

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100691

Start Date: 08/17/21

Analysts: Derek Watten

Reason for instrument evaluation

Warranty repair for screen freezing on startup.

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

Source block a bit loose-tightened.

Repair notes indicate S+ Board was replaced and instrument was calibrated. Repair notes from refurbishment (completed 10/6/20) indicate filter wheel assembly was cleaned and lubricated.

Filter wheel assembly feels smooth, 5 way valve feels appropriate.

Instrument started up normally. VOC and breath test completed normally. Recommend calibration due to filter wheel maintenance.

- 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: 08/17/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100691

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/17/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1068 psi

BLANK TEST	0.000	09:52
INTERNAL STANDARD	✓ VERIFIED	09:52
Xq = 0.102 (1.30%)		
EXTERNAL STANDARD	0.079	09:52
X[1] = 0.0790 (-0.0004) (-0.0039)		
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.079	09:54
X[1] = 0.0786 (0.0002) (-0.0035)		
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.079	09:55
X[1] = 0.0788 (0.0003) (-0.0033)		
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.079	09:56
X[1] = 0.0791 (-0.0004) (-0.0032)		
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.079	09:57
X[1] = 0.0789 (0.0004) (-0.0031)		
BLANK TEST	0.000	09:58

Average = 0.0790
Std Dev = 0.0000

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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 497 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 5.190 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 = 0.103	2.00%	(0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 08/17/2021
Time: 10:01:45

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 29.50: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:02
BLANK TEST	0.000	10:03
INTERNAL STANDARD	VERIFIED	10:03
EXTERNAL STANDARD	0.079	10:03
BLANK TEST	0.000	10:04
SUBJECT SAMPLE (Vol=2.70L)	0.000	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.079	10:06
BLANK TEST	0.000	10:06

DW

