SECTION 4

INTERFERENCE TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/12/2011
Certification Date:
Installation Date:
Test Date: 10/12/2011
Test Time: 15:52:19

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 43.4°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.78 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 533 Hz

PUMP INFO
Flow Rate = 5.669 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0069	0.0100
MIN(V)	0.0053	0.0085

FILTER INFO
Filter 1 0.009 Zero = true
Filter 2 0.295 Zero = true
Filter 3 0.543 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.00%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

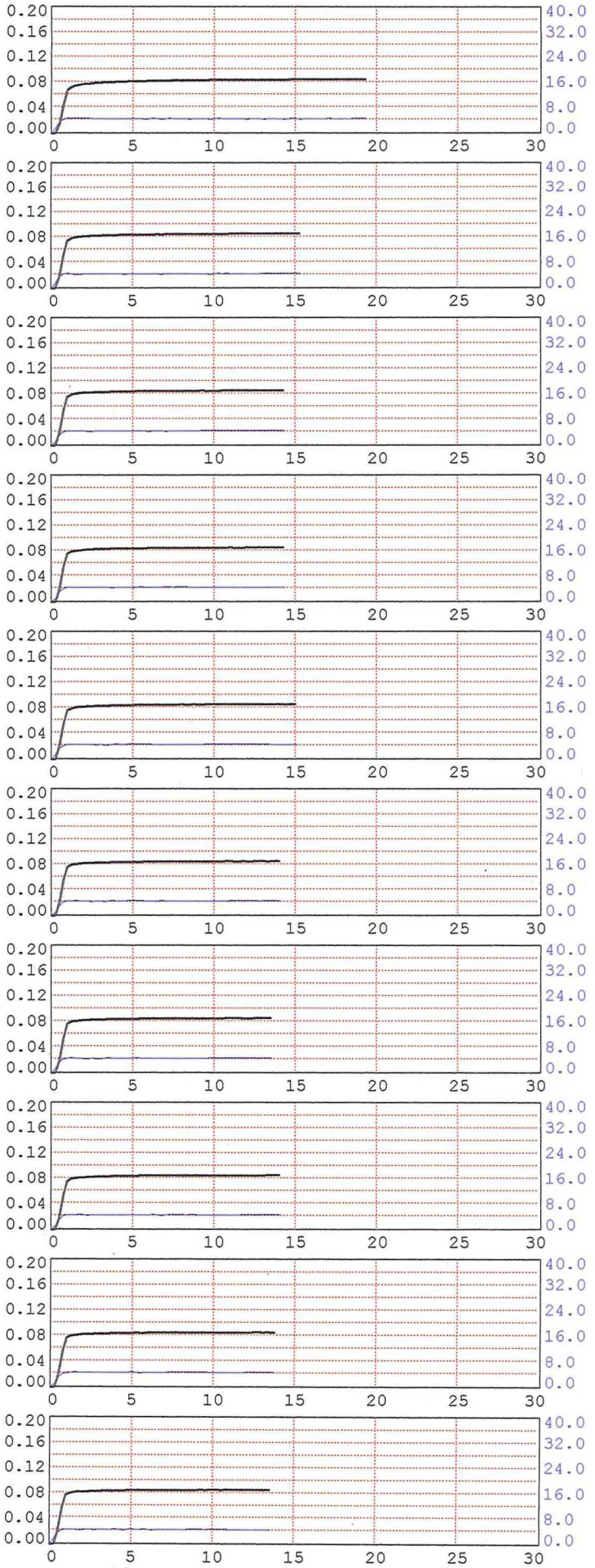
Date: 10/13/2011
Time: 07:09:45

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-16-080A1
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	07:10
CALIBRATION CHECK	PASSED	07:10
SIMULATOR VAPOR 34.0°C	INTERFERENCE	07:11
SIMULATOR VAPOR 34.0°C	INTERFERENCE	07:12
SIMULATOR VAPOR 33.9°C	INTERFERENCE	07:13
SIMULATOR VAPOR 33.9°C	INTERFERENCE	07:14
SIMULATOR VAPOR 33.9°C	INTERFERENCE	07:15
SIMULATOR VAPOR 34.0°C	INTERFERENCE	07:16
SIMULATOR VAPOR 34.0°C	INTERFERENCE	07:17
SIMULATOR VAPOR 33.9°C	INTERFERENCE	07:18
SIMULATOR VAPOR 33.9°C	INTERFERENCE	07:19
SIMULATOR VAPOR 33.9°C	INTERFERENCE	07:20
BLANK TEST	0.000	07:21

100%
0.01 Acetone
0.080 EtOH
KLK
10-13-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

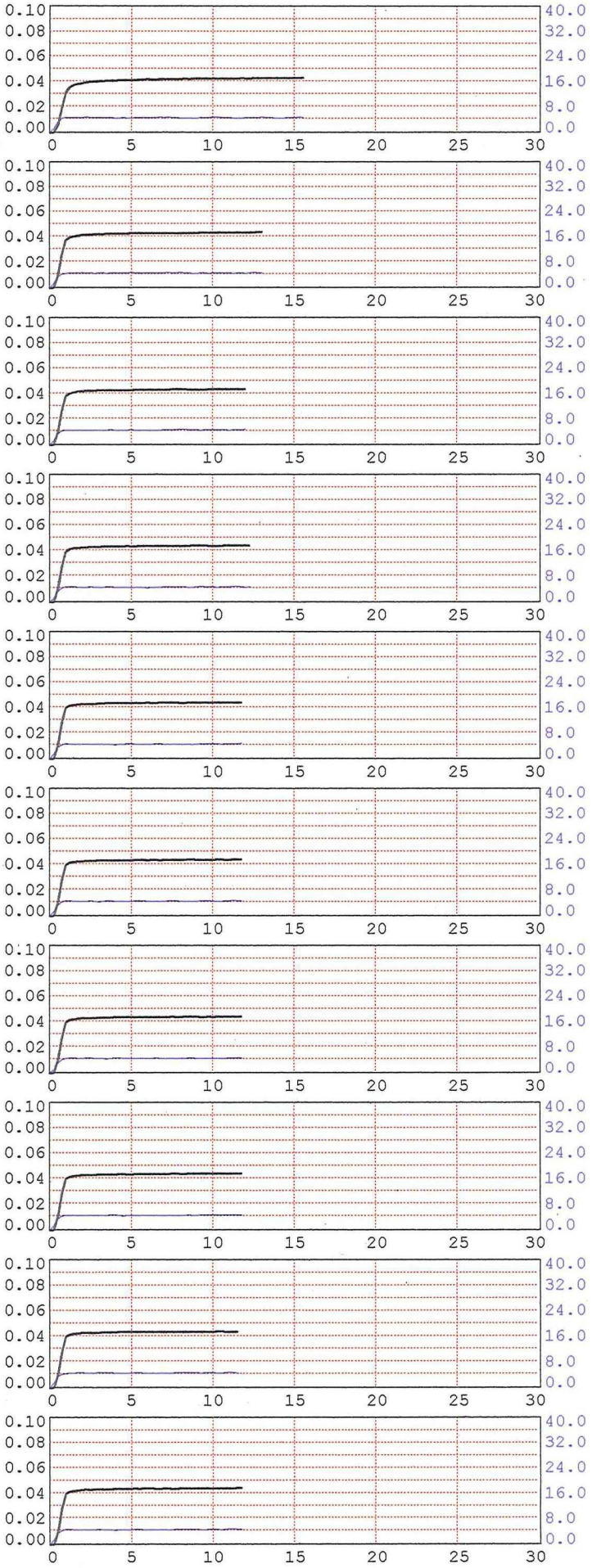
Date: 10/13/2011
Time: 09:47:26

SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-10-040A1
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:48
CALIBRATION CHECK	PASSED	09:48
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:48
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:49
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:50
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:51
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:52
SIMULATOR VAPOR 34.0°C	INTERFERENCE	09:54
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:55
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:56
SIMULATOR VAPOR 34.0°C	INTERFERENCE	09:57
SIMULATOR VAPOR 33.9°C	INTERFERENCE	09:58
BLANK TEST	0.000	09:59

100%
0.01 acetone
0.040 EtOH
MLC
10-13-1



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/13/2011
Time: 11:58:21

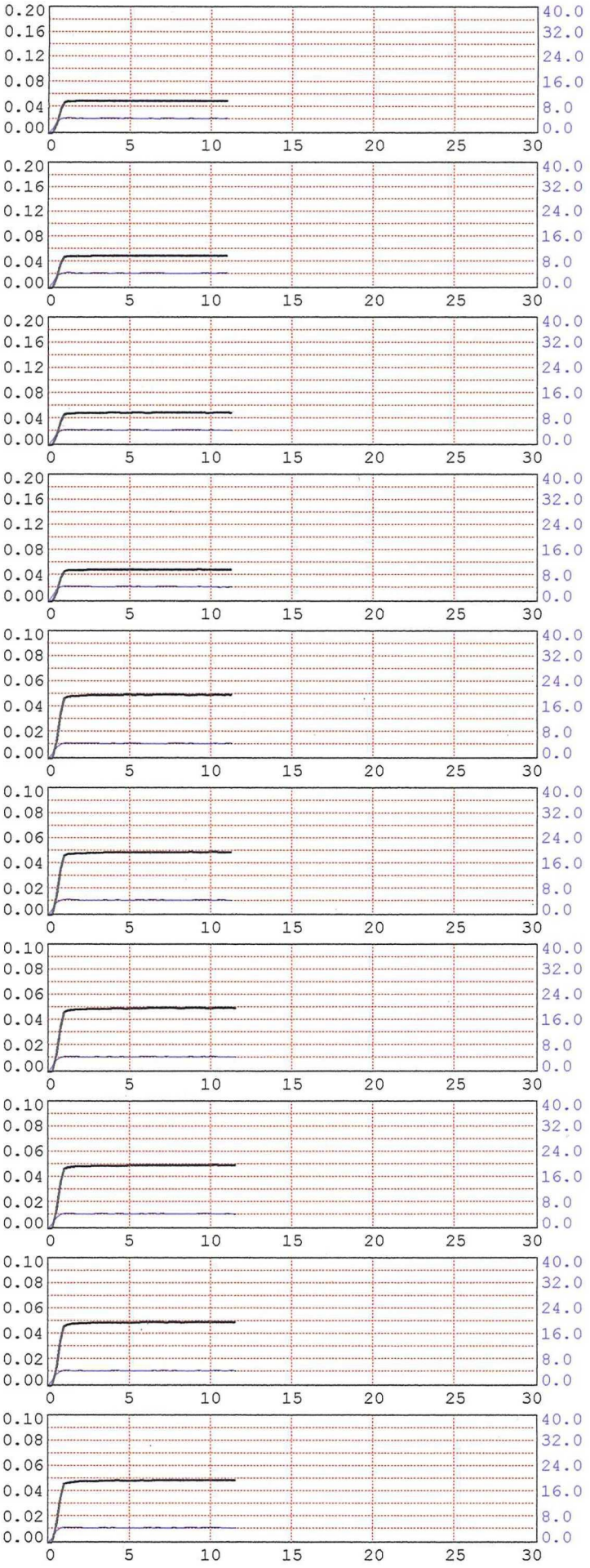
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-10-040A2
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	11:59
CALIBRATION CHECK	PASSED	11:59
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:59
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:00
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:01
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:02
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:03
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:04
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:05
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:06
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:07
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:08
BLANK TEST	0.000	12:09

100% 10/13/11 [illegible] 10-13-11

0.02% Acetone | 0.04% EtOH



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/14/2011
Time: 12:05:29

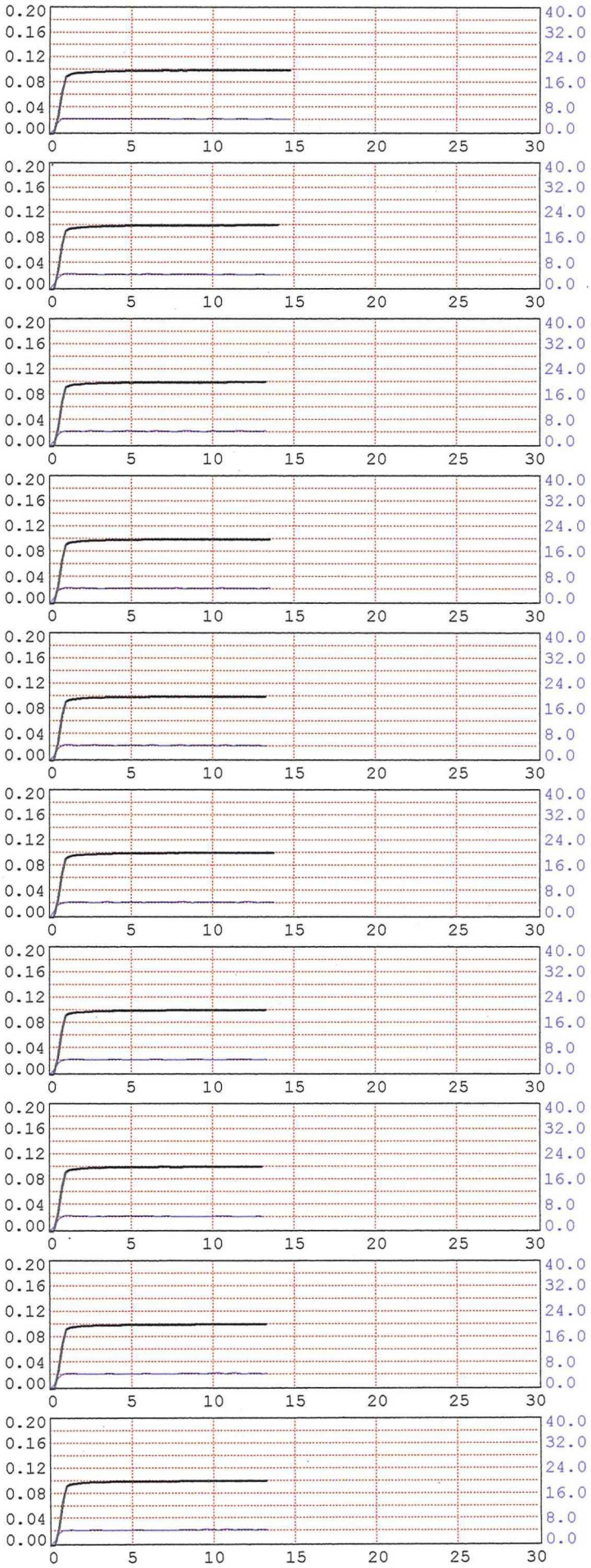
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-04-080M
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	12:06
CALIBRATION CHECK	PASSED	12:06
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:06
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:07
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:08
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:10
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:11
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:12
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:13
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:14
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:15
SIMULATOR VAPOR 34.0°C	INTERFERENCE	12:16
BLANK TEST	0.000	12:17

100% 10/14/11 SM

0.04% MeOH / 0.08% EtOH



DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/12/2011
Certification Date: 10/13/2011
Installation Date:
Test Date: 10/17/2011
Test Time: 07:55:16

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 43.2°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.78 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 530 Hz

PUMP INFO
Flow Rate = 5.484 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0063	0.0114
MIN(V)	0.0049	0.0100

FILTER INFO
Filter 1 0.010 Zero = true
Filter 2 0.296 Zero = true
Filter 3 0.526 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.54%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

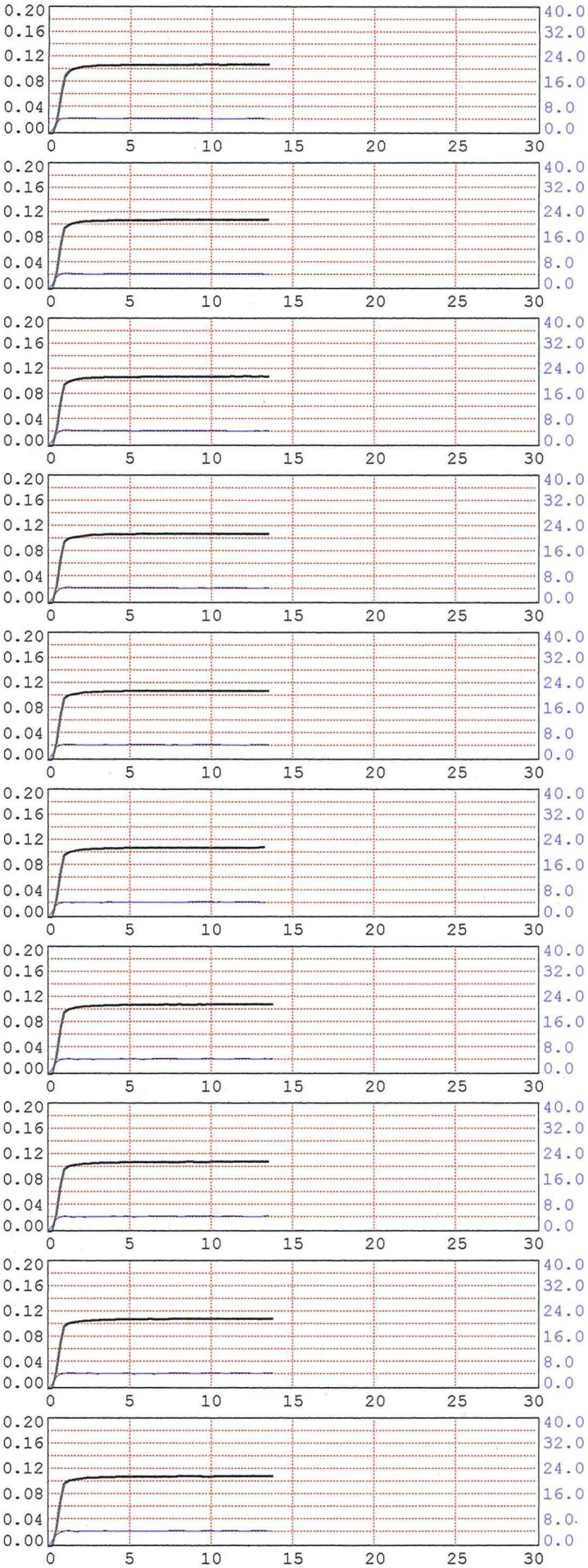
Date: 10/17/2011
Time: 11:24:46

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-16-080I
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	11:25
CALIBRATION CHECK	PASSED	11:25
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:26
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:27
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:28
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:29
SIMULATOR VAPOR 34.0°C	INTERFERENCE	11:30
SIMULATOR VAPOR 34.0°C	INTERFERENCE	11:31
SIMULATOR VAPOR 34.0°C	INTERFERENCE	11:32
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:33
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:34
SIMULATOR VAPOR 34.0°C	INTERFERENCE	11:35
BLANK TEST	0.000	11:36

100%
0.04 IPA
0.080 EtOH
KLK
10-17-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/18/2011
Time: 15:03:09

SUPERVISOR NAME:
KIRK L KIMBALL

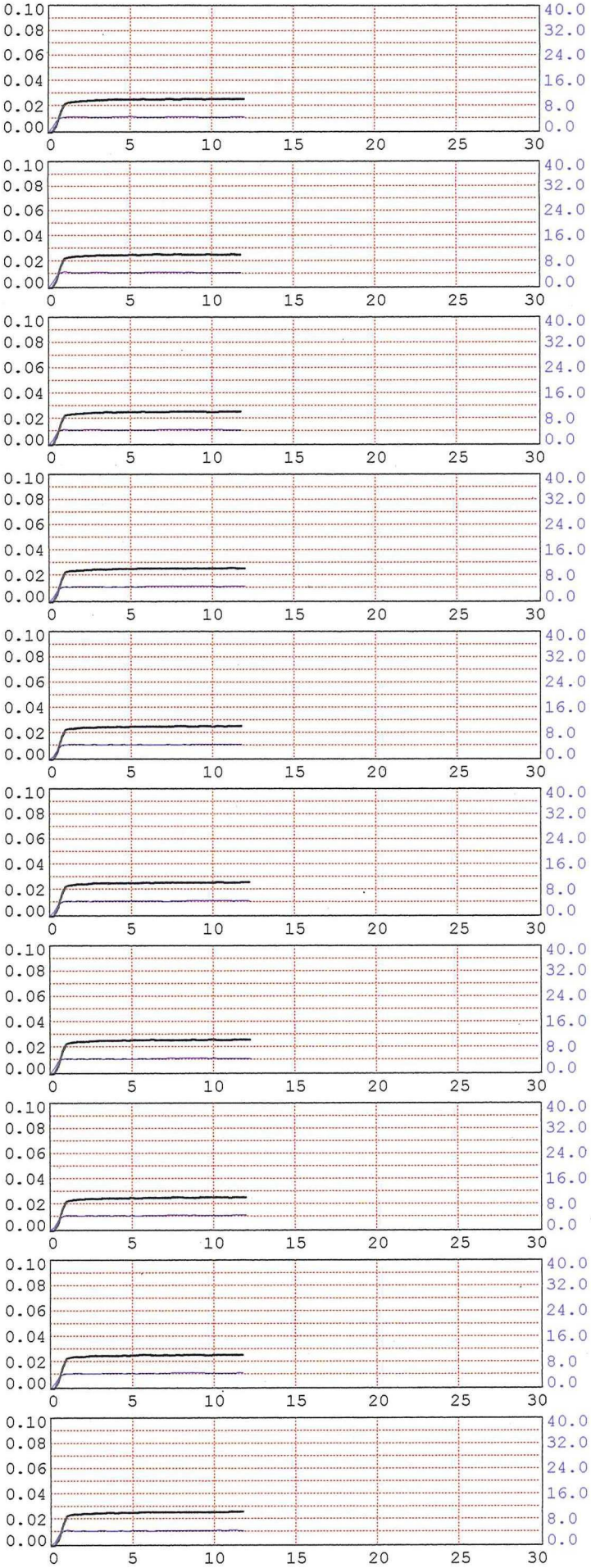
SOLUTION LOT #: 12-18-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	15:04
CALIBRATION CHECK	PASSED	15:04
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:04
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:05
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:06
SIMULATOR VAPOR 34.5°C	INTERFERENCE	15:07
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:08
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:09
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:10
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:11
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:12
SIMULATOR VAPOR 34.4°C	INTERFERENCE	15:13
BLANK TEST	0.000	15:14

100% 10/18/11 Sam

0.04% IPA/H_2O

KLK 10-18-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

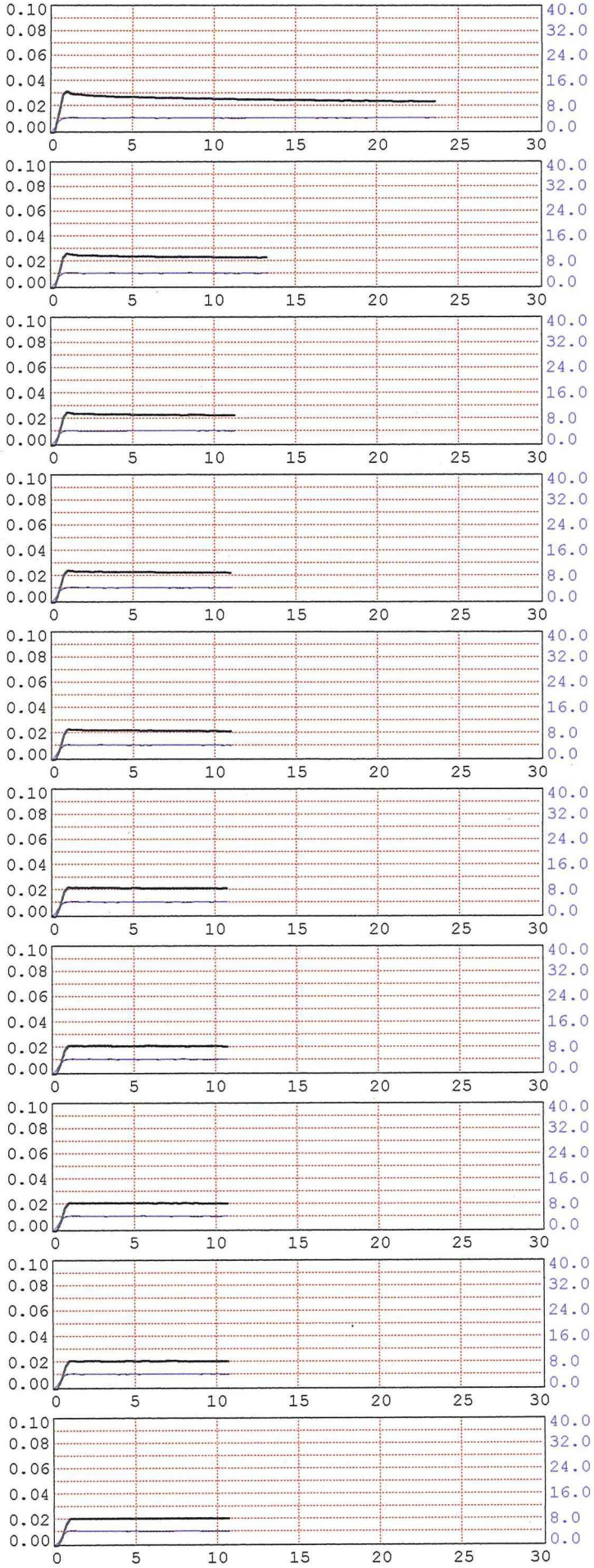
Date: 10/18/2011
Time: 16:20:58

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-17-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	16:21
CALIBRATION CHECK	PASSED	16:21
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:22
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:23
SIMULATOR VAPOR 34.2°C	INTERFERENCE	16:24
SIMULATOR VAPOR 34.2°C	INTERFERENCE	16:25
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:26
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:27
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:28
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:29
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:30
SIMULATOR VAPOR 34.4°C	INTERFERENCE	16:31
BLANK TEST	0.000	16:32

100%
0.04 MeOH
in H_2O
KLK
10-19-11



SECTION 5

FINAL CALIBRATION CHECK TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/12/2011
Certification Date: 10/13/2011
Installation Date:
Test Date: 10/19/2011
Test Time: 08:33:16

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.2°C
Breath Tube = 44.7°C
Digital Sim = 34.4°C

SETTINGS
Lamp Voltage = 1.78 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.617 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0512	0.0545
MIN(V)	0.0480	0.0535

FILTER INFO
Filter 1 0.054 Zero = true
Filter 2 0.340 Zero = true
Filter 3 0.600 Zero = true

CALIBRATION CHECK
Xq = 0.081 1.30%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/19/2011
Time: 08:36:26

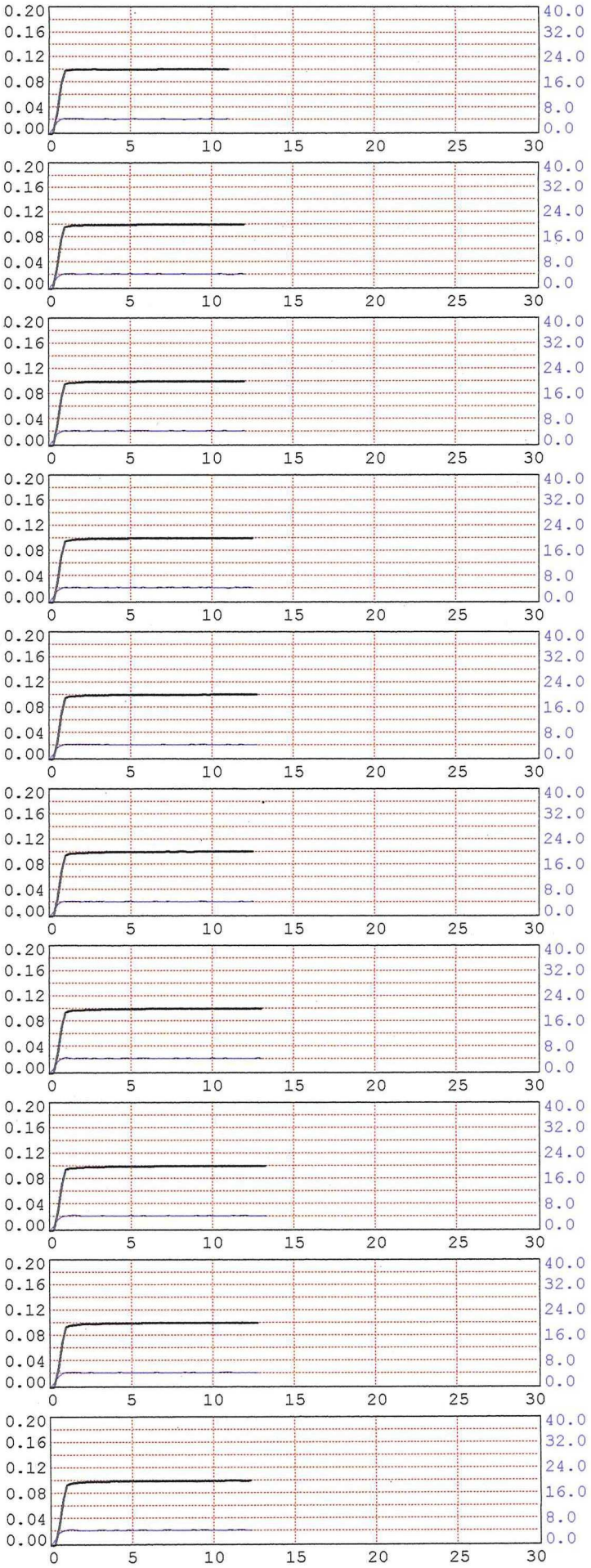
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-22-100
SOLUTION CONCENTRATION: 0.101

BLANK TEST	0.000	08:37
CALIBRATION CHECK	PASSED	08:37
SIMULATOR VAPOR 34.4°C	0.101	08:37
SIMULATOR VAPOR 34.4°C	0.101	08:38
SIMULATOR VAPOR 34.4°C	0.101	08:39
SIMULATOR VAPOR 34.4°C	0.101	08:40
SIMULATOR VAPOR 34.5°C	0.101	08:41
SIMULATOR VAPOR 34.4°C	0.101	08:43
SIMULATOR VAPOR 34.5°C	0.101	08:44
SIMULATOR VAPOR 34.4°C	0.101	08:45
SIMULATOR VAPOR 34.4°C	0.101	08:46
SIMULATOR VAPOR 34.2°C	0.100	08:47
BLANK TEST	0.000	08:48

Average = 0.100
Std Dev = 0.000

In-House Cal Check. 10/19/11 SRM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/19/2011
Time: 08:51:42

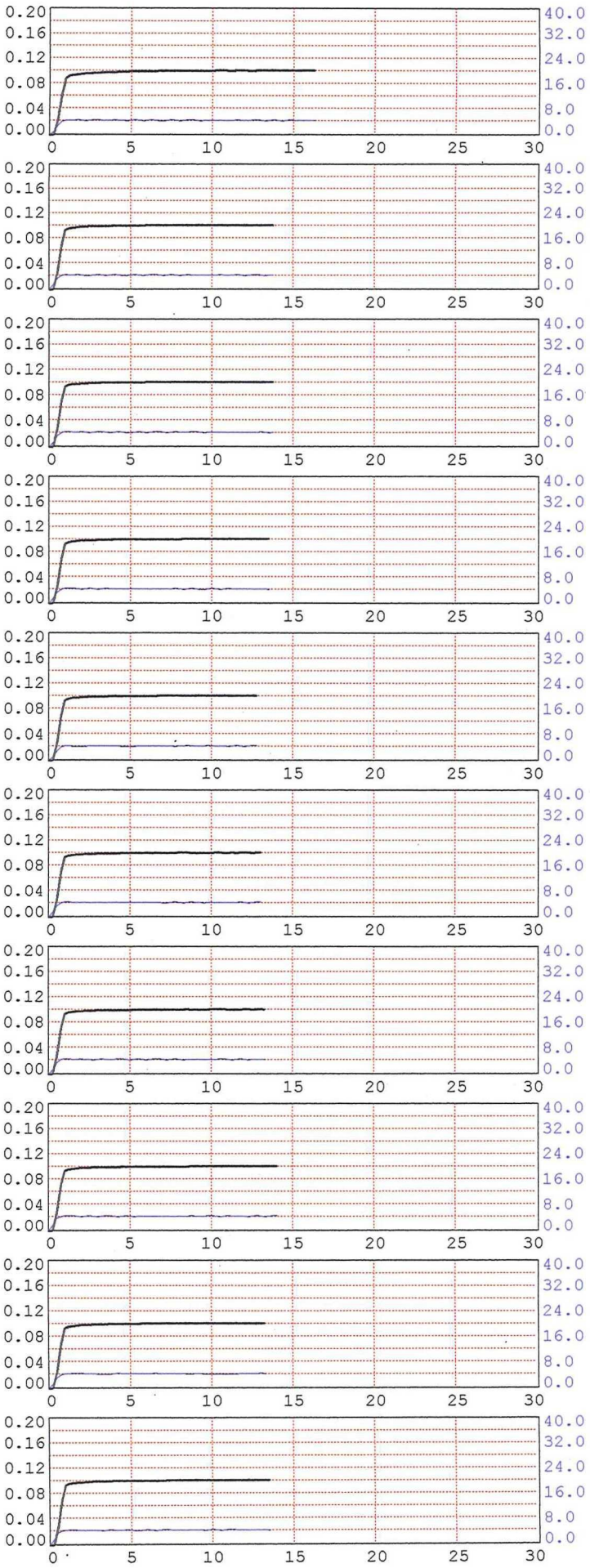
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: GUTH 11050
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	08:52
CALIBRATION CHECK	PASSED	08:52
SIMULATOR VAPOR 34.4°C	0.101	08:53
SIMULATOR VAPOR 34.2°C	0.102	08:54
SIMULATOR VAPOR 34.2°C	0.102	08:55
SIMULATOR VAPOR 34.4°C	0.101	08:56
SIMULATOR VAPOR 34.5°C	0.101	08:57
SIMULATOR VAPOR 34.4°C	0.101	08:58
SIMULATOR VAPOR 34.4°C	0.101	08:59
SIMULATOR VAPOR 34.4°C	0.101	09:00
SIMULATOR VAPOR 34.4°C	0.101	09:01
SIMULATOR VAPOR 34.4°C	0.101	09:02
BLANK TEST	0.000	09:03

Average = 0.101
Std Dev = 0.000

2nd Source Cal Check. 10/19/11 SM



SECTION 6

ERROR REPORTS

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/14/2011
Time: 12:28:11

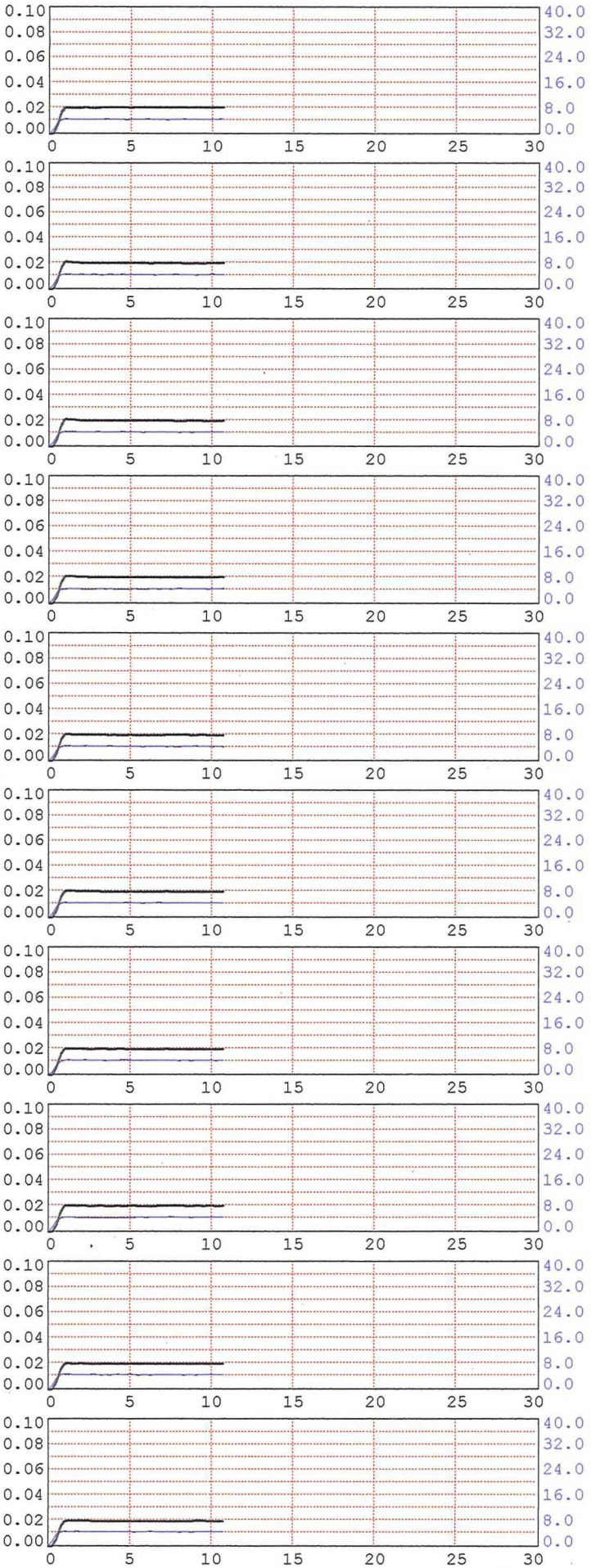
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-19-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	12:29
CALIBRATION CHECK	PASSED	12:29
SIMULATOR VAPOR 33.9°C	0.021	12:29
SIMULATOR VAPOR 34.0°C	0.021	12:30
SIMULATOR VAPOR 33.9°C	0.021	12:31
SIMULATOR VAPOR 34.0°C	0.021	12:32
SIMULATOR VAPOR 33.9°C	0.021	12:33
SIMULATOR VAPOR 33.9°C	0.021	12:34
SIMULATOR VAPOR 33.9°C	0.021	12:35
SIMULATOR VAPOR 33.9°C	0.021	12:36
SIMULATOR VAPOR 33.9°C	0.020	12:37
SIMULATOR VAPOR 33.9°C	0.020	12:38
BLANK TEST	0.000	12:39

Average = 0.020
Std Dev = 0.000

L3 10/14/11 SRM



DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/12/2011
Certification Date: 10/13/2011
Installation Date:
Test Date: 10/14/2011
Test Time: 14:19:46

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 45.1°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.78 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 533 Hz

PUMP INFO
Flow Rate = 5.498 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0112	0.0159
MIN(V)	0.0098	0.0144

FILTER INFO

Filter 1	0.015	Zero = true
Filter 2	0.303	Zero = true
Filter 3	0.545	Zero = true

CALIBRATION CHECK
Xq = 0.080 0.33%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/14/2011
Time: 14:21:45

SUPERVISOR NAME:
STEVEN R MERRILL

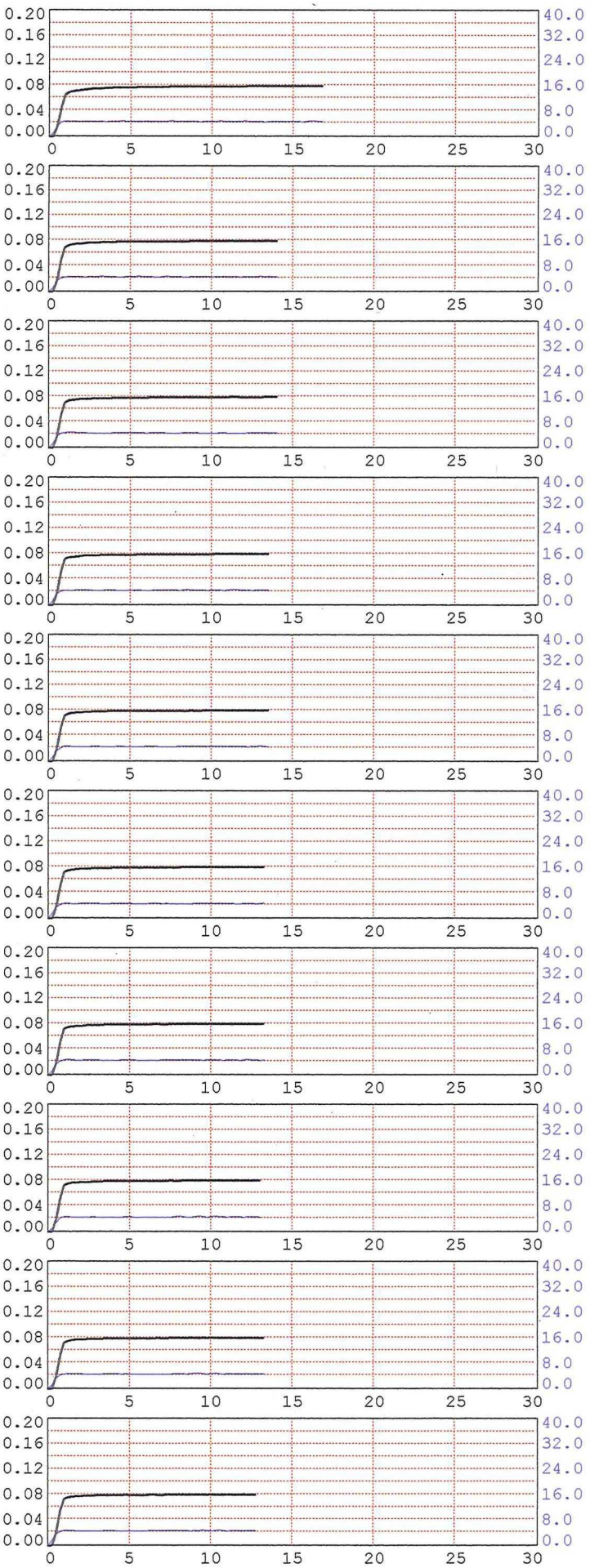
SOLUTION LOT #: 12-16-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	14:22
CALIBRATION CHECK	PASSED	14:22
SIMULATOR VAPOR 34.0°C	0.080	14:23
SIMULATOR VAPOR 33.9°C	0.080	14:24
SIMULATOR VAPOR 33.9°C	0.080	14:25
SIMULATOR VAPOR 34.0°C	0.080	14:26
SIMULATOR VAPOR 33.9°C	0.080	14:27
SIMULATOR VAPOR 33.9°C	0.080	14:28
SIMULATOR VAPOR 33.9°C	0.081	14:29
SIMULATOR VAPOR 33.8°C	0.080	14:30
SIMULATOR VAPOR 33.9°C	0.080	14:31
SIMULATOR VAPOR 34.0°C	0.080	14:32
BLANK TEST	0.000	14:33

Average = 0.080
Std Dev = 0.000

L3 10/14/11 SRM

Linearity Not Completed due to No 0.160 Cert. Soln. available. RRC 10-17-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/18/2011
Time: 15:59:37

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-20-400
SOLUTION CONCENTRATION: 0.404

Ambient Fail

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/18/2011
Time: 16:18:32

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-17-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	16:19
CALIBRATION CHECK	PASSED	16:19

Simulator Timed Out

DataMaster DMT Serial Number 100149

Power Up	CAL Factor	In-House & 2nd Source Calibration Check			Simulator Assignment	Certification	0.01% Acet. in 0.08% EtOH	0.04% MeOH in H_2O	0.04% IPA in H_2O	0.01% Acet. in 0.04% EtOH	0.02% Acet. in 0.04% EtOH	0.04% MeOH in 0.08% EtOH	0.04% IPA in 0.08% EtOH
		NIST Temp. °C	Lot. #	Result (g/210L)									
completed 10/7/11 [illegible] [illegible]	0.969651 10-7-11 [illegible] [illegible]	34.0	GUTH 11050	0.100 10-7-11 [illegible] [illegible]		10-11-11 [illegible] [illegible] 10/12/11							
		34.0	11-39-100	0.099 10-7-11 [illegible] [illegible]									

Linearity Test #1	Linearity Test #2	Linearity Test #3	Linearity Test #4	Linearity Test #5	Data Download	In-House & 2nd Source Calibration Check		
						NIST Temp.°C	Lot. #	Result (g/210L)

Notes: Power Started 10-5-11 [illegible] [illegible]
H_2O for calibration NIST Temp = 34.0°C 10/07/11 [illegible] [illegible]
Calibration Solution NIST Temp = 34.0°C 10/7/11 [illegible] [illegible]

Analyst:_____ **Reviewer:**_____ **Reviewer:**_____

CALIBRATION REPORT

DataMaster DMT: 100149
Calibration Date: 10/07/2011
Calibrated by: KIRK L KIMBALL
Lot: 11-37-100

```
Ca  = 0.100
CAL = 0.969651   0.800  <= CAL < 1.200
b1  = 0.000      0.000  <=  b1 < 0.004
b2  = 0.005      0.002  <=  b2 < 0.010
b3  = 0.000      0.000  <=  b3 < 0.004
Xq  = 0.080      0.050  <=  Xq < 0.200
a21 = 1.174227   1.050  <= a21 < 1.300
a31 = 0.562520   0.300  <= a31 < 0.800
```

Performed by _____ Date 10/07/2011

DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/07/2011
Test Time: 13:29:31

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.6°C
Breath Tube = 46.0°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.74 V
Bias Voltage = 80 V
Chopper Freq = 545 Hz

PUMP INFO
Flow Rate = 5.732 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0061	0.0104
MIN(V)	0.0047	0.0091

FILTER INFO
Filter 1 0.010 Zero = true
Filter 2 0.302 Zero = true
Filter 3 0.539 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.33%

DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/07/2011
Certification Date:
Installation Date:
Test Date: 10/07/2011
Test Time: 13:38:26

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.6°C
Breath Tube = 44.8°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.73 V
Bias Voltage = 80 V
Chopper Freq = 544 Hz

PUMP INFO
Flow Rate = 5.734 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0122	0.0157
MIN(V)	0.0106	0.0144

FILTER INFO
Filter 1 0.014 Zero = true
Filter 2 0.307 Zero = true
Filter 3 0.544 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.00%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/07/2011
Time: 13:44:35

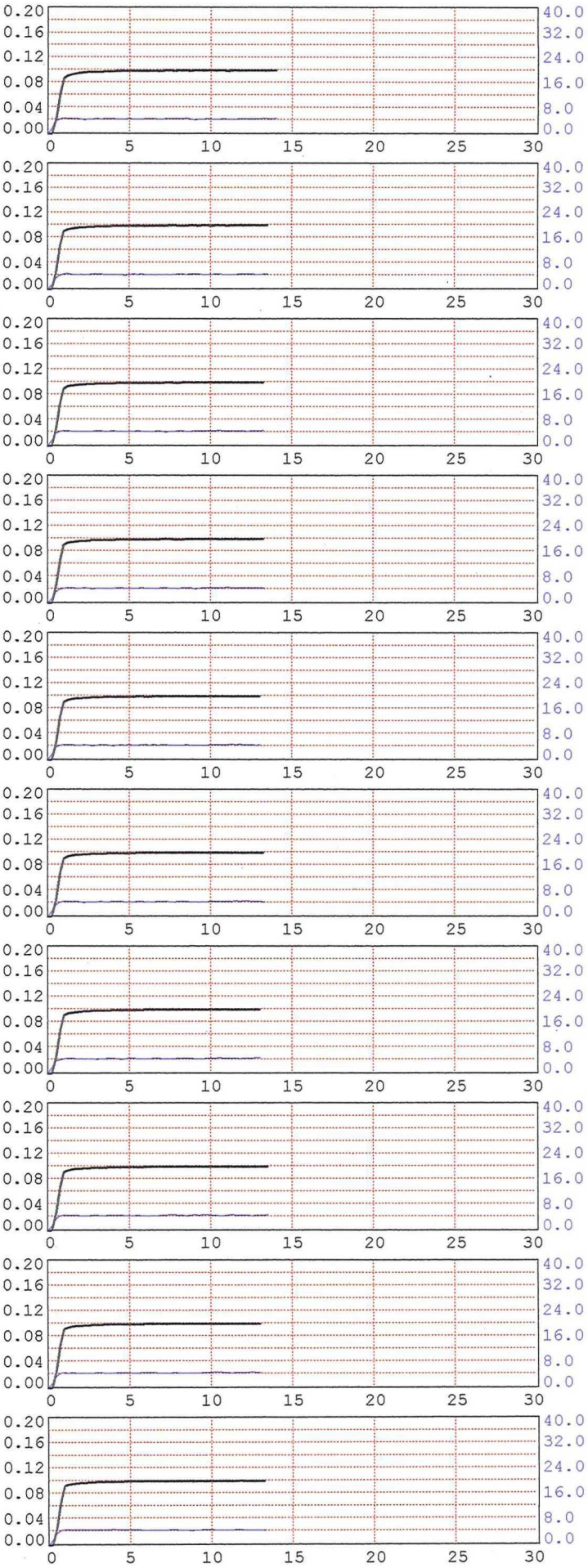
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: GUTH 11050
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	13:45
CALIBRATION CHECK	PASSED	13:45
SIMULATOR VAPOR 34.2°C	0.100	13:45
SIMULATOR VAPOR 34.2°C	0.100	13:47
SIMULATOR VAPOR 34.2°C	0.100	13:48
SIMULATOR VAPOR 34.2°C	0.100	13:49
SIMULATOR VAPOR 34.2°C	0.100	13:50
SIMULATOR VAPOR 34.2°C	0.100	13:51
SIMULATOR VAPOR 34.4°C	0.100	13:52
SIMULATOR VAPOR 34.2°C	0.100	13:53
SIMULATOR VAPOR 34.4°C	0.100	13:54
SIMULATOR VAPOR 34.1°C	0.100	13:55
BLANK TEST	0.000	13:56

Average = 0.100
Std Dev = 0.000

2nd Source
Cal Check
KLK
10-7-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/07/2011
Time: 14:05:43

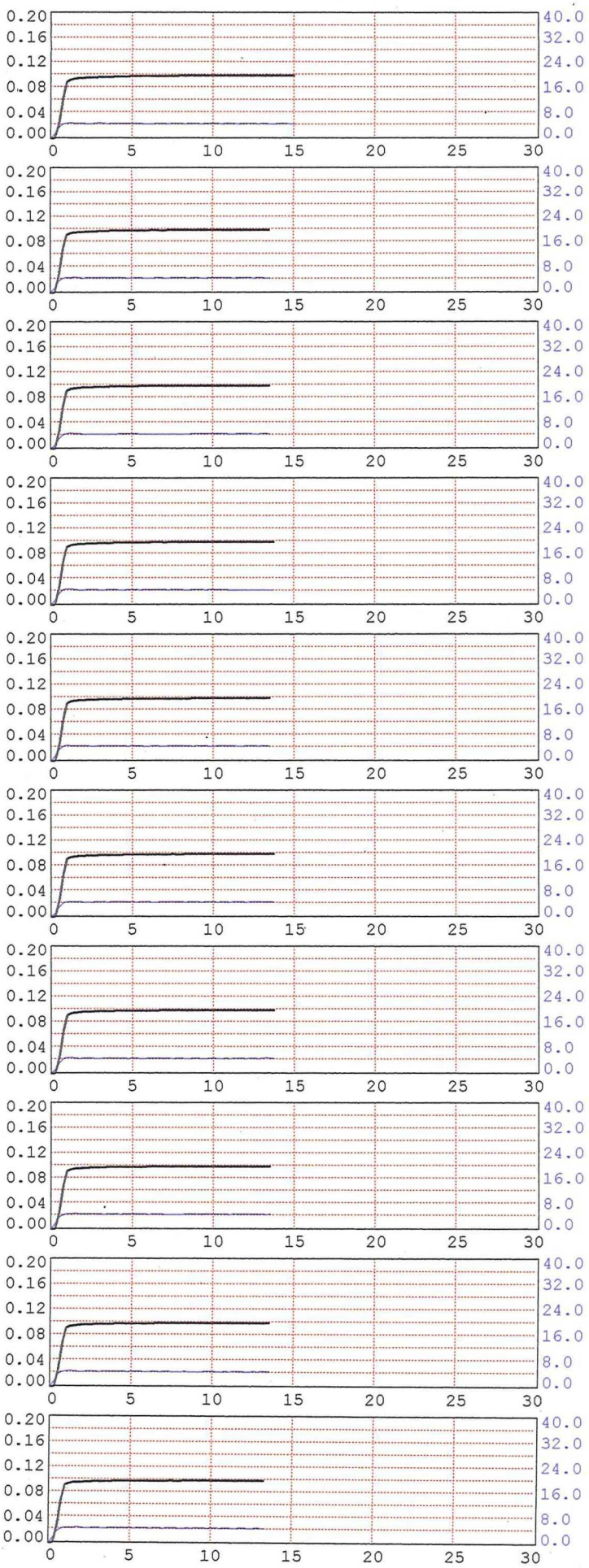
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 11-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	14:06
CALIBRATION CHECK	PASSED	14:06
SIMULATOR VAPOR 34.2°C	0.099	14:07
SIMULATOR VAPOR 34.2°C	0.099	14:08
SIMULATOR VAPOR 34.2°C	0.099	14:09
SIMULATOR VAPOR 34.2°C	0.099	14:10
SIMULATOR VAPOR 34.2°C	0.099	14:11
SIMULATOR VAPOR 34.2°C	0.099	14:12
SIMULATOR VAPOR 34.2°C	0.099	14:13
SIMULATOR VAPOR 34.2°C	0.099	14:14
SIMULATOR VAPOR 34.2°C	0.099	14:15
SIMULATOR VAPOR 34.2°C	0.099	14:16
BLANK TEST	0.000	14:17

Average = 0.099
Std Dev = 0.000

In house Cal check
KKK
10-7-11



DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/07/2011
Certification Date:
Installation Date:
Test Date: 10/07/2011
Test Time: 14:22:54

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 45.3°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.74 V
Bias Voltage = 80 V
Chopper Freq = 543 Hz

PUMP INFO
Flow Rate = 5.710 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0250	0.0268
MIN(V)	0.0234	0.0256

FILTER INFO

Filter 1	0.027	Zero = true
Filter 2	0.317	Zero = true
Filter 3	0.569	Zero = true

CALIBRATION CHECK
Xq = 0.080 0.66%

DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/07/2011
Certification Date:
Installation Date:
Test Date: 10/11/2011
Test Time: 07:10:35

```
VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube    = 45.6°C
Digital Sim    = 34.2°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.74 V
Bias Voltage   = 80 V
Chopper Freq   = 544 Hz

PUMP INFO
Flow Rate = 5.734 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)    0.0388    0.0425
MIN(V)    0.0372    0.0409

FILTER INFO
Filter 1   0.041  Zero = true
Filter 2   0.333  Zero = true
Filter 3   0.561  Zero = true

CALIBRATION CHECK
Xq  = 0.080  0.11%
```

CERTIFICATION REPORT

DataMaster DMT: 100149
Calibration Date: 10/07/2011
Certification Date: 10/11/2011
Certified by: KIRK L KIMBALL

Diagnostic Results

```
VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube    = 44.6°C
Digital Sim    = 34.2°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.73 V
Bias Voltage   = 80 V
Chopper Freq   = 544 Hz

PUMP INFO
Flow Rate = 5.611 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.0366    0.0415
MIN(V)   0.0354    0.0402

FILTER INFO
Filter 1   0.041  Zero = true
Filter 2   0.332  Zero = true
Filter 3   0.562  Zero = true

CALIBRATION CHECK
Xq  = 0.080  0.22%
```

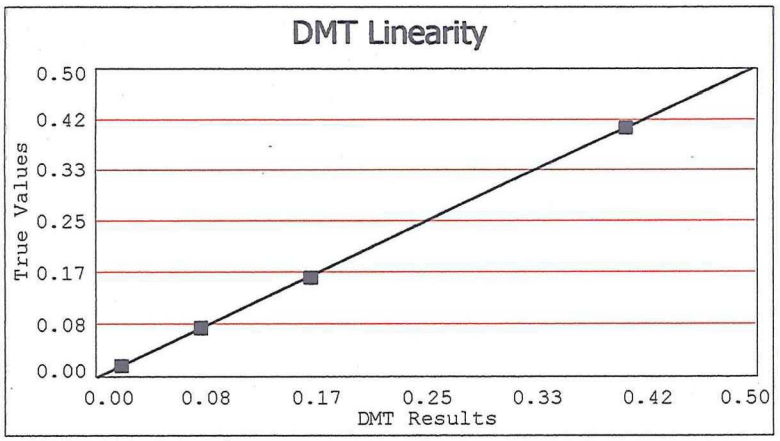
Options

```
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
0.019 g/210L Lot # 12-14-020	0.019 g/210L	0.0000
0.080 g/210L Lot # 12-16-080	0.079 g/210L	0.0000
0.161 g/210L Lot # 12-12-160	0.162 g/210L	0.0000
0.404 g/210L Lot # 12-20-400	0.400 g/210L	0.0000

$R^2 = 0.9999$



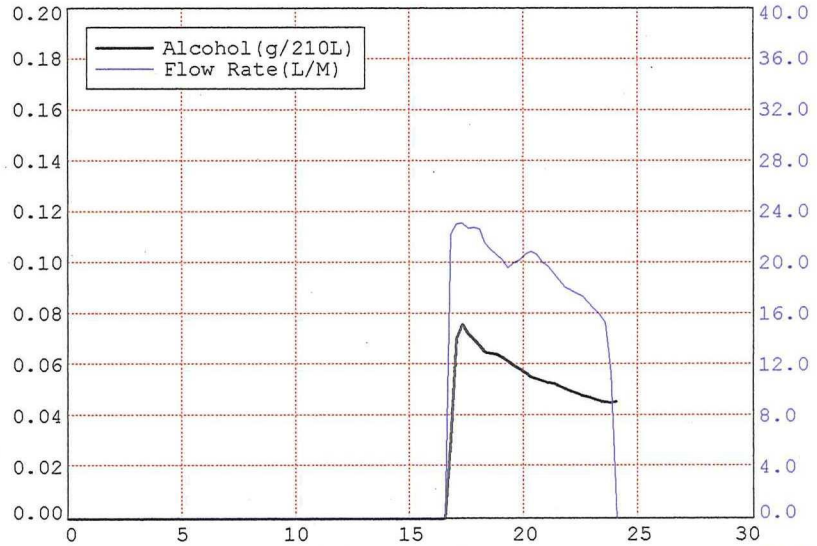
Acetone Interference Test

Lot # 12-16-080A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

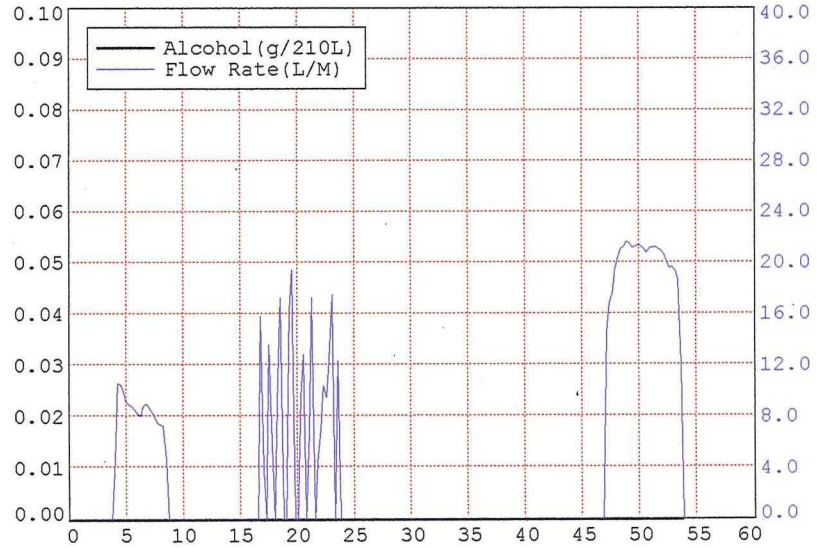


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ 10-11-11 Date 10/11/2011

Reviewed by _____ Date 10/12/11

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100149

Date: 10/12/2011
Time: 10:44:38

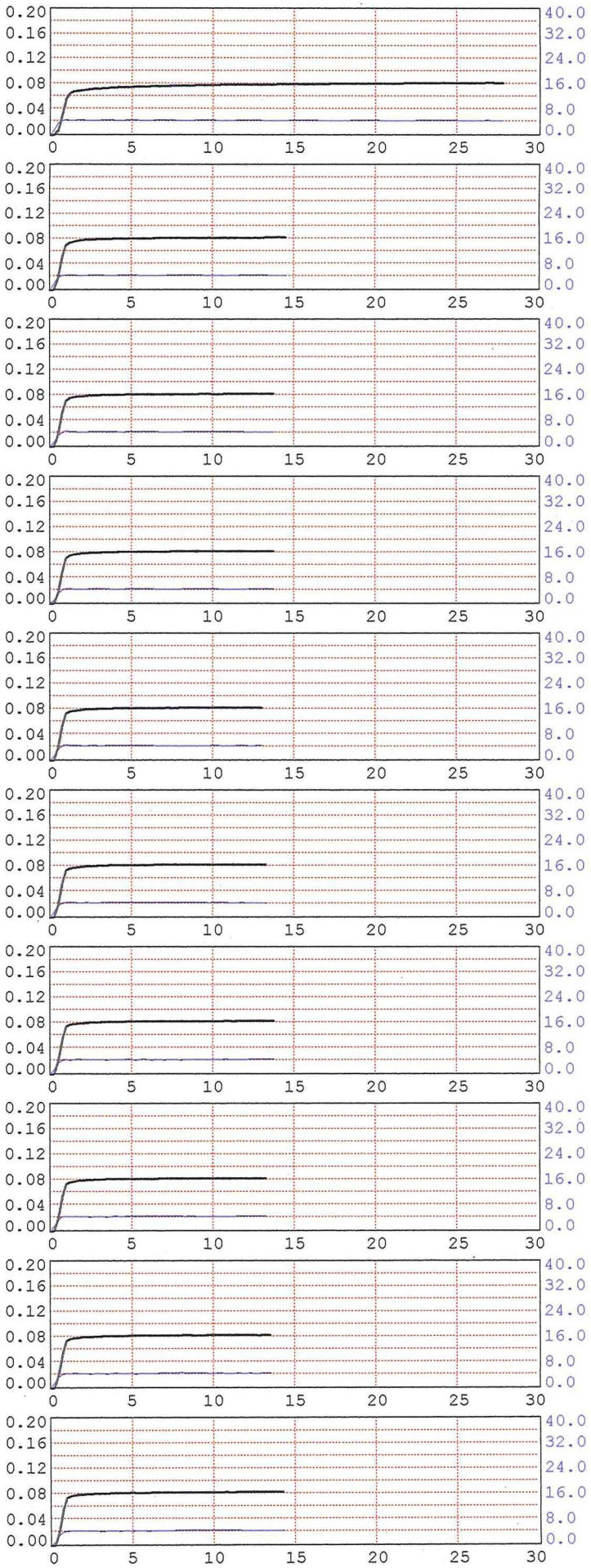
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-16-080A1
SOLUTION CONCENTRATION: 0.080

BLANK TEST		0.000	10:45
CALIBRATION CHECK		PASSED	10:45
Xq = 0.080 (0.66%)			
SIMULATOR VAPOR 34.0°C		0.082	10:46
X[1] = 0.0829	(-0.0044)	(-0.0001)	
SIMULATOR VAPOR 33.9°C		0.082	10:47
X[1] = 0.0829	(-0.0045)	(0.0000)	
SIMULATOR VAPOR 33.9°C		0.083	10:48
X[1] = 0.0833	(-0.0046)	(0.0003)	
SIMULATOR VAPOR 33.9°C		0.083	10:49
X[1] = 0.0836	(-0.0043)	(0.0001)	
SIMULATOR VAPOR 33.9°C		0.083	10:50
X[1] = 0.0834	(-0.0048)	(-0.0003)	
SIMULATOR VAPOR 33.9°C		0.083	10:51
X[1] = 0.0835	(-0.0048)	(-0.0003)	
SIMULATOR VAPOR 33.9°C		0.084	10:52
X[1] = 0.0840	(-0.0040)	(0.0003)	
SIMULATOR VAPOR 33.9°C		0.083	10:53
X[1] = 0.0836	(-0.0046)	(0.0000)	
SIMULATOR VAPOR 34.0°C		0.083	10:54
X[1] = 0.0839	(-0.0045)	(0.0001)	
SIMULATOR VAPOR 33.9°C		0.083	10:55
X[1] = 0.0838	(-0.0045)	(0.0003)	
BLANK TEST		0.000	10:56

Average = 0.082
Std Dev = 0.000

Recalibrate
0% detect



DIAGNOSTIC RESULT

DataMaster DMT: 100149
Location:
Calibration Date: 10/07/2011
Certification Date: 10/11/2011
Installation Date:
Test Date: 10/12/2011
Test Time: 07:51:39

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.6°C
Breath Tube = 45.8°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.73 V
Bias Voltage = 80 V
Chopper Freq = 544 Hz

PUMP INFO
Flow Rate = 5.701 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0451	0.0488
MIN(V)	0.0439	0.0474

FILTER INFO

Filter 1	0.047	Zero = true
Filter 2	0.339	Zero = true
Filter 3	0.567	Zero = true

CALIBRATION CHECK
Xq = 0.079 0.22%