

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100681

Date: 01/22/20

Analyst: Derck Walton

1. Reason for instrument evaluation

Failed certification due to linearity slope, 0.310 simulator reading low

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

Checked connections to sample chamber - source block was loose. Retightened.

Keyboard stops working - loaded full version of 3.02 software.

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

LINEARITY CHECK

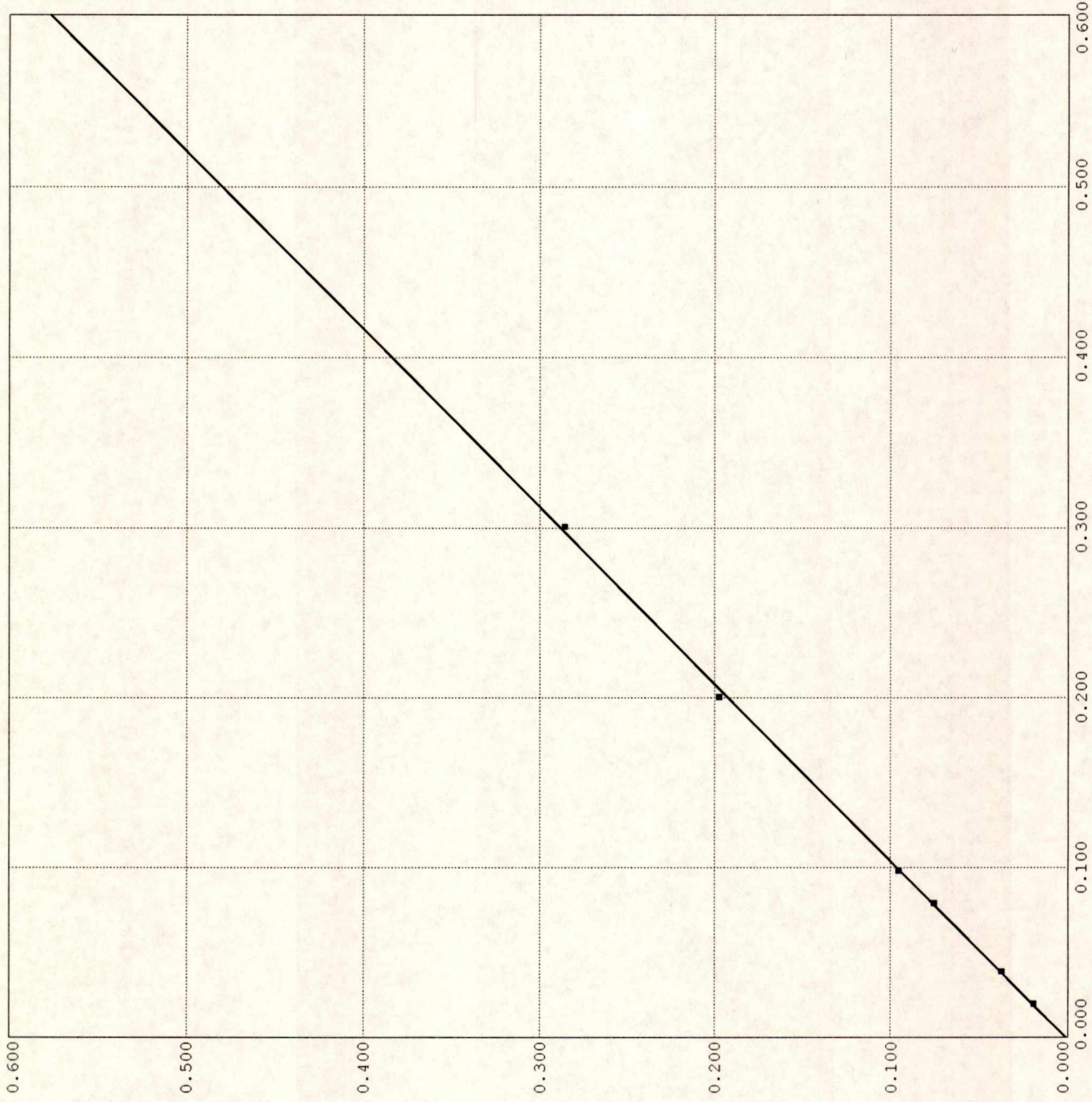
 Alaska Department of Public Safety
 DATAMASTER dmt: 100681

Date: 01/22/2020
 Time: 10:40:31

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0382	0.0004
0.079	0.0764	0.0005
0.098	0.0964	0.0005
0.200	0.1982	0.0004
0.300	0.2864	0.0005

SLOPE = 0.959449
 R² = 0.999353



DM

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100681

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/22/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 569 psi

BLANK TEST	0.000	13:44
INTERNAL STANDARD	✓ VERIFIED	13:44
Xq = 0.107 (0.50%)		
EXTERNAL STANDARD	0.076	13:44
X[1] = 0.0764 (-0.0011) (0.0032)		
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.076	13:45
X[1] = 0.0764 (-0.0007) (0.0030)		
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.076	13:46
X[1] = 0.0763 (-0.0009) (0.0025)		
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.077	13:47
X[1] = 0.0765 (-0.0004) (0.0023)		
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.076	13:48
X[1] = 0.0761 (-0.0014) (0.0021)		
BLANK TEST	0.000	13:49

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.72 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.50 V	PASSED
(0.92 V - 2.14 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.397 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.107 0.25% (0.00% - 4.00%)		

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 01/22/2020
Time: 14:11:24

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.285	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.285	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.285	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.284	14:16

Standard Out of Range

