Grand Isle County S.O. 100137

TABLE OF CONTENTS

Section 1	Results
Section 2	Power Up Tests
Section 3	Linearity Tests
Section 4	Interference Tests
Section 5	Final Calibration Check Tests
Section 6	Error Reports

SECTION 1

RESULTS

Packing List
From: National Patent Analytical Systems Inc.
2090 Harrington Mem. Rd., Mansfield, Ohio 44903

Cust No. VT1678J Ord Date 1/17/12
Sales Order No. 45239

Ship Date 1/23/12
Packing List No. 69528

Cust Purch Ord No. KIRK KIMBALL

Ship To:
Vermont Dept of Health
195 Colchester Avenue
Burlington Vt 05401

Bill To:
Vermont Dept of Health
P O Box 70
Burlington Vt 05402

Freight 25.00

Attn:

Ship Via FedEx

Comments Service for Instrument Serial Number 100137

Inv Part No	Quantity Ordered	This Shipment	Back Ordered	Total Ship To Date	Description	Customer Part No.	Drawing Part No. / Rev
9DMT	1.0	1		1.0	DATAMASTER DMT SERVICE RETURN		
S/N 100137						None Given	No Draw # / NONE
Serial Nos.							

opened 01/25/12 sm

National Patent
Analytical Systems, Inc.

On this date 1/17/12, NPAS received instrument # 100 137.

The instrument was sent from the Vermont Department of Health (VDH) so that NPAS could install updated software as well as inspect the instrument. At NPAS' request VDH provided copies of the Technical Support Inquiries (TSI) regarding the instrument. The calibration history of the instrument remained in the instrument so that NPAS could review its history.

NPAS examined the internal configuration of the instrument and did / did not find physical manipulation or tampering of the components located within the instrument itself.

NPAS did performance and accuracy checks on a certified 0.100 ethanol standard. NPAS found that the instrument passed / failed the performance and accuracy checks.

NPAS reviewed the instrument as to its DataMaster DMT Inspection, QA and Conformance Testing Procedure and the instrument performed / did not perform within its procedure.

NPAS examined the calibration records and did / did not observe anomalies.

NPAS testing indicates that there is no reason why this instrument would not have performed accurately and reliably in the field.

Print Name of Evaluator: Michael Barbely

Signature of Evaluator and Date: Michael Barbely 1/23/12

Print Name of Reviewer: DAVID RADOMSKI

Signature of Reviewer and Date: David Radomski 1/23/12

opened 01/25/12 sm

2090 Harrington Memorial Road, Mansfield, Ohio 44901 Ph 419-526-6727 Fax 419-526-9446

DataMaster DMT Serial Number 100137

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)									
01/26/12 SM RKK	0.961785 01/26/12 SM RKK	34.0	12-39-100	0.099 01/27/12 SM RKK	G6505 2-1-12 RKK SM	01/27/12 SM RKK	100% 01/27/12 SM RKK	100% 1-31-12 RKK SM	100% 1-31-12 RKK SM	100% 01/27/12 SM RKK	100% 01/31/12 SM RKK	100% RKK 1-30-12 SM	100% RKK 1-30-12 SM
		34.0	Guth 11050	0.098 01/27/12 SM RKK									

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)
1-30-12 RKK SM	1-30-12 RKK SM	01/31/12 SM RKK	01/31/12 SM RKK	2-1-12 RKK SM	02/01/12 SM RKK	34.0	12-39-100	0.099 02/01/12 SM RKK
						34.1	GUTH 11250	0.099 2-1-12 RKK SM

Notes: Powerup started 1-25-12 RKK SM

H_2O for calibration NIST Temp = 33.9°C 01/26/12 SM RKK

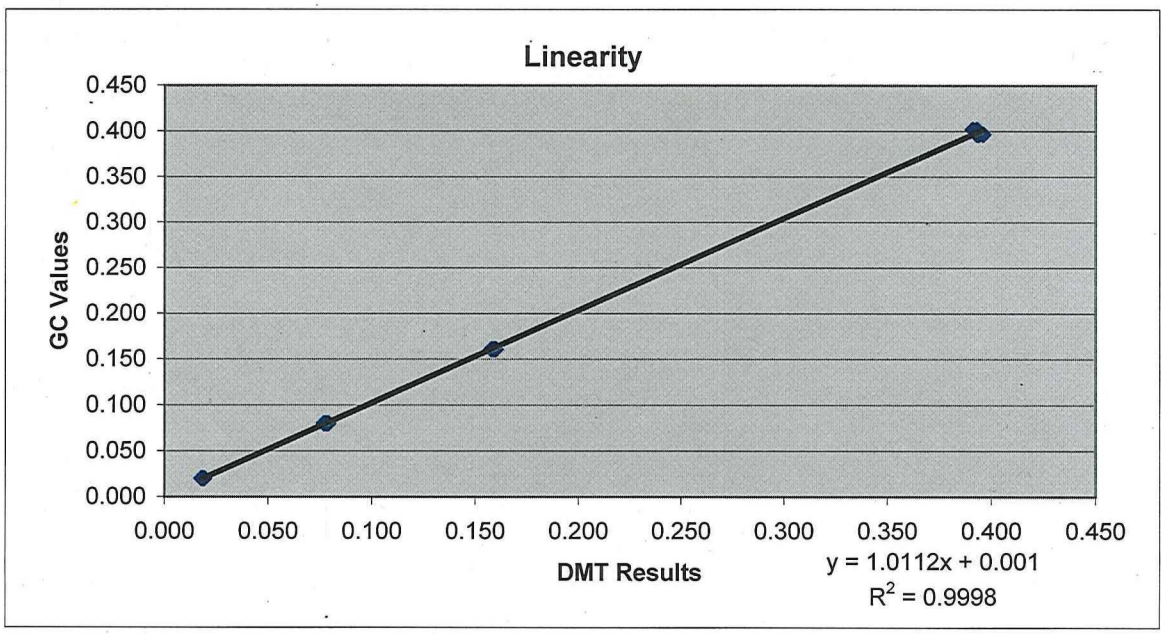
Calibration solution NIST Temp = 34.1°C 01/26/12 SM RKK

Analyst: 02/01/12 **Reviewer:** 2/1/12 **Reviewer:** 2/1/12

Alc. 642B Rev. 0, July 2011

DataMaster DMT Serial Number 100137

Operator	Date	GC Value	DMT Average	Std Dev	% Recovery
KLK	1/30/2012	0.020	0.019	0.000	95
KLK	1/30/2012	0.080	0.078	0.000	97
KLK	1/30/2012	0.161	0.158	0.000	98
KLK	1/30/2012	0.402	0.393	0.000	97
KLK	1/30/2012	0.020	0.019	0.000	95
SRM	1/30/2012	0.080	0.077	0.000	96
SRM	1/30/2012	0.161	0.158	0.000	98
SRM	1/30/2012	0.402	0.391	0.000	97
SRM	1/31/2012	0.020	0.018	0.000	90
SRM	1/31/2012	0.080	0.079	0.000	98
SRM	1/31/2012	0.161	0.159	0.000	98
SRM	1/31/2012	0.397	0.396	0.000	99
SRM	1/31/2012	0.020	0.018	0.000	90
SRM	1/31/2012	0.080	0.078	0.000	97
SRM	1/31/2012	0.161	0.160	0.000	99
SRM	1/31/2012	0.397	0.394	0.000	99
KLK	2/1/2012	0.020	0.019	0.000	95
KLK	2/1/2012	0.080	0.078	0.000	97
KLK	2/1/2012	0.161	0.159	0.000	98
SRM	2/1/2012	0.397	0.393	0.000	98
			Average	0.0000	97
			Std Dev	0.0000	
			Range		90 - 99



Log On Record History

Test Date	Test Time	Name
01/26/2012	07:38:05	Steven Merrill
01/26/2012	09:56:53	Steven Merrill
01/26/2012	10:46:01	Steven Merrill
01/27/2012	07:41:57	Steven Merrill
01/30/2012	07:04:37	Steven Merrill
01/30/2012	09:46:03	Kirk Kimball
01/30/2012	11:15:51	Kirk Kimball
01/30/2012	11:52:27	Kirk Kimball
01/30/2012	13:02:28	Kirk Kimball
01/31/2012	07:08:35	Steven Merrill
01/31/2012	08:13:47	Steven Merrill
01/31/2012	09:43:29	Steven Harnois used to check flows against an instrument in repair. [illegible] 2-1-12
01/31/2012	11:42:58	Steven Merrill
01/31/2012	14:09:29	Kirk Kimball
02/01/2012	07:13:35	Kirk Kimball
02/01/2012	08:27:20	Steven Merrill
02/01/2012	10:33:19	Steven Merrill
02/01/2012	10:38:50	Steven Merrill

SECTION 2

POWER UP TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/26/2012
Test Time: 10:46:26

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 48.1°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.359 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0008	0.0030
MIN(V)	-0.0024	0.0016

FILTER INFO

Filter 1	0.001	Zero = true
Filter 2	0.277	Zero = true
Filter 3	0.473	Zero = true

CALIBRATION CHECK
Xq = 0.081 1.47%

CALIBRATION REPORT

DataMaster DMT: 100137
Calibration Date: 01/26/2012
Calibrated by: STEVEN R MERRILL
Lot: 12-33-100

Ca	=	0.100				
CAL	=	0.961785	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	=	0.082	0.050	<=	Xq	< 0.200
a21	=	1.211074	1.050	<=	a21	< 1.300
a31	=	0.605869	0.300	<=	a31	< 0.800

Performed by _____ Date 01/26/2012

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date:
Installation Date:
Test Date: 01/27/2012
Test Time: 07:42:38

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 47.7°C
Digital Sim = 33.6°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.342 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0087	-0.0049
MIN(V)	-0.0102	-0.0067

FILTER INFO
Filter 1 -0.006 Zero = true
Filter 2 0.271 Zero = true
Filter 3 0.466 Zero = true

CALIBRATION CHECK
Xq = 0.082 0.42%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/27/2012
Time: 07:47:48

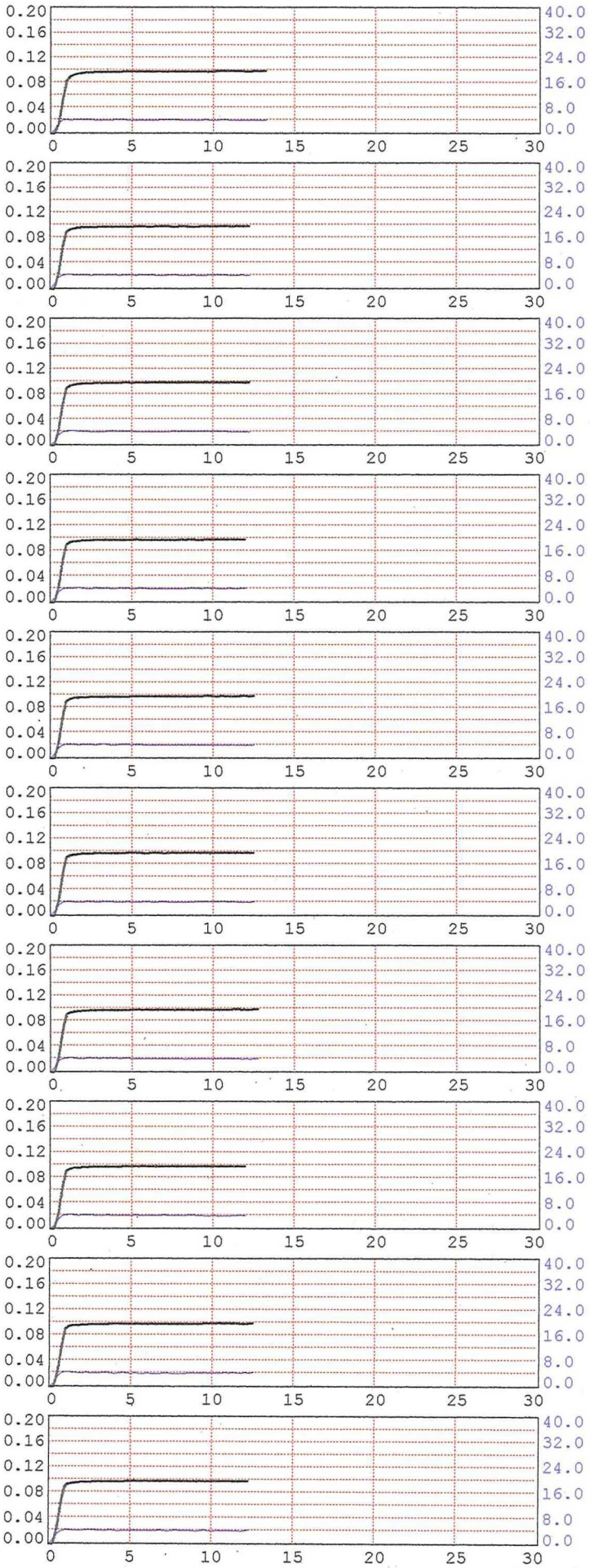
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: GUTH 11050
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	07:48
CALIBRATION CHECK	PASSED	07:48
SIMULATOR VAPOR 33.6°C	0.099	07:49
SIMULATOR VAPOR 33.6°C	0.098	07:50
SIMULATOR VAPOR 33.7°C	0.099	07:51
SIMULATOR VAPOR 33.6°C	0.098	07:52
SIMULATOR VAPOR 33.7°C	0.099	07:53
SIMULATOR VAPOR 33.6°C	0.099	07:54
SIMULATOR VAPOR 33.7°C	0.099	07:55
SIMULATOR VAPOR 33.6°C	0.099	07:56
SIMULATOR VAPOR 33.6°C	0.099	07:57
SIMULATOR VAPOR 33.6°C	0.098	07:58
BLANK TEST	0.000	07:59

Average = 0.098
Std Dev = 0.000

2nd Source Cal Check 01/27/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/27/2012
Time: 08:11:14

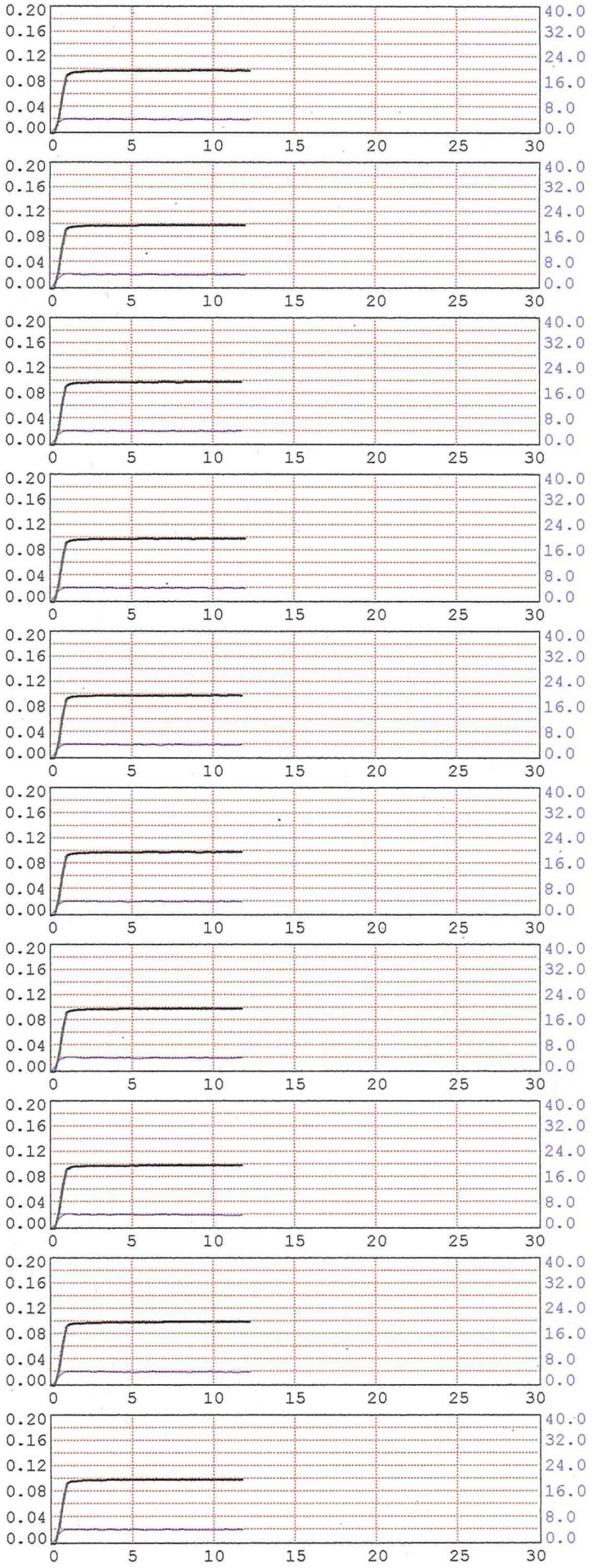
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	08:12
CALIBRATION CHECK	PASSED	08:12
SIMULATOR VAPOR 33.6°C	0.099	08:12
SIMULATOR VAPOR 33.6°C	0.099	08:13
SIMULATOR VAPOR 33.6°C	0.099	08:14
SIMULATOR VAPOR 33.6°C	0.099	08:15
SIMULATOR VAPOR 33.7°C	0.099	08:16
SIMULATOR VAPOR 33.6°C	0.099	08:17
SIMULATOR VAPOR 33.6°C	0.099	08:18
SIMULATOR VAPOR 33.7°C	0.099	08:19
SIMULATOR VAPOR 33.7°C	0.100	08:20
SIMULATOR VAPOR 33.6°C	0.099	08:21
BLANK TEST	0.000	08:22

Average = 0.099
Std Dev = 0.000

In-House Cal Check 01/27/12 SRM



CERTIFICATION REPORT

DataMaster DMT: 100137
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Certified by: STEVEN R MERRILL

Diagnostic Results

```
VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube    = 46.3°C
Digital Sim    = 33.6°C

SETTINGS
Lamp Voltage   = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage   = 80 V
Chopper Freq   = 534 Hz

PUMP INFO
Flow Rate = 5.206 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.0213    0.0242
MIN(V)   0.0197    0.0230

FILTER INFO
Filter 1   0.023  Zero = true
Filter 2   0.297  Zero = true
Filter 3   0.507  Zero = true

CALIBRATION CHECK
Xq  = 0.082  0.11%
```

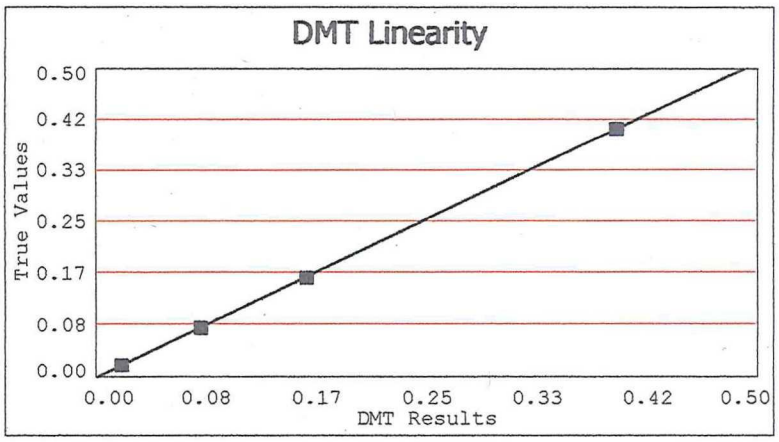
Options

```
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 Lot # 12-46-020	0.019 g/210L	0.0000
0.080 g/210L Lot # 12-50-080	0.079 g/210L	0.0000
0.161 g/210L Lot # 12-48-160	0.159 g/210L	0.0000
0.402 g/210L Lot # 12-47-400	0.393 g/210L	0.0000

$R^2 = 1$



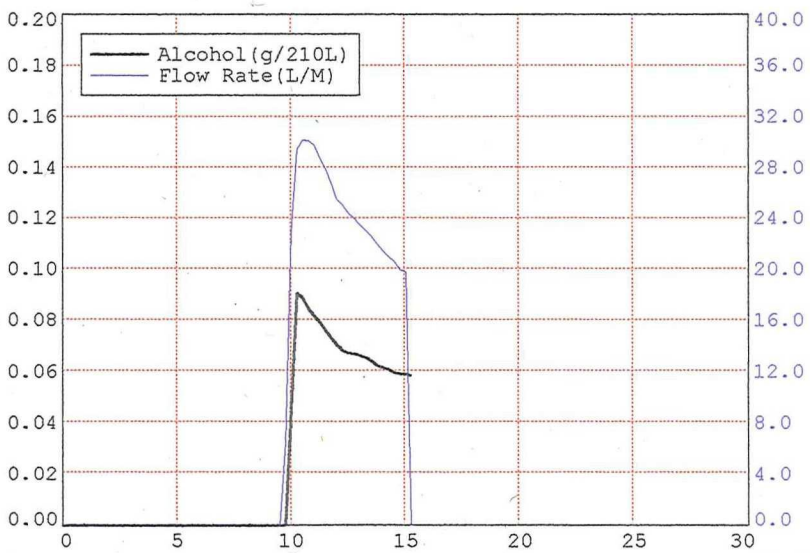
Acetone Interference Test

Lot # 12-50-080A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

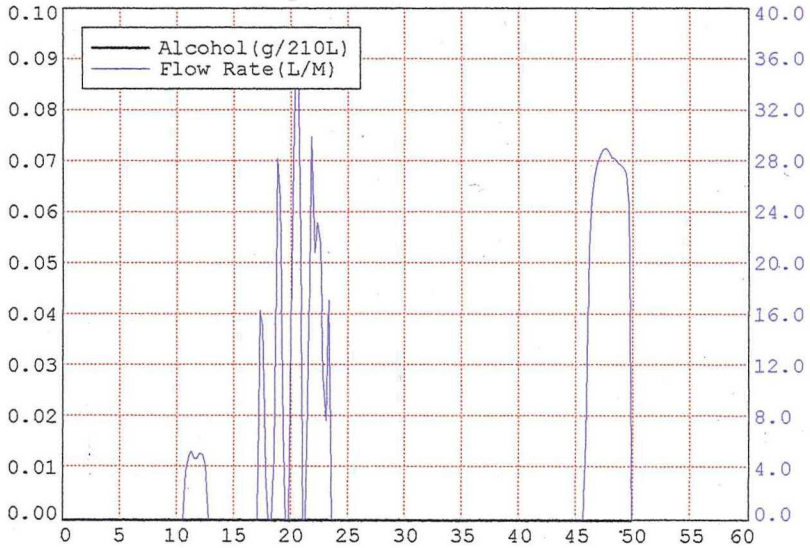


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ Date 01/27/2012

Reviewed by _____ Date 1-27-12

SECTION 3

LINEARITY TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/30/2012
Test Time: 07:04:38

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 46.3°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 534 Hz

PUMP INFO
Flow Rate = 5.457 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0138	-0.0104
MIN(V)	-0.0152	-0.0118

FILTER INFO
Filter 1 -0.011 Zero = true
Filter 2 0.262 Zero = true
Filter 3 0.455 Zero = true

CALIBRATION CHECK
Xq = 0.082 0.42%

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/30/2012
Test Time: 09:46:04

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 46.5°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.455 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0132	-0.0098
MIN(V)	-0.0144	-0.0114

FILTER INFO

Filter 1	-0.011	Zero = true
Filter 2	0.263	Zero = true
Filter 3	0.455	Zero = true

CALIBRATION CHECK
Xq = 0.081 0.74%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 09:56:00

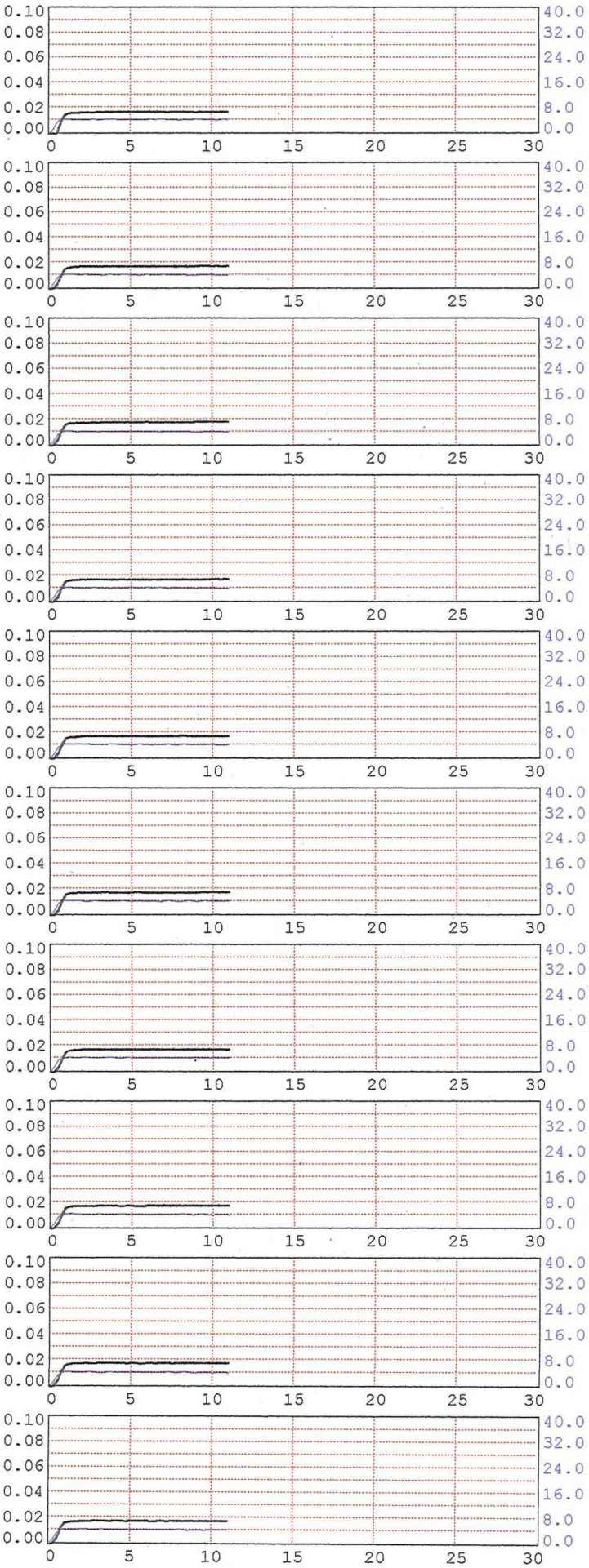
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-52-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	09:56
CALIBRATION CHECK	PASSED	09:57
SIMULATOR VAPOR 33.9°C	0.018	09:57
SIMULATOR VAPOR 34.0°C	0.019	09:58
SIMULATOR VAPOR 33.9°C	0.020	09:59
SIMULATOR VAPOR 34.0°C	0.019	10:00
SIMULATOR VAPOR 34.0°C	0.019	10:01
SIMULATOR VAPOR 34.0°C	0.019	10:02
SIMULATOR VAPOR 34.0°C	0.019	10:03
SIMULATOR VAPOR 34.0°C	0.019	10:04
SIMULATOR VAPOR 34.0°C	0.019	10:05
SIMULATOR VAPOR 33.9°C	0.019	10:06
BLANK TEST	0.000	10:07

Average = 0.019
Std Dev = 0.000

1-30-12
KLK
2-1



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 10:12:02

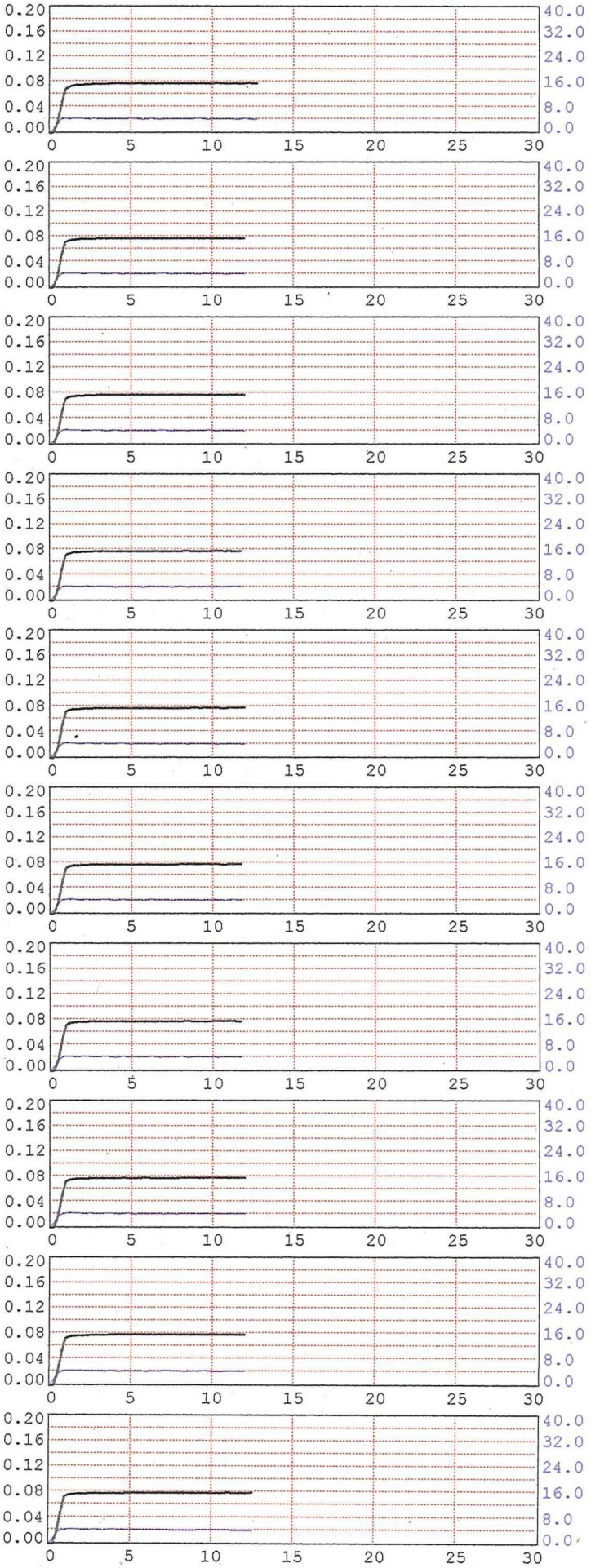
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-50-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	10:12
CALIBRATION CHECK	PASSED	10:13
SIMULATOR VAPOR 34.1°C	0.078	10:13
SIMULATOR VAPOR 34.0°C	0.078	10:14
SIMULATOR VAPOR 34.0°C	0.078	10:15
SIMULATOR VAPOR 34.0°C	0.078	10:16
SIMULATOR VAPOR 34.0°C	0.078	10:17
SIMULATOR VAPOR 34.0°C	0.078	10:18
SIMULATOR VAPOR 34.0°C	0.078	10:19
SIMULATOR VAPOR 34.0°C	0.079	10:20
SIMULATOR VAPOR 34.0°C	0.079	10:21
SIMULATOR VAPOR 33.9°C	0.079	10:22
BLANK TEST	0.000	10:23

Average = 0.078
Std Dev = 0.000

L-1
RZK
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 10:27:45

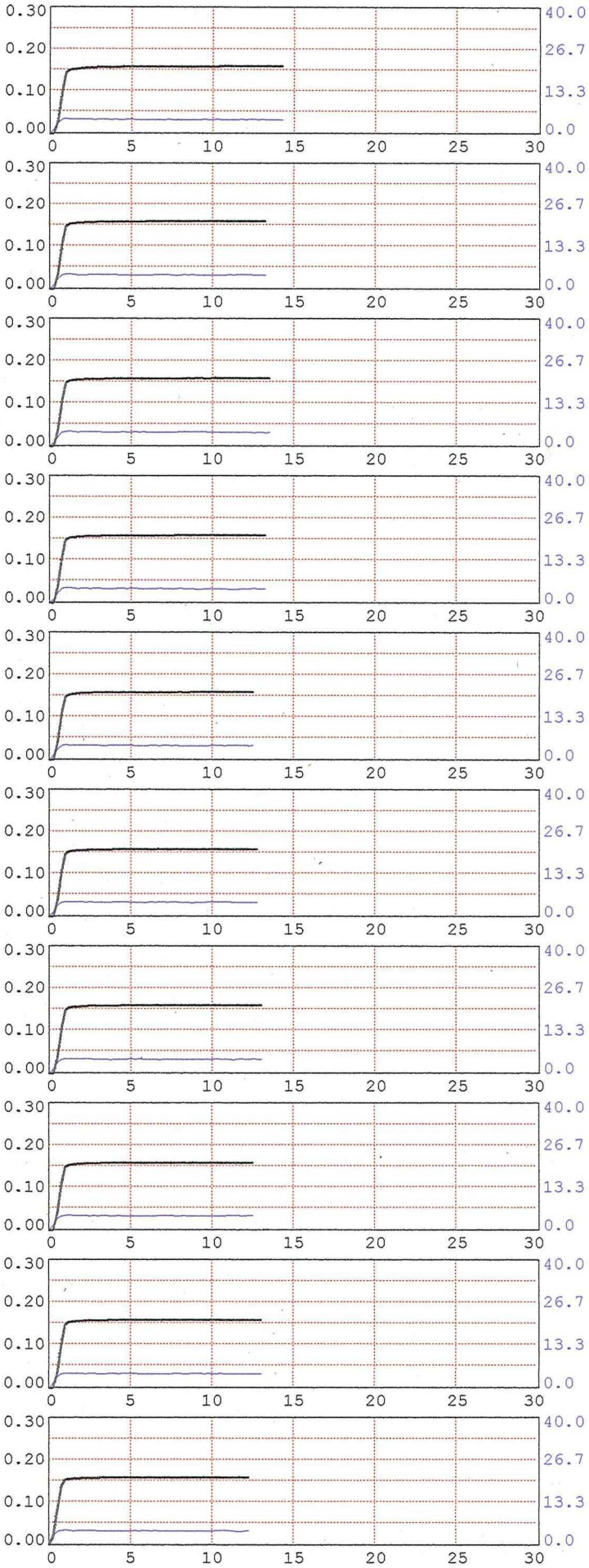
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-48-160
SOLUTION CONCENTRATION: 0.161

BLANK TEST	0.000	10:28
CALIBRATION CHECK	PASSED	10:28
SIMULATOR VAPOR 34.1°C	0.159	10:29
SIMULATOR VAPOR 34.2°C	0.159	10:30
SIMULATOR VAPOR 34.2°C	0.159	10:31
SIMULATOR VAPOR 34.2°C	0.159	10:32
SIMULATOR VAPOR 34.2°C	0.159	10:33
SIMULATOR VAPOR 34.2°C	0.158	10:34
SIMULATOR VAPOR 34.2°C	0.159	10:35
SIMULATOR VAPOR 34.2°C	0.159	10:36
SIMULATOR VAPOR 34.1°C	0.158	10:37
SIMULATOR VAPOR 34.2°C	0.159	10:38
BLANK TEST	0.000	10:39

Average = 0.158
Std Dev = 0.000

L-1
KLK
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 11:18:59

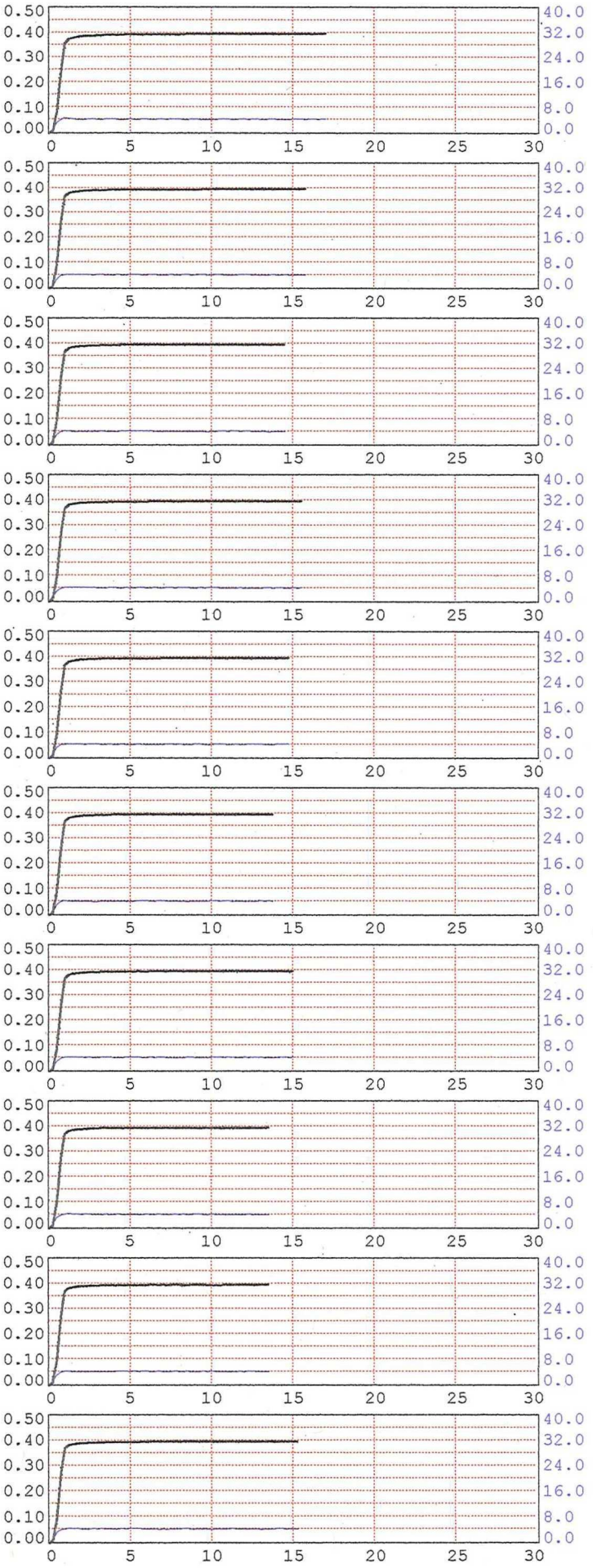
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	11:19
CALIBRATION CHECK	PASSED	11:19
SIMULATOR VAPOR 33.8°C	0.393	11:20
SIMULATOR VAPOR 33.9°C	0.393	11:21
SIMULATOR VAPOR 33.8°C	0.394	11:22
SIMULATOR VAPOR 33.8°C	0.393	11:23
SIMULATOR VAPOR 33.9°C	0.393	11:24
SIMULATOR VAPOR 33.9°C	0.393	11:25
SIMULATOR VAPOR 33.8°C	0.393	11:27
SIMULATOR VAPOR 33.8°C	0.392	11:28
SIMULATOR VAPOR 33.8°C	0.393	11:29
SIMULATOR VAPOR 33.8°C	0.393	11:30
BLANK TEST	0.000	11:31

Average = 0.393
Std Dev = 0.000

L-1
1-30-12
KLK



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/30/2012
Test Time: 13:04:16

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 46.8°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.471 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0016	0.0057
MIN(V)	0.0004	0.0047

FILTER INFO

Filter 1	0.004	Zero = true
Filter 2	0.278	Zero = true
Filter 3	0.479	Zero = true

CALIBRATION CHECK
Xq = 0.082 0.21%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 13:26:36

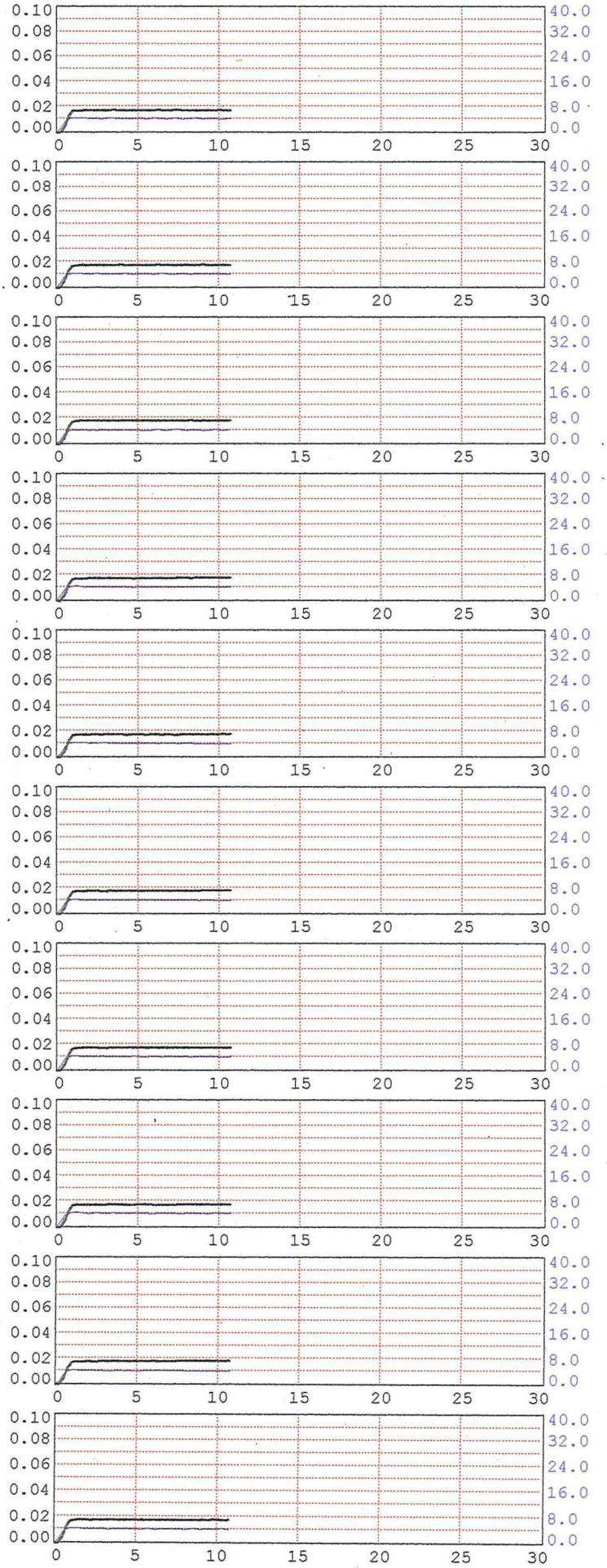
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-52-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:27
CALIBRATION CHECK	PASSED	13:27
SIMULATOR VAPOR 33.9°C	0.019	13:27
SIMULATOR VAPOR 33.9°C	0.019	13:28
SIMULATOR VAPOR 34.0°C	0.019	13:29
SIMULATOR VAPOR 33.9°C	0.019	13:30
SIMULATOR VAPOR 34.0°C	0.019	13:31
SIMULATOR VAPOR 34.0°C	0.020	13:32
SIMULATOR VAPOR 34.0°C	0.019	13:34
SIMULATOR VAPOR 33.9°C	0.019	13:35
SIMULATOR VAPOR 33.9°C	0.020	13:36
SIMULATOR VAPOR 34.0°C	0.019	13:37
BLANK TEST	0.000	13:37

Average = 0.019
Std Dev = 0.000

L-2
KLK
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 13:46:09

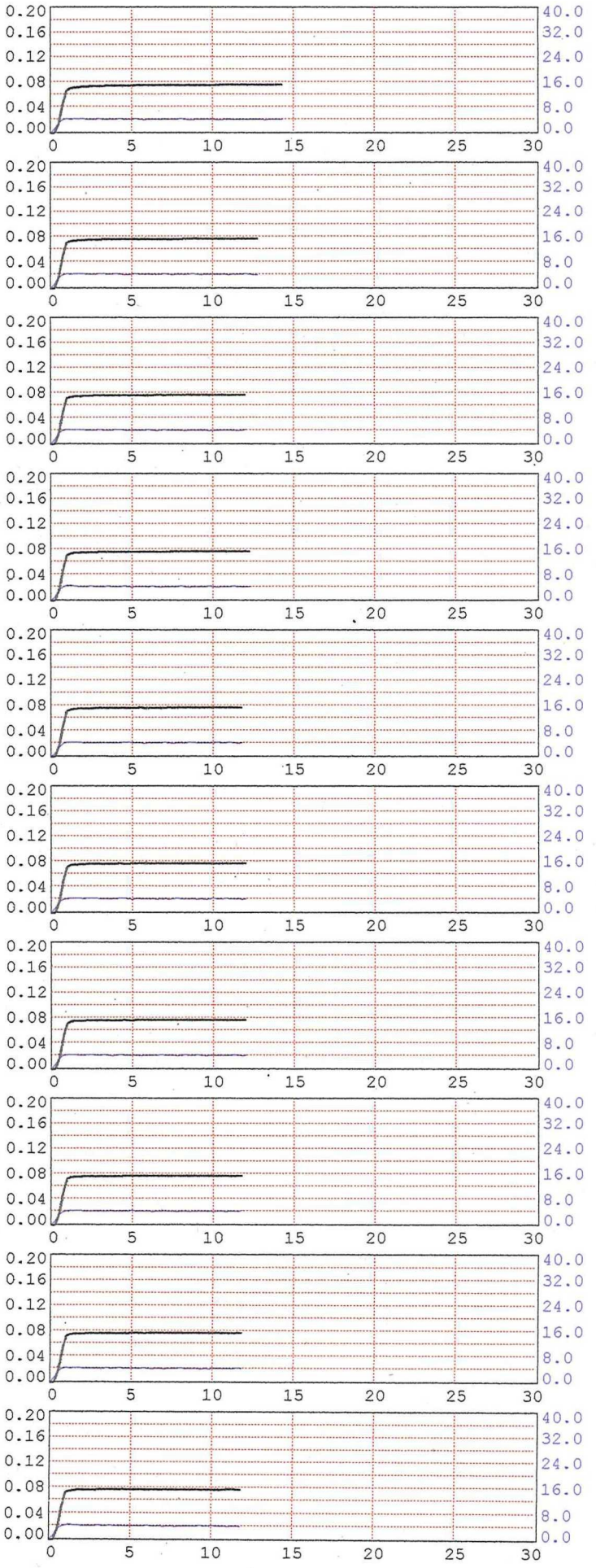
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-50-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:47
CALIBRATION CHECK	PASSED	13:47
SIMULATOR VAPOR 34.0°C	0.077	13:47
SIMULATOR VAPOR 34.0°C	0.078	13:48
SIMULATOR VAPOR 34.0°C	0.078	13:49
SIMULATOR VAPOR 34.0°C	0.078	13:50
SIMULATOR VAPOR 34.0°C	0.078	13:51
SIMULATOR VAPOR 34.0°C	0.078	13:52
SIMULATOR VAPOR 34.0°C	0.078	13:53
SIMULATOR VAPOR 34.0°C	0.078	13:54
SIMULATOR VAPOR 34.0°C	0.078	13:55
SIMULATOR VAPOR 34.0°C	0.078	13:56
BLANK TEST	0.000	13:57

Average = 0.077
Std Dev = 0.000

L-2
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 14:10:47

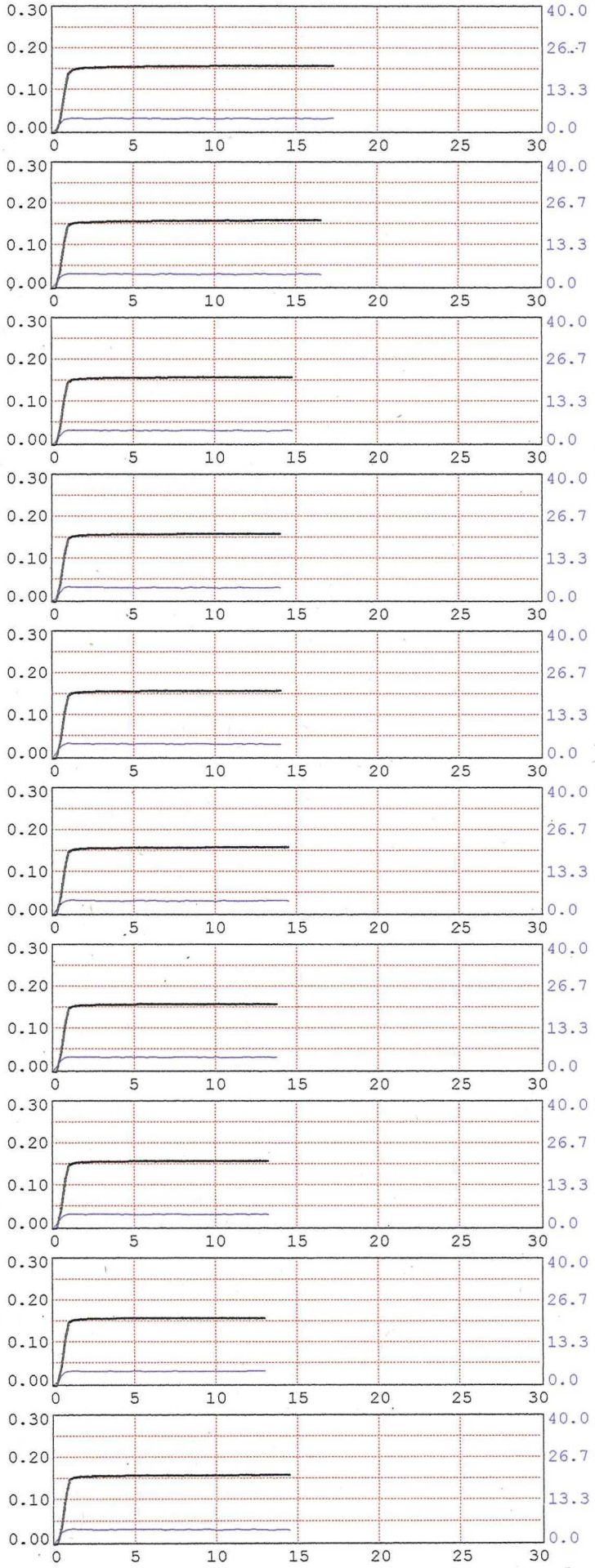
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-48-160
SOLUTION CONCENTRATION: 0.161

BLANK TEST	0.000	14:11
CALIBRATION CHECK	PASSED	14:11
SIMULATOR VAPOR 34.2°C	0.158	14:12
SIMULATOR VAPOR 34.2°C	0.159	14:13
SIMULATOR VAPOR 34.2°C	0.159	14:14
SIMULATOR VAPOR 34.2°C	0.159	14:15
SIMULATOR VAPOR 34.2°C	0.159	14:16
SIMULATOR VAPOR 34.1°C	0.159	14:17
SIMULATOR VAPOR 34.2°C	0.159	14:18
SIMULATOR VAPOR 34.2°C	0.159	14:19
SIMULATOR VAPOR 34.2°C	0.158	14:20
SIMULATOR VAPOR 34.2°C	0.159	14:22
BLANK TEST	0.000	14:22

Average = 0.158
Std Dev = 0.000

L-2
[illegible]
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/30/2012
Time: 14:25:03

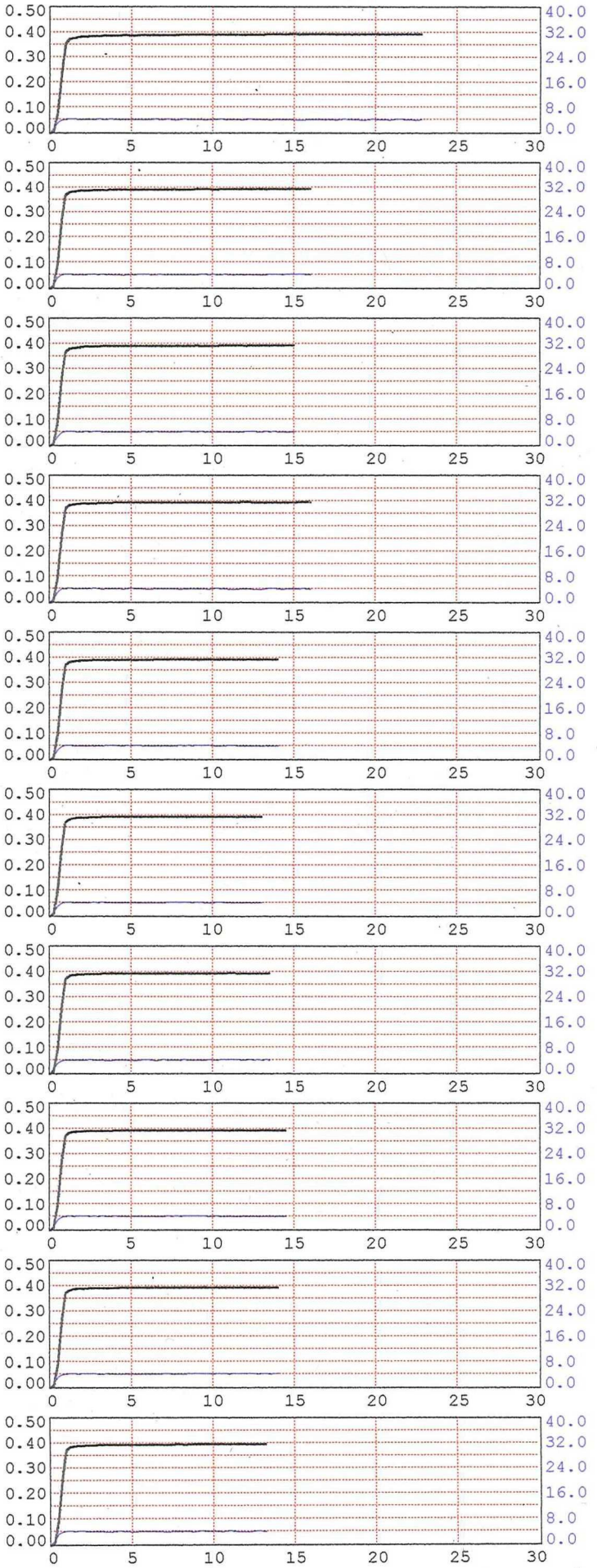
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	14:25
CALIBRATION CHECK	PASSED	14:26
SIMULATOR VAPOR 33.9°C	0.391	14:26
SIMULATOR VAPOR 33.8°C	0.391	14:27
SIMULATOR VAPOR 33.9°C	0.390	14:28
SIMULATOR VAPOR 33.9°C	0.392	14:29
SIMULATOR VAPOR 33.9°C	0.392	14:31
SIMULATOR VAPOR 33.8°C	0.392	14:32
SIMULATOR VAPOR 33.9°C	0.392	14:33
SIMULATOR VAPOR 33.9°C	0.392	14:34
SIMULATOR VAPOR 33.8°C	0.391	14:35
SIMULATOR VAPOR 33.9°C	0.393	14:36
BLANK TEST	0.000	14:37

Average = 0.391
Std Dev = 0.000

L-2
1-30-12



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/31/2012
Test Time: 07:08:37

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.1°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 534 Hz

PUMP INFO
Flow Rate = 5.365 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0167	-0.0120
MIN(V)	-0.0185	-0.0140

FILTER INFO
Filter 1 -0.014 Zero = true
Filter 2 0.261 Zero = true
Filter 3 0.445 Zero = true

CALIBRATION CHECK
Xq = 0.081 1.38%

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/30/2012
Test Time: 14:51:15

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 46.7°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 536 Hz

PUMP INFO
Flow Rate = 5.496 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0213	0.0240
MIN(V)	0.0199	0.0224

FILTER INFO

Filter 1	0.023	Zero = true
Filter 2	0.297	Zero = true
Filter 3	0.508	Zero = true

CALIBRATION CHECK
Xq = 0.083 0.53%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 07:11:40

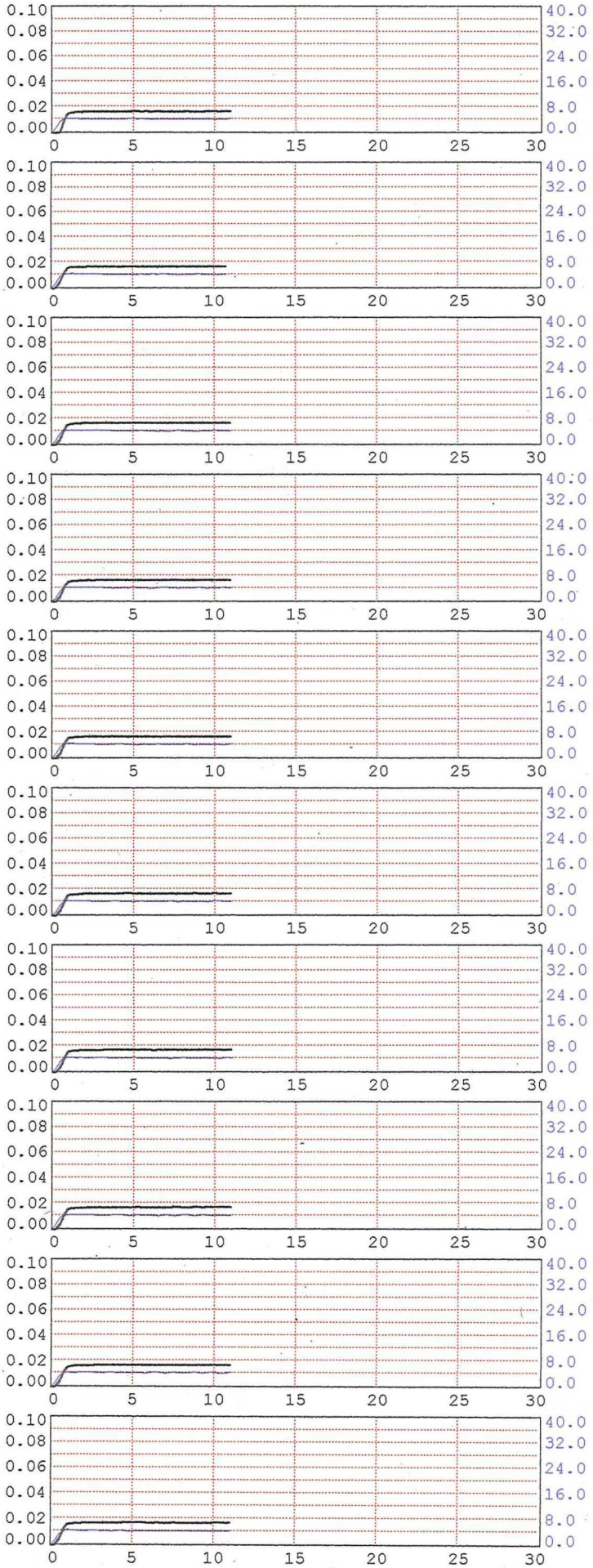
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-52-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	07:12
CALIBRATION CHECK	PASSED	07:12
SIMULATOR VAPOR 34.0°C	0.018	07:12
SIMULATOR VAPOR 33.9°C	0.018	07:13
SIMULATOR VAPOR 33.9°C	0.018	07:15
SIMULATOR VAPOR 33.9°C	0.018	07:16
SIMULATOR VAPOR 33.9°C	0.018	07:17
SIMULATOR VAPOR 34.0°C	0.018	07:18
SIMULATOR VAPOR 33.9°C	0.019	07:19
SIMULATOR VAPOR 33.9°C	0.018	07:20
SIMULATOR VAPOR 33.9°C	0.018	07:21
SIMULATOR VAPOR 33.9°C	0.018	07:22
BLANK TEST	0.000	07:23

Average = 0.018
Std Dev = 0.000

LJ 01/31/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 07:25:28

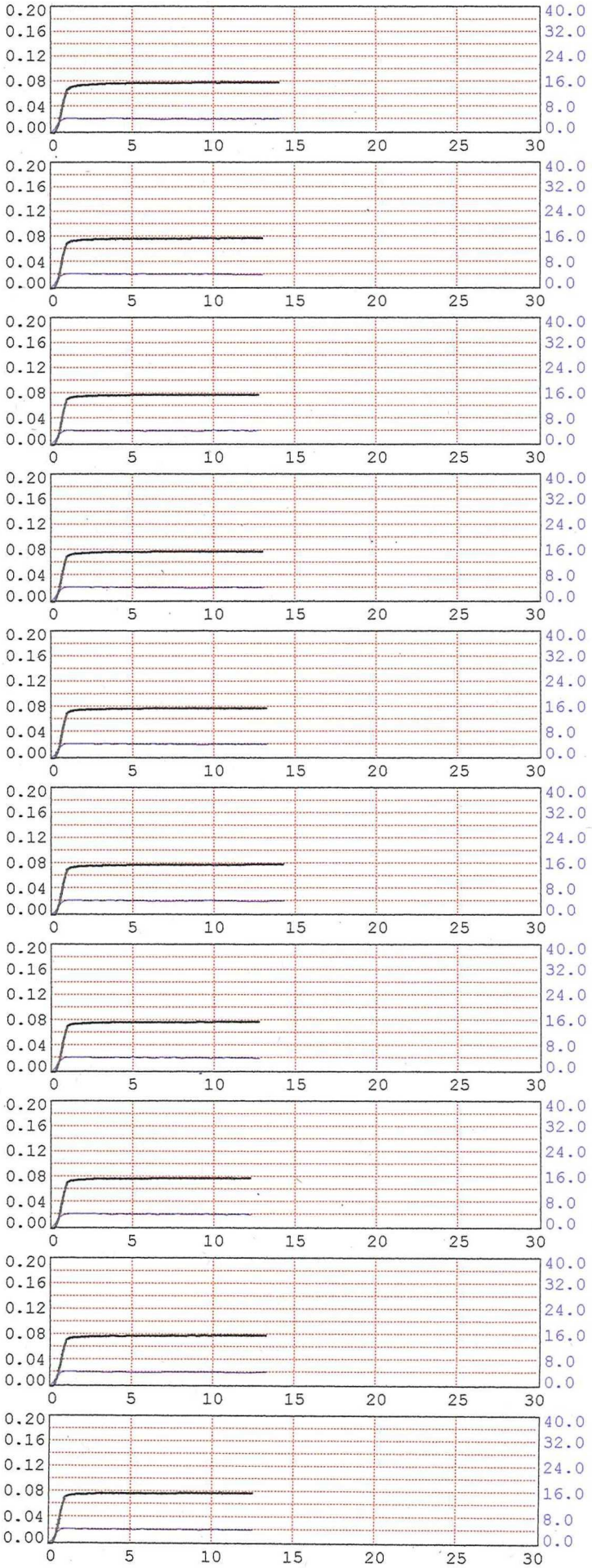
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-50-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	07:26
CALIBRATION CHECK	PASSED	07:26
SIMULATOR VAPOR 34.0°C	0.079	07:26
SIMULATOR VAPOR 34.0°C	0.079	07:27
SIMULATOR VAPOR 34.0°C	0.079	07:28
SIMULATOR VAPOR 34.0°C	0.079	07:29
SIMULATOR VAPOR 34.0°C	0.079	07:31
SIMULATOR VAPOR 34.0°C	0.079	07:32
SIMULATOR VAPOR 34.0°C	0.079	07:33
SIMULATOR VAPOR 34.0°C	0.079	07:34
SIMULATOR VAPOR 33.9°C	0.079	07:35
SIMULATOR VAPOR 34.0°C	0.079	07:36
BLANK TEST	0.000	07:37

Average = 0.079
Std Dev = 0.000

L3 01/31/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 08:15:15

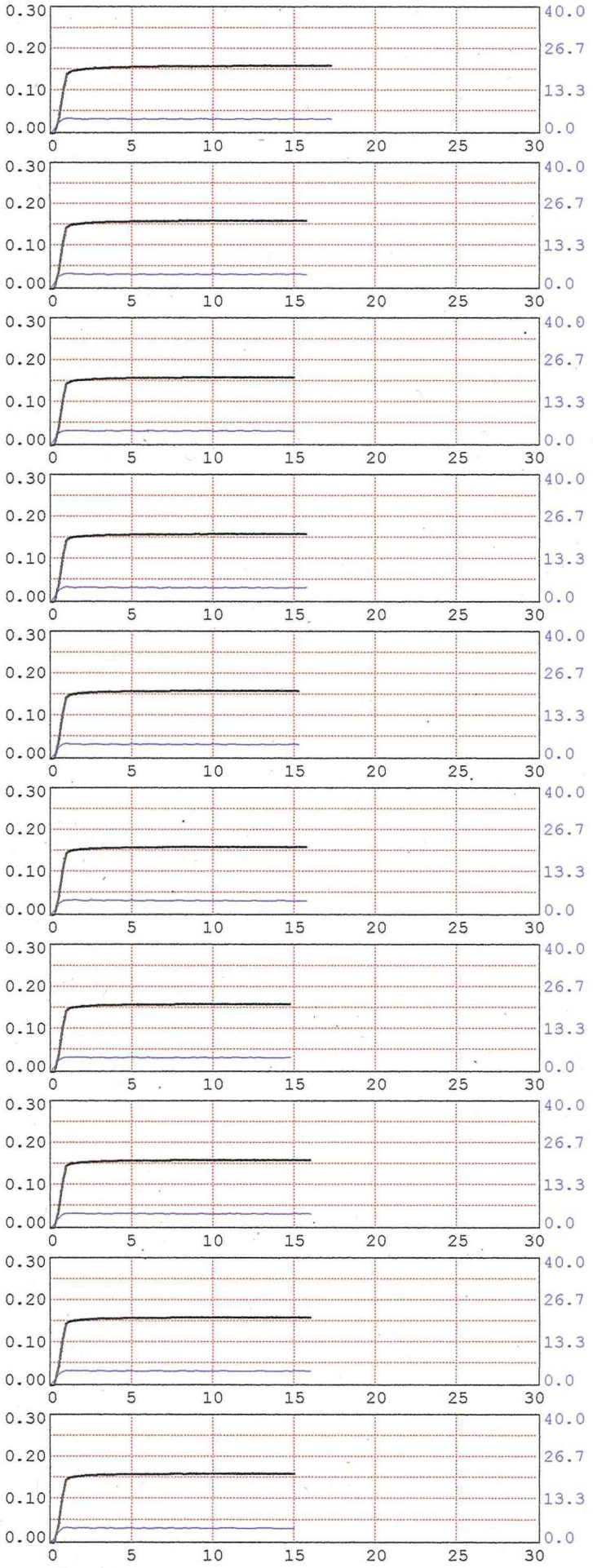
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-48-160
SOLUTION CONCENTRATION: 0.161

BLANK TEST	0.000	08:16
CALIBRATION CHECK	PASSED	08:16
SIMULATOR VAPOR 34.2°C	0.159	08:16
SIMULATOR VAPOR 34.2°C	0.160	08:17
SIMULATOR VAPOR 34.2°C	0.160	08:18
SIMULATOR VAPOR 34.2°C	0.159	08:19
SIMULATOR VAPOR 34.2°C	0.160	08:21
SIMULATOR VAPOR 34.2°C	0.160	08:22
SIMULATOR VAPOR 34.2°C	0.159	08:23
SIMULATOR VAPOR 34.2°C	0.160	08:24
SIMULATOR VAPOR 34.1°C	0.160	08:25
SIMULATOR VAPOR 34.4°C	0.159	08:26
BLANK TEST	0.000	08:27

Average = 0.159
Std Dev = 0.000

L3 01/31/12 [illegible]



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 08:39:17

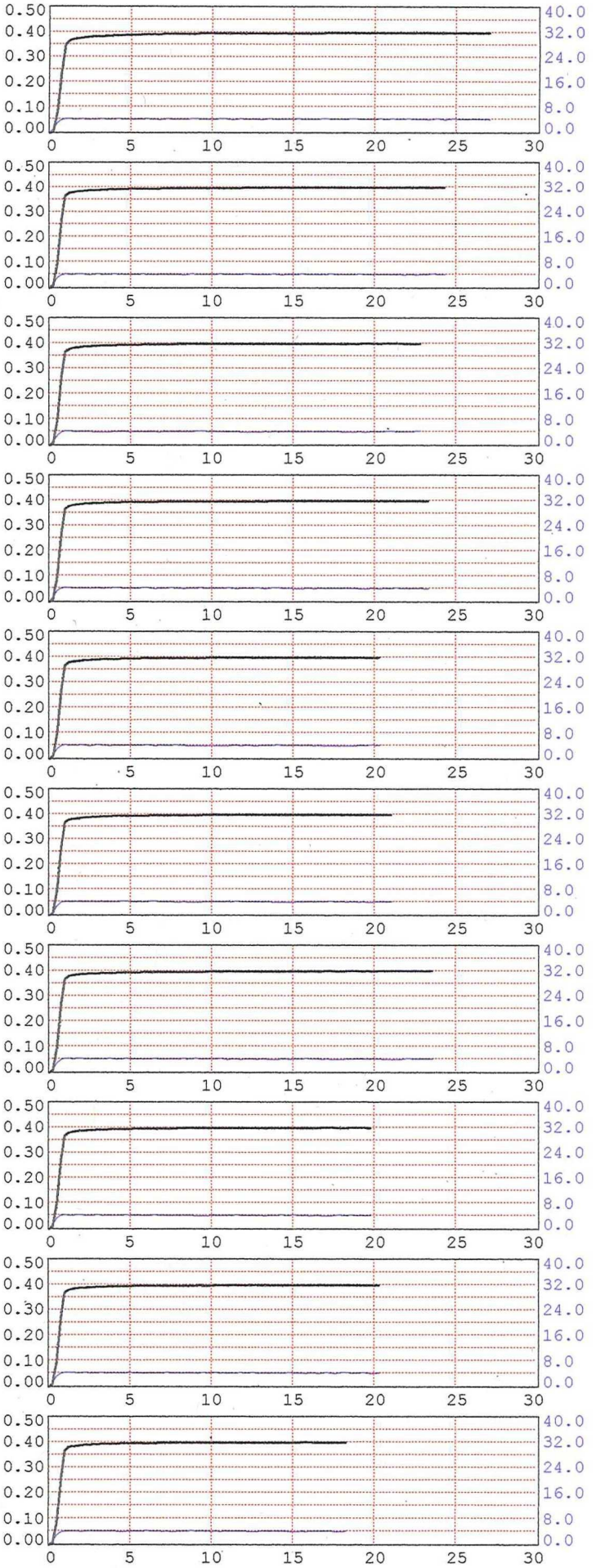
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	08:40
CALIBRATION CHECK	PASSED	08:40
SIMULATOR VAPOR 33.9°C	0.396	08:40
SIMULATOR VAPOR 33.9°C	0.396	08:42
SIMULATOR VAPOR 33.9°C	0.396	08:43
SIMULATOR VAPOR 33.9°C	0.396	08:44
SIMULATOR VAPOR 33.9°C	0.395	08:45
SIMULATOR VAPOR 33.8°C	0.396	08:47
SIMULATOR VAPOR 33.9°C	0.396	08:48
SIMULATOR VAPOR 33.9°C	0.397	08:49
SIMULATOR VAPOR 33.9°C	0.396	08:50
SIMULATOR VAPOR 33.8°C	0.396	08:51
BLANK TEST	0.000	08:52

Average = 0.396
Std Dev = 0.000

L3 01/31/12



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/31/2012
Test Time: 11:44:12

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 42.7°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 529 Hz

PUMP INFO
Flow Rate = 5.352 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0303	-0.0246
MIN(V)	-0.0319	-0.0260

FILTER INFO

Filter 1	-0.025	Zero = true
Filter 2	0.252	Zero = true
Filter 3	0.424	Zero = true

CALIBRATION CHECK
Xq = 0.081 0.74%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 11:46:13

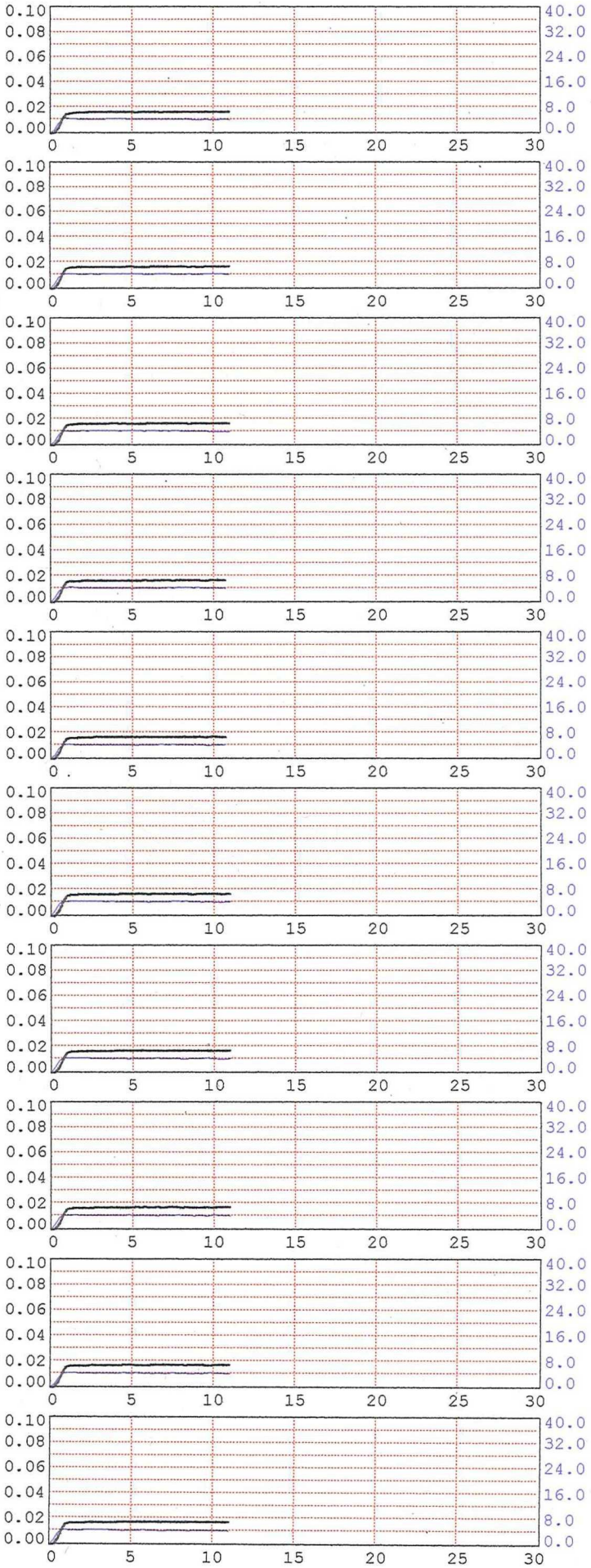
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-52-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	11:47
CALIBRATION CHECK	PASSED	11:47
SIMULATOR VAPOR 34.0°C	0.018	11:47
SIMULATOR VAPOR 33.9°C	0.018	11:48
SIMULATOR VAPOR 34.0°C	0.018	11:49
SIMULATOR VAPOR 34.0°C	0.018	11:50
SIMULATOR VAPOR 34.0°C	0.019	11:51
SIMULATOR VAPOR 34.0°C	0.018	11:52
SIMULATOR VAPOR 34.1°C	0.019	11:53
SIMULATOR VAPOR 34.0°C	0.018	11:54
SIMULATOR VAPOR 34.0°C	0.019	11:55
SIMULATOR VAPOR 34.0°C	0.019	11:56
BLANK TEST	0.000	11:57

Average = 0.018
Std Dev = 0.000

L4 01/31/12 [illegible]



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 12:00:23

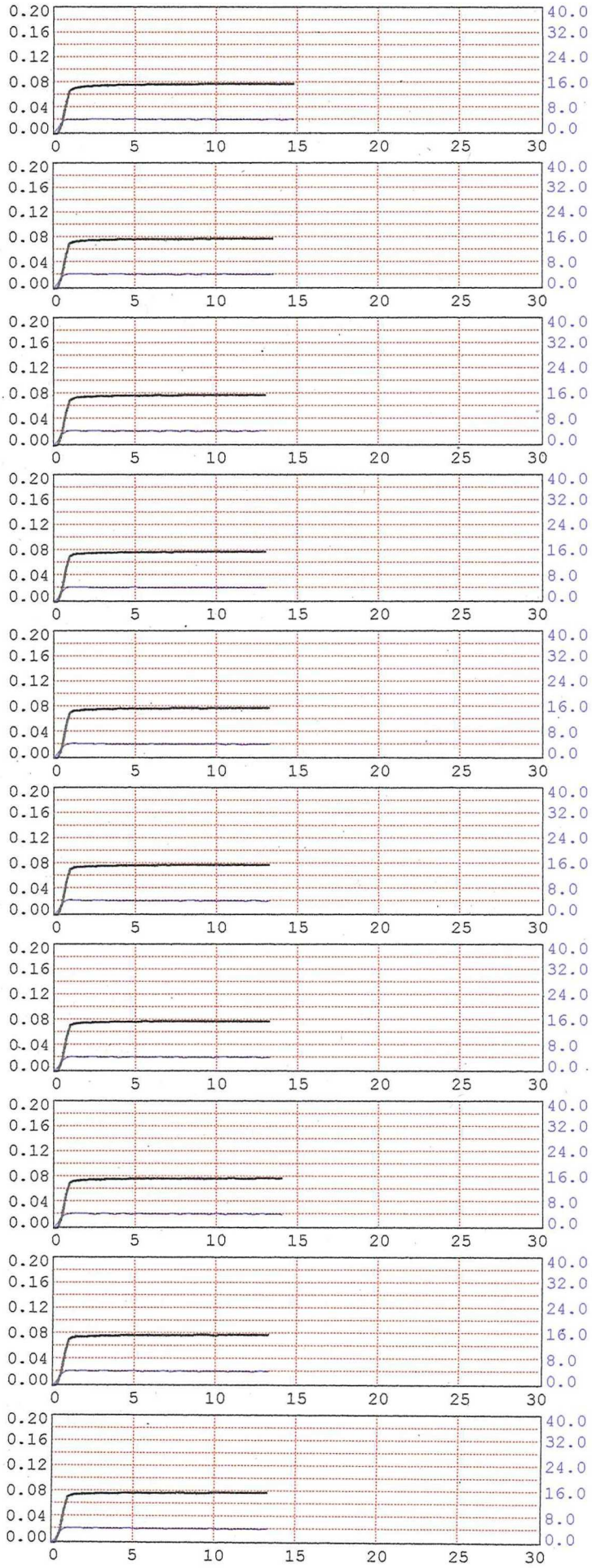
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-50-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	12:01
CALIBRATION CHECK	PASSED	12:01
SIMULATOR VAPOR 34.0°C	0.079	12:01
SIMULATOR VAPOR 34.0°C	0.079	12:02
SIMULATOR VAPOR 33.9°C	0.079	12:03
SIMULATOR VAPOR 34.0°C	0.079	12:04
SIMULATOR VAPOR 33.9°C	0.079	12:06
SIMULATOR VAPOR 33.9°C	0.079	12:07
SIMULATOR VAPOR 34.0°C	0.079	12:08
SIMULATOR VAPOR 34.0°C	0.079	12:09
SIMULATOR VAPOR 33.9°C	0.078	12:10
SIMULATOR VAPOR 34.0°C	0.079	12:11
BLANK TEST	0.000	12:12

Average = 0.078
Std Dev = 0.000

LY 01/31/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 12:16:02

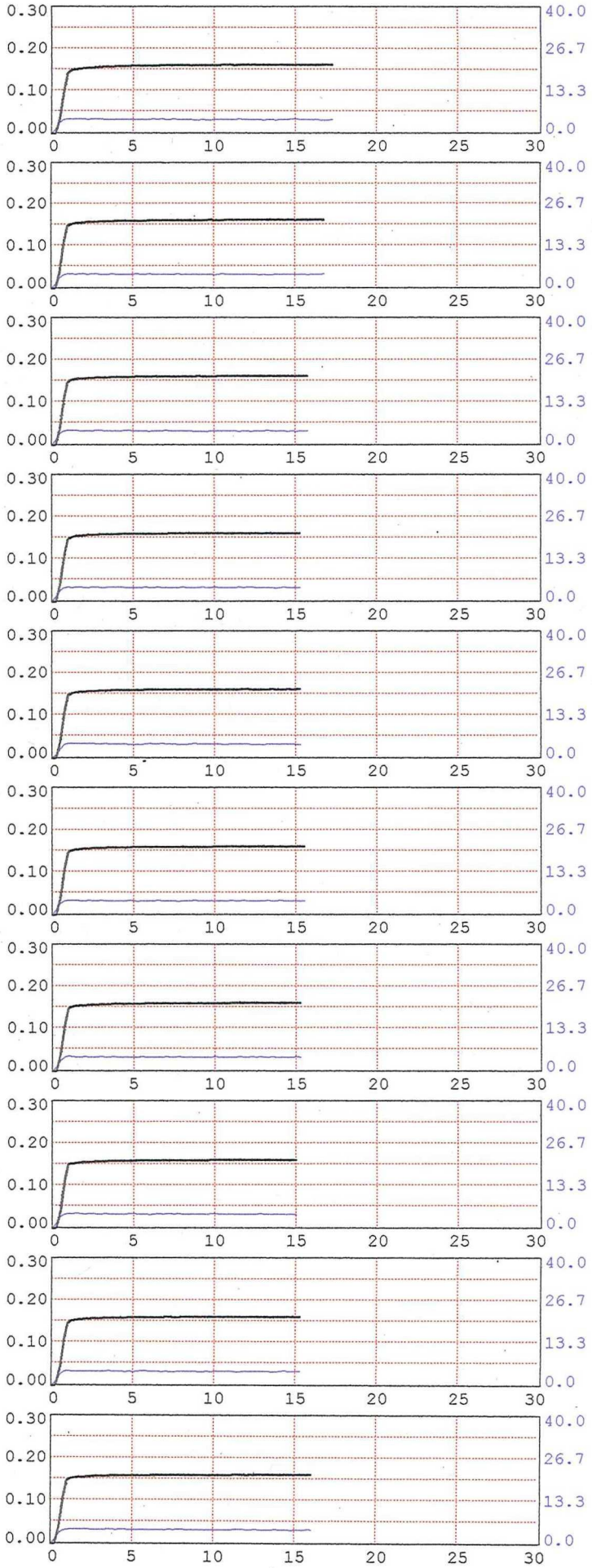
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-48-160
SOLUTION CONCENTRATION: 0.161

BLANK TEST	0.000	12:16
CALIBRATION CHECK	PASSED	12:17
SIMULATOR VAPOR 34.2°C	0.162	12:17
SIMULATOR VAPOR 34.2°C	0.162	12:18
SIMULATOR VAPOR 34.2°C	0.162	12:19
SIMULATOR VAPOR 34.2°C	0.161	12:20
SIMULATOR VAPOR 34.2°C	0.161	12:21
SIMULATOR VAPOR 34.2°C	0.160	12:23
SIMULATOR VAPOR 34.2°C	0.160	12:24
SIMULATOR VAPOR 34.2°C	0.160	12:25
SIMULATOR VAPOR 34.1°C	0.160	12:26
SIMULATOR VAPOR 34.2°C	0.160	12:27
BLANK TEST	0.000	12:28

Average = 0.160
Std Dev = 0.000

L4 01/31/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 12:32:32

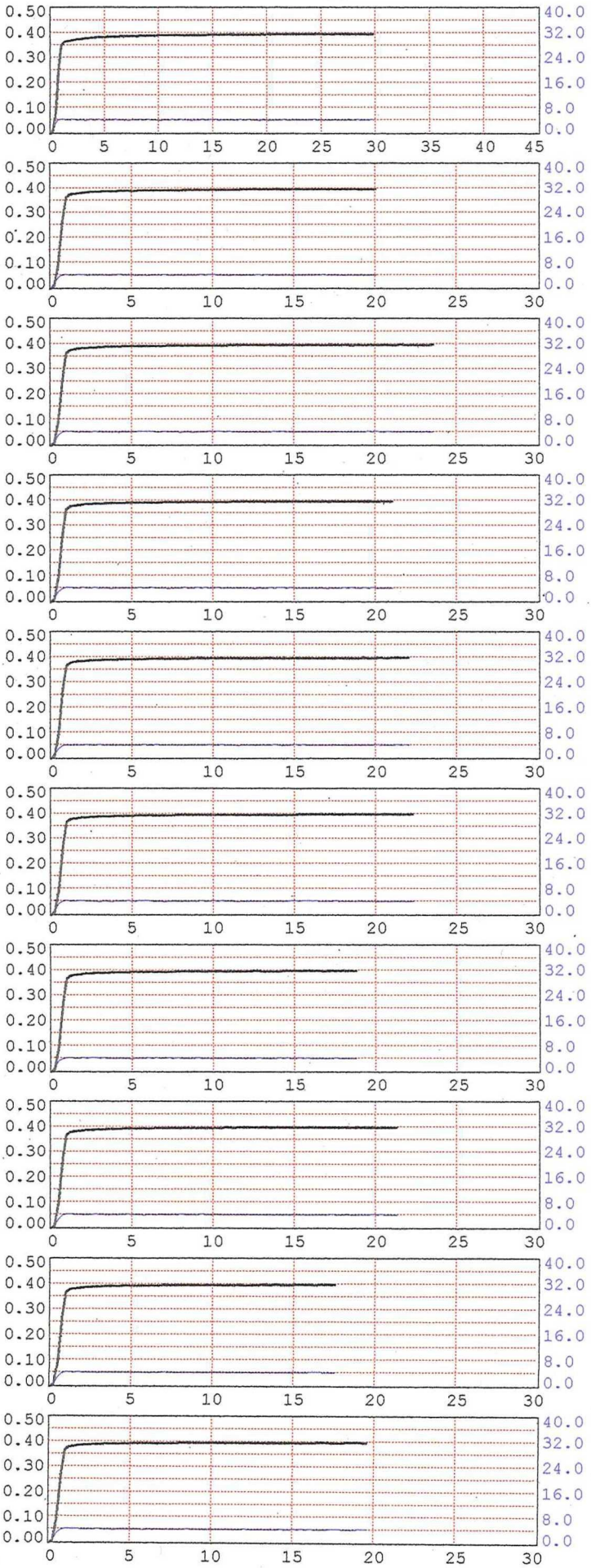
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	12:33
CALIBRATION CHECK	PASSED	12:33
SIMULATOR VAPOR 33.9°C	0.394	12:34
SIMULATOR VAPOR 33.9°C	0.394	12:35
SIMULATOR VAPOR 33.9°C	0.394	12:36
SIMULATOR VAPOR 33.9°C	0.394	12:37
SIMULATOR VAPOR 33.9°C	0.395	12:39
SIMULATOR VAPOR 33.9°C	0.395	12:40
SIMULATOR VAPOR 33.9°C	0.395	12:41
SIMULATOR VAPOR 33.9°C	0.396	12:42
SIMULATOR VAPOR 33.9°C	0.395	12:43
SIMULATOR VAPOR 33.9°C	0.394	12:45
BLANK TEST	0.000	12:45

Average = 0.394
Std Dev = 0.000

LH 01/31/12



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/31/2012
Test Time: 15:02:47

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 40.8°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.416 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0142	0.0169
MIN(V)	0.0126	0.0154

FILTER INFO

Filter 1	0.016	Zero = true
Filter 2	0.290	Zero = true
Filter 3	0.491	Zero = true

CALIBRATION CHECK
Xq = 0.083 0.53%

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 02/01/2012
Test Time: 07:13:37

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 46.6°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.337 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0083	-0.0047
MIN(V)	-0.0102	-0.0065

FILTER INFO

Filter 1	-0.005	Zero = true
Filter 2	0.269	Zero = true
Filter 3	0.456	Zero = true

CALIBRATION CHECK
Xq = 0.081 0.95%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 02/01/2012
Time: 07:21:21

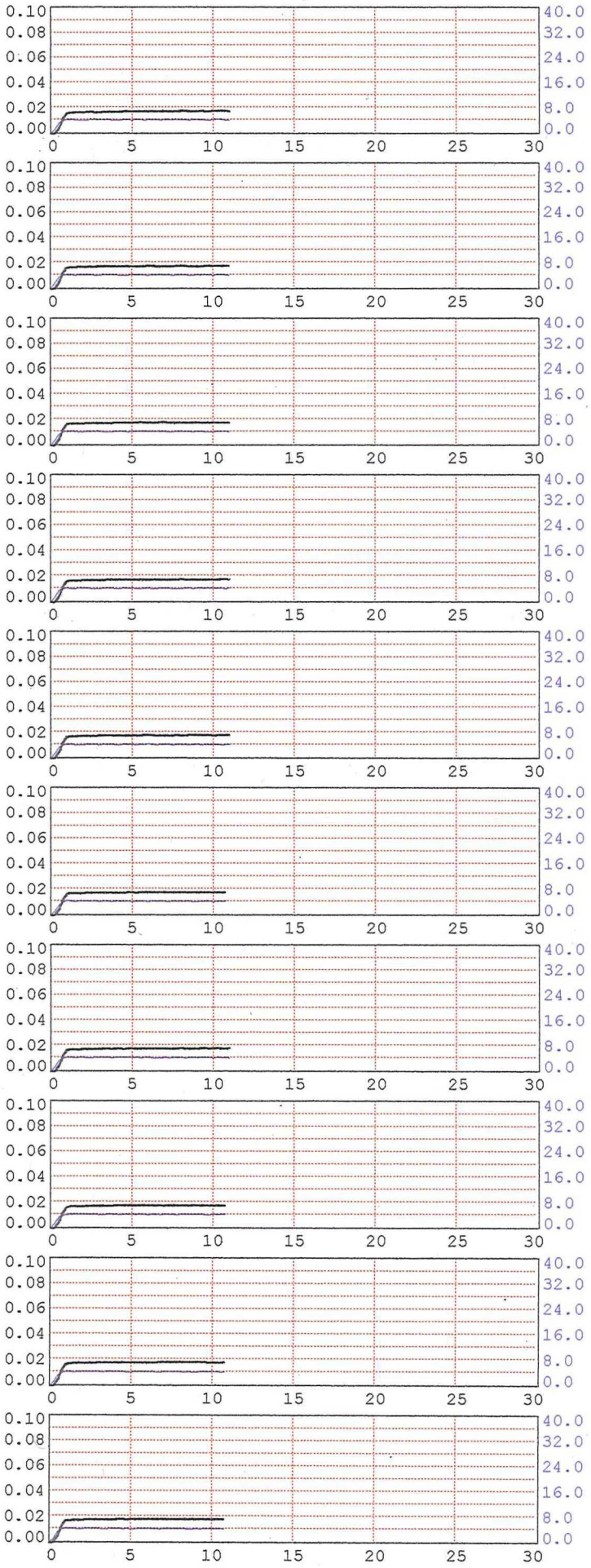
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-52-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	07:22
CALIBRATION CHECK	PASSED	07:22
SIMULATOR VAPOR 33.9°C	0.019	07:22
SIMULATOR VAPOR 33.9°C	0.019	07:23
SIMULATOR VAPOR 33.8°C	0.019	07:24
SIMULATOR VAPOR 33.9°C	0.019	07:25
SIMULATOR VAPOR 33.9°C	0.019	07:26
SIMULATOR VAPOR 34.0°C	0.019	07:27
SIMULATOR VAPOR 33.9°C	0.019	07:28
SIMULATOR VAPOR 33.9°C	0.019	07:29
SIMULATOR VAPOR 34.0°C	0.019	07:30
SIMULATOR VAPOR 34.0°C	0.019	07:31
BLANK TEST	0.000	07:32

Average = 0.019
Std Dev = 0.000

L-5
KLK
2-1-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 02/01/2012
Time: 07:37:02

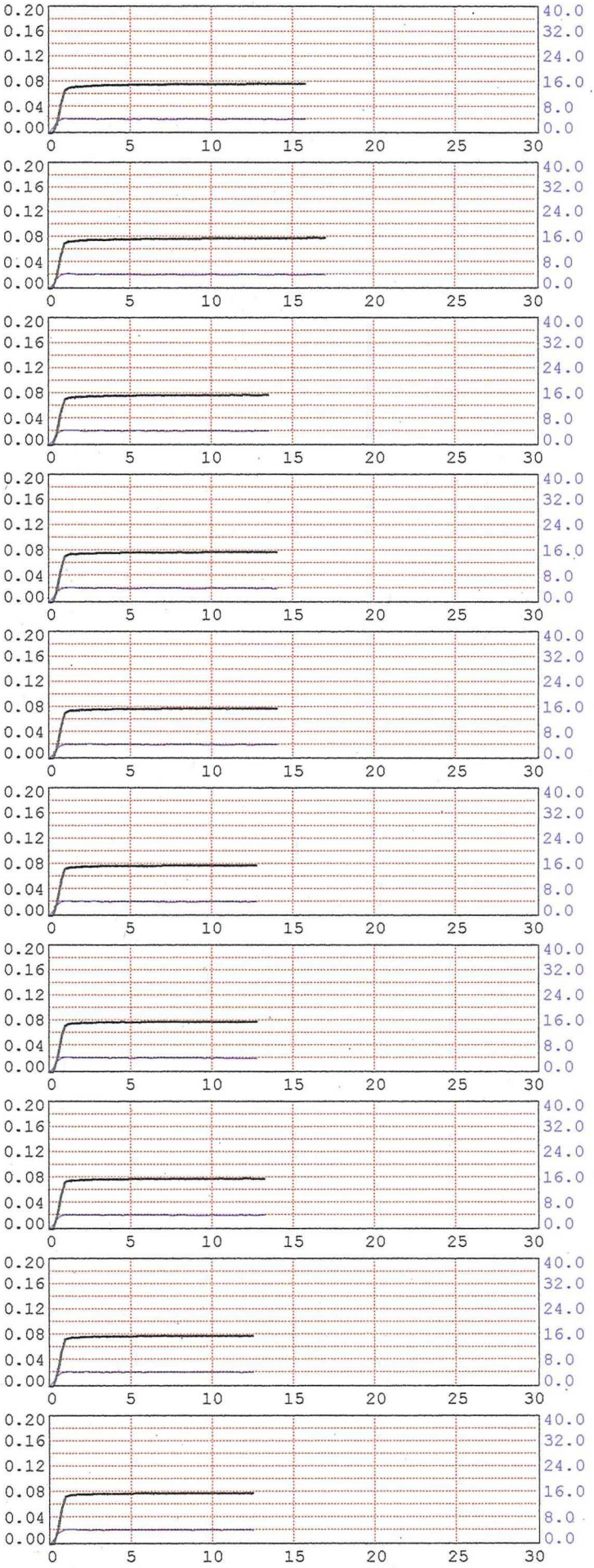
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-50-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	07:37
CALIBRATION CHECK	PASSED	07:38
SIMULATOR VAPOR 34.0°C	0.078	07:38
SIMULATOR VAPOR 33.9°C	0.079	07:39
SIMULATOR VAPOR 34.0°C	0.078	07:40
SIMULATOR VAPOR 34.0°C	0.079	07:41
SIMULATOR VAPOR 34.0°C	0.079	07:42
SIMULATOR VAPOR 34.0°C	0.079	07:43
SIMULATOR VAPOR 34.0°C	0.079	07:44
SIMULATOR VAPOR 34.0°C	0.079	07:45
SIMULATOR VAPOR 34.0°C	0.079	07:47
SIMULATOR VAPOR 33.9°C	0.079	07:48
BLANK TEST	0.000	07:48

Average = 0.078
Std Dev = 0.000

L-5
2-1-12
KLK



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 02/01/2012
Time: 07:52:05

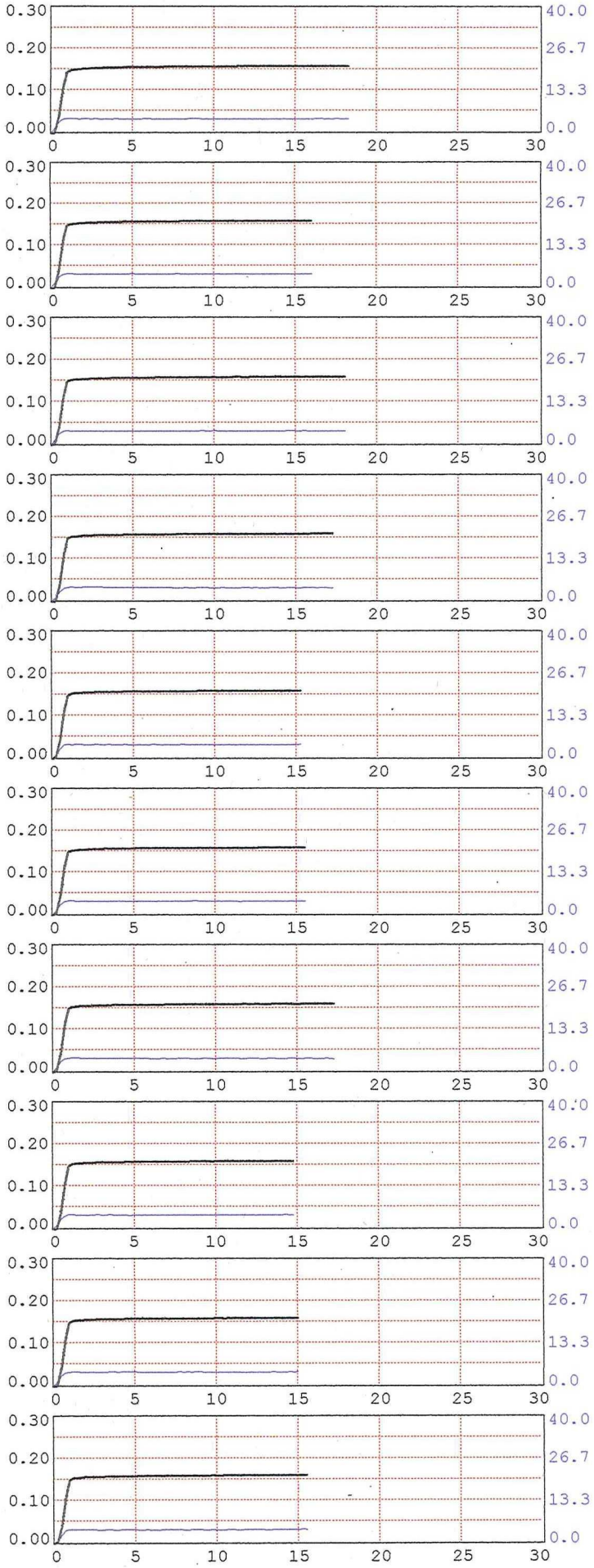
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-48-160
SOLUTION CONCENTRATION: 0.161

BLANK TEST	0.000	07:52
CALIBRATION CHECK	PASSED	07:53
SIMULATOR VAPOR 34.2°C	0.158	07:53
SIMULATOR VAPOR 34.2°C	0.158	07:54
SIMULATOR VAPOR 34.1°C	0.159	07:55
SIMULATOR VAPOR 34.1°C	0.160	07:56
SIMULATOR VAPOR 34.2°C	0.159	07:58
SIMULATOR VAPOR 34.2°C	0.159	07:59
SIMULATOR VAPOR 34.2°C	0.160	08:00
SIMULATOR VAPOR 34.1°C	0.159	08:01
SIMULATOR VAPOR 34.2°C	0.159	08:02
SIMULATOR VAPOR 34.2°C	0.160	08:03
BLANK TEST	0.000	08:04

Average = 0.159
Std Dev = 0.000

2-1-12
KLK
L-5



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 02/01/2012
Time: 08:28:58

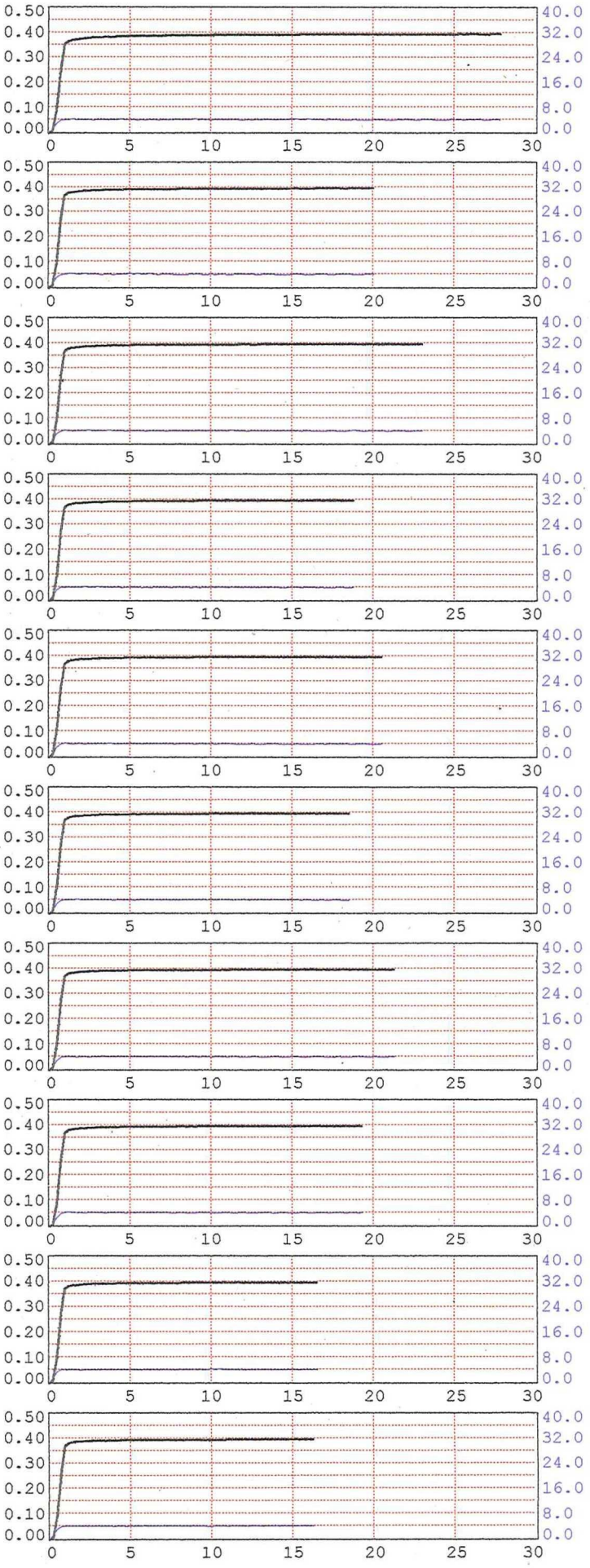
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	08:29
CALIBRATION CHECK	PASSED	08:29
SIMULATOR VAPOR 33.8°C	0.393	08:30
SIMULATOR VAPOR 33.9°C	0.393	08:31
SIMULATOR VAPOR 33.9°C	0.394	08:33
SIMULATOR VAPOR 33.9°C	0.394	08:34
SIMULATOR VAPOR 33.8°C	0.394	08:35
SIMULATOR VAPOR 33.9°C	0.394	08:36
SIMULATOR VAPOR 33.9°C	0.394	08:37
SIMULATOR VAPOR 33.8°C	0.394	08:38
SIMULATOR VAPOR 33.8°C	0.394	08:40
SIMULATOR VAPOR 33.9°C	0.393	08:41
BLANK TEST	0.000	08:42

Average = 0.393
Std Dev = 0.000

L-5
RRK
2-1-12



SECTION 4

INTERFERENCE TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date:
Installation Date:
Test Date: 01/27/2012
Test Time: 08:32:26

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 46.9°C
Digital Sim = 33.7°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 536 Hz

PUMP INFO
Flow Rate = 5.376 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0108	0.0138
MIN(V)	0.0096	0.0128

FILTER INFO
Filter 1 0.013 Zero = true
Filter 2 0.287 Zero = true
Filter 3 0.493 Zero = true

CALIBRATION CHECK
Xq = 0.082 0.21%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/27/2012
Time: 08:35:01

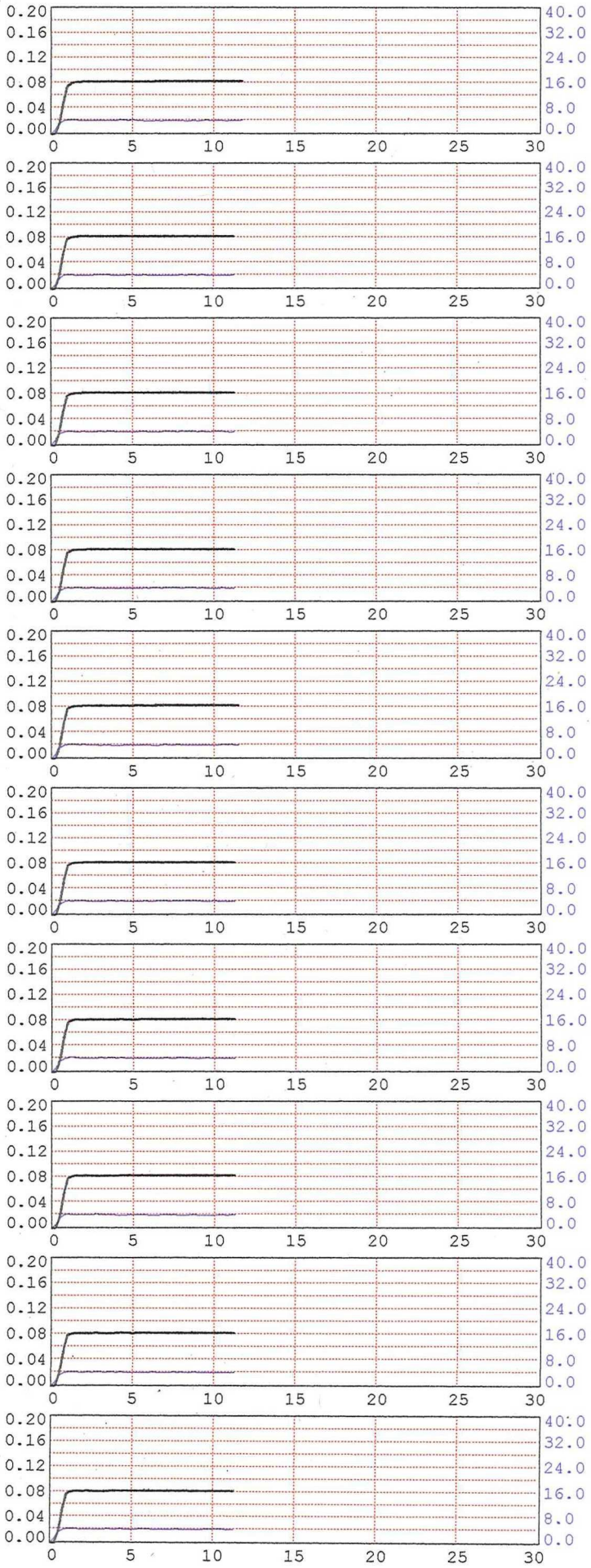
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-50-080A1
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	08:35
CALIBRATION CHECK	PASSED	08:36
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:36
SIMULATOR VAPOR 33.6°C	INTERFERENCE	08:37
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:38
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:39
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:40
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:41
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:42
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:43
SIMULATOR VAPOR 33.6°C	INTERFERENCE	08:44
SIMULATOR VAPOR 33.7°C	INTERFERENCE	08:45
BLANK TEST	0.000	08:46

100% 01/27/12 SM

0.01 Acetone / 0.080 EtOH



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/27/2012
Time: 11:00:58

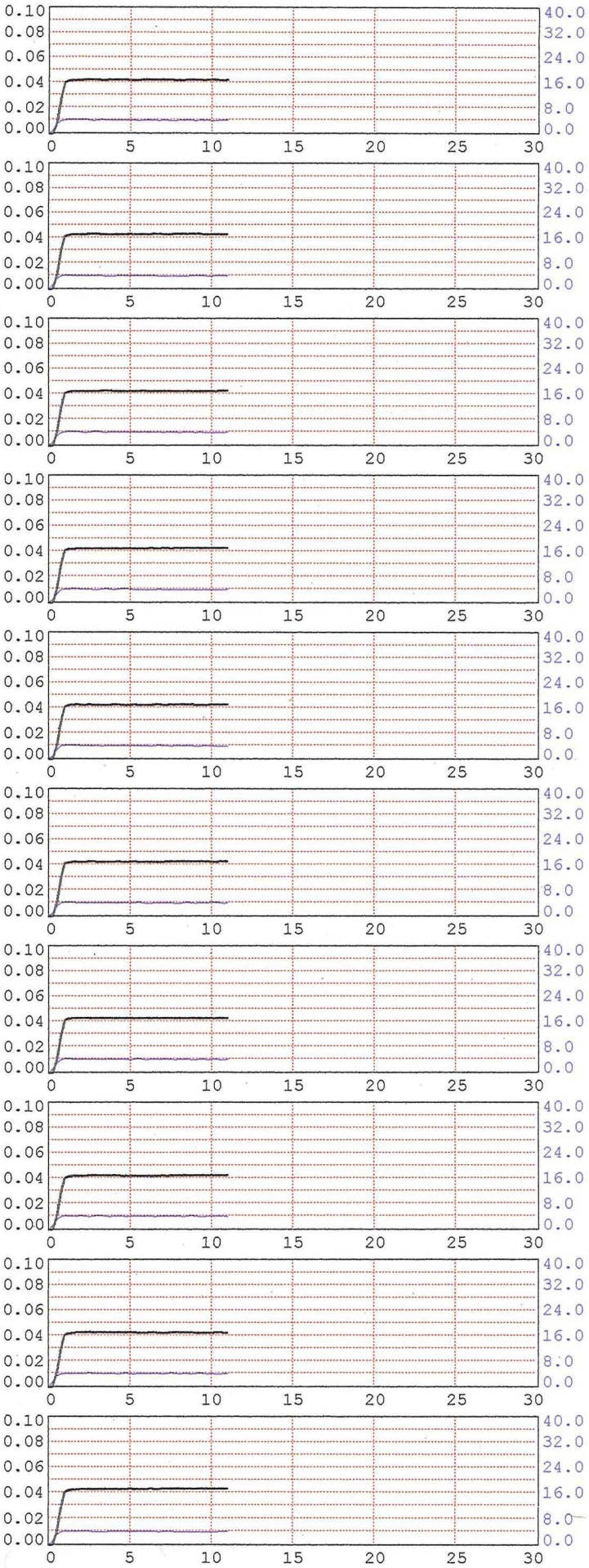
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-49-040A1
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	11:01
CALIBRATION CHECK	PASSED	11:01
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:02
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:03
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:04
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:05
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:06
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:07
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:08
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:09
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:10
SIMULATOR VAPOR 33.7°C	INTERFERENCE	11:11
BLANK TEST	0.000	11:12

100% 01/27/12 [illegible]

0.01 Acetone | 0.04 EtOH



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/30/2012
Test Time: 11:35:49

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 45.8°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.368 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0122	0.0163
MIN(V)	0.0108	0.0144

FILTER INFO

Filter 1	0.014	Zero = true
Filter 2	0.288	Zero = true
Filter 3	0.492	Zero = true

CALIBRATION CHECK
Xq = 0.082 0.42%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

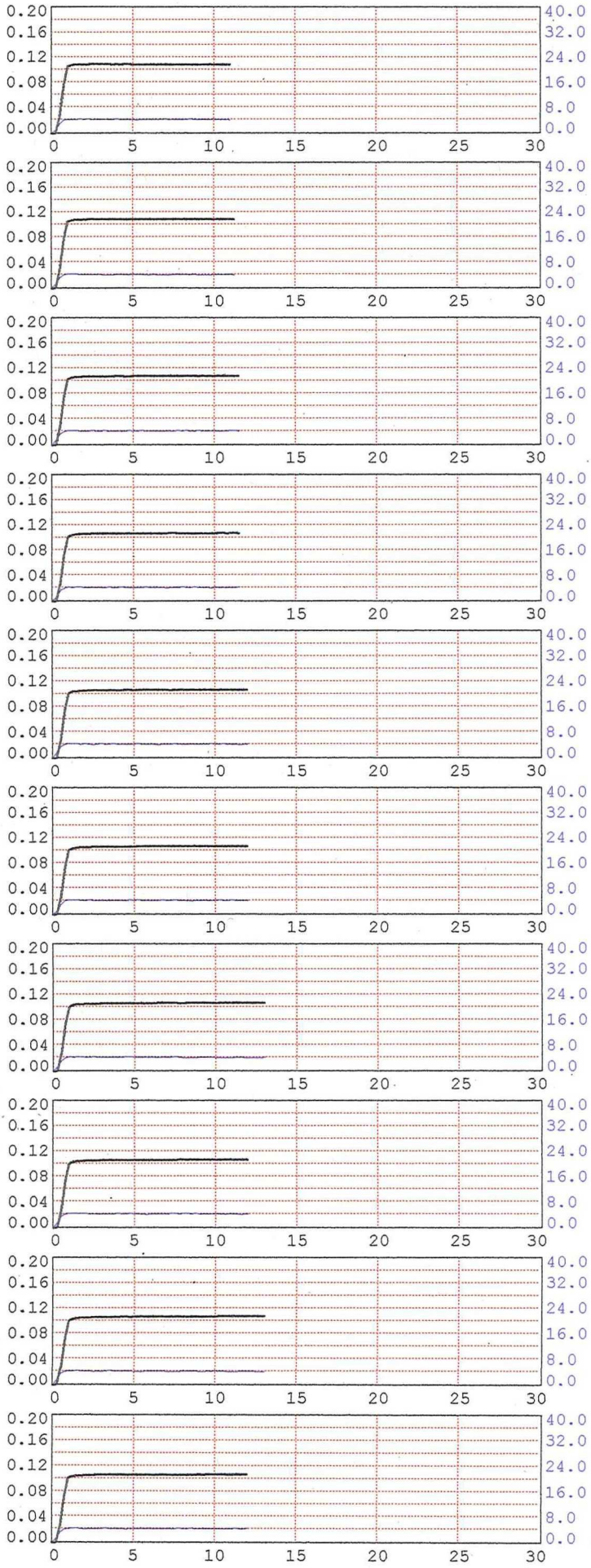
Date: 01/30/2012
Time: 11:53:36

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-50-080I
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	11:54
CALIBRATION CHECK	PASSED	11:54
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:54
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:55
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:56
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:58
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:59
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:00
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:01
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:02
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:03
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:04
BLANK TEST	0.000	12:05

100%
0.04 IPA
0.080 EtOH
KLK
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

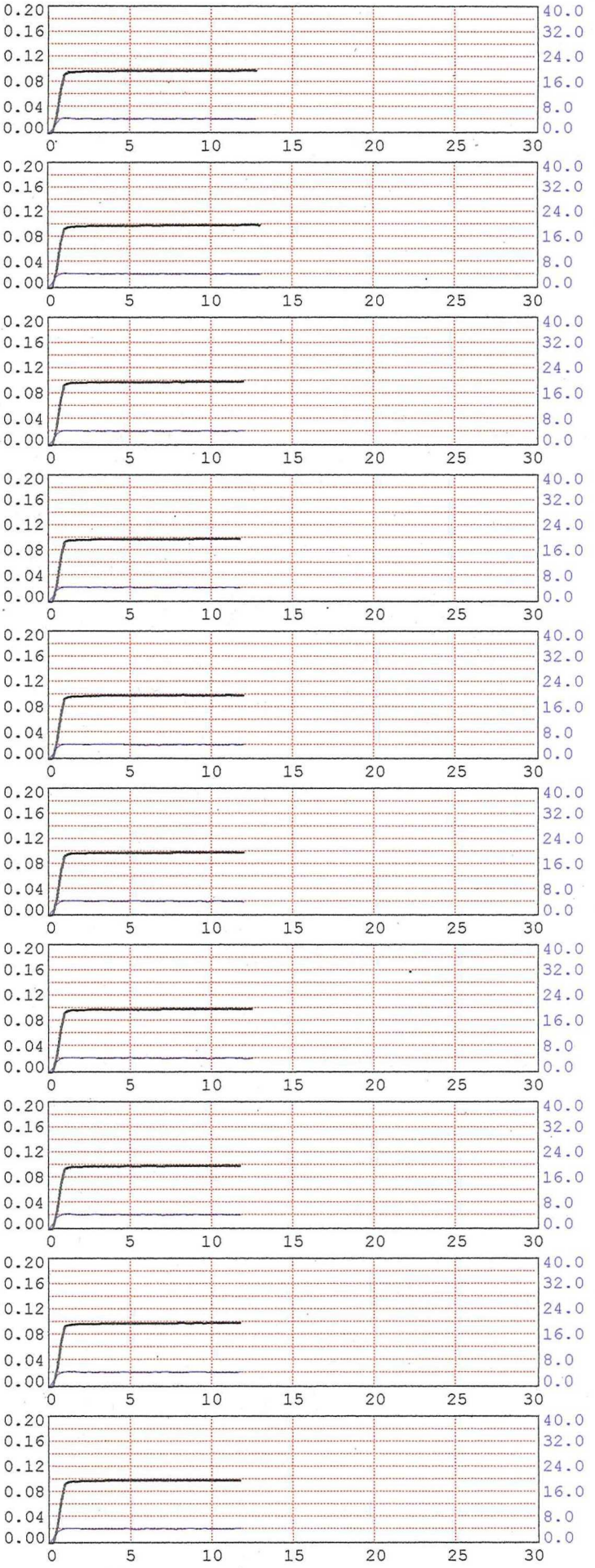
Date: 01/30/2012
Time: 12:08:45

SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-50-080M
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	12:09
CALIBRATION CHECK	PASSED	12:09
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:10
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:11
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:12
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:13
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:14
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:15
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:16
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:17
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:18
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:19
BLANK TEST	0.000	12:20

100%
0.04 MeOH
0.080 EtOH
RKM
1-30-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 08:58:30

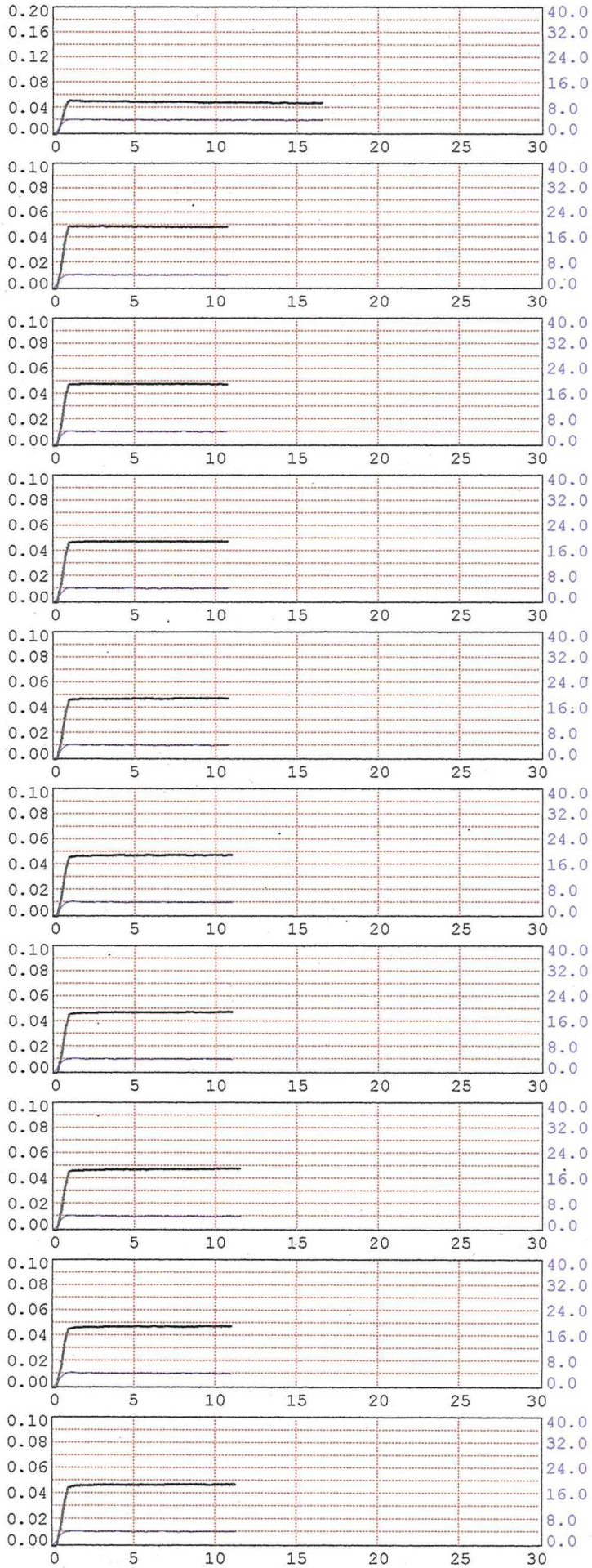
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-49-040A2
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	08:59
CALIBRATION CHECK	PASSED	08:59
SIMULATOR VAPOR 33.8°C	INTERFERENCE	08:59
SIMULATOR VAPOR 33.8°C	INTERFERENCE	09:00
SIMULATOR VAPOR 33.7°C	INTERFERENCE	09:01
SIMULATOR VAPOR 33.8°C	INTERFERENCE	09:02
SIMULATOR VAPOR 33.8°C	INTERFERENCE	09:03
SIMULATOR VAPOR 33.7°C	INTERFERENCE	09:05
SIMULATOR VAPOR 33.8°C	INTERFERENCE	09:06
SIMULATOR VAPOR 33.8°C	INTERFERENCE	09:07
SIMULATOR VAPOR 33.7°C	INTERFERENCE	09:08
SIMULATOR VAPOR 33.8°C	INTERFERENCE	09:09
BLANK TEST	0.000	09:09

100% 01/31/12 [illegible]

0.02 Acetone / 0.040 EtOH



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

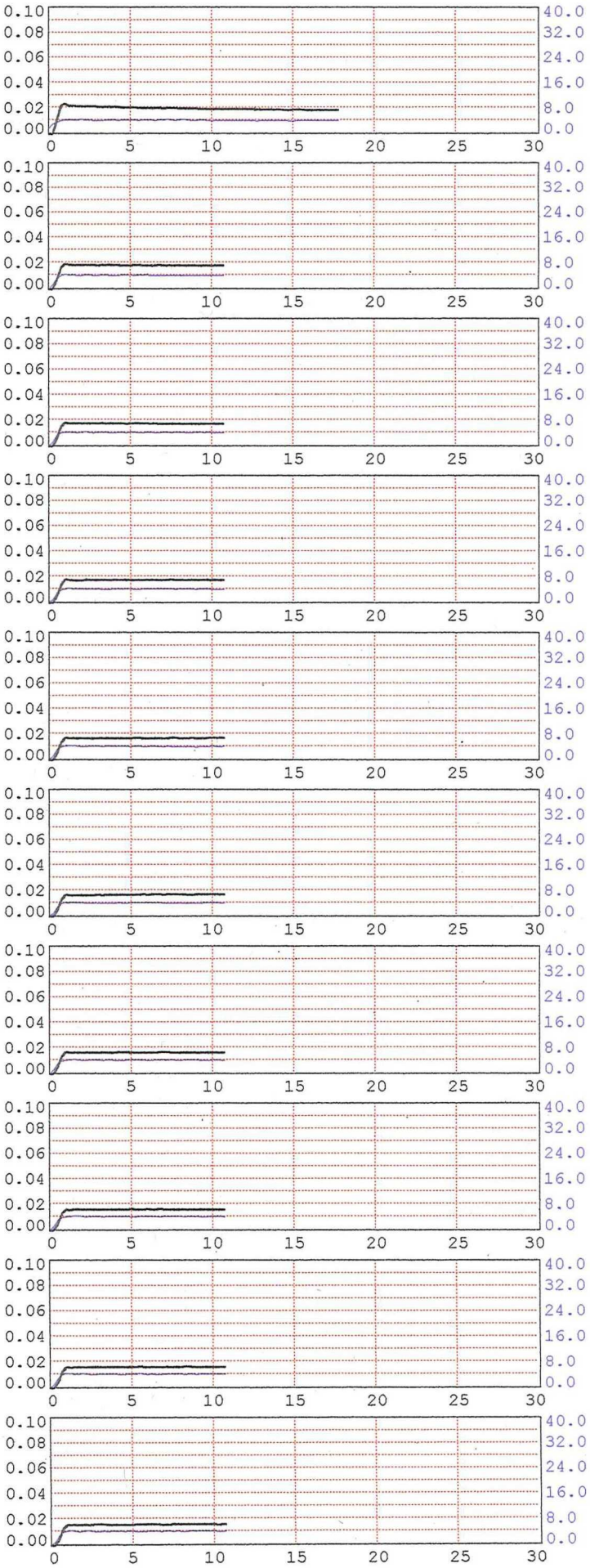
Date: 01/31/2012
Time: 14:16:52

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-55-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	14:17
CALIBRATION CHECK	PASSED	14:17
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:18
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:19
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:20
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:21
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:22
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:23
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:24
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:25
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:26
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:27
BLANK TEST	0.000	14:28

100%
0.04 NaOH
in
H_2O
KLK
1-31-12



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 01/31/2012
Test Time: 14:32:43

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.2°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.433 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0039	0.0067
MIN(V)	0.0024	0.0055

FILTER INFO

Filter 1	0.006	Zero = true
Filter 2	0.280	Zero = true
Filter 3	0.477	Zero = true

CALIBRATION CHECK
Xq = 0.082 0.42%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

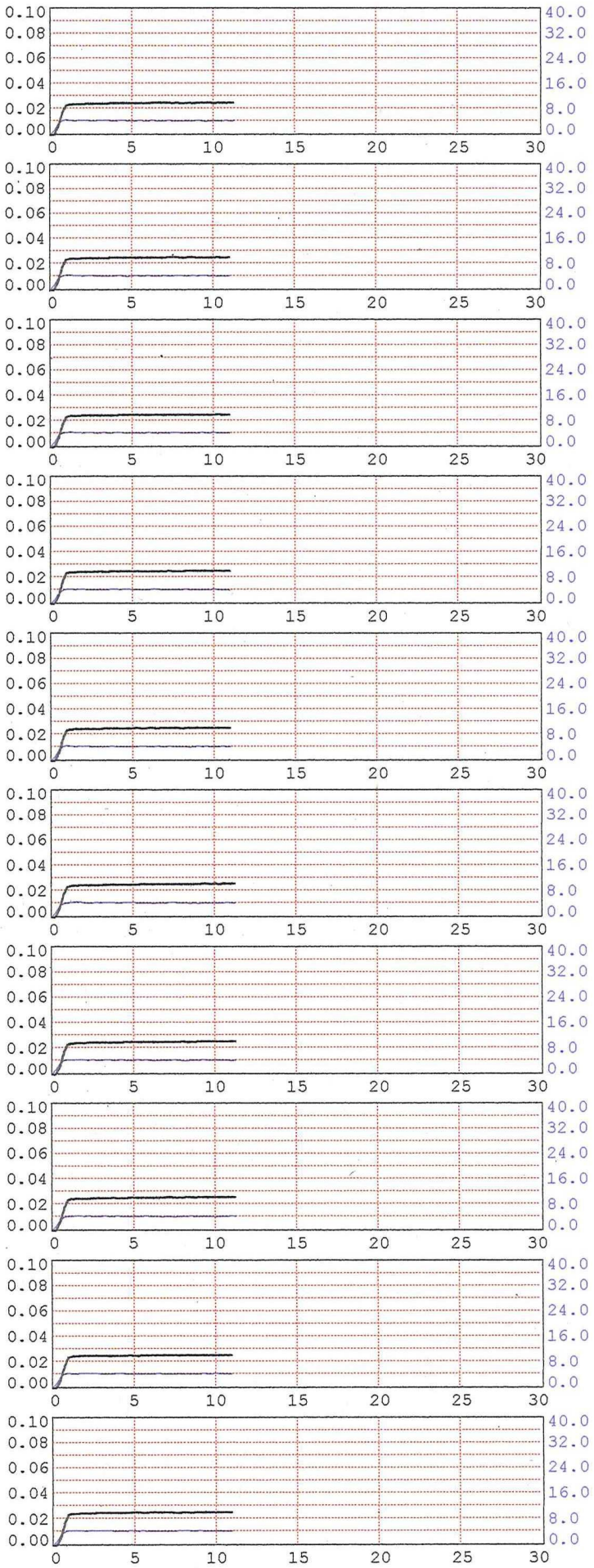
Date: 01/31/2012
Time: 14:45:55

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-56-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	14:46
CALIBRATION CHECK	PASSED	14:46
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:47
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:48
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:49
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:50
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:51
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:52
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:53
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:54
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:55
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:56
BLANK TEST	0.000	14:57

100% 0.04 IPA in H_2O
KLK
1-31-12



SECTION 5

FINAL CALIBRATION CHECK TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 02/01/2012
Test Time: 08:45:02

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 47.0°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 536 Hz

PUMP INFO
Flow Rate = 5.421 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0272	0.0293
MIN(V)	0.0246	0.0278

FILTER INFO

Filter 1	0.028	Zero = true
Filter 2	0.303	Zero = true
Filter 3	0.509	Zero = true

CALIBRATION CHECK
Xq = 0.083 0.85%

DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 02/01/2012
Test Time: 08:52:02

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 47.8°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 536 Hz

PUMP INFO
Flow Rate = 5.439 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0252	0.0283
MIN(V)	0.0242	0.0270

FILTER INFO
Filter 1 0.028 Zero = true
Filter 2 0.301 Zero = true
Filter 3 0.510 Zero = true

CALIBRATION CHECK
Xq = 0.082 0.21%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 02/01/2012
Time: 08:55:32

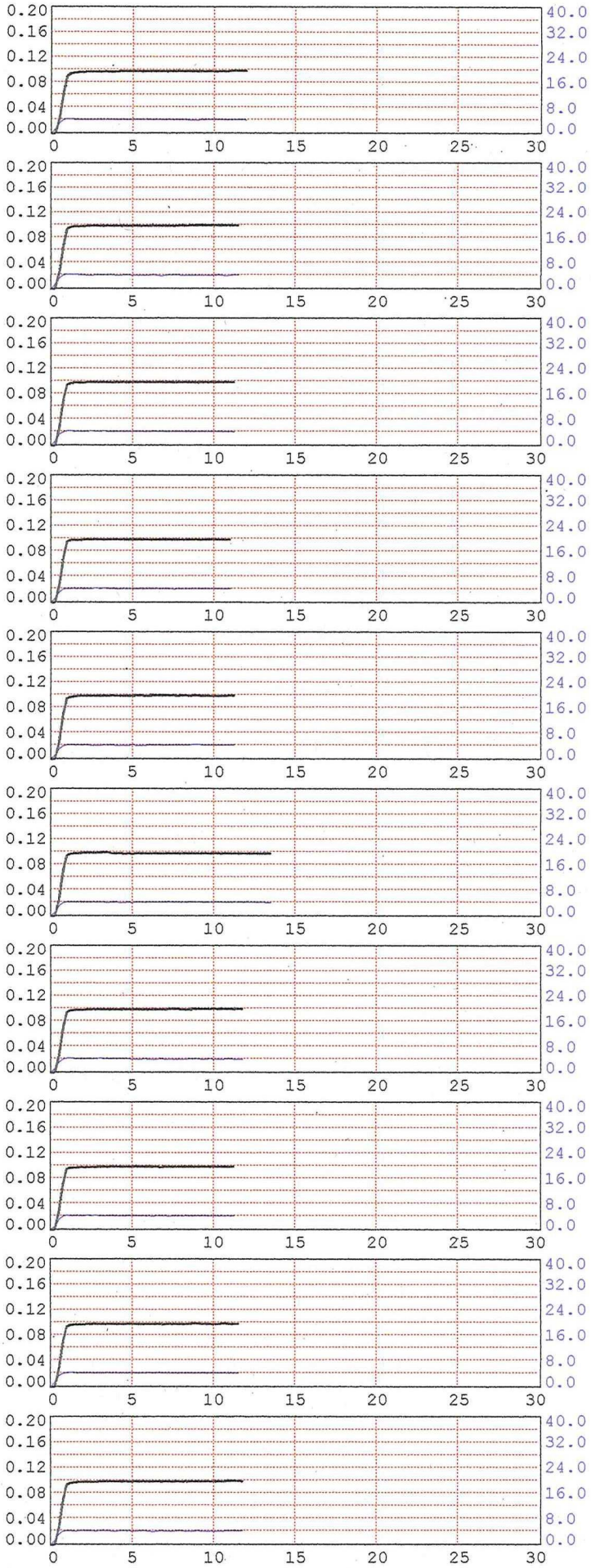
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	08:56
CALIBRATION CHECK	PASSED	08:56
SIMULATOR VAPOR 33.8°C	0.099	08:56
SIMULATOR VAPOR 33.7°C	0.100	08:57
SIMULATOR VAPOR 33.7°C	0.099	08:58
SIMULATOR VAPOR 33.7°C	0.099	08:59
SIMULATOR VAPOR 33.6°C	0.099	09:00
SIMULATOR VAPOR 33.7°C	0.098	09:02
SIMULATOR VAPOR 33.7°C	0.100	09:03
SIMULATOR VAPOR 33.7°C	0.099	09:04
SIMULATOR VAPOR 33.7°C	0.099	09:05
SIMULATOR VAPOR 33.7°C	0.099	09:06
BLANK TEST	0.000	09:07

Average = 0.099
Std Dev = 0.000

In-House Cal Check 02/01/12 SRM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 02/01/2012
Time: 09:10:38

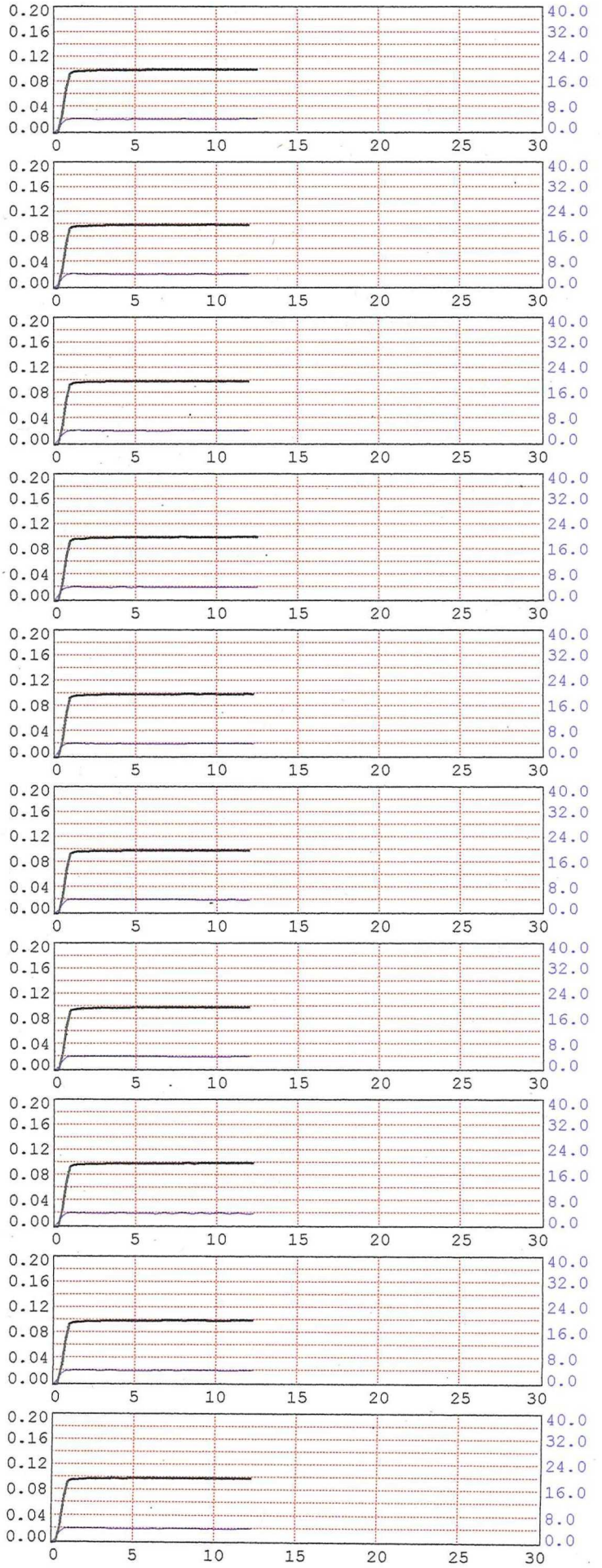
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: GUTH 11250
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	09:11
CALIBRATION CHECK	PASSED	09:11
SIMULATOR VAPOR 34.0°C	0.100	09:11
SIMULATOR VAPOR 34.0°C	0.099	09:12
SIMULATOR VAPOR 34.0°C	0.099	09:14
SIMULATOR VAPOR 34.0°C	0.100	09:15
SIMULATOR VAPOR 34.0°C	0.099	09:16
SIMULATOR VAPOR 34.0°C	0.099	09:17
SIMULATOR VAPOR 34.0°C	0.099	09:18
SIMULATOR VAPOR 34.0°C	0.100	09:19
SIMULATOR VAPOR 34.0°C	0.099	09:20
SIMULATOR VAPOR 34.0°C	0.099	09:21
BLANK TEST	0.000	09:22

Average = 0.099
Std Dev = 0.000

2nd Source Cal. Check
KRK
2-1-12



DIAGNOSTIC RESULT

DataMaster DMT: 100137
Location:
Calibration Date: 01/26/2012
Certification Date: 01/27/2012
Installation Date:
Test Date: 02/01/2012
Test Time: 09:34:30

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 48.0°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 5.296 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0311	0.0341
MIN(V)	0.0297	0.0321

FILTER INFO

Filter 1	0.033	Zero = true
Filter 2	0.305	Zero = true
Filter 3	0.519	Zero = true

CALIBRATION CHECK
Xq = 0.082 0.32%

SECTION 6

ERROR REPORTS

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100137

Date: 01/31/2012
Time: 14:12:33

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-55-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	14:13
CALIBRATION CHECK	PASSED	14:13

Simulator Timed Out