

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100422

Start Date: 04/21/21

Analysts: Derek Walton

Reason for instrument evaluation

Failed certification due to pump off

Visual Inspection

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

*Refer to evaluation dated
02/11/21 jmr
04/21/21*

Troubleshooting/Repair

Completed 2 VOCs and a breath test with no further status
messages. Internal standard values very close to 3.00%. Recommend
calibration.

- 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: 04/21/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/25/2021

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C

PASSED

Breath Tube = 47.2°C

PASSED

PUMP INFO

Flow Rate = 4.977 L/M

PASSED

DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

FAILED

FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

INTERNAL STANDARD

PASSED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/21/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.14: 0.081
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 867 psi

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.082	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.081	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.081	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.082	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.081	10:54
BLANK TEST	0.000	10:55

Average = 0.0814
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 47.6°C PASSED

PUMP INFO

Flow Rate = 5.078 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/21/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.14: 0.081
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 845 psi

BLANK TEST	0.000	11:02
INTERNAL STANDARD	✓ VERIFIED	11:02
Xq = 0.124 (2.87%)		
EXTERNAL STANDARD	0.082	11:02
X[1] = 0.0818 (-0.0024) (0.0021)		
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.082	11:03
X[1] = 0.0816 (-0.0027) (0.0015)		
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.081	11:04
X[1] = 0.0813 (-0.0031) (0.0014)		
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.081	11:06
X[1] = 0.0814 (-0.0030) (0.0016)		
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.081	11:07
X[1] = 0.0813 (-0.0037) (0.0011)		
BLANK TEST	0.000	11:08

Average = 0.0814
Std Dev = 0.0005

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 = 46.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.08 V - 2.52 V)	
Cooler Voltage = 1.82 V	PASSED
(1.08 V - 2.52 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.1 in	

PUMP INFO

Flow Rate = 5.115 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 = 0.124 2.94%	(0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 04/21/2021
Time: 11:23:07

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 30.13: 0.081
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:24
BLANK TEST 0.000 11:24
INTERNAL STANDARD VERIFIED 11:24
EXTERNAL STANDARD 0.081 11:24
BLANK TEST 0.000 11:25
SUBJECT SAMPLE (Vol=2.62l) 0.000 11:26
BLANK TEST 0.000 11:27
EXTERNAL STANDARD 0.082 11:27
BLANK TEST 0.000 11:28

