

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100690

Date: 09/15/20

Analyst: Dereh Watton

1. Reason for instrument evaluation

Blank errors, internal standard errors

2. Visual Inspection

- Clean Replace missing screws
- Cermetex Box is secure Ensure modem cable present
- Gas Valve upright or secured to wall All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Calibration recommended due to nature of status messages.

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

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100690

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/15/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 331 psi

BLANK TEST	0.000	15:39
INTERNAL STANDARD	✓ VERIFIED	15:39
Xq = 0.104 (0.60%)		
EXTERNAL STANDARD	0.078	15:40
X[1] = 0.0784 (0.0024) (0.0017)		
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.079	15:41
X[1] = 0.0785 (0.0029) (0.0014)		
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.079	15:42
X[1] = 0.0789 (0.0019) (0.0006)		
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.079	15:43
X[1] = 0.0789 (0.0021) (0.0011)		
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.079	15:44
X[1] = 0.0786 (0.0019) (0.0002)		
BLANK TEST	0.000	15:45

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS ✓
DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.97 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.81 V	PASSED
(1.16 V - 2.70 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 516 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.346 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	✓	PASSED
Xq = 0.105	1.19%	(0.00% - 4.00%)