

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100356

Date: 09/18/20

Analyst: Derek Walton

1. Reason for instrument evaluation

Preventive maintenance due, large scratch on touch screen, did not upload via modem line on check in

2. 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

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

4. Troubleshooting/Repair

Replaced ~~replaced~~ o-ring. Added modem cable. Cermetex box was loose - DJW 09/18/20
tightened. Instrument uploaded via USB successfully.

Scratch on touch screen does not appear to substantially impact instrument function DJW 09/22/2020

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100356

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/18/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 1166 psi

BLANK TEST	0.000	13:57
INTERNAL STANDARD	✓ VERIFIED	13:57
Xq = 0.106 (0.00%)		
EXTERNAL STANDARD	0.079	13:58
X[1] = 0.0787 (0.0020) (0.0003)		
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.079	13:59
X[1] = 0.0789 (0.0010) (0.0005)		
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.079	14:00
X[1] = 0.0788 (0.0010) (-0.0003)		
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.079	14:01
X[1] = 0.0791 (0.0013) (0.0001)		
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.080	14:02
X[1] = 0.0797 (0.0019) (0.0002)		
BLANK TEST	0.000	14:03

Average = 0.0792
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 49.2°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.60 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.59 V	PASSED
(0.97 V - 2.27 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 515 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.960 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.001 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 = 0.106	0.25%	(0.00% - 4.00%)