

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100360

Date: 03/08/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Internal Standard errors (3-times, > 4.00%)

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

Added modem cable. Routed filter wire separately. Loaded full version of 3.02 software. Restarted instrument.

Lamp : 2.37 V , Cooler 2.03 V , Detector -0.039 V.

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 #: 100360

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 469 psi

BLANK TEST	0.000	10:24
INTERNAL STANDARD	VERIFIED	10:24
Xq = 0.116	(1.39%)	
EXTERNAL STANDARD	0.076	10:24
X[1] = 0.0761 (-0.0018)	(0.0003)	
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.077	10:25
X[1] = 0.0768 (-0.0001)	(0.0005)	
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.077	10:26
X[1] = 0.0772 (-0.0004)	(0.0010)	
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.076	10:27
X[1] = 0.0762 (-0.0013)	(0.0004)	
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.076	10:29
X[1] = 0.0764 (-0.0010)	(0.0001)	
BLANK TEST	0.000	10:29

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	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 42.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.37 V	PASSED
(1.36 V - 3.18 V)	
Cooler Voltage = 2.04 V	PASSED
(1.16 V - 2.70 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 520 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.706 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

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

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.117	(1.77%)	(0.00% - 4.00%)	PASSED
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