



### DMT Technical Support Inquiry

DMT Serial #: 100160  
Agency/Site: St Albans PD  
Date: 10/02/2019  
DMT Supervisor: Jason Lawton

**Problem:**

This DMT is going to be deployed at a new agency. Routine maintenance and cleaning was performed prior to re-deployment.

**Work Performed:**

10/02/2019: A diagnostic was run to check instrument status; all aspects of the diagnostic passed. The detector block was removed, disassembled, and cleaned. Upon reassembly, 35 filter wheel cycles were completed without any errors and the detector voltage was optimized.

10/03/2019: A successful calibration adjustment and certification were performed. Instrument is now ready for installation at agency.

Performed On Site   
Performed In house

Performed By: Jeff Dukette  Date: 10/3/2019  
Technical Reviewer:  Date: 10/4/19  
Administrative Reviewer:  Date: 10/7/19  
Director Reviewer:  Date: 10/7/2019

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ROCHESTER  
Calibration Date: 03/24/2017  
Certification Date: 03/24/2017  
Installation Date: 03/27/2017  
Test Date: 10/02/2019  
Test Time: 12:48:31



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 48.0°C  
Digital Sim = 0.0°C *\* Not plugged in  
JSD 10/3/2019*

## SETTINGS

Lamp Voltage = 1.80 V  
Cooler Voltage = 1.71 V  
Bias Voltage = 80 V  
Chopper Freq = 537 Hz

## PUMP INFO

Flow Rate = 4.817 L/M

## DETECTOR INFO

| PUMP    | ON     | OFF    |
|---------|--------|--------|
| MAX (V) | 0.2197 | 0.2236 |
| MIN (V) | 0.2177 | 0.2217 |

## FILTER INFO

|          |       |             |
|----------|-------|-------------|
| Filter 1 | 0.224 | Zero = true |
| Filter 2 | 0.415 | Zero = true |
| Filter 3 | 1.667 | Zero = true |

## CALIBRATION CHECK

Xq = 0.089 1.98%

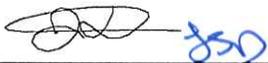
# CALIBRATION REPORT

DataMaster DMT: 100160  
Calibration Date: 10/03/2019  
Calibrated by: JEFFERY DUKETTE  
Lot: 19-11-100



|     |   |          |       |                |
|-----|---|----------|-------|----------------|
| Ca  | = | 0.101    |       |                |
| CAL | = | 0.978656 | 0.800 | <= CAL < 1.200 |
| b1  | = | 0.001    | 0.000 | <= b1 < 0.004  |
| b2  | = | 0.006    | 0.002 | <= b2 < 0.010  |
| b3  | = | 0.001    | 0.000 | <= b3 < 0.004  |
| Xq  | = | 0.088    | 0.050 | <= Xq < 0.200  |
| a21 | = | 1.170481 | 1.050 | <= a21 < 1.300 |
| a31 | = | 0.403516 | 0.300 | <= a31 < 0.800 |

BL-DMT11152016 34.00°C  
JSD 10/3/2019

Performed by  JSD Date 10/03/2019



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100160

Date: 10/03/2019

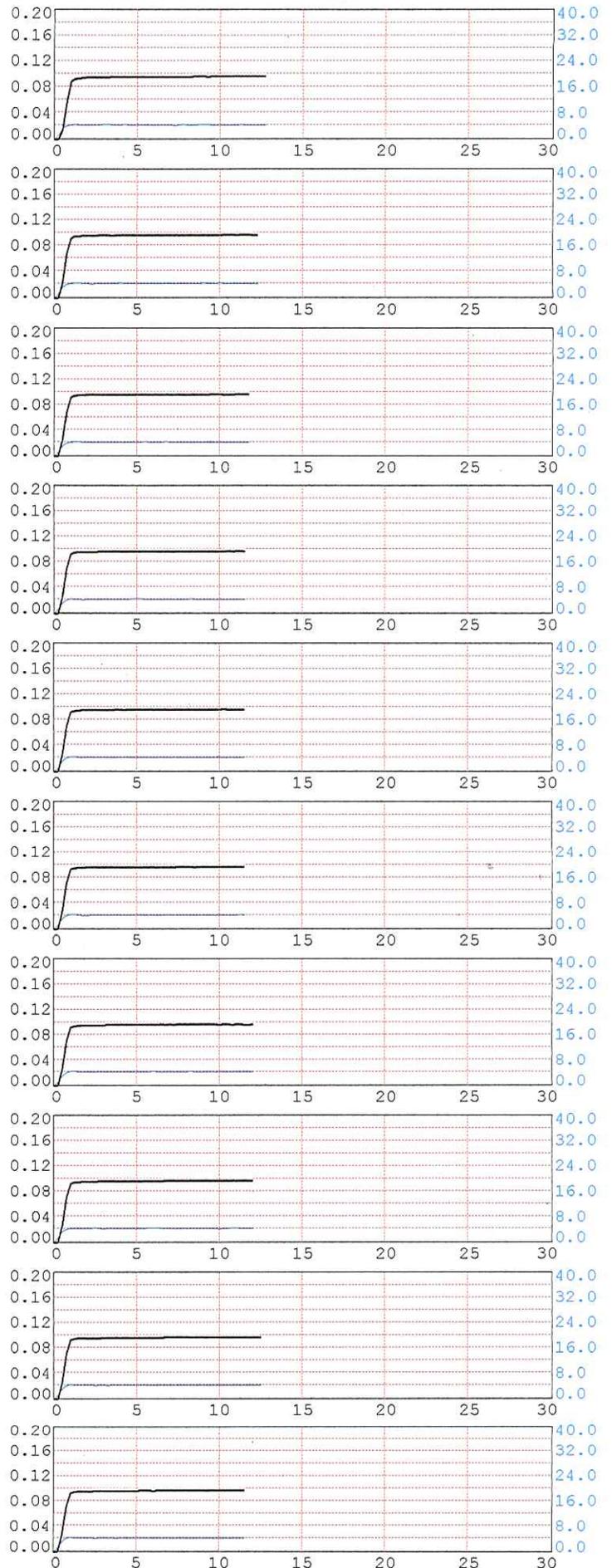
Time: 10:49:07

SUPERVISOR NAME:  
JSD CAL CHECK

SOLUTION LOT #: ACS 201806B  
SOLUTION CONCENTRATION: 0.100

|                        |        |       |
|------------------------|--------|-------|
| BLANK TEST             | 0.000  | 10:50 |
| CALIBRATION CHECK      | PASSED | 10:50 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:50 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:51 |
| SIMULATOR VAPOR 34.0°C | 0.098  | 10:52 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:53 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:54 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:55 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:56 |
| SIMULATOR VAPOR 34.0°C | 0.098  | 10:57 |
| SIMULATOR VAPOR 34.0°C | 0.098  | 10:58 |
| SIMULATOR VAPOR 34.0°C | 0.097  | 10:59 |
| BLANK TEST             | 0.000  | 11:00 |

Average = 0.097  
Std Dev = 0.0004



100160

JSD

4

# CERTIFICATION REPORT

DataMaster DMT: 100160  
Calibration Date: 10/03/2019  
Certification Date: 10/03/2019  
Certified by: JEFFERY DUKETTE



## Diagnostic Results

### VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 49.0°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

### SETTINGS

Lamp Voltage = 1.78 V  
Cooler Voltage = 1.78 V  
Bias Voltage = 80 V  
Chopper Freq = 539 Hz

### PUMP INFO

Flow Rate = 4.992 L/M

### DETECTOR INFO

| PUMP    | ON      | OFF     |
|---------|---------|---------|
| MAX (V) | -0.0323 | -0.0295 |
| MIN (V) | -0.0341 | -0.0311 |

### FILTER INFO

| Filter   | Value  | Zero = true |
|----------|--------|-------------|
| Filter 1 | -0.030 | Zero = true |
| Filter 2 | 0.188  | Zero = true |
| Filter 3 | 1.516  | Zero = true |

### CALIBRATION CHECK

Xq = 0.089 0.89%

## Options

### OPTIONS

#### Units

Alcohol..... g/210L

#### Simulator

Tolerance Check..... yes  
Standard Type..... wet  
Nominal..... 0.100  
Digital Simulator..... Guth

#### Subject

Ask Questions..... yes  
Number of Tests..... 2  
Alcohol Display..... yes  
Volume Display..... yes  
Query Refusal..... yes  
Copies..... 3  
Simulator Before..... yes  
Simulator Between..... yes  
Simulator After..... no  
Observation Time..... 0

#### Supervisor

Number of Tests..... 10

#### Calibration

Standard Type..... wet  
Nominal..... 0.100  
Nominal (Dry Gas)..... 0.100  
Number of Tests..... 1

#### Printer

Printer On..... yes

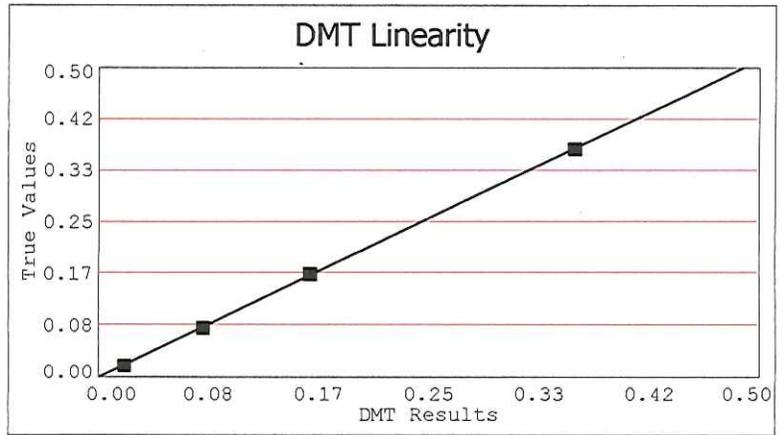
#### Software Configuration

Data Collection..... yes

**Linearity Check Results**

| True Value      | Reported Average | Std Dev |
|-----------------|------------------|---------|
| 0.020 g/210L    | 0.019 g/210L     | 0.0003  |
| Lot # 19-02-020 |                  |         |
| 0.081 g/210L    | 0.079 g/210L     | 0.0004  |
| Lot # 19-03-080 |                  |         |
| 0.168 g/210L    | 0.160 g/210L     | 0.0006  |
| Lot # 18-15-160 |                  |         |
| 0.369 g/210L    | 0.360 g/210L     | 0.0007  |
| Lot # 19-09-360 |                  |         |

R<sup>2</sup> = 0.9998



**Acetone Interference Test**

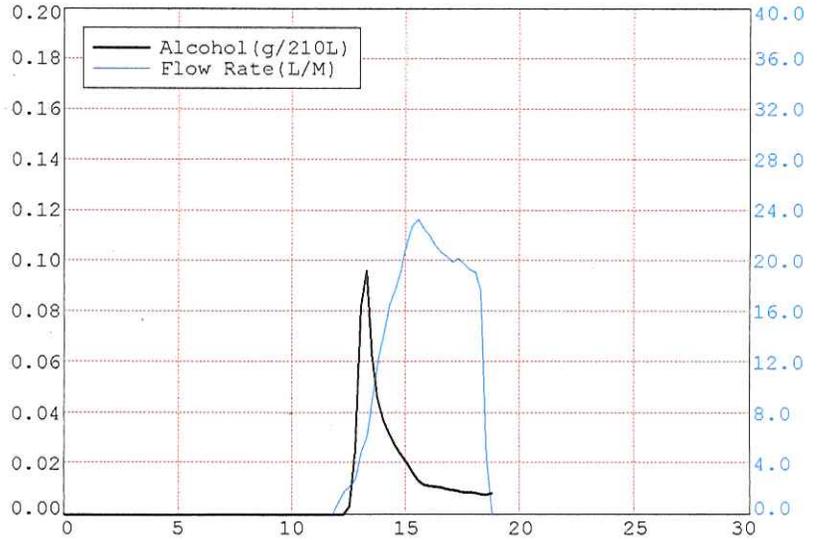
Lot # 19-05-08A2  
Interference Detected

**Mouth Alcohol Test**

Mouth Alcohol Detected

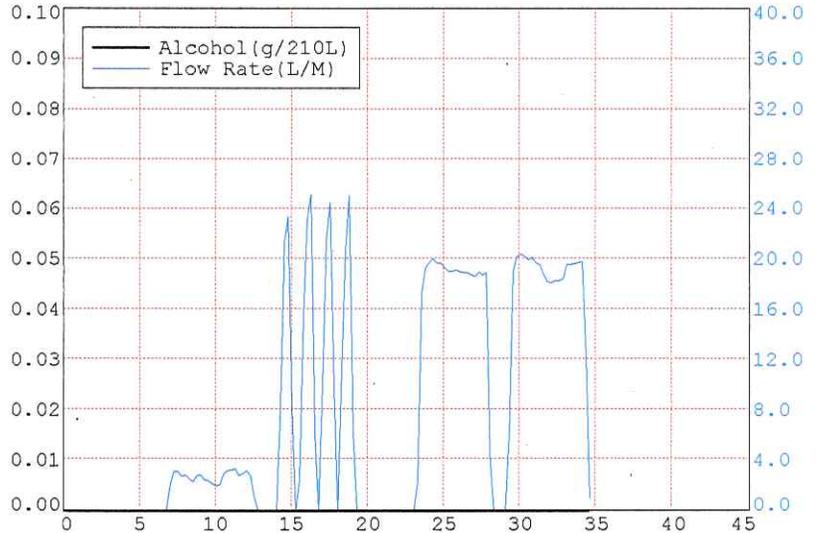
**RF Detection Test**

Passed



**Sample Acceptance Test**

Passed



**CERTIFICATION PASSED**

Performed by [Signature]

Date 10/03/2019

Reviewed by [Signature]

Date 10/4/19