

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100400

Date: 8/18/16

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

gas flow errors

2. Visual Inspection

3. Troubleshooting/Repair

Replaced regulator and o-ring on new regulator.

Performed a VOC and supervisor test without issues.

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 #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/13/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 634 psi

BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
Xq = 0.101 (0.88%)		
EXTERNAL STANDARD	0.078	10:55
X[1] = 0.0781 (0.0014) (0.0023)		
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.078	10:57
X[1] = 0.0780 (0.0010) (0.0016)		
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.078	10:58
X[1] = 0.0777 (0.0009) (0.0012)		
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.078	10:59
X[1] = 0.0780 (0.0011) (0.0006)		
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.078	11:00
X[1] = 0.0773 (0.0004) (0.0002)		
BLANK TEST	0.000	11:01

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.66 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.67 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 515 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.478 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.100 0.53% (0.00% - 4.00%)	PASSED
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SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 09/13/2016
Time: 11:11:15

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 617 psi

BLANK TEST	0.000	11:12
INTERNAL STANDARD	VERIFIED	11:12
EXTERNAL STANDARD	0.076	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.078	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.078	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.078	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.078	11:17
BLANK TEST	0.000	11:17

Average = 0.0776
Std Dev = 0.0009

