

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100375

Date: 10/20/16

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Preventative Maintenance

2. Visual Inspection

3. Troubleshooting/Repair

Replaced regulator o-ring

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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100375

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/20/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 782 psi

BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
Xq = 0.089 (2.20%)		
EXTERNAL STANDARD	0.079	15:23
X[1] = 0.0788 (-0.0019) (-0.0010)		
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.079	15:24
X[1] = 0.0791 (-0.0007) (-0.0010)		
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.079	15:25
X[1] = 0.0787 (-0.0016) (-0.0014)		
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.078	15:26
X[1] = 0.0784 (-0.0020) (-0.0010)		
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.078	15:27
X[1] = 0.0783 (-0.0024) (-0.0011)		
BLANK TEST	0.000	15:28

Average = 0.0786
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.52 V	PASSED
(0.92 V - 2.16 V)	
Cooler Voltage = 1.59 V	PASSED
(0.92 V - 2.16 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.744 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.090	PASSED
1.91% (0.00% - 4.00%)	