

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100379

Date: 3/15/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

After calibration instrument failed linearity slope requirement in certification

2. Visual Inspection

3. Troubleshooting/Repair

4. VOC (attached)

5. Internal Standard value $\leq 3.00\%$ Yes No

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

LINEARITY CHECK

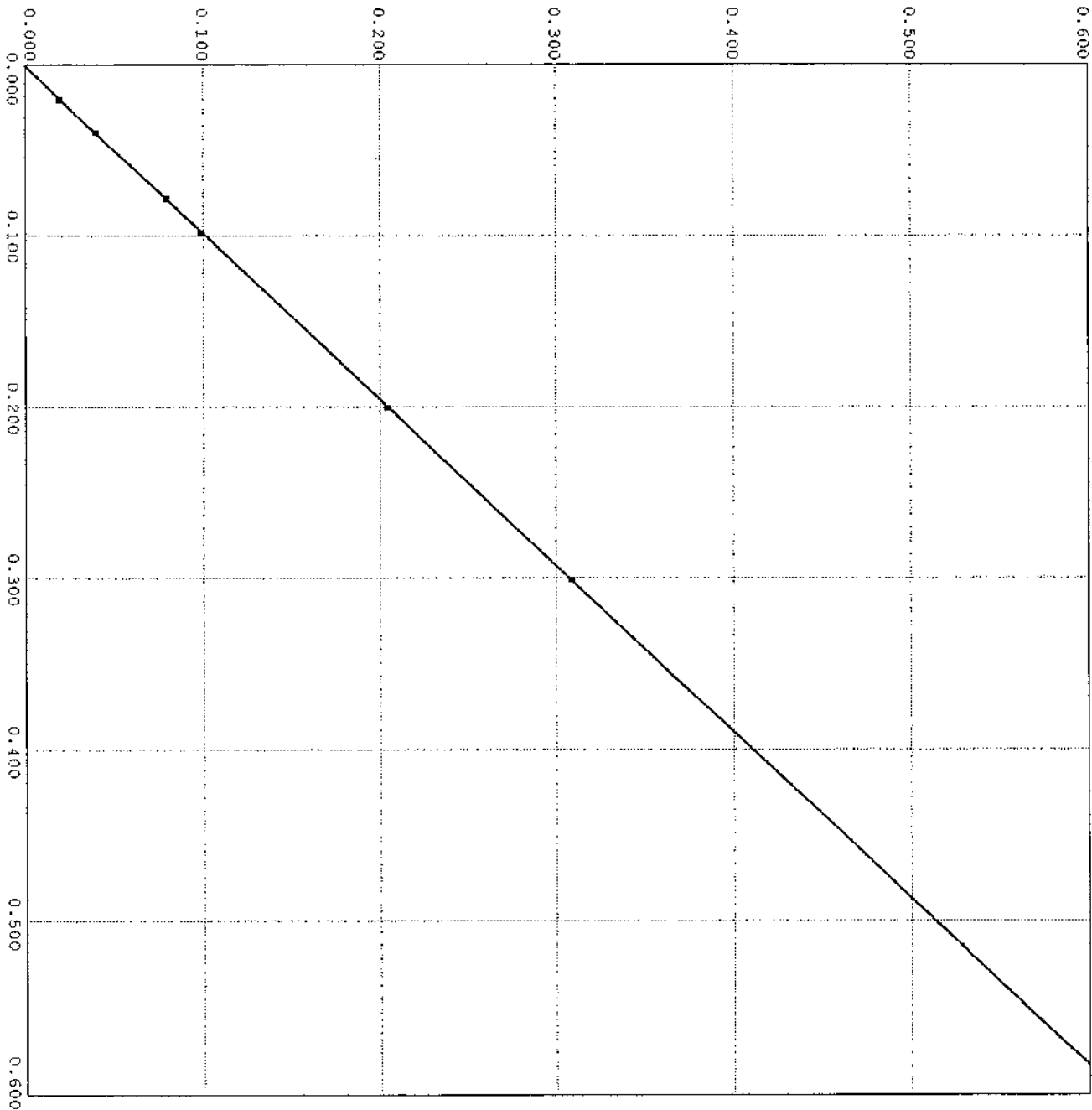
Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 03/15/2017
Time: 09:29:52

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0406	0.0005
0.078	0.0802	0.0004
0.098	0.0998	0.0004
0.200	0.2050	0.0012
0.300	0.3092	0.0011

SLOPE = 1.030308
R² = 0.999966



BMB

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100379

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/15/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 1185 psi

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
Xq = 0.084	{0.41%}	
EXTERNAL STANDARD	0.080	13:54
X[1] = 0.0800	{0.0002} {0.0018}	
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.080	13:55
X[1] = 0.0796	{0.0000} {0.0016}	
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.079	13:57
X[1] = 0.0795	{0.0000} {0.0011}	
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.080	13:58
X[1] = 0.0798	{-0.0005} {0.0009}	
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.080	13:59
X[1] = 0.0799	{0.0006} {0.0014}	
BLANK TEST	0.000	14:00

Average = 0.0798
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.63 V	PASSED
(0.96 V - 2.24 V)	
Cooler Voltage = 1.61 V	PASSED
(0.91 V - 2.13 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.839 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

Xq = 0.083	1.35%	{0.00% - 4.00%}	PASSED
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