# Alaska Scientific Crime Detection Laboratory

	ster Evaluation Form
lssued: 05/15/2020 Effective: 05/15/2020	Version: DMEF 2020 R0 Status: Active
Instrument #/00347	
Start Date: 09/13/21	Analysts: Derch Wa Hon
Reason for instrument evaluation	
Suren issues	
Visual Inspection Clean	Replace missing screws
Cermetex Box is secure	Ensure modem cable present
Gas Valve upright or secured to wal	
O-ring inspection and ensure 2 O-ring	ngs in replacement bag
Troubleshooting/Repair	
	seen refuebished. Replaced o-ring.
	how error and 2 internal standard errors.
	and regulator replacement. DJW 09/15/2021
Instrument calibrated on 3/8/2021 a standard plate, replacing regulator, a	fter factory refurbishment. Recommend cleaning internal and calibration. DJW 09/15/2021
VOC (attached)  Internal Standard value ≤ 3.00% №0 -  Verify software version	
Return to Factory for Repair	Further evaluation/repair needed  Ready for Calibration DJW 09/15/2021
Ready for Certification	Proceed to Close Out
End Date: 09//3/2/	
All printed copies are uncontrolled.	Page 1 of 1 Approved by Chemistry Supervisor

### VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument State of Alaska

Serial #: 100347 Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/13/2021

#### External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.22: 0.078 LOT #: AG018102

EXPIRATION: 06/29/2022 TANK PRESSURE: 952 psi

BLANK TEST INTERNAL STANDARD 0.000 12:51 VERIFIED 12:51

Xq = 0.113 (3.91%)

Gas Flow Error

#### Diagnostic Check

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

#### TEMPERATURES

Sample Chamber = 48.8°C PASSED (44.0°C - 52.0°C) Breath Tube = 45.9°C PASSED (38.0°C - 50.0°C)

SETTINGS
Lamp Voltage = 1.63 V PASSED
(0.98 V - 2.28 V)
Cooler Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)

Bias Voltage = 80 V PASSED (48 V - 112 V) Chopper Freq = 514 Hz PASSED (475 Hz - 575 Hz)

Barometer = 29.2 in

PUMP INFO Flow Rate = 4.511 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

(0.001 V <= 0.010 V)

FILTER INFO
Filter 1 PASSED

Filter 2 PASSED Filter 3 PASSED

-INTERNAL STANDARD PASSED-Xq = 0.112 3.74% (0.00% - 4.00%)

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Date: 09/13/2021

External Standard Test Values	Diagnostic Check	
	VERSIONS DMT: 3.02 PIC: 3.02 Modem: 2.6 Questions: 2.2	
	TEMPERATURES	
	Sample Chamber = 48.9°C (44.0°C - 52.0°C)	PASSED
	Breath Tube = 44.3°C (38.0°C - 50.0°C)	PASSED
	SETTINGS Lamp Voltage = 1.63 V (0.98 V - 2.28 V)	PASSED
	Cooler Voltage = 1.64 V	PASSED
	(0.98 V - 2.30 V) Bias Voltage = 80 V (48 V - 112 V)	PASSED
	Chopper Freq = 516 Hz (475 Hz - 575 Hz) Barometer = 29.2 in	PASSED
	PUMP INFO Flow Rate = 4.593 L/M (3.500 L/M - 6.500 L/M)	PASSED
	DETECTOR INFO PUMP ON (0.001 V <= 0.010 V)	PASSED
	PUMP OFF (0.001 V <= 0.010 V)	PASSED
	FILTER INFO Filter 1	PASSED
	Filter 2 Filter 3	PASSED PASSED
	INTERNAL STANDARD  Xq = 0.113 4.15% (0.00% - 4	FAILED-
	Diagnostic Check Failed	*

Diagnostic Check Failed