

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100418

Date: 5/26/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Standard out of range in field.

2. Visual Inspection

3. Troubleshooting/Repair

Regulator O-ring missing - Replaced

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 #: 100418

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/26/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 641 psi

BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
Xq = 0.078 (1.21%)		
EXTERNAL STANDARD	0.081	13:43
X[1] = 0.0809 (-0.0027) (-0.0018)		
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.081	13:44
X[1] = 0.0813 (-0.0024) (-0.0007)		
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.081	13:45
X[1] = 0.0815 (-0.0022) (-0.0010)		
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.081	13:47
X[1] = 0.0814 (-0.0027) (-0.0008)		
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.081	13:48
X[1] = 0.0810 (-0.0033) (-0.0013)		
BLANK TEST	0.000	13:49

Average = 0.0810
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.88 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.81 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 529 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.406 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 = 0.079	0.11%	(0.00% - 4.00%)
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