.077	15:26
X[1] = 0.0767 (-0.0030) (-0.0006)		
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.076	15:27
X[1] = 0.0762 (-0.0031) (-0.0010)		
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.077	15:28
X[1] = 0.0766 (-0.0028) (-0.0007)		
BLANK TEST	0.000	15:29

Average = 0.0764
Std Dev = 0.0005

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 42.7°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.70 V (1.03 V - 2.39 V)	PASSED
Cooler Voltage = 1.67 V (1.00 V - 2.34 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 501 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 5.316 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.003 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.079 3.19% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 09/15/2021
Time: 15:33:17

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 29.49: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:34
BLANK TEST	0.000	15:34
INTERNAL STANDARD	ERROR	15:34

Internal Standard Error

DMW

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 09/15/2021
Time: 15:38:01

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 29.49: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:38
BLANK TEST	0.000	15:39
INTERNAL STANDARD	ERROR	15:39

Internal Standard Error

DMC