

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100421

Date: 4/1/16

Analyst: CNF

1. Reason for instrument evaluation

High number of blank & ambient fail messages in field
Modem not connecting when called

2. Visual Inspection

3. Troubleshooting/Repair

Checked exhaust hose connections - no issues noted
Two screws were missing from controller board - replaced
Cleared Memory, performed diagnostic test - uploaded successfully

4. VOC (attached)

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

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 04/04/2016
Time: 13:54:32

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 42.8°C	PASSED

PUMP INFO
Flow Rate = 4.521 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

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100421

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/07/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 718 psi

BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
Xq = 0.102 (0.78%)		
EXTERNAL STANDARD	0.079	15:16
X[1] = 0.0785 (-0.0010) (0.0012)		
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.078	15:18
X[1] = 0.0781 (-0.0011) (0.0010)		
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.079	15:19
X[1] = 0.0788 (-0.0014) (0.0004)		
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.079	15:20
X[1] = 0.0789 (-0.0009) (0.0004)		
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.079	15:21
X[1] = 0.0793 (-0.0005) (0.0002)		
BLANK TEST	0.000	15:22

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.2°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.65 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 539 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.519 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.101	0.09%	(0.00% - 4.00%)	PASSED
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