Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form Issued: 05/15/2020 Version: DMEF 2020 R0 Effective: 05/15/2020 Status: Active Instrument # 100359 Analysts: <u>Deren Walton</u> Start Date: 09/15/20 diagnostic and VIC Reason for instrument evaluation Failed pump Visual Inspection Replace missing screws ☑ Clean Cermetex Box is secure Ensure modem cable present Gas Valve upright or secured to wall All tubing and connections are secure O-ring inspection and ensure 2 O-rings in replacement bag Troubleshooting/Repair Adjusted lamp and cooler voltages. Detector voltage is fluctuating somewhat. Fifter wheel locking mechanism may be sticking. Pan Fifter test - completed 12 cycles with no errors. Ran an additional 51 cycles with no errors. Still producing pump as loft errors- replaced pump. This did not resolve the powe. Also produced Detector overflow. Lepland detector, Adjusted lamp and cooler voltages. VOC (attached) No Internal Standard value $\leq 3.00\%$ Internal Standard val Ready for Calibration Return to Factory for Repair Ready for Certification Proceed to Close Out

End Date: 12/17/20

Page 1 of 1

All printed copies are uncontrolled.

Approved by Chemistry Supervisor

of DataMaster dmt Breath Test Instrument State of Alaska

Serial #: 100359 Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program Date: 09/16/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080 TARGET AT 29.74: 0.080 LOT #: AG923401

EXPIRATION: 08/22/2021 TANK PRESSURE: 1216 psi

BLANK TEST

0.000 15:41

INTERNAL STANDARD EXTERNAL STANDARD INTERFERENCE 15:41

VERIFIED 15:41

Interference Detected

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C

PASSED

Breath Tube = 44.7°C

PASSED

PUMP INFO

Flow Rate = 4.532 L/M

PASSED

DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

FILTER INFO

Filter 1

PASSED

Filter 2

PASSED PASSED

Filter 3

INTERNAL STANDARD

PASSED

of DataMaster dmt Breath Test Instrument State of Alaska

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date:09/16/2020

External Standard Test Values

Serial #: 100359

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 43.3°C PASSED
PUMP INFO

Flow Rate = 4.563 L/M PASSED

DETECTOR INFO PUMP ON PUMP OFF

FAILED PASSED

FILTER INFO
Filter 1
Filter 2
Filter 3

INTERNAL STANDARD

PASSED PASSED

PASSED

Diagnostic Check Failed

PASSED

of DataMaster dmt Breath Test Instrument State of Alaska

Serial #: 100359 Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/15/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.22: 0.078 LOT #: AG923401

EXPIRATION: 08/22/2021 TANK PRESSURE: 1081 psi

BLANK TEST INTERNAL STANDARD EXTERNAL STANDARD 0.000 15:49 VERIFIED 15:50 0.077 15:50

Detector Overflow

Diagnostic Check

VERSIONS

DMT: 3.02 PIC: 3.02

Modem: 2.6 Questions: 2.2

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TEMPERATURES

Sample Chamber = 48.9°C Breath Tube = 43.9°C PASSED PASSED

PUMP INFO

Flow Rate = 4.268 L/M

PASSED

DETECTOR INFO

PUMP ON

PASSED PASSED

PUMP OFF . FILTER INFO

Filter 1 Filter 2 Filter 3 PASSED PASSED PASSED

INTERNAL STANDARD

PASSED

of DataMaster dmt Breath Test Instrument State of Alaska

Serial #: 100359 Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/17/2020

External Standard Test Values	Diagnostic Check	
	VERSIONS DMT: 3.02 PIC: 3.02 Modem: 2.6 Questions: 2.2	
	TEMPERATURES	
	Sample Chamber = 48.7°C (44.0°C - 52.0°C)	PASSED
	Breath Tube = 40.4°C (38.0°C - 50.0°C)	PASSED
	SETTINGS Lamp Voltage = 1.71 V (0.90 V - 2.10 V)	PASSED
	Cooler Voltage = 1.58 V	PASSED
	(0.89 V - 2.07 V) Bias Voltage = 80 V (48 V - 112 V)	PASSED
	Chopper Freq = 525 Hz (475 Hz - 575 Hz) Barometer = 29.0 in	PASSED
	PUMP INFO	
	Flow Rate = 4.292 L/M (3.500 L/M - 6.500 L/M)	PASSED
	DETECTOR INFO	
	PUMP ON (0.003 V <= 0.010 V)	PASSED
	PUMP OFF (0.002 V <= 0.010 V)	PASSED
	FILTER INFO	
	Filter 1	PASSED
	Filter 2	PASSED
	Filter 3	PASSED
	INTERNAL STANDARD	FAILED-
	Xq = 0.082 (9.15%) (0.00% - 4.00%)	

Diagnostic Check Failed