

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100380

Start Date: 10/15/2021

Analysts: Carlie Glaister / C. Bryant

Reason for instrument evaluation

Dry gas leaking during certification

Visual Inspection

- Clean
- Cermetex Box is secure
- Gas Valve upright or secured to wall
- O-ring inspection and ensure 2 O-rings in replacement bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections are secure

Troubleshooting/Repair

Multiple tanks leaked when attempting to install into the regulator. Replaced regulator.

- VOC (attached)
- Internal Standard value \leq 3.00%
- Verify software version

- Return to Factory for Repair
- Ready for Certification
- Ready for Calibration
- Proceed to Close Out

End Date: 10/15/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/15/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 493 psi

BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
Xq = 0.086 (0.91%)		
EXTERNAL STANDARD	0.074	10:16
X[1] = 0.0740 (-0.0010) (0.0041)		
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.074	10:17
X[1] = 0.0742 (-0.0018) (0.0038)		
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.075	10:18
X[1] = 0.0751 (-0.0004) (0.0038)		
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.075	10:20
X[1] = 0.0747 (-0.0016) (0.0032)		
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.075	10:21
X[1] = 0.0748 (-0.0017) (0.0038)		
BLANK TEST	0.000	10:22

Average = 0.0746
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.2°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 42.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.63 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.56 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.879 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

Xq = 0.086	0.81%	(0.00% - 4.00%)	PASSED
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