

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100376

Date: 4/21/20

Analyst: C. O. Bryant

1. Reason for instrument evaluation

Rebuilt by factory - returned to factory for filter wheel error in field

2. 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 |

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

4. Troubleshooting/Repair

Installed (3.02 Full Version)

5. VOC (attached)

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

7. Verify software version

- | | |
|---|--|
| <input type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100376

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/21/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.43: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 447 psi

BLANK TEST	0.000	06:18
INTERNAL STANDARD	VERIFIED	06:18
Xq = 0.075 (0.82%)		
EXTERNAL STANDARD	0.077	06:19
X[1] = 0.0773 (-0.0026) (0.0006)		
BLANK TEST	0.000	06:20
EXTERNAL STANDARD	0.077	06:20
X[1] = 0.0774 (-0.0020) (0.0003)		
BLANK TEST	0.000	06:21
EXTERNAL STANDARD	0.077	06:21
X[1] = 0.0775 (-0.0022) (0.0004)		
BLANK TEST	0.000	06:22
EXTERNAL STANDARD	0.078	06:22
X[1] = 0.0778 (-0.0018) (-0.0001)		
BLANK TEST	0.000	06:23
EXTERNAL STANDARD	0.078	06:23
X[1] = 0.0780 (-0.0014) (0.0002)		
BLANK TEST	0.000	06:24

Average = 0.0774
 Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.68 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.422 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

Xq = 0.075 1.28%	PASSED
(0.00% - 4.00%)	