

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2017 R0
Status: Active

Instrument # 100374

Date: 8/3/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Touch screen not working at agency.

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Touch screen working normally at lab.

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 #: 100374

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/03/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.08: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 746 psi

BLANK TEST	0.000	13:07
INTERNAL STANDARD	VERIFIED	13:07
Xq = 0.093 (0.09%)		
EXTERNAL STANDARD	0.078	13:08
X[1] = 0.0784 (-0.0008) (-0.0011)		
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.078	13:09
X[1] = 0.0778 (-0.0009) (-0.0011)		
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.078	13:10
X[1] = 0.0778 (-0.0017) (-0.0013)		
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.079	13:11
X[1] = 0.0789 (-0.0005) (-0.0004)		
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.078	13:12
X[1] = 0.0778 (-0.0015) (-0.0008)		
BLANK TEST	0.000	13:13

Average = 0.0782
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.95 V - 2.23 V)	
Cooler Voltage = 1.51 V	PASSED
(0.86 V - 2.00 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.1 in	

PUMP INFO

Flow Rate = 4.209 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 = 0.093 0.28% (0.00% - 4.00%)