

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100364

Analyst: C. O. Bryant

Date: 12/29/22

Reason for Adjustment

Persistently low breath hose temperature.
VOC during evaluation had an IS value >3%

0.100 Adjustment Simulator Solution

Manufacturer: L. Feloc

Lot: 21KP41172

Expiration Date: 11/9/23

0.100 Adjustment Wet Bath Simulator

Serial Number: SD1177

Verification Performed?

Calibrated External Thermometer

Serial Number: 210958384

Calibration Due Date: 11/9/23

Blank (Water) Wet Bath Simulator

Serial Number: SD1199

Verification Performed?

- Attach "Cal Factors"
- Attach Verification of Calibration (VOC)
- Internal Standard Value \leq 3.00%

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 12/29/2022
Time: 14:35:07

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.976440 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0061 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1007 0.0500 <= Xq < 0.2000
a21 = 1.174236 1.050 <= a21 < 1.300
a31 = 0.591726 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100364

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/29/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.89: 0.077
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 555 psi

BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xq = 0.100	(0.17%)	
EXTERNAL STANDARD	0.075	14:55
X[1] = 0.0753 (-0.0018)	(0.0025)	
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.076	14:56
X[1] = 0.0757 (-0.0018)	(0.0022)	
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.076	14:57
X[1] = 0.0757 (-0.0014)	(0.0020)	
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.076	14:59
X[1] = 0.0756 (-0.0016)	(0.0014)	
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.075	15:00
X[1] = 0.0755 (-0.0018)	(0.0021)	
BLANK TEST	0.000	15:01

Average = 0.0756
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.18 V PASSED
(1.31 V - 3.05 V)
Cooler Voltage = 1.78 V PASSED
(1.07 V - 2.49 V)
Bias Voltage = 78 V PASSED
(47 V - 109 V)
Chopper Freq = 532 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.9 in

PUMP INFO

Flow Rate = 5.005 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 = 0.100 (0.35%) (0.00% - 4.00%) PASSED