

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100349

Date: 12/11/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Failed linearity on certification

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

*Refer to previous
evaluation from
09/30/2019
DW 12/11/19*

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

4. Troubleshooting/Repair

Recommend calibration

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

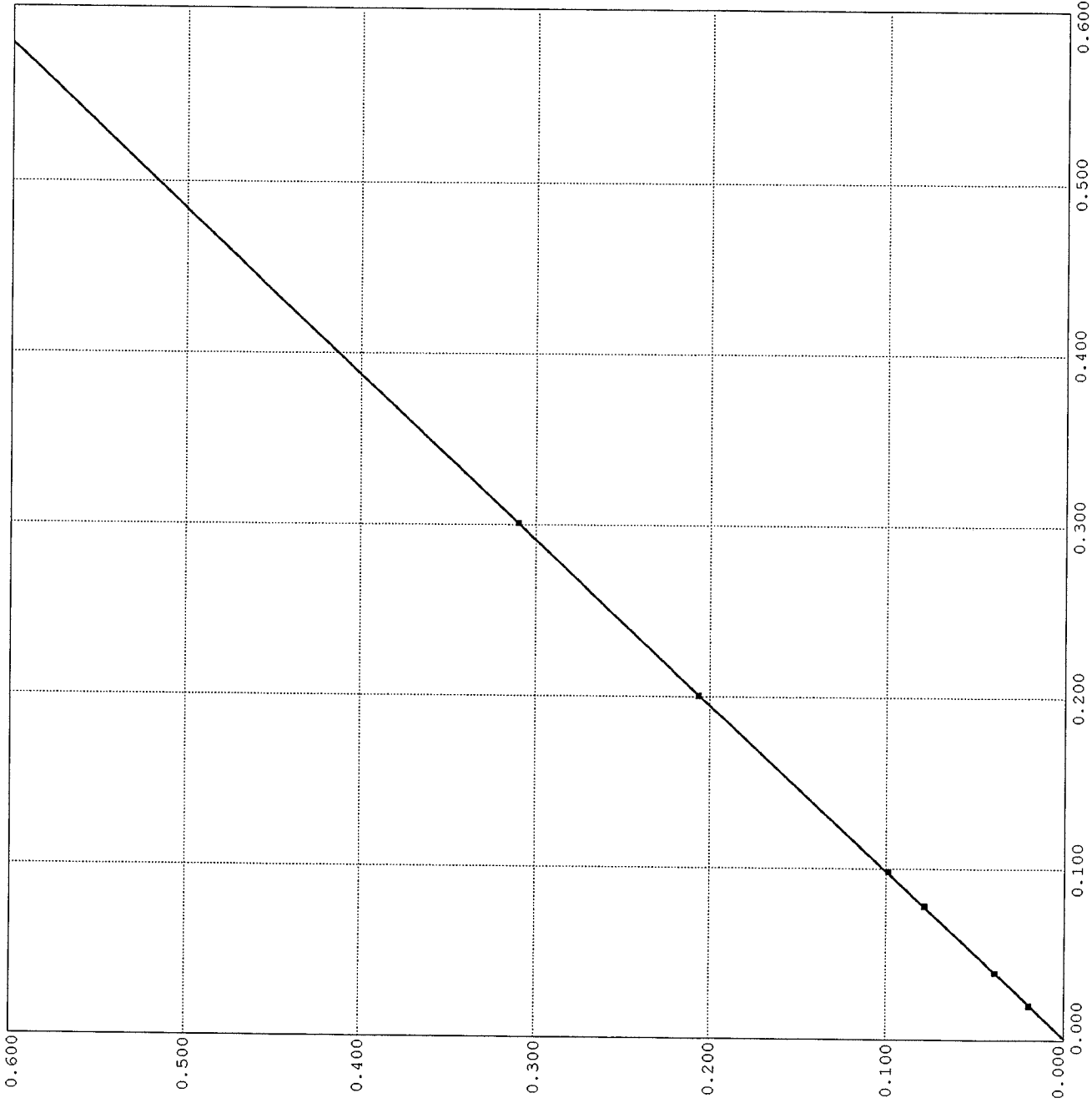
 Alaska Department of Public Safety
 DATAMASTER dmt: 100349

Date: 12/11/2019
 Time: 09:37:32

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0005
0.039	0.0398	0.0004
0.078	0.0794	0.0005
0.098	0.0998	0.0004
0.200	0.2072	0.0004
0.300	0.3106	0.0005

SLOPE = 1.038297
 R² = 0.999962



DW

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100349

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/11/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.21: 0.078
LOT #: AG8261011
EXPIRATION: 09/18/2020
TANK PRESSURE: 1032 psi

BLANK TEST	0.000	11:04
INTERNAL STANDARD	✓ VERIFIED	11:04
Xq = 0.077 (0.34%)		
EXTERNAL STANDARD	0.079	11:04
X[1] = 0.0789 (-0.0009) (0.0026)		
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.079	11:05
X[1] = 0.0788 (-0.0001) (0.0017)		
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.080	11:06
X[1] = 0.0795 (-0.0003) (0.0025)		
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.079	11:07
X[1] = 0.0791 (-0.0013) (0.0019)		
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.079	11:09
X[1] = 0.0790 (-0.0012) (0.0015)		
BLANK TEST	0.000	11:09

Average = 0.0792
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.05 V - 2.45 V)	
Cooler Voltage = 1.71 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.471 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 = 0.077 0.11% (0.00% - 4.00%)	