

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100389

Date: 8/11/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

gas flow errors

2. Visual Inspection

3. Troubleshooting/Repair

gas flow errors - demonstrated with a low pressure tank.

Replaced regulator

Ran a VOC, successfully, with the same low pressure tank.

4. VOC (attached)

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

6. Verify software version 3.01

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 #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/11/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016
TANK PRESSURE: 132 psi

BLANK TEST 0.000 14:09
INTERNAL STANDARD VERIFIED 14:09

Gas Flow Error

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 47.2°C PASSED

PUMP INFO

Flow Rate = 4.908 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

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20 _____

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of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/11/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016
TANK PRESSURE: 132 psi

BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
Xq = 0.099 (1.56%)		
EXTERNAL STANDARD	0.079	14:47
X[1] = 0.0786 (-0.0019) (-0.0002)		
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.078	14:48
X[1] = 0.0777 (-0.0017) (0.0005)		
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.078	14:50
X[1] = 0.0780 (-0.0013) (0.0000)		
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.078	14:51
X[1] = 0.0783 (-0.0011) (0.0002)		
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.078	14:52
X[1] = 0.0782 (-0.0007) (-0.0002)		
BLANK TEST	0.000	14:53

Average = 0.0782
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.76 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.888 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

Xq = 0.099	1.65%	(0.00% - 4.00%)	PASSED
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