

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100347

Date: 10/04/19

Analyst: Derek Walter

1. Reason for instrument evaluation

Gas flow errors. Instrument calibrated 06/21/2019.

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

① Refer to evaluation performed on 05/28/19
DM

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

4. Troubleshooting/Repair

Replaced o-ring.

Gas flow error did not occur during evaluation.

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 #: 100347

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1030 psi

BLANK TEST	0.000	09:56
INTERNAL STANDARD	VERIFIED	09:56
Xq = 0.091	(0.68%)	
EXTERNAL STANDARD	0.077	09:56
X[1] = 0.0772 (0.0003)	(-0.0006)	
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.077	09:58
X[1] = 0.0772 (0.0003)	(-0.0017)	
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.077	09:59
X[1] = 0.0768 (-0.0010)	(-0.0016)	
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.078	10:00
X[1] = 0.0776 (-0.0002)	(-0.0006)	
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.077	10:01
X[1] = 0.0774 (0.0003)	(-0.0010)	
BLANK TEST	0.000	10:02

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.44 V	PASSED
(1.46 V - 3.42 V)	
Cooler Voltage = 1.92 V	PASSED
(1.15 V - 2.69 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 5.168 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.091 (0.19%) (0.00% - 4.00%)

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 10/04/2019
 Time: 10:04:26

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.56: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 1020 psi

BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
EXTERNAL STANDARD	0.077	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.077	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.078	10:08
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.077	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.077	10:10
BLANK TEST	0.000	10:11

Average = 0.0772
 Std Dev = 0.0004

