



VERMONT FORENSIC LABORATORY

PO BOX 47
WATERBURY, VERMONT 05676-0047
TEL: 802-244-8788
FAX: 802-241-5557
<http://vfl.vermont.gov>

DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: Middlesex VSP DataMaster Serial #: 100146

Date: 2/13/16 Requestor: Crista Maurice

Instrument Supervisor: Crista Maurice Phone #: (802)229-9191

Taken By: Robert Driscoll

Problem: Cal. Check error during subject test.

Laboratory Response: Alcohol program staff asked DMT supervisor to run a Diagnostic test. The Cal. Check was >4% so the instrument was brought to the VFL for further troubleshooting.

Work Performed: Opened the instrument lid and blew out the filter wheel assembly with compressed air. Ran several diagnostic tests and the Cal. Check passed but was rising over time. Disassembled the filter wheel assembly and inspected the filters and quartz disc. Found a slight haze on the quartz disc. Cleaned the quartz disc to remove the haze. Reassembled the filter wheel assembly and tested with 100 cycles. The instrument was then calibrated and certified. Over the course of several weeks random diagnostic tests were performed to verify that the Cal. Check was not drifting out of spec. The instrument is now ready for installation at the agency.

☐ On Site ☒ In-house

Attachments: 23 pages

Performed By: Robert Driscoll

Date: 3/8/2016

Final Review: [Signature]

Date: 3/8/16

CALIBRATION REPORT

DataMaster DMT: 100146
Calibration Date: 02/25/2016
Calibrated by: ROBERT DRISCOLL
Lot: 15-26-100



Ca	=	0.100		
CAL	=	0.979609	0.800	<= CAL < 1.200
b1	=	0.000	0.000	<= b1 < 0.004
b2	=	0.006	0.002	<= b2 < 0.010
b3	=	0.000	0.000	<= b3 < 0.004
Xq	=	0.085	0.050	<= Xq < 0.200
a21	=	1.215971	1.050	<= a21 < 1.300
a31	=	0.548355	0.300	<= a31 < 0.800

Performed by

RD

Date

02/25/2016



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100146

Date: 02/25/2016

Time: 13:44:23

SUPERVISOR NAME:

RCD CAL CHECK

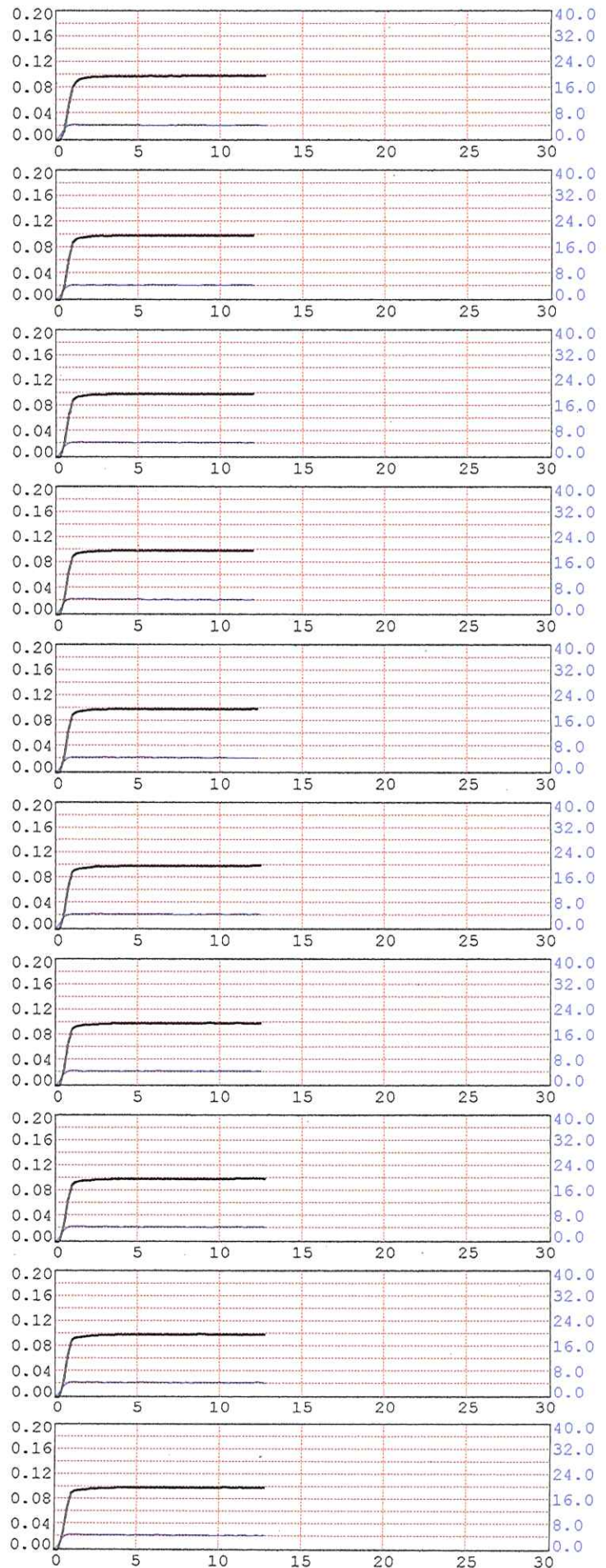
SOLUTION LOT #: GUTH 15120

SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	13:45
CALIBRATION CHECK	PASSED	13:45
SIMULATOR VAPOR 34.1°C	0.099	13:45
SIMULATOR VAPOR 34.1°C	0.099	13:46
SIMULATOR VAPOR 34.1°C	0.099	13:47
SIMULATOR VAPOR 34.0°C	0.099	13:48
SIMULATOR VAPOR 34.0°C	0.099	13:49
SIMULATOR VAPOR 34.1°C	0.099	13:50
SIMULATOR VAPOR 34.0°C	0.099	13:51
SIMULATOR VAPOR 34.1°C	0.099	13:53
SIMULATOR VAPOR 34.0°C	0.099	13:54
SIMULATOR VAPOR 34.0°C	0.099	13:55
BLANK TEST	0.000	13:55

Average = 0.099

Std Dev = 0.0000



CERTIFICATION REPORT

DataMaster DMT: 100146
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Certified by: ROBERT DRISCOLL



Diagnostic Results

VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 46.7°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 5.834 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.0620	0.0646
MIN (V)	0.0606	0.0634

FILTER INFO

Filter 1	0.064	Zero = true
Filter 2	0.284	Zero = true
Filter 3	0.573	Zero = true

CALIBRATION CHECK

Xq = 0.085 0.10%

Options

OPTIONS

Units

Alcohol..... g/210L

Simulator

Tolerance Check..... yes
Standard Type..... wet
Nominal..... 0.100
Digital Simulator..... Guth34CNP

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

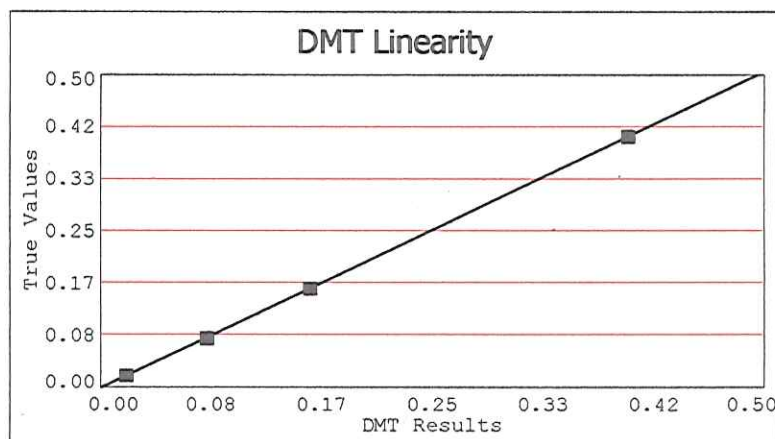
Software Configuration

Data Collection..... yes

Linearity Check Results

True Value	Reported Average	Std Dev
0.020 g/210L	0.019 g/210L	0.0005
Lot # 16-01-020		
0.080 g/210L	0.080 g/210L	0.0000
Lot # 15-15-080		
0.160 g/210L	0.158 g/210L	0.0003
Lot # 15-27-160		
0.402 g/210L	0.397 g/210L	0.0003
Lot # 15-10-400		

$R^2 = 1$



Acetone Interference Test

Lot # 16-02-080A1

Interference Detected

Mouth Alcohol Test

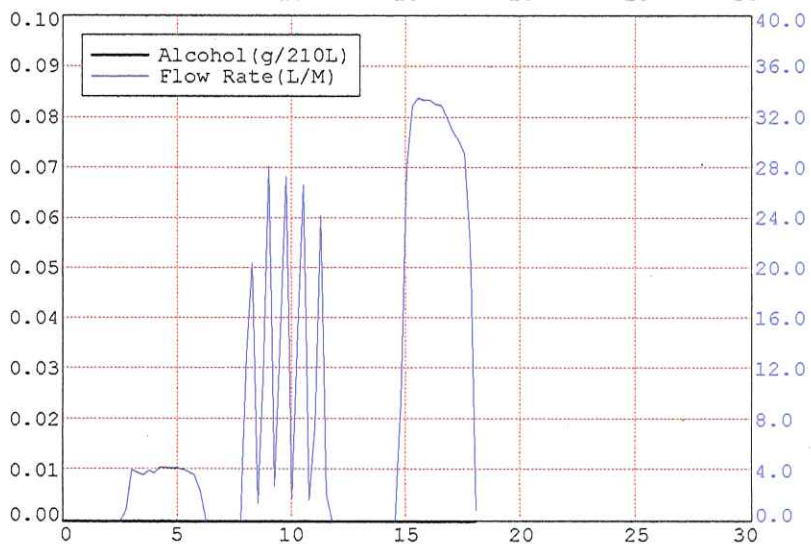
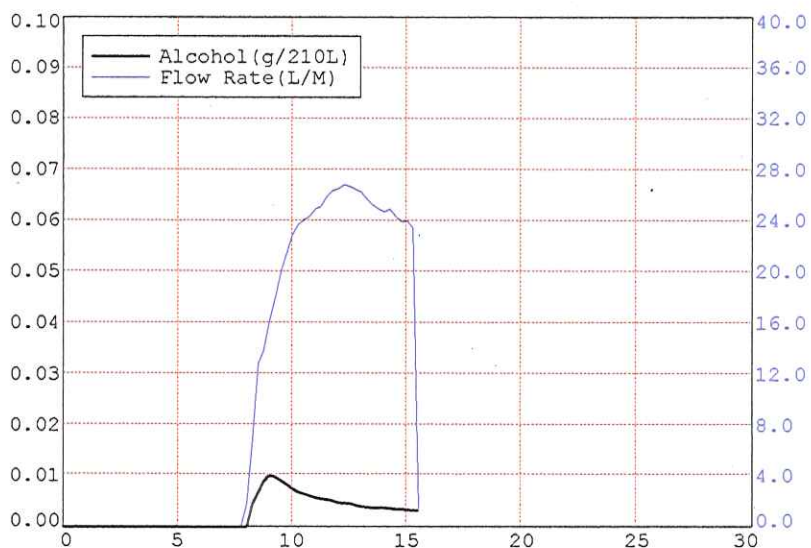
Mouth Alcohol Detected

RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by

76 RD

Date

02/25/2016

Reviewed by

AB

Date

3/8/16

DMT Serial Number #100146

Page 2 of 2

02/25/2016 2:58 PM

5 of 24 RD

Driscoll, Rob

From: Driscoll, Rob
Sent: Tuesday, February 16, 2016 3:34 PM
To: Maurice, Crista
Subject: RE: Datamaster 100146

Crista,

Sorry I didn't have a chance to take a look today and I will be at the VPA tomorrow to teach a class. If you have a chance, can you run a Diagnostic test this evening? I can check the results on our Host computer tomorrow before heading to the academy.

Thanks,
Rob

From: Maurice, Crista
Sent: Saturday, February 13, 2016 9:28 PM
To: Driscoll, Rob
Subject: Datamaster 100146

Hi Rob,

The Datamaster here is saying Calibration Check Error again. I was with Sgt. LeBlanc when it happened. We tried 3 times to run a test and it wouldn't work.

I have not done the RPC on it yet because I was waiting to show the new office clerk after she goes through the class next week.

Let me know if you need me to do anything.

Thanks,
Crista

Trooper Crista Maurice & K9 Cole
Vermont State Police - Middlesex
1080 US Rte 2
Middlesex, Vermont

Phone: (802) 229-9191
Fax: (802) 229-2648

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/16/2016
Test Time: 18:48:59



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 551 Hz

PUMP INFO

Flow Rate = 5.855 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0138	-0.0108
MIN(V)	-0.0150	-0.0118

FILTER INFO

Filter 1	-0.012	Zero = true
Filter 2	0.215	Zero = true
Filter 3	0.505	Zero = true

CALIBRATION CHECK

Xq = 0.084 4.51%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/18/2016
Test Time: 13:23:10



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 47.2°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.179 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0035	0.0069
MIN(V)	0.0020	0.0055

FILTER INFO

Filter 1	0.006	Zero = true
Filter 2	0.231	Zero = true
Filter 3	0.516	Zero = true

CALIBRATION CHECK

Xq = 0.084 4.51%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/18/2016
Test Time: 11:01:40



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.2°C
Breath Tube = 47.5°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 551 Hz

PUMP INFO

Flow Rate = 6.153 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0114	-0.0081
MIN(V)	-0.0124	-0.0094

FILTER INFO

Filter 1	-0.009	Zero = true
Filter 2	0.217	Zero = true
Filter 3	0.510	Zero = true

CALIBRATION CHECK

Xq = 0.084 4.51%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/18/2016
Test Time: 11:37:45



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 43.6°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 538 Hz

PUMP INFO

Flow Rate = 6.145 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0104	0.0161
MIN(V)	0.0091	0.0142

FILTER INFO

Filter 1	0.014	Zero = true
Filter 2	0.239	Zero = true
Filter 3	0.488	Zero = true

CALIBRATION CHECK

Xq = 0.084 4.08%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/18/2016
Test Time: 13:26:19



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.8°C
Breath Tube = 46.7°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 544 Hz

PUMP INFO

Flow Rate = 6.230 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0154	0.0033
MIN(V)	0.0012	-0.0012

FILTER INFO

Filter 1	-0.001	Zero = true
Filter 2	0.391	Zero = true
Filter 3	0.493	Zero = true

CALIBRATION CHECK

Xq = 0.082 1.50%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/19/2016
Test Time: 08:29:54



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 46.4°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 6.192 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0293	-0.0276
MIN(V)	-0.0327	-0.0287

FILTER INFO

Filter 1	-0.028	Zero = true
Filter 2	0.193	Zero = true
Filter 3	0.485	Zero = true

CALIBRATION CHECK

Xq = 0.083 2.90%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/19/2016
Test Time: 11:28:43



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 44.8°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.154 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0335	-0.0293
MIN (V)	-0.0348	-0.0311

FILTER INFO

Filter 1	-0.030	Zero = true
Filter 2	0.191	Zero = true
Filter 3	0.481	Zero = true

CALIBRATION CHECK

Xq = 0.083 2.58%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/19/2016
Test Time: 14:08:48



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 45.8°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 6.119 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0307	-0.0262
MIN(V)	-0.0321	-0.0276

FILTER INFO

Filter 1	-0.028	Zero = true
Filter 2	0.194	Zero = true
Filter 3	0.484	Zero = true

CALIBRATION CHECK

Xq = 0.082 2.36%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/22/2016
Test Time: 09:02:55



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 45.9°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 6.000 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0315	-0.0274
MIN(V)	-0.0329	-0.0291

FILTER INFO

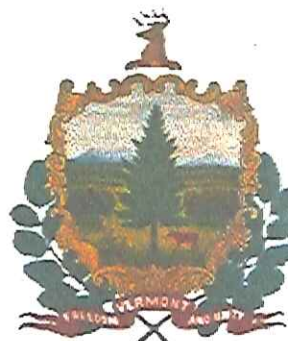
Filter 1	-0.029	Zero = true
Filter 2	0.193	Zero = true
Filter 3	0.484	Zero = true

CALIBRATION CHECK

Xq = 0.083 2.69%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location: MIDDLESEX VSP
Calibration Date: 12/17/2015
Certification Date: 12/18/2015
Installation Date: 12/22/2015
Test Date: 02/22/2016
Test Time: 15:01:21



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.6°C
Breath Tube = 45.1°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 6.100 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0341	-0.0307
MIN(V)	-0.0358	-0.0315

FILTER INFO

Filter 1	-0.031	Zero = true
Filter 2	0.195	Zero = true
Filter 3	0.478	Zero = true

CALIBRATION CHECK

Xq = 0.083 3.22%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 02/25/2016
Test Time: 15:02:26



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.2°C
Digital Sim = 31.8°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.009 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0780	0.0805
MIN(V)	0.0766	0.0795

FILTER INFO

Filter 1	0.080	Zero = true
Filter 2	0.299	Zero = true
Filter 3	0.603	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.21%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/03/2016
Test Time: 08:59:29



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 46.8°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.159 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0311	0.0348
MIN(V)	0.0301	0.0333

FILTER INFO

Filter 1	0.034	Zero = true
Filter 2	0.255	Zero = true
Filter 3	0.540	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.72%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/03/2016
Test Time: 12:33:34



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 46.3°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.121 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0280	0.0321
MIN(V)	0.0270	0.0305

FILTER INFO

Filter 1	0.030	Zero = true
Filter 2	0.251	Zero = true
Filter 3	0.534	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.82%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/03/2016
Test Time: 14:31:42



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 46.1°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.142 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0289	0.0325
MIN(V)	0.0278	0.0313

FILTER INFO

Filter 1	0.032	Zero = true
Filter 2	0.252	Zero = true
Filter 3	0.534	Zero = true

CALIBRATION CHECK

Xq = 0.083 1.44%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/04/2016
Test Time: 08:04:44



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 46.3°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 6.158 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0327	0.0364
MIN(V)	0.0315	0.0354

FILTER INFO

Filter 1	0.035	Zero = true
Filter 2	0.254	Zero = true
Filter 3	0.541	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.93%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/07/2016
Test Time: 08:13:37



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 45.9°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 6.024 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0344	0.0376
MIN(V)	0.0323	0.0358

FILTER INFO

Filter 1	0.037	Zero = true
Filter 2	0.256	Zero = true
Filter 3	0.542	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.72%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/07/2016
Test Time: 09:08:29



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 46.7°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 550 Hz

PUMP INFO

Flow Rate = 5.967 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0307	0.0337
MIN(V)	0.0293	0.0327

FILTER INFO

Filter 1	0.033	Zero = true
Filter 2	0.253	Zero = true
Filter 3	0.537	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.51%

DIAGNOSTIC RESULT

DataMaster DMT: 100146
Location:
Calibration Date: 02/25/2016
Certification Date: 02/25/2016
Installation Date:
Test Date: 03/08/2016
Test Time: 11:06:18



VERSIONS

DMT: 2.00
PIC: 2.05
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 46.3°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 549 Hz

PUMP INFO

Flow Rate = 6.003 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0256	0.0287
MIN(V)	0.0246	0.0274

FILTER INFO

Filter 1	0.027	Zero = true
Filter 2	0.249	Zero = true
Filter 3	0.531	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.31%