

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 6/27/2017
Effective: 7/3/2017

Version: DMEF2017 R0
Status: Active

Instrument # 100696

Date: 8/4/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Gas flow errors

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Regulator replaced - no gas flow error on
VOE

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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/04/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 811 psi

BLANK TEST 0.000 11:04
INTERNAL STANDARD VERIFIED 11:04

Gas Flow Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 46.0°C PASSED

PUMP INFO

Flow Rate = 4.863 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

VERIFICATION OF CALIBRATION REPORT

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Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/04/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.07: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 798 psi

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
Xq = 0.104 (0.08%)		
EXTERNAL STANDARD	0.079	13:50
X[1] = 0.0794 (-0.0005)	(0.0029)	
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.080	13:51
X[1] = 0.0803 (0.0001)	(0.0036)	
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.080	13:52
X[1] = 0.0800 (-0.0004)	(0.0030)	
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.081	13:53
X[1] = 0.0808 (0.0002)	(0.0027)	
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.080	13:54
X[1] = 0.0802 (-0.0005)	(0.0027)	
BLANK TEST	0.000	13:55

Average = 0.0800
Std Dev = 0.0007

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 40.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.74 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.74 V	PASSED
(1.06 V - 2.48 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.1 in	

PUMP INFO

Flow Rate = 4.808 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

Xq = 0.103 0.85% (0.00% - 4.00%)	PASSED
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