

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100358

Date: 5/24/17

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Standard out of range (low) on external standard readings.

2. Visual Inspection

3. Troubleshooting/Repair

Ran a series of external standard tanks (3) to observe the readings. All 3 tanks had readings 0.002 to 0.003 low when compared to the adjusted target value.

Recommending calibration.

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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100358

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/24/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 685 psi

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.078	11:29
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.076	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.076	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.076	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.076	11:34
BLANK TEST	0.000	11:35

Average = 0.0764
Std Dev = 0.0009

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.622 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

Tank #1

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 05/24/2017
 Time: 11:37:06

SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

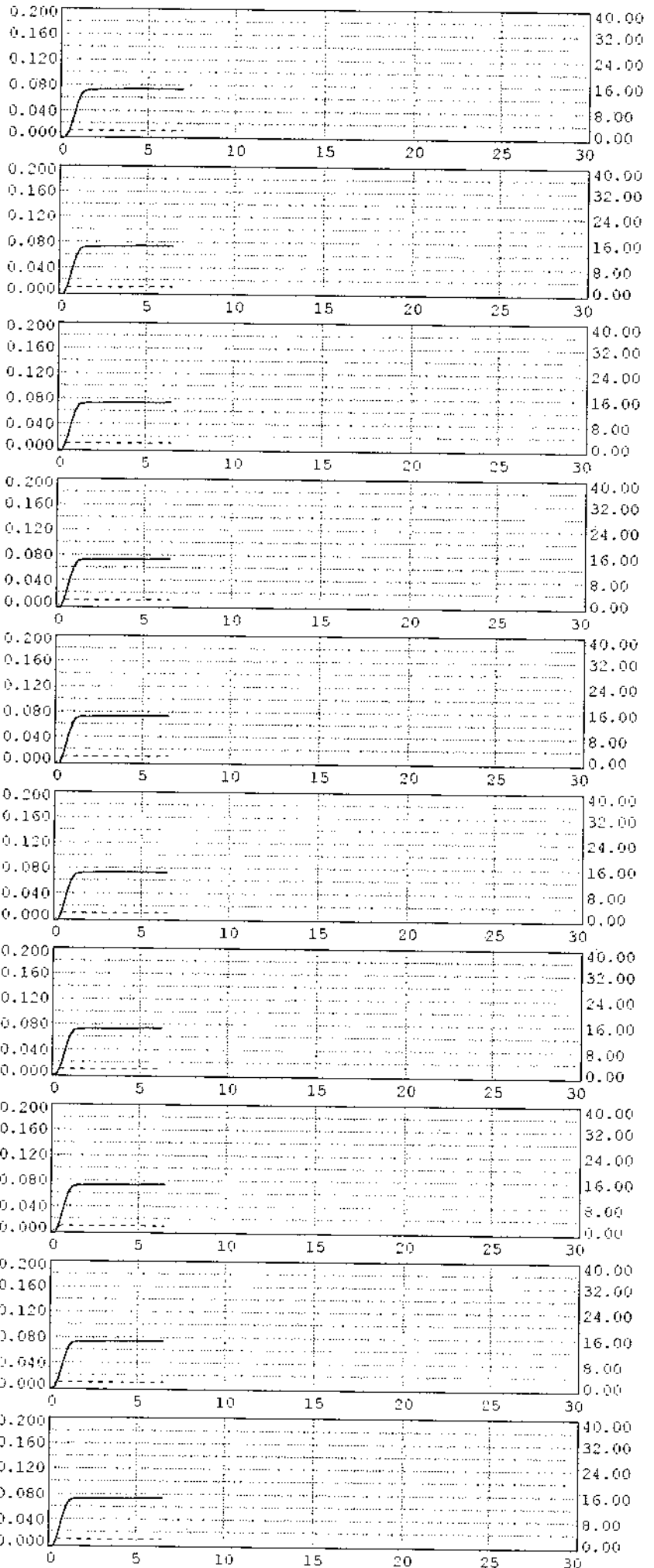
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 668 psi

BLANK TEST	0.000	11:40
INTERNAL STANDARD	VERIFIED	11:40
EXTERNAL STANDARD	0.076	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.076	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.076	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.076	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.076	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.076	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.076	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.076	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.076	11:50
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.076	11:51
BLANK TEST	0.000	11:52

Average = 0.0760
 Std Dev = 0.0000

Tank #1



SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 05/25/2017
 Time: 11:15:46

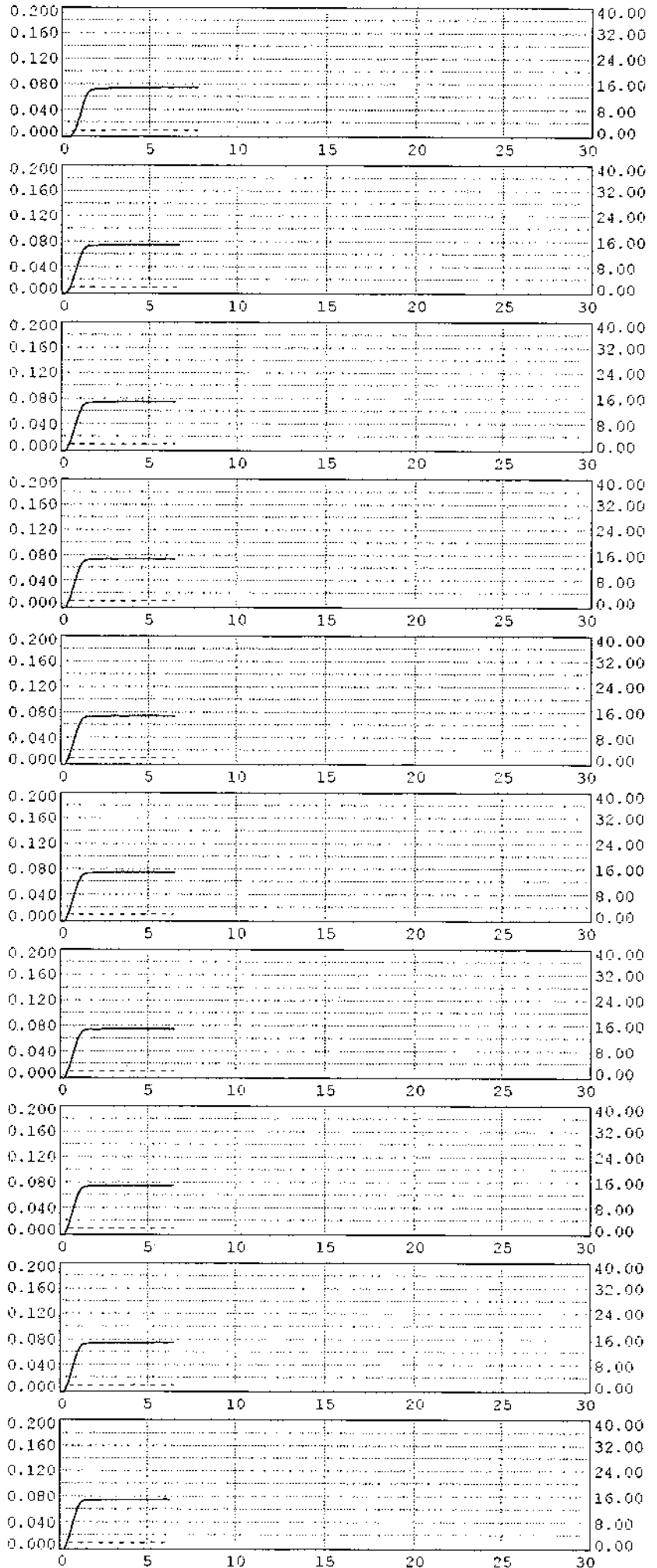
SUPERVISOR NAME:
 COLLEEN S OBYRANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.69: 0.079
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 676 psi

BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:17
EXTERNAL STANDARD	0.077	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.077	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.077	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.077	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.077	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.077	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.077	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.077	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.077	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.077	11:27
BLANK TEST	0.000	11:28

Average = 0.0770
 Std Dev = 0.0000

Tank 2



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100358

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/25/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 888 psi

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:40
EXTERNAL STANDARD	0.077	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.077	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.077	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.077	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.077	11:44
BLANK TEST	0.000	11:45

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 4.740 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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Tank #3

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 05/25/2017
 Time: 14:06:55

SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

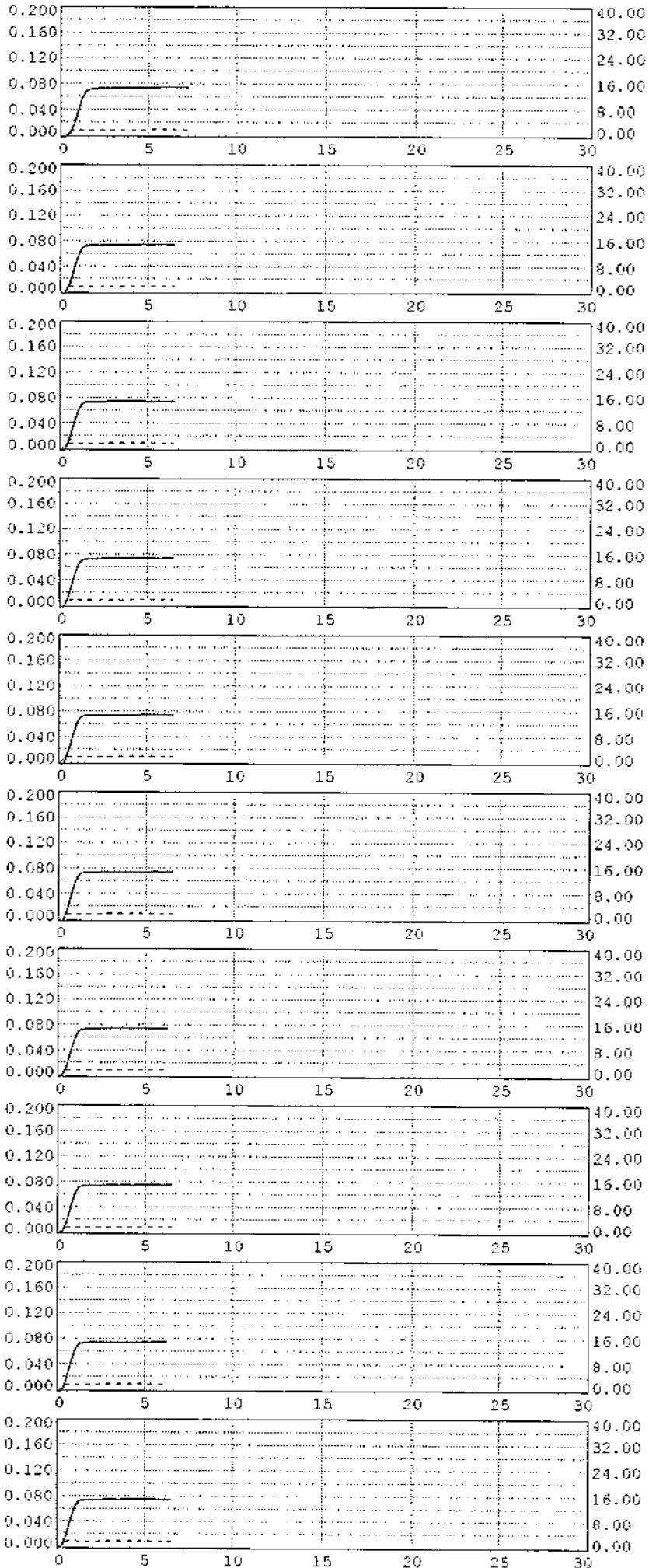
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 882 psi

BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:08
EXTERNAL STANDARD	0.077	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.077	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.076	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.076	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.077	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.076	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.077	14:15
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.077	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.076	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.077	14:18
BLANK TEST	0.000	14:19

Average = 0.0766
 Std Dev = 0.0005

Tank #3



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100358

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/30/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 849 psi

BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
Xq = 0.110 (1.26%)		
EXTERNAL STANDARD	0.077	12:02
X[1] = 0.0765 (-0.0017) (0.0018)		
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.077	12:03
X[1] = 0.0768 (-0.0012) (0.0018)		
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.077	12:04
X[1] = 0.0768 (-0.0015) (0.0015)		
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.077	12:05
X[1] = 0.0766 (-0.0018) (0.0007)		
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.077	12:07
X[1] = 0.0769 (-0.0015) (0.0007)		
BLANK TEST	0.000	12:07

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

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

TEMPERATURES

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

SETTINGS

Lamp Voltage = 1.68 V (1.02 V - 2.38 V)	PASSED
Cooler Voltage = 1.68 V (1.04 V - 2.42 V)	PASSED
Bias Voltage = 80 V (47 V - 111 V)	PASSED
Chopper Freq = 540 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.729 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.002 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	PASSED
Xq = 0.110 (1.26%) (0.00% - 4.00%)	