102806

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SECTION 1

RESULTS

102806

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)									
8/2/2012	0.991426	34.0	12-39-100	0.097		8/3/2012	90%	100%	100%	100%	100%	100%	100%
RCD	8/2/2012	34.0	Guth 11250	0.1		RCD	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012	8/3/2012

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)
8/3/2012	8/3/2012	8/8/2012	8/9/2012	8/9/2012		34.0	12-61-100	0.101
RCD	RCD	RCD	RCD	TLC		34.0	Guth 11250	0.1

Notes:

Analyst: 12/5/12 **Reviewer:** 12/5/12 **Reviewer:** 12/6/2012

National Patent
Analytical Systems, Inc.

On this date 3/21/12, NPAS received instrument # 102806.

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

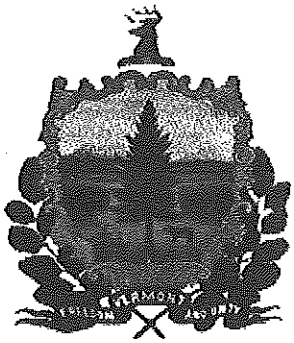
Signature of Evaluator and Date: Michael J. Barbely Jr. 3/23/12

Print Name of Reviewer: DAVID RADOMSKI

Signature of Reviewer and Date: David Radomski 3/23/12

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

CALIBRATION REPORT



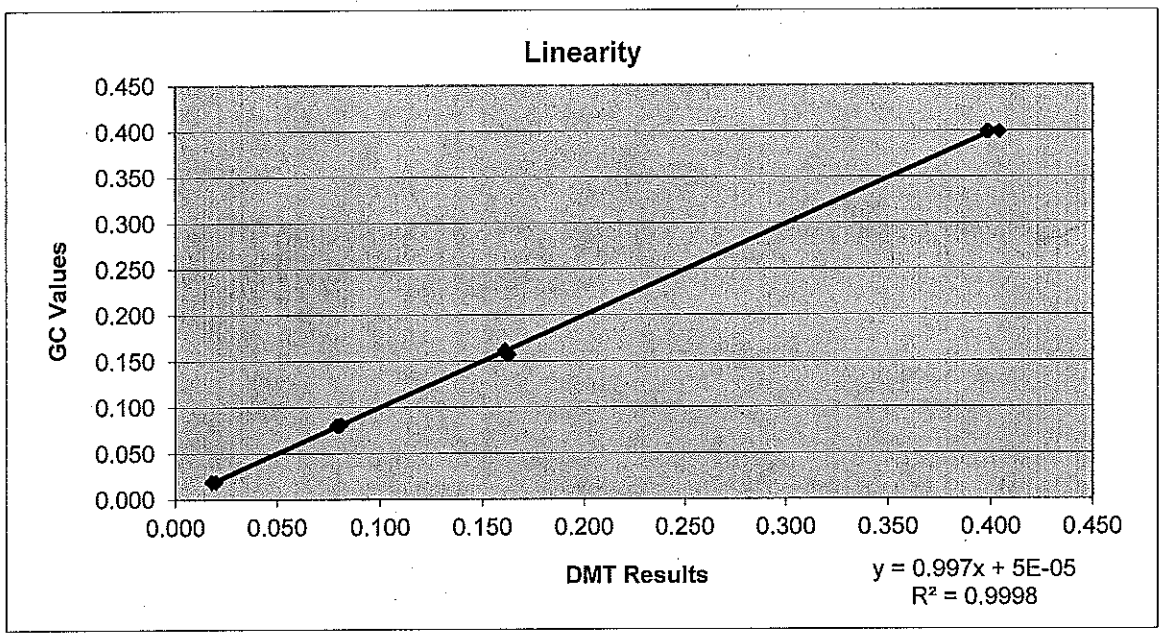
DataMaster DMT: 102806
Calibration Date: 03/22/2012
Calibrated by: NPAS TECH
Lot: 11250

Ca = 0.101			
CAL = 1.019694	0.800	<= CAL <	1.200
b1 = 0.000	0.000	<= b1 <	0.004
b2 = 0.004	0.001	<= b2 <	0.010
b3 = 0.000	0.000	<= b3 <	0.004
Xq = 0.079	0.050	<= Xq <	0.200
a21 = 1.146142	1.050	<= a21 <	1.300
a31 = 0.471660	0.300	<= a31 <	0.800

Performed by _____ Date 03/22/2012

DataMaster DMT Serial Number 102806

Operator	Date	GC Value	DMT Average	Std Dev	% Recovery
RCD	8/3/2012	0.019	0.020	0.000	105
		0.080	0.079	0.000	98
		0.162	0.161	0.000	99
		0.399	0.399	0.000	100
RCD	8/3/2012	0.019	0.020	0.000	105
		0.080	0.079	0.000	98
		0.162	0.161	0.000	99
		0.399	0.398	0.000	99
RCD	8/8/2012	0.019	0.018	0.000	95
		0.080	0.080	0.000	100
		0.162	0.161	0.000	99
		0.399	0.399	0.000	100
RCD	8/9/2012	0.019	0.018	0.000	95
		0.081	0.081	0.000	100
		0.157	0.163	0.000	103
		0.399	0.399	0.000	100
TLC	8/9/2012	0.019	0.018	0.000	95
		0.081	0.081	0.000	100
		0.157	0.162	0.000	103
		0.399	0.404	0.001	101
			Average	0.0001	100
			Std Dev	0.0002	
			Range		95 - 105



102806

SECTION 2

POWER UP TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location: VFL
Calibration Date: 07/26/2012
Certification Date: 07/26/2012
Installation Date: 07/26/2012
Test Date: 08/02/2012
Test Time: 15:17:18

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.71 V
Cooler Voltage = 1.68 V
Bias Voltage = 80 V
Chopper Freq = 526 Hz

PUMP INFO
Flow Rate = 4.332 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0049	0.0077
MIN(V)	0.0033	0.0059

FILTER INFO
Filter 1 0.007 Zero = true
Filter 2 0.520 Zero = true
Filter 3 1.371 Zero = true

CALIBRATION CHECK
Xq = 0.073 5.78%

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 08/02/2012
Calibrated by: ROBERT DRISCOLL
Lot: 12-71-100

Ca = 0.100			
CAL = 0.991426	0.800	<= CAL <	1.200
b1 = 0.000	0.000	<= b1 <	0.004
b2 = 0.003	0.002	<= b2 <	0.010
b3 = 0.000	0.000	<= b3 <	0.004
Xq = 0.074	0.050	<= Xq <	0.200
a21 = 1.141098	1.050	<= a21 <	1.300
a31 = 0.472323	0.300	<= a31 <	0.800

Performed by RD-66 Date 08/02/2012

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

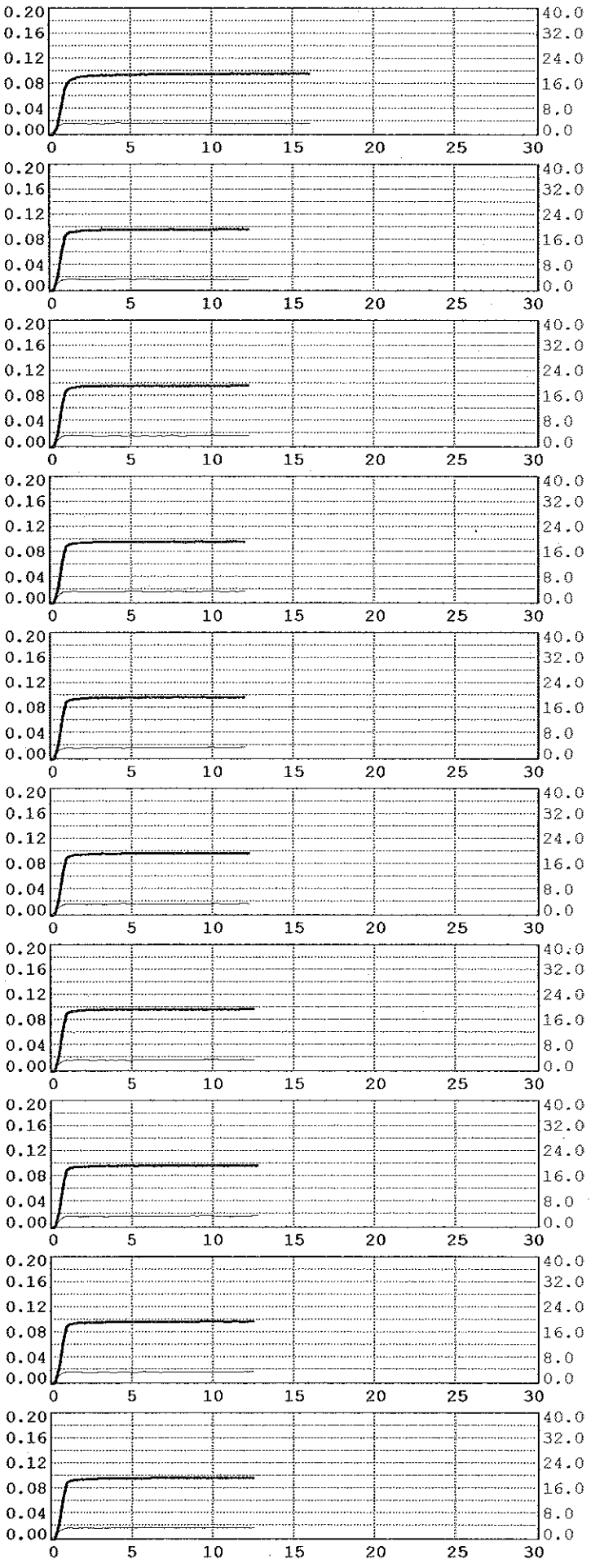
Date: 08/02/2012
Time: 15:26:40

SUPERVISOR NAME:
RCD CAL CHECK

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

BLANK TEST	0.000	15:27
CALIBRATION CHECK	PASSED	15:27
SIMULATOR VAPOR 34.0°C	0.097	15:28
SIMULATOR VAPOR 34.0°C	0.097	15:29
SIMULATOR VAPOR 34.1°C	0.097	15:30
SIMULATOR VAPOR 34.0°C	0.097	15:31
SIMULATOR VAPOR 34.1°C	0.097	15:32
SIMULATOR VAPOR 34.0°C	0.098	15:33
SIMULATOR VAPOR 34.1°C	0.098	15:34
SIMULATOR VAPOR 34.1°C	0.098	15:35
SIMULATOR VAPOR 34.0°C	0.098	15:36
SIMULATOR VAPOR 34.1°C	0.097	15:37
BLANK TEST	0.000	15:38

Average = 0.097
Std Dev = 0.000



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ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

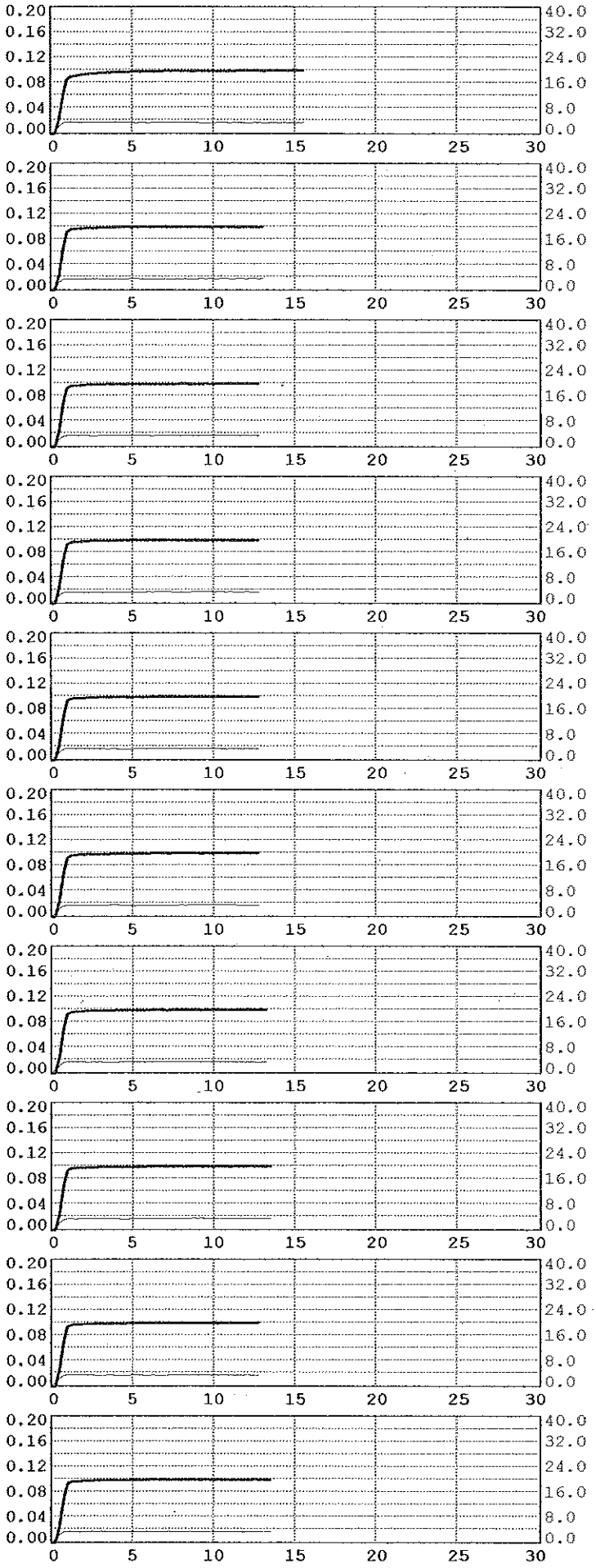
Date: 08/02/2012
Time: 15:41:44

SUPERVISOR NAME:
RCD SECOND SOURCE CAL CHK

SOLUTION LOT #: GUTH 11250
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	15:42
CALIBRATION CHECK	PASSED	15:42
SIMULATOR VAPOR 34.1°C	0.100	15:43
SIMULATOR VAPOR 34.1°C	0.100	15:44
SIMULATOR VAPOR 34.1°C	0.100	15:45
SIMULATOR VAPOR 34.0°C	0.100	15:46
SIMULATOR VAPOR 34.1°C	0.100	15:47
SIMULATOR VAPOR 34.1°C	0.100	15:48
SIMULATOR VAPOR 34.1°C	0.100	15:49
SIMULATOR VAPOR 34.0°C	0.100	15:50
SIMULATOR VAPOR 34.1°C	0.100	15:51
SIMULATOR VAPOR 33.9°C	0.100	15:52
BLANK TEST	0.000	15:53

Average = 0.100
Std Dev = 0.000



CERTIFICATION REPORT

DataMaster DMT: 102806
Calibration Date: 08/02/2012
Certification Date: 08/03/2012
Certified by: ROBERT DRISCOLL

Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube    = 48.1°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.71 V
Cooler Voltage = 1.68 V
Bias Voltage   = 80 V
Chopper Freq   = 526 Hz

PUMP INFO
Flow Rate = 4.325 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)    0.0181    0.0213
MIN(V)    0.0167    0.0197

FILTER INFO
Filter 1   0.021  Zero = true
Filter 2   0.533  Zero = true
Filter 3   1.387  Zero = true

CALIBRATION CHECK
Xq  = 0.074  0.00%
```

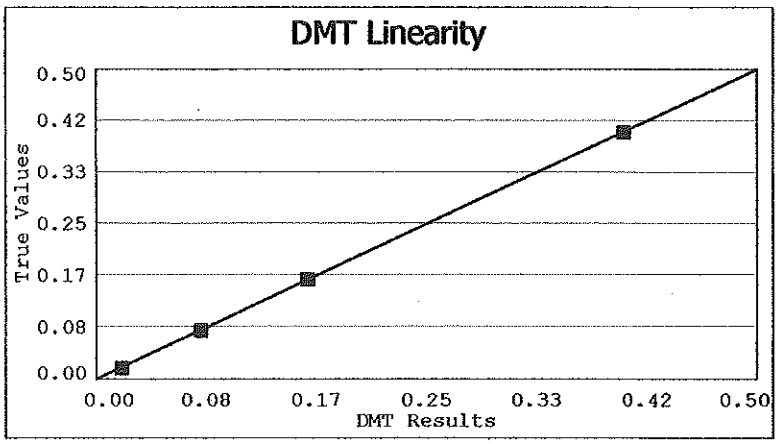
Options

```
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 # 12-78-020	0.019 g/210L	0.0000
0.080 g/210L Lot # 12057-080	0.079 g/210L	0.0000
0.162 g/210L Lot # 12-60-160	0.160 g/210L	0.0000
0.399 g/210L Lot # 12-82-400	0.399 g/210L	0.0000

$R^2 = 1$



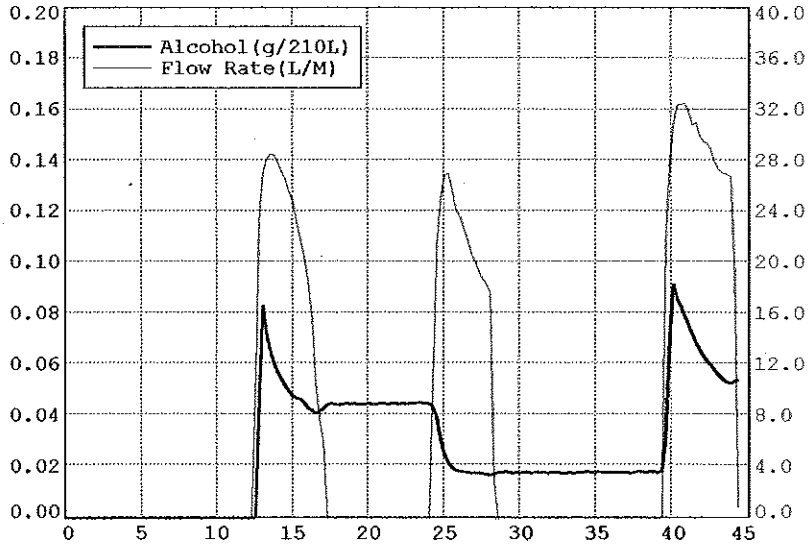
Acetone Interference Test

Lot # 12-79-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

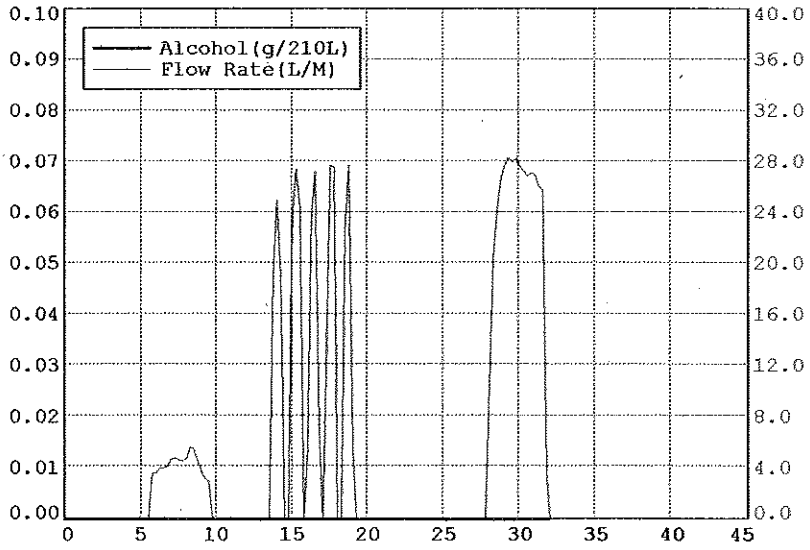


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 08/03/2012

Reviewed by _____ **Date** 12/5/12

102806

SECTION 3

LINEARITY TESTS

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/03/2012
Time: 09:11:41

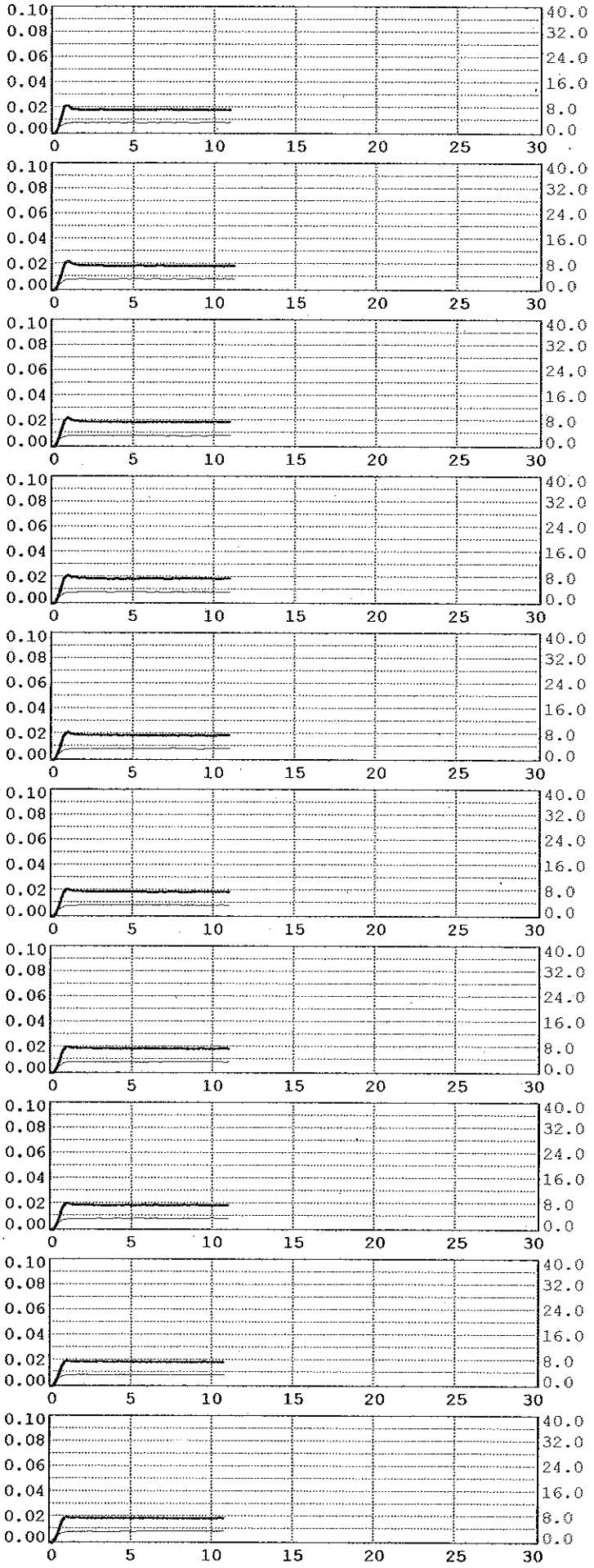
SUPERVISOR NAME:
RCD LINEARITY ONE

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	09:12
CALIBRATION CHECK	PASSED	09:12
SIMULATOR VAPOR 34.0°C	0.020	09:12
SIMULATOR VAPOR 34.0°C	0.020	09:14
SIMULATOR VAPOR 34.0°C	0.020	09:15
SIMULATOR VAPOR 34.0°C	0.020	09:16
SIMULATOR VAPOR 34.0°C	0.020	09:17
SIMULATOR VAPOR 34.0°C	0.020	09:18
SIMULATOR VAPOR 33.9°C	0.020	09:19
SIMULATOR VAPOR 34.0°C	0.020	09:20
SIMULATOR VAPOR 34.0°C	0.020	09:21
SIMULATOR VAPOR 34.0°C	0.020	09:22
BLANK TEST	0.000	09:23

Average = 0.020
Std Dev = 0.000

LI
TLC 12/5/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/03/2012
Time: 09:27:18

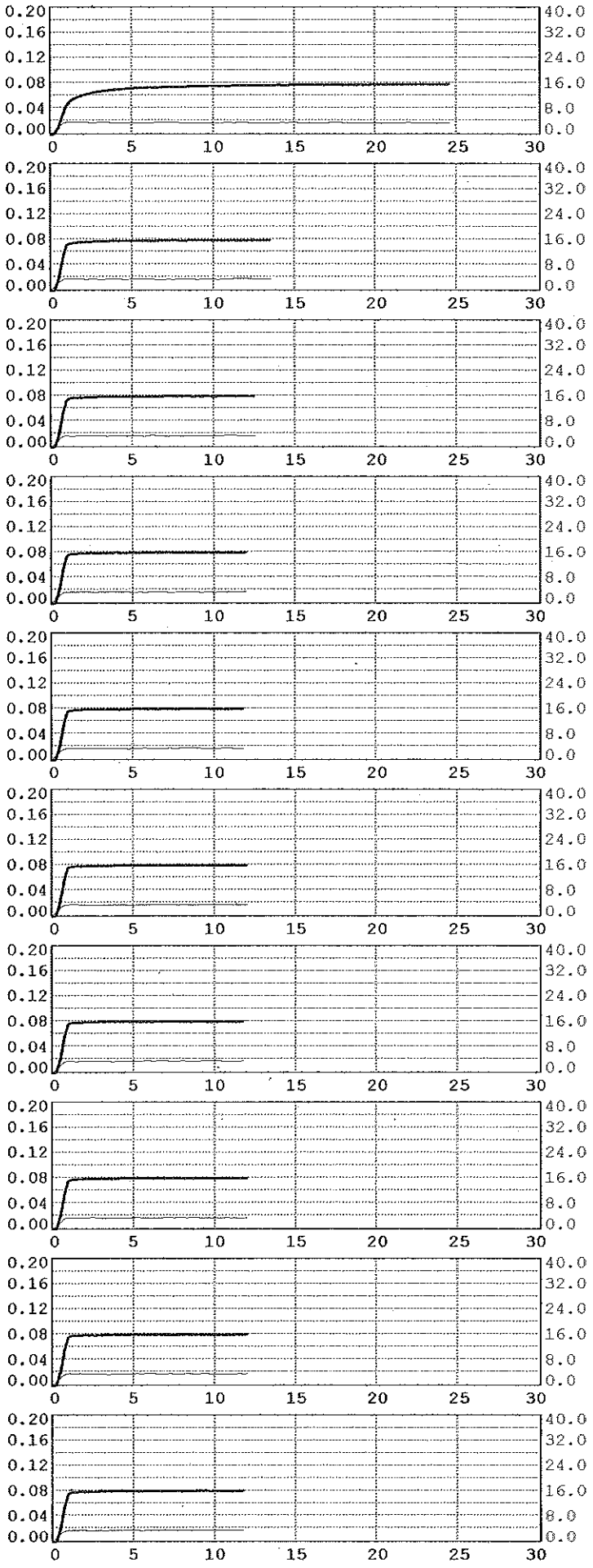
SUPERVISOR NAME:
RCD LINEARITY ONE

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	09:28
CALIBRATION CHECK	PASSED	09:28
SIMULATOR VAPOR 34.0°C	0.078	09:28
SIMULATOR VAPOR 34.0°C	0.079	09:29
SIMULATOR VAPOR 34.0°C	0.080	09:30
SIMULATOR VAPOR 34.0°C	0.080	09:32
SIMULATOR VAPOR 34.0°C	0.080	09:33
SIMULATOR VAPOR 34.0°C	0.080	09:34
SIMULATOR VAPOR 34.0°C	0.080	09:35
SIMULATOR VAPOR 33.9°C	0.080	09:36
SIMULATOR VAPOR 34.0°C	0.080	09:37
SIMULATOR VAPOR 34.0°C	0.080	09:38
BLANK TEST	0.000	09:39

Average = 0.079
Std Dev = 0.000

LI
TLC 12/5/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/03/2012
Time: 09:43:45

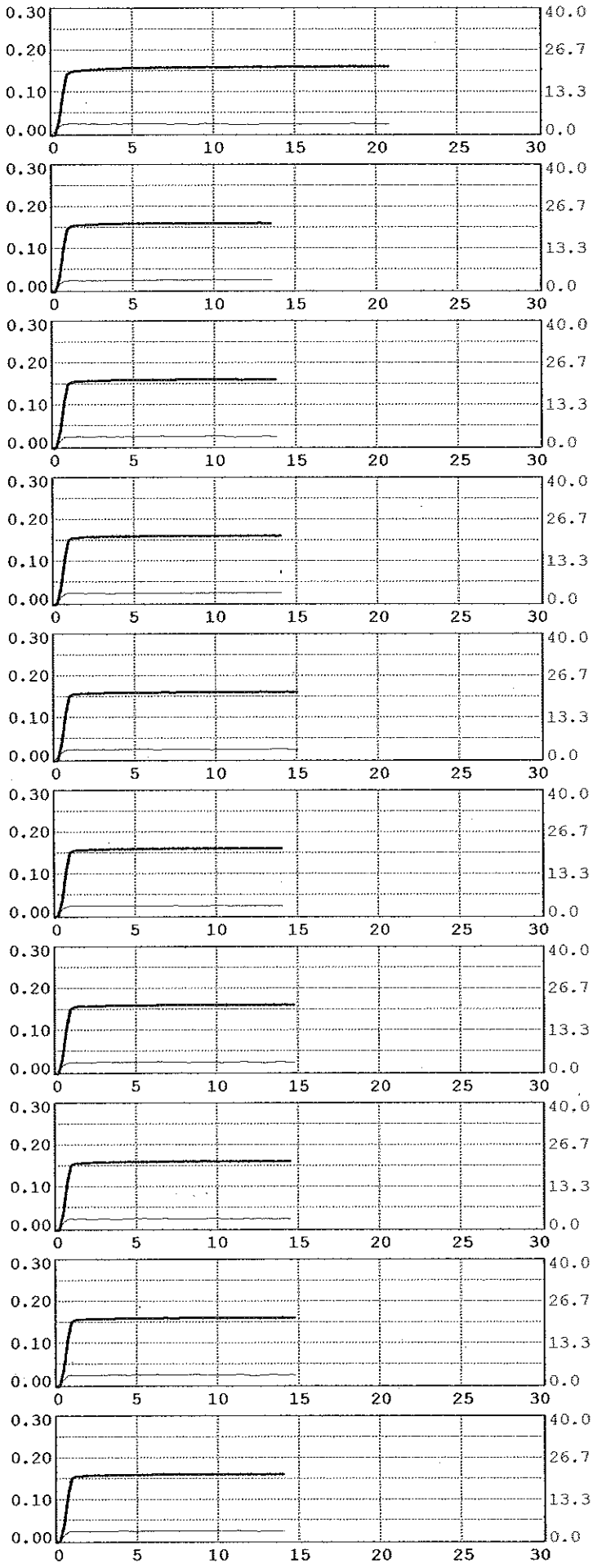
SUPERVISOR NAME:
RCD LINEARITY ONE

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	09:44
CALIBRATION CHECK	PASSED	09:44
SIMULATOR VAPOR 33.9°C	0.161	09:45
SIMULATOR VAPOR 34.0°C	0.161	09:46
SIMULATOR VAPOR 34.0°C	0.161	09:47
SIMULATOR VAPOR 34.0°C	0.162	09:48
SIMULATOR VAPOR 33.9°C	0.161	09:49
SIMULATOR VAPOR 34.0°C	0.161	09:50
SIMULATOR VAPOR 34.0°C	0.161	09:51
SIMULATOR VAPOR 34.0°C	0.161	09:52
SIMULATOR VAPOR 33.9°C	0.162	09:53
SIMULATOR VAPOR 34.0°C	0.162	09:55
BLANK TEST	0.000	09:55

Average = 0.161
Std Dev = 0.000

LI
TLC 12/5/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/03/2012
Time: 10:03:07

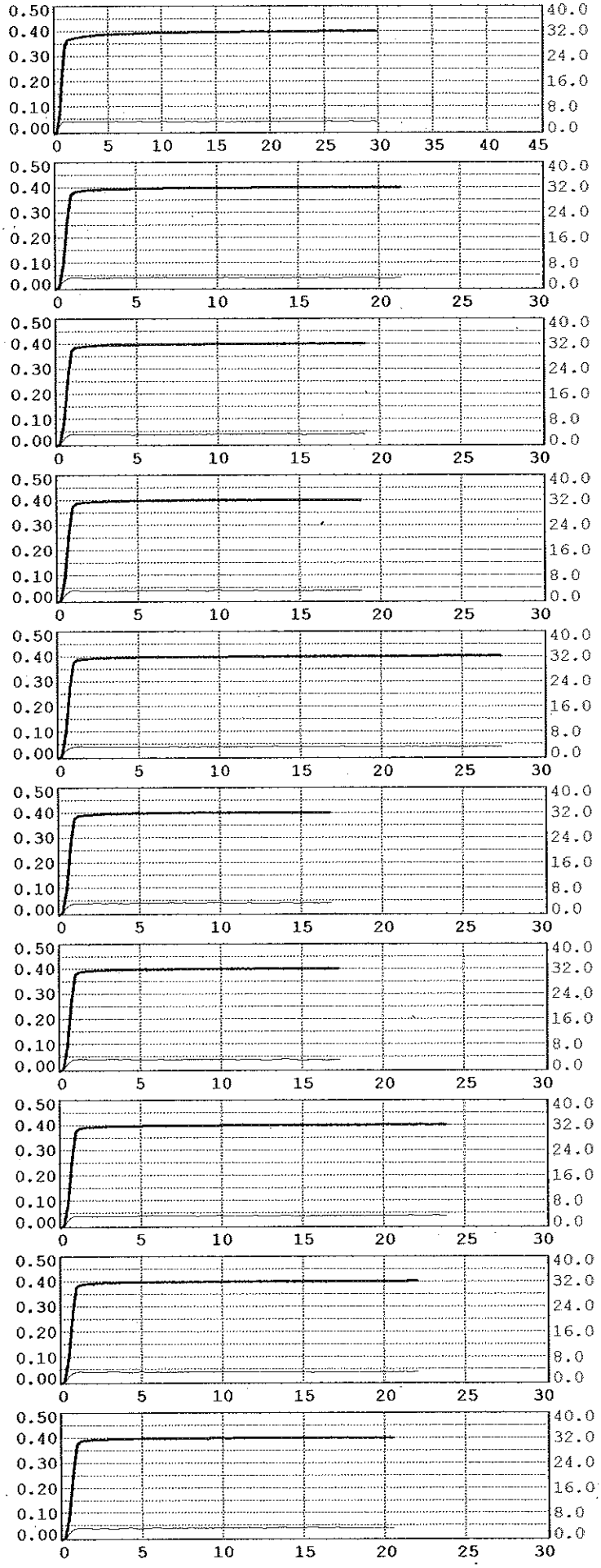
SUPERVISOR NAME:
RCD LINEARITY ONE

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	10:04
CALIBRATION CHECK	PASSED	10:04
SIMULATOR VAPOR 34.0°C	0.399	10:04
SIMULATOR VAPOR 33.9°C	0.399	10:05
SIMULATOR VAPOR 34.0°C	0.400	10:07
SIMULATOR VAPOR 33.9°C	0.400	10:08
SIMULATOR VAPOR 33.9°C	0.401	10:09
SIMULATOR VAPOR 34.0°C	0.400	10:10
SIMULATOR VAPOR 34.0°C	0.399	10:11
SIMULATOR VAPOR 34.0°C	0.400	10:13
SIMULATOR VAPOR 34.0°C	0.400	10:14
SIMULATOR VAPOR 33.9°C	0.399	10:15
BLANK TEST	0.000	10:16

Average = 0.399
Std Dev = 0.000

LI
TLC
12/5/12



DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date: 08/02/2012
Certification Date: 08/03/2012
Installation Date:
Test Date: 08/03/2012
Test Time: 10:30:11

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.71 V
Cooler Voltage = 1.68 V
Bias Voltage = 80 V
Chopper Freq = 527 Hz

PUMP INFO
Flow Rate = 4.292 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0429	0.0455
MIN(V)	0.0411	0.0435

FILTER INFO
Filter 1 0.045 Zero = true
Filter 2 0.555 Zero = true
Filter 3 1.416 Zero = true

CALIBRATION CHECK
Xq = 0.074 0.70%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

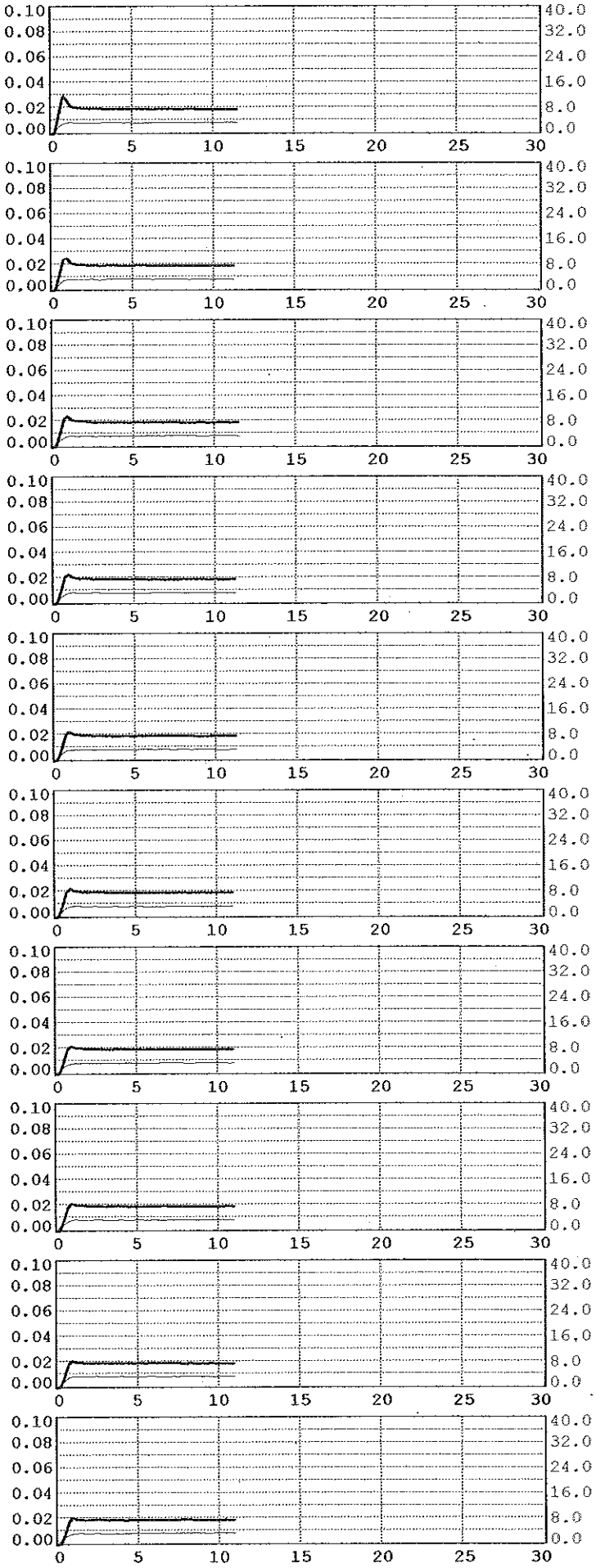
Date: 08/03/2012
Time: 10:33:04

SUPERVISOR NAME:
RCD LINEARITY TWO

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	10:33
CALIBRATION CHECK	PASSED	10:34
SIMULATOR VAPOR 34.0°C	0.020	10:34
SIMULATOR VAPOR 34.0°C	0.020	10:35
SIMULATOR VAPOR 33.9°C	0.020	10:36
SIMULATOR VAPOR 34.0°C	0.020	10:37
SIMULATOR VAPOR 34.0°C	0.020	10:38
SIMULATOR VAPOR 34.0°C	0.020	10:39
SIMULATOR VAPOR 34.0°C	0.020	10:40
SIMULATOR VAPOR 34.0°C	0.020	10:41
SIMULATOR VAPOR 34.0°C	0.020	10:42
SIMULATOR VAPOR 34.0°C	0.020	10:43
BLANK TEST	0.000	10:44

Average = 0.020
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

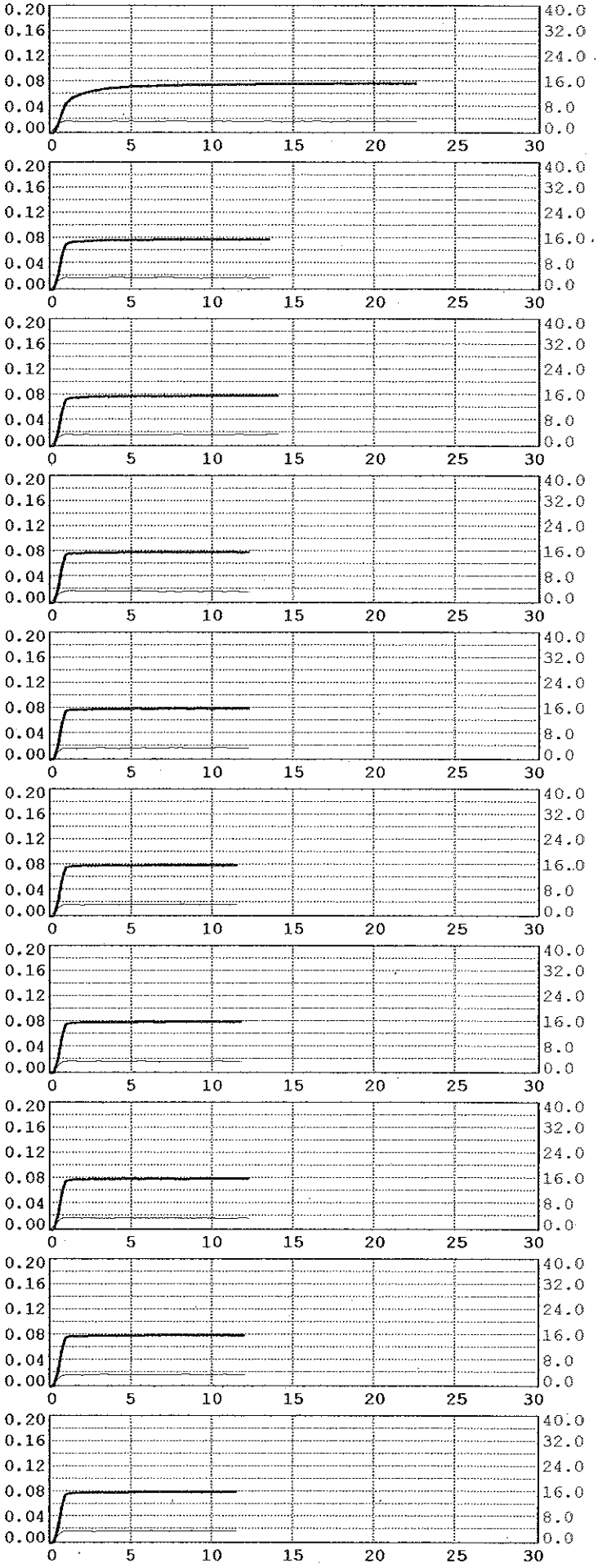
Date: 08/03/2012
Time: 10:48:07

SUPERVISOR NAME:
RCD LINEARITY TWO

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	10:49
CALIBRATION CHECK	PASSED	10:49
SIMULATOR VAPOR 33.9°C	0.078	10:49
SIMULATOR VAPOR 34.0°C	0.079	10:50
SIMULATOR VAPOR 34.0°C	0.079	10:51
SIMULATOR VAPOR 34.0°C	0.080	10:52
SIMULATOR VAPOR 34.0°C	0.080	10:53
SIMULATOR VAPOR 34.0°C	0.080	10:54
SIMULATOR VAPOR 33.9°C	0.080	10:55
SIMULATOR VAPOR 34.0°C	0.080	10:57
SIMULATOR VAPOR 34.0°C	0.080	10:58
SIMULATOR VAPOR 34.0°C	0.080	10:59
BLANK TEST	0.000	10:59

Average = 0.079
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

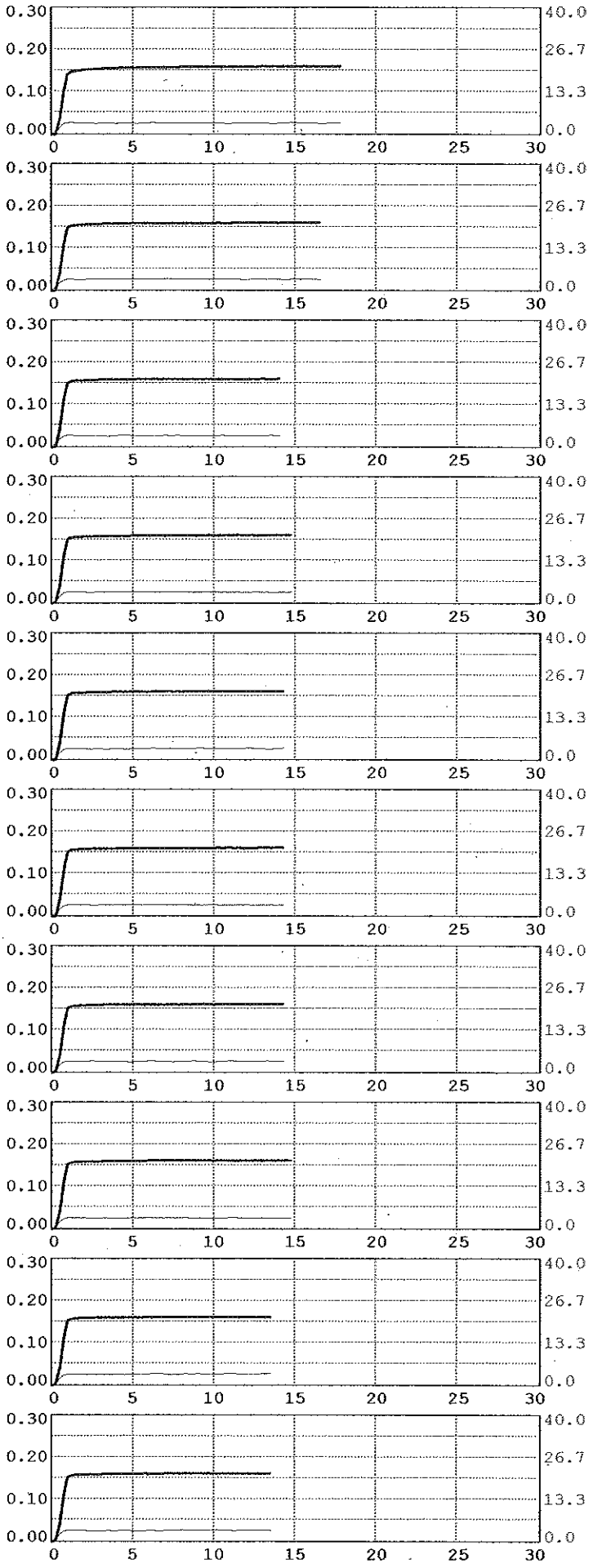
Date: 08/03/2012
Time: 11:05:28

SUPERVISOR NAME:
RCD LINEARITY TWO

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	11:06
CALIBRATION CHECK	PASSED	11:06
SIMULATOR VAPOR 34.0°C	0.160	11:06
SIMULATOR VAPOR 33.9°C	0.160	11:08
SIMULATOR VAPOR 34.0°C	0.161	11:09
SIMULATOR VAPOR 34.0°C	0.161	11:10
SIMULATOR VAPOR 34.0°C	0.161	11:11
SIMULATOR VAPOR 34.0°C	0.161	11:12
SIMULATOR VAPOR 34.0°C	0.161	11:13
SIMULATOR VAPOR 34.0°C	0.162	11:14
SIMULATOR VAPOR 34.0°C	0.161	11:15
SIMULATOR VAPOR 34.0°C	0.162	11:16
BLANK TEST	0.000	11:17

Average = 0.161
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

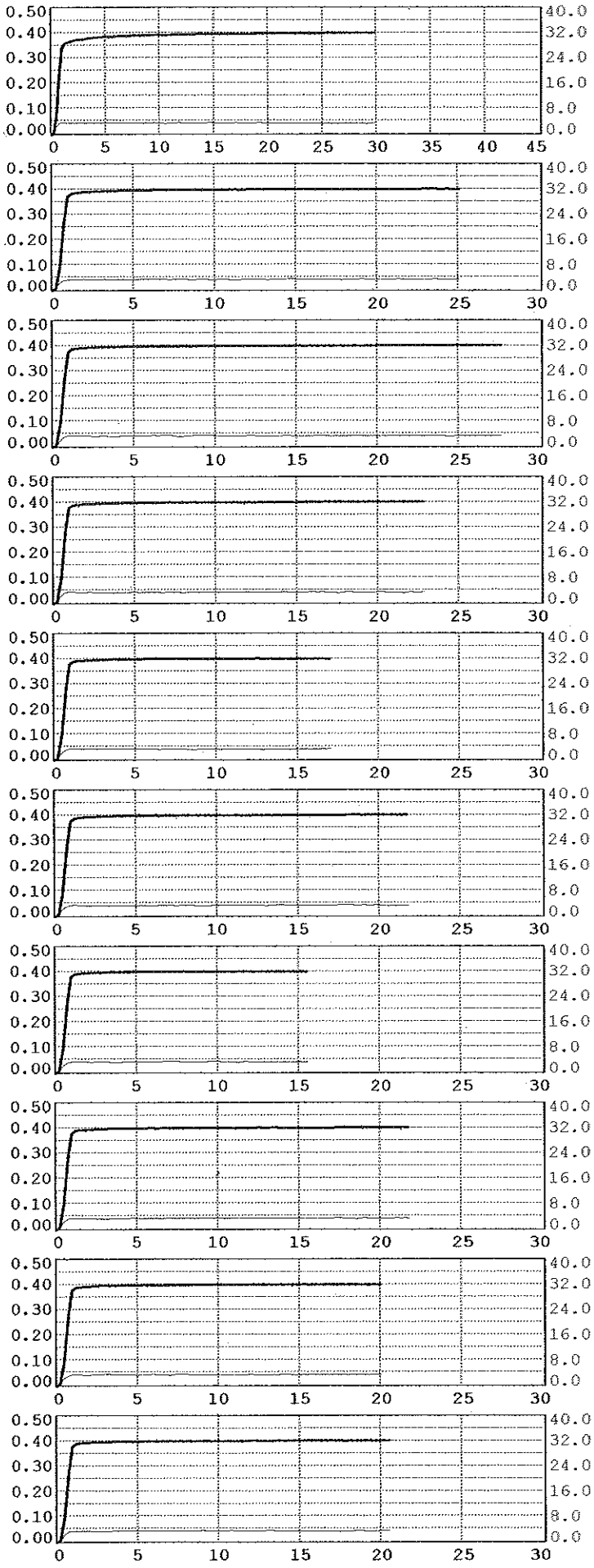
Date: 08/03/2012
Time: 11:25:44

SUPERVISOR NAME:
RCD LINEARITY TWO

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	11:26
CALIBRATION CHECK	PASSED	11:26
SIMULATOR VAPOR 33.9°C	0.397	11:27
SIMULATOR VAPOR 34.0°C	0.398	11:28
SIMULATOR VAPOR 34.0°C	0.399	11:29
SIMULATOR VAPOR 34.0°C	0.399	11:31
SIMULATOR VAPOR 34.0°C	0.398	11:32
SIMULATOR VAPOR 34.0°C	0.399	11:33
SIMULATOR VAPOR 34.0°C	0.398	11:34
SIMULATOR VAPOR 33.9°C	0.399	11:35
SIMULATOR VAPOR 34.0°C	0.398	11:37
SIMULATOR VAPOR 34.0°C	0.399	11:38
BLANK TEST	0.000	11:39

Average = 0.398
Std Dev = 0.000



DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date: 08/02/2012
Certification Date: 08/03/2012
Installation Date:
Test Date: 08/08/2012
Test Time: 13:53:08

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

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

SETTINGS
Lamp Voltage = 1.71 V
Cooler Voltage = 1.67 V
Bias Voltage = 80 V
Chopper Freq = 526 Hz

PUMP INFO
Flow Rate = 4.317 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0002	0.0026
MIN(V)	-0.0016	0.0012

FILTER INFO
Filter 1 0.001 Zero = true
Filter 2 0.515 Zero = true
Filter 3 1.368 Zero = true

CALIBRATION CHECK
Xq = 0.073 0.82%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

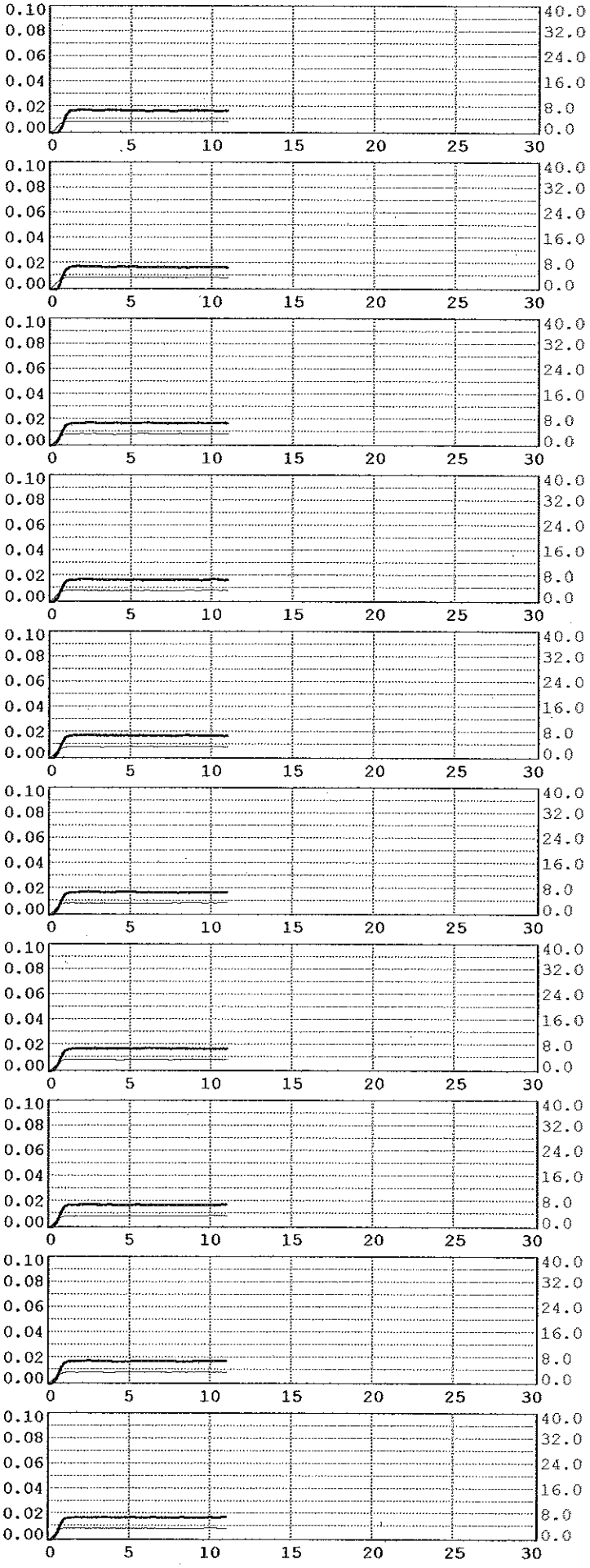
Date: 08/08/2012
Time: 13:59:02

SUPERVISOR NAME:
RCD LINEARITY THREE

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	13:59
CALIBRATION CHECK	PASSED	14:00
SIMULATOR VAPOR 34.0°C	0.018	14:00
SIMULATOR VAPOR 34.0°C	0.019	14:01
SIMULATOR VAPOR 34.0°C	0.018	14:02
SIMULATOR VAPOR 34.0°C	0.019	14:03
SIMULATOR VAPOR 34.0°C	0.019	14:04
SIMULATOR VAPOR 34.0°C	0.019	14:05
SIMULATOR VAPOR 34.0°C	0.019	14:06
SIMULATOR VAPOR 33.9°C	0.019	14:07
SIMULATOR VAPOR 34.0°C	0.019	14:08
SIMULATOR VAPOR 34.0°C	0.018	14:09
BLANK TEST	0.000	14:10

Average = 0.018
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

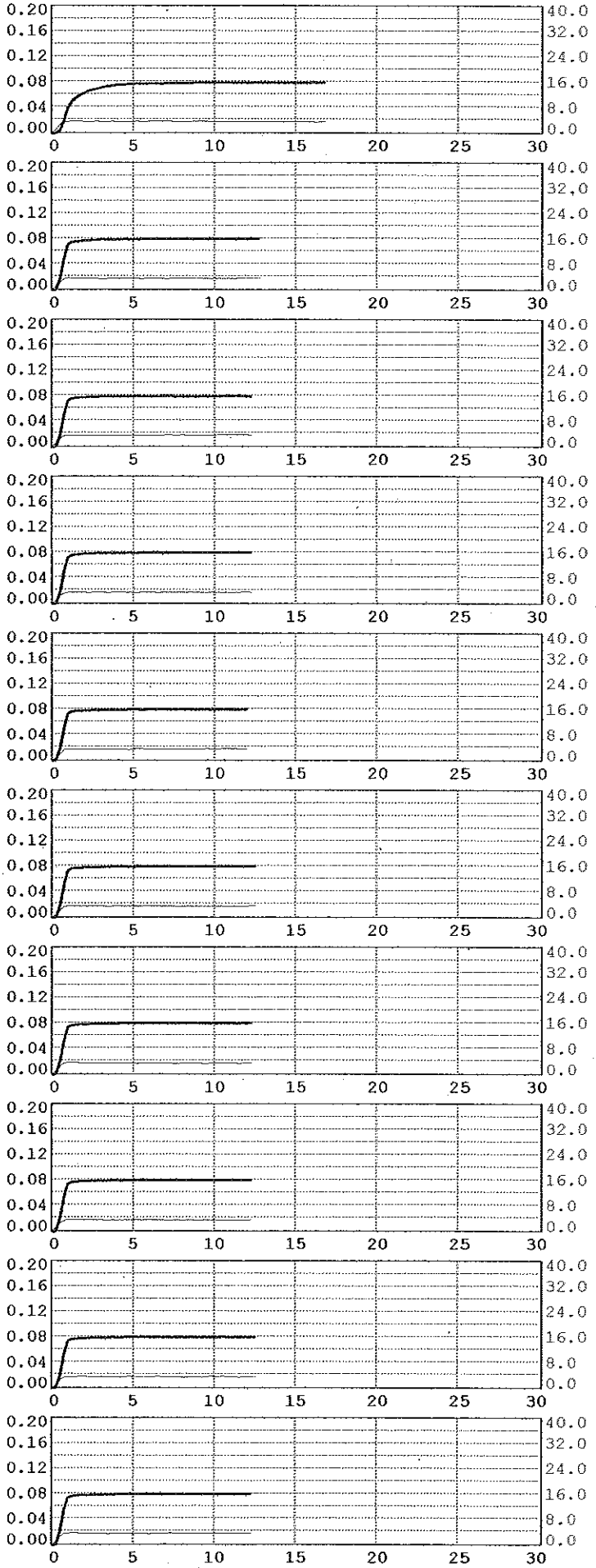
Date: 08/08/2012
Time: 14:12:12

SUPERVISOR NAME:
RCD LINEARITY THREE

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	14:13
CALIBRATION CHECK	PASSED	14:13
SIMULATOR VAPOR 34.0°C	0.080	14:13
SIMULATOR VAPOR 33.9°C	0.080	14:14
SIMULATOR VAPOR 34.0°C	0.080	14:15
SIMULATOR VAPOR 33.9°C	0.080	14:16
SIMULATOR VAPOR 34.0°C	0.080	14:17
SIMULATOR VAPOR 34.0°C	0.080	14:18
SIMULATOR VAPOR 34.0°C	0.080	14:19
SIMULATOR VAPOR 34.0°C	0.080	14:20
SIMULATOR VAPOR 34.0°C	0.080	14:22
SIMULATOR VAPOR 33.9°C	0.080	14:23
BLANK TEST	0.000	14:23

Average = 0.080
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

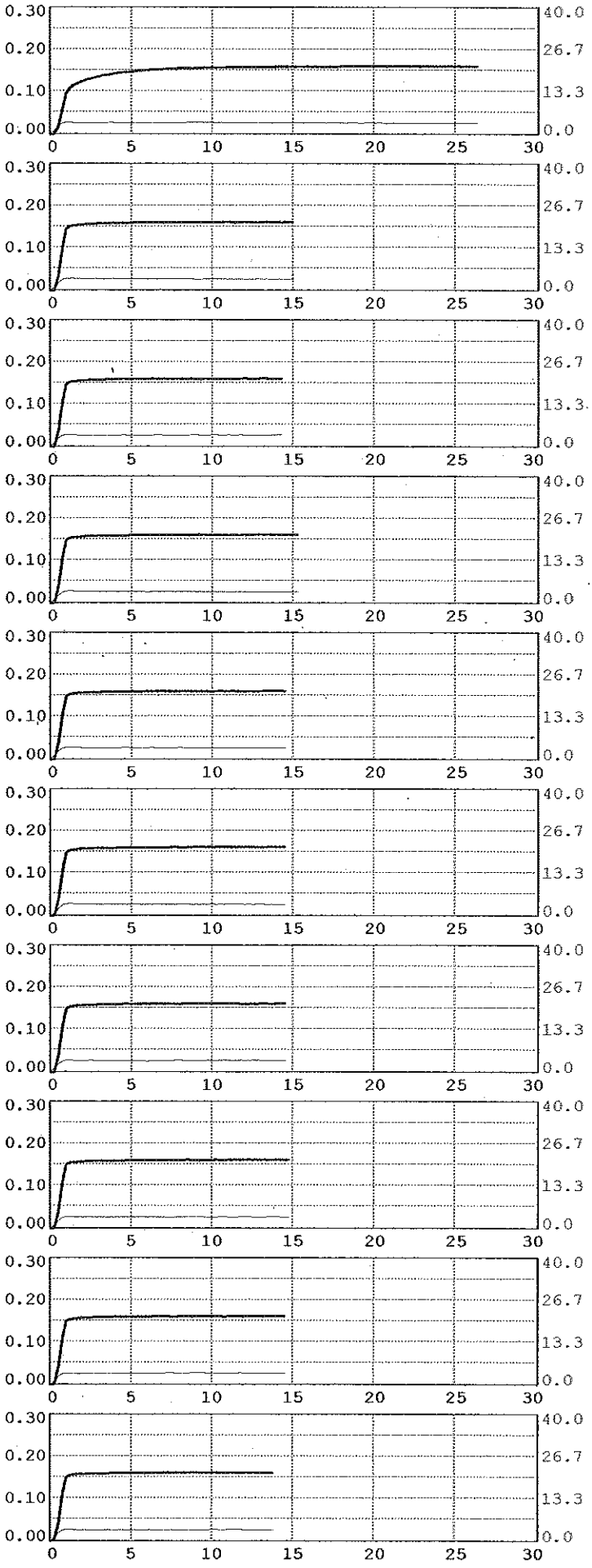
Date: 08/08/2012
Time: 14:27:02

SUPERVISOR NAME:
RCD LINEARITY THREE

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	14:27
CALIBRATION CHECK	PASSED	14:28
SIMULATOR VAPOR 33.9°C	0.161	14:28
SIMULATOR VAPOR 33.9°C	0.161	14:29
SIMULATOR VAPOR 34.0°C	0.161	14:30
SIMULATOR VAPOR 33.9°C	0.161	14:31
SIMULATOR VAPOR 33.8°C	0.161	14:32
SIMULATOR VAPOR 33.9°C	0.161	14:34
SIMULATOR VAPOR 33.9°C	0.161	14:35
SIMULATOR VAPOR 33.9°C	0.161	14:36
SIMULATOR VAPOR 34.0°C	0.161	14:37
SIMULATOR VAPOR 34.0°C	0.161	14:38
BLANK TEST	0.000	14:39

Average = 0.161
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

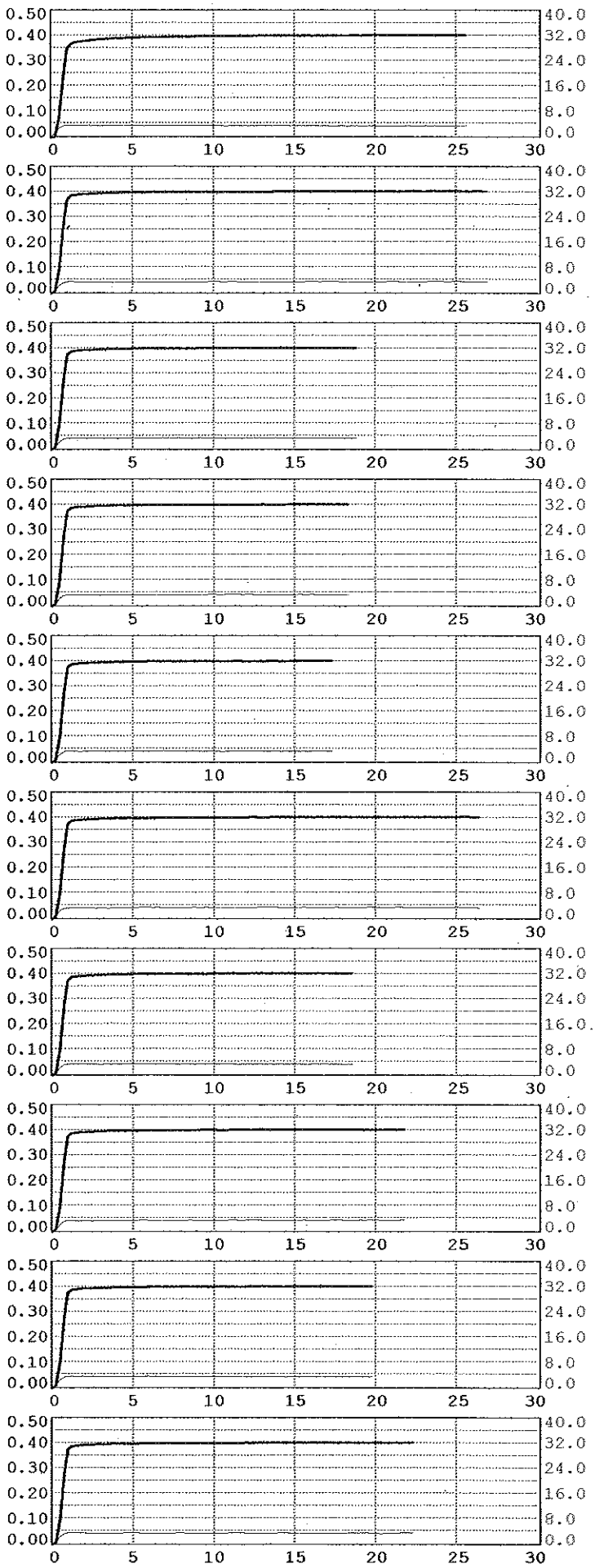
Date: 08/08/2012
Time: 14:46:33

SUPERVISOR NAME:
RCD LINEARITY THREE

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	14:47
CALIBRATION CHECK	PASSED	14:47
SIMULATOR VAPOR 33.9°C	0.399	14:48
SIMULATOR VAPOR 33.9°C	0.400	14:49
SIMULATOR VAPOR 34.0°C	0.400	14:50
SIMULATOR VAPOR 34.0°C	0.399	14:51
SIMULATOR VAPOR 34.0°C	0.398	14:52
SIMULATOR VAPOR 34.0°C	0.400	14:54
SIMULATOR VAPOR 34.0°C	0.399	14:55
SIMULATOR VAPOR 34.0°C	0.400	14:56
SIMULATOR VAPOR 34.0°C	0.399	14:57
SIMULATOR VAPOR 33.9°C	0.400	14:59
BLANK TEST	0.000	14:59

Average = 0.399
Std Dev = 0.000



DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date: 08/02/2012
Certification Date: 08/03/2012
Installation Date:
Test Date: 08/09/2012
Test Time: 08:29:57

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.6°C
Breath Tube = 48.1°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.71 V
Cooler Voltage = 1.68 V
Bias Voltage = 80 V
Chopper Freq = 527 Hz

PUMP INFO
Flow Rate = 4.327 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0028	0.0057
MIN(V)	0.0006	0.0039

FILTER INFO
Filter 1 0.004 Zero = true
Filter 2 0.517 Zero = true
Filter 3 1.372 Zero = true

CALIBRATION CHECK
Xq = 0.074 0.23%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

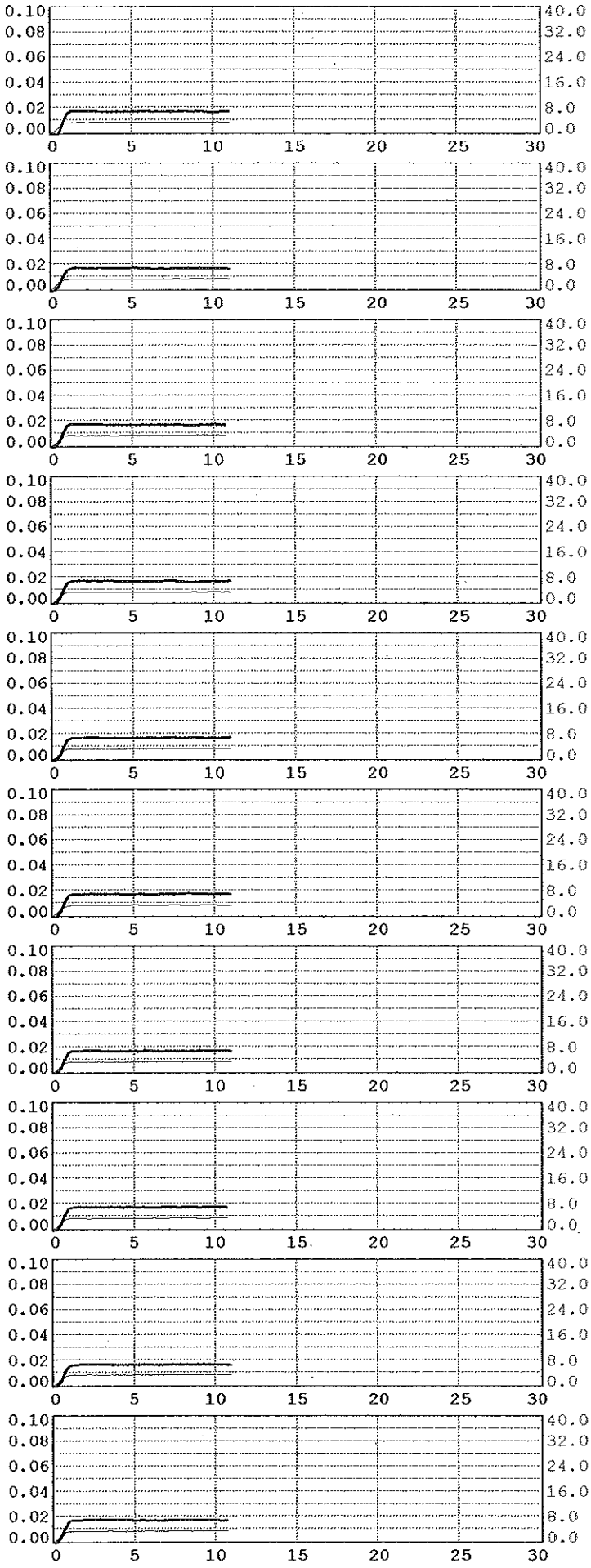
Date: 08/09/2012
Time: 08:33:37

SUPERVISOR NAME:
RCD LINEARITY FOUR

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	08:34
CALIBRATION CHECK	PASSED	08:34
SIMULATOR VAPOR 34.0°C	0.018	08:34
SIMULATOR VAPOR 34.0°C	0.018	08:35
SIMULATOR VAPOR 34.0°C	0.018	08:36
SIMULATOR VAPOR 34.0°C	0.019	08:37
SIMULATOR VAPOR 34.0°C	0.019	08:39
SIMULATOR VAPOR 33.8°C	0.019	08:40
SIMULATOR VAPOR 34.0°C	0.019	08:41
SIMULATOR VAPOR 33.9°C	0.019	08:42
SIMULATOR VAPOR 34.0°C	0.018	08:43
SIMULATOR VAPOR 34.0°C	0.019	08:44
BLANK TEST	0.000	08:44

Average = 0.018
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

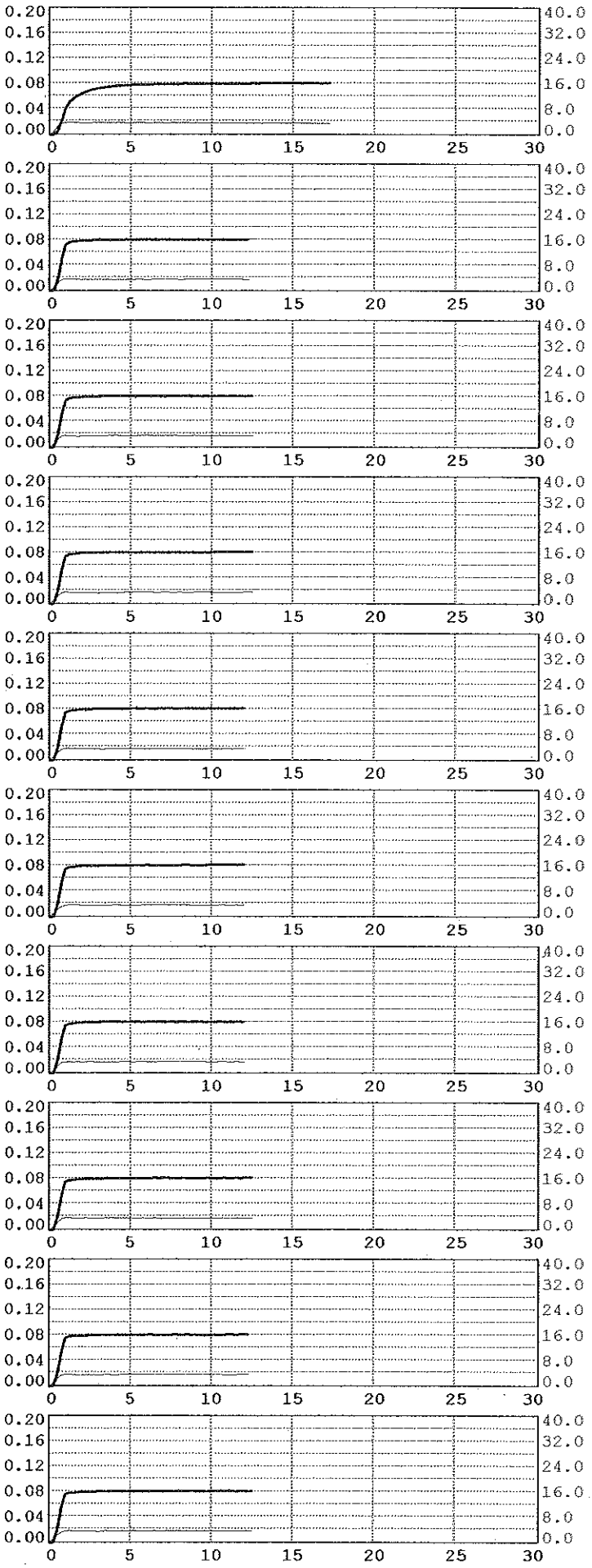
Date: 08/09/2012
Time: 08:46:52

SUPERVISOR NAME:
RCD LINEARITY FOUR

SOLUTION LOT #: 12-63-080
SOLUTION CONCENTRATION: 0.081

BLANK TEST	0.000	08:47
CALIBRATION CHECK	PASSED	08:47
SIMULATOR VAPOR 34.0°C	0.081	08:48
SIMULATOR VAPOR 34.1°C	0.081	08:49
SIMULATOR VAPOR 34.1°C	0.081	08:50
SIMULATOR VAPOR 33.9°C	0.081	08:51
SIMULATOR VAPOR 34.0°C	0.082	08:52
SIMULATOR VAPOR 33.9°C	0.081	08:53
SIMULATOR VAPOR 33.9°C	0.081	08:54
SIMULATOR VAPOR 33.9°C	0.081	08:55
SIMULATOR VAPOR 34.0°C	0.081	08:56
SIMULATOR VAPOR 33.9°C	0.081	08:57
BLANK TEST	0.000	08:58

Average = 0.081
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

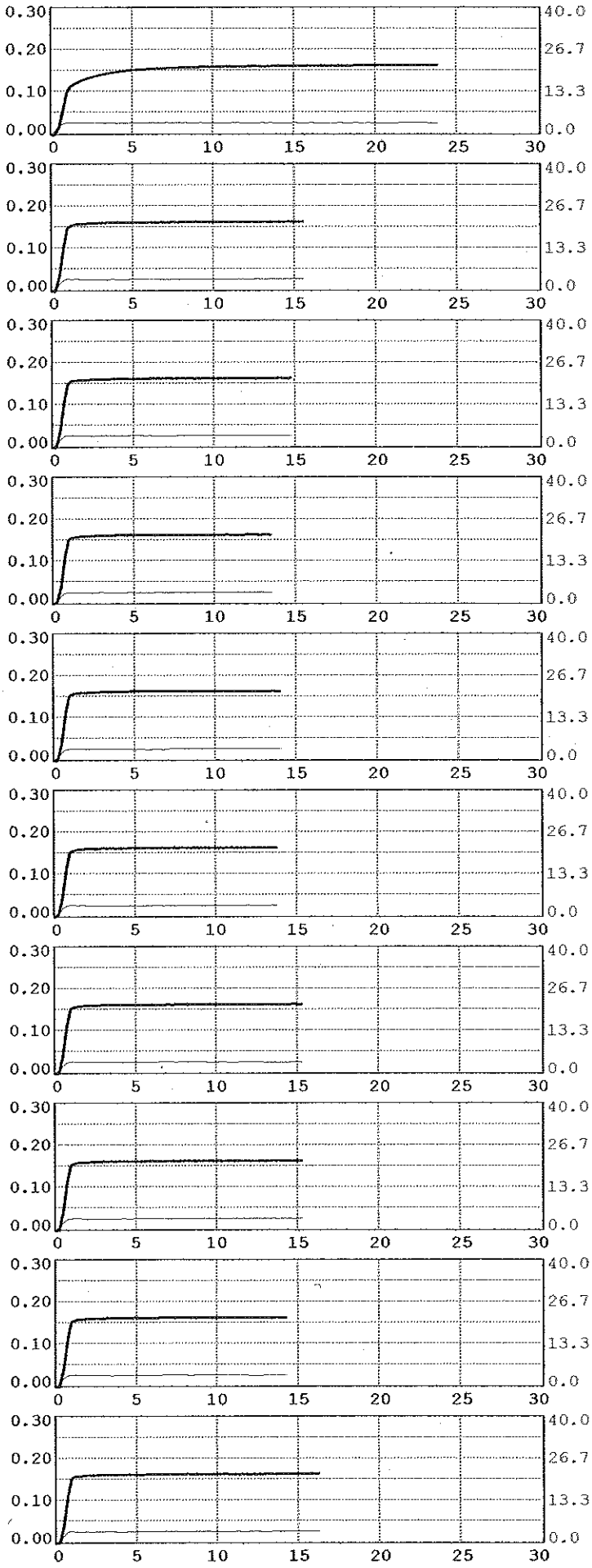
Date: 08/09/2012
Time: 09:10:45

SUPERVISOR NAME:
RCD LINEARITY FOUR

SOLUTION LOT #: 12-83-160
SOLUTION CONCENTRATION: 0.157

BLANK TEST	0.000	09:11
CALIBRATION CHECK	PASSED	09:11
SIMULATOR VAPOR 34.0°C	0.162	09:12
SIMULATOR VAPOR 34.0°C	0.163	09:13
SIMULATOR VAPOR 34.0°C	0.163	09:14
SIMULATOR VAPOR 33.9°C	0.163	09:15
SIMULATOR VAPOR 34.0°C	0.163	09:16
SIMULATOR VAPOR 34.0°C	0.163	09:17
SIMULATOR VAPOR 33.9°C	0.163	09:18
SIMULATOR VAPOR 34.0°C	0.163	09:19
SIMULATOR VAPOR 34.0°C	0.163	09:21
SIMULATOR VAPOR 34.0°C	0.164	09:22
BLANK TEST	0.000	09:23

Average = 0.163
Std Dev = 0.000



DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date: 08/02/2012
Certification Date: 08/03/2012
Installation Date:
Test Date: 08/09/2012
Test Time: 09:25:46

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.71 V
Cooler Voltage = 1.68 V
Bias Voltage = 80 V
Chopper Freq = 528 Hz

PUMP INFO
Flow Rate = 4.304 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0278	0.0293
MIN(V)	0.0258	0.0276

FILTER INFO
Filter 1 0.028 Zero = true
Filter 2 0.541 Zero = true
Filter 3 1.400 Zero = true

CALIBRATION CHECK
Xq = 0.074 0.23%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

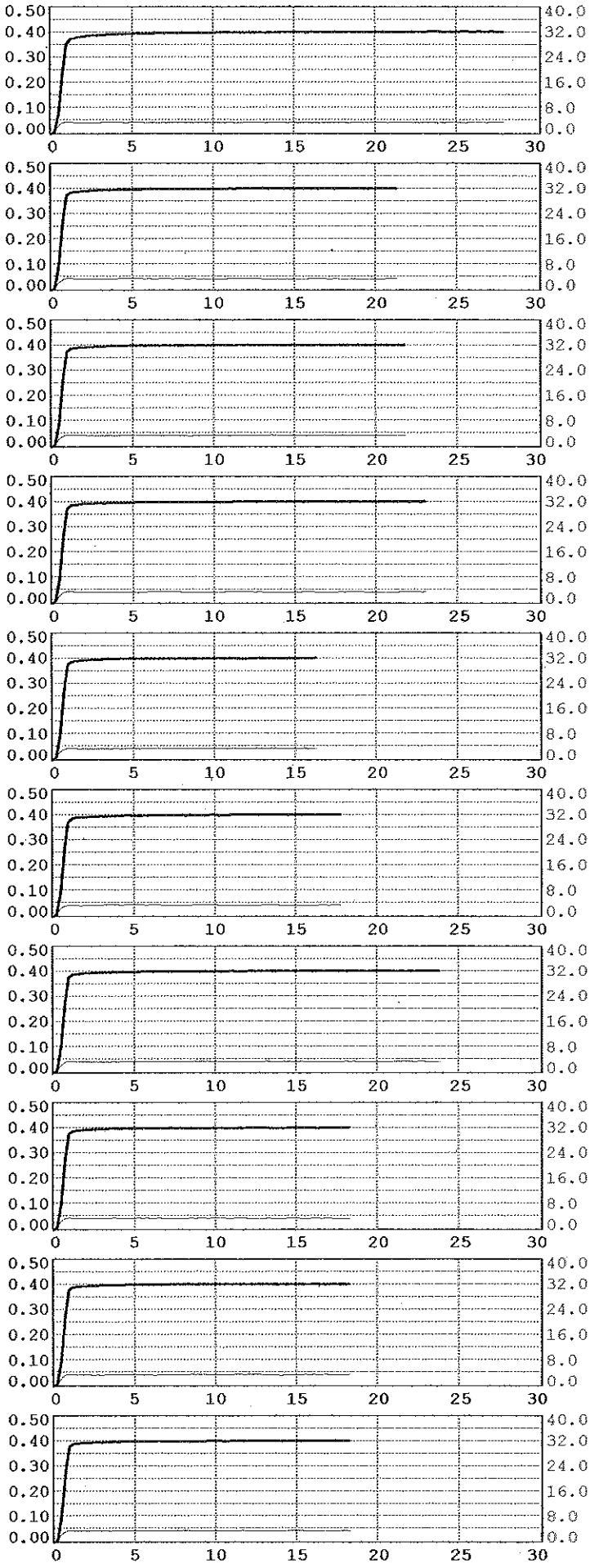
Date: 08/09/2012
Time: 09:30:45

SUPERVISOR NAME:
RCD LINEARITY FOUR

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	09:31
CALIBRATION CHECK	PASSED	09:31
SIMULATOR VAPOR 33.9°C	0.400	09:32
SIMULATOR VAPOR 34.0°C	0.400	09:33
SIMULATOR VAPOR 34.0°C	0.400	09:34
SIMULATOR VAPOR 34.0°C	0.400	09:36
SIMULATOR VAPOR 33.9°C	0.399	09:37
SIMULATOR VAPOR 34.0°C	0.398	09:38
SIMULATOR VAPOR 34.0°C	0.400	09:39
SIMULATOR VAPOR 34.0°C	0.399	09:40
SIMULATOR VAPOR 34.0°C	0.400	09:41
SIMULATOR VAPOR 34.0°C	0.399	09:43
BLANK TEST	0.000	09:43

Average = 0.399
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

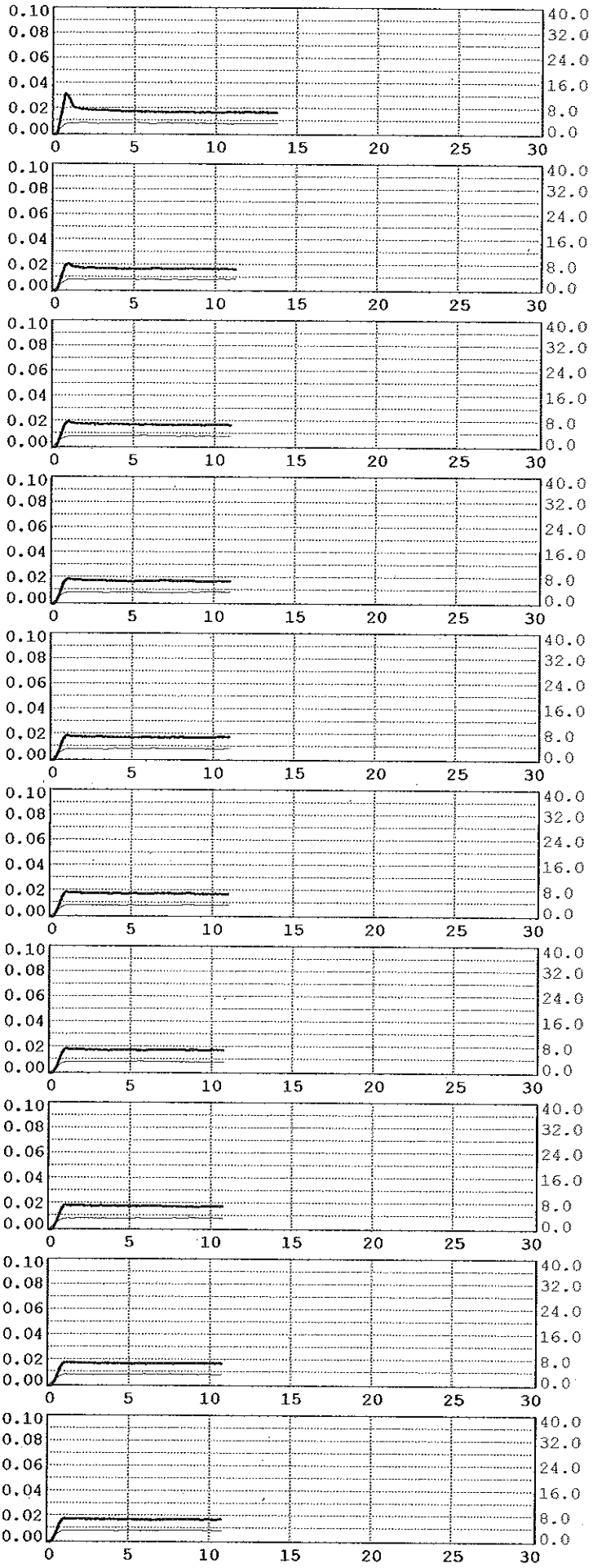
Date: 08/09/2012
Time: 10:44:53

SUPERVISOR NAME:
TLC LINEARITY FIVE

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	10:45
CALIBRATION CHECK	PASSED	10:45
SIMULATOR VAPOR 34.0°C	0.019	10:46
SIMULATOR VAPOR 33.9°C	0.018	10:47
SIMULATOR VAPOR 34.0°C	0.019	10:48
SIMULATOR VAPOR 34.0°C	0.019	10:49
SIMULATOR VAPOR 33.9°C	0.019	10:50
SIMULATOR VAPOR 34.0°C	0.019	10:51
SIMULATOR VAPOR 33.9°C	0.019	10:52
SIMULATOR VAPOR 33.9°C	0.019	10:53
SIMULATOR VAPOR 34.0°C	0.018	10:54
SIMULATOR VAPOR 34.0°C	0.019	10:55
BLANK TEST	0.000	10:56

Average = 0.018
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

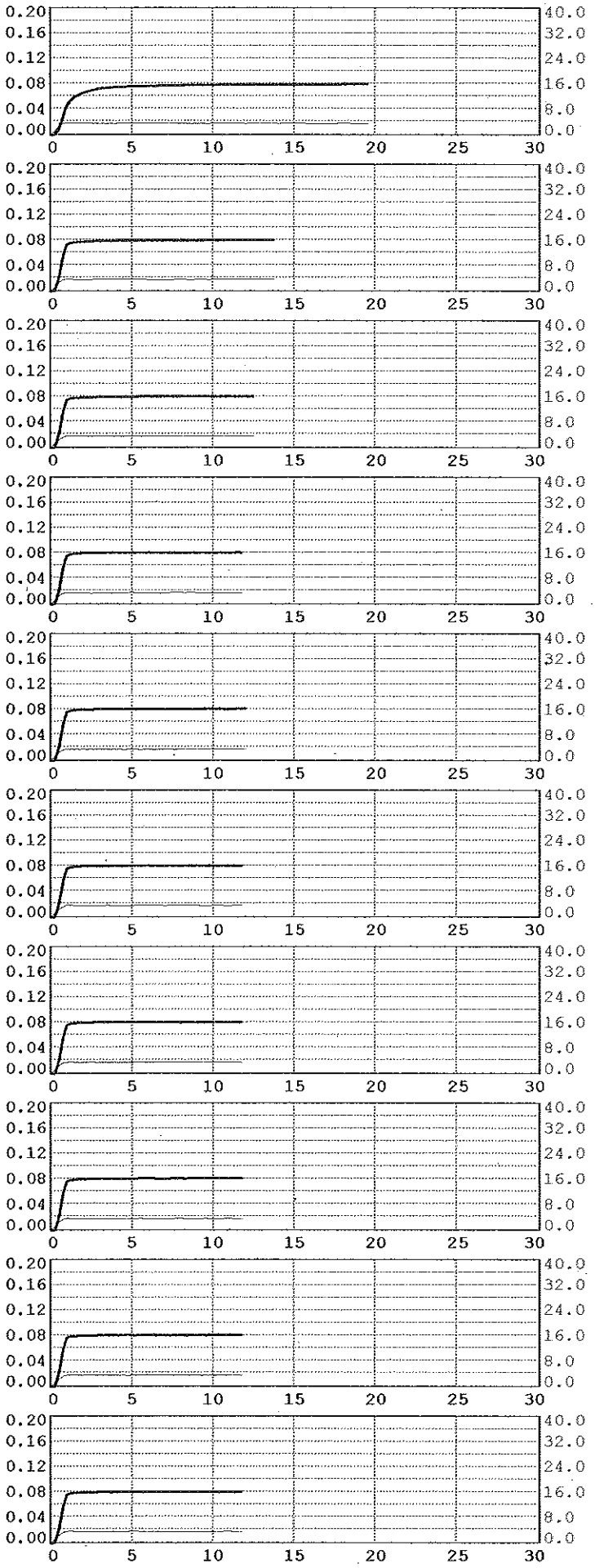
Date: 08/09/2012
Time: 10:58:50

SUPERVISOR NAME:
TLC LINEARITY FIVE

SOLUTION LOT #: 12-63-080
SOLUTION CONCENTRATION: 0.081

BLANK TEST	0.000	10:59
CALIBRATION CHECK	PASSED	10:59
SIMULATOR VAPOR 34.0°C	0.080	11:00
SIMULATOR VAPOR 34.0°C	0.081	11:01
SIMULATOR VAPOR 33.9°C	0.081	11:02
SIMULATOR VAPOR 34.0°C	0.081	11:03
SIMULATOR VAPOR 33.9°C	0.081	11:04
SIMULATOR VAPOR 33.9°C	0.081	11:05
SIMULATOR VAPOR 34.0°C	0.081	11:06
SIMULATOR VAPOR 33.9°C	0.082	11:07
SIMULATOR VAPOR 34.0°C	0.081	11:08
SIMULATOR VAPOR 34.0°C	0.081	11:09
BLANK TEST	0.000	11:10

Average = 0.081
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

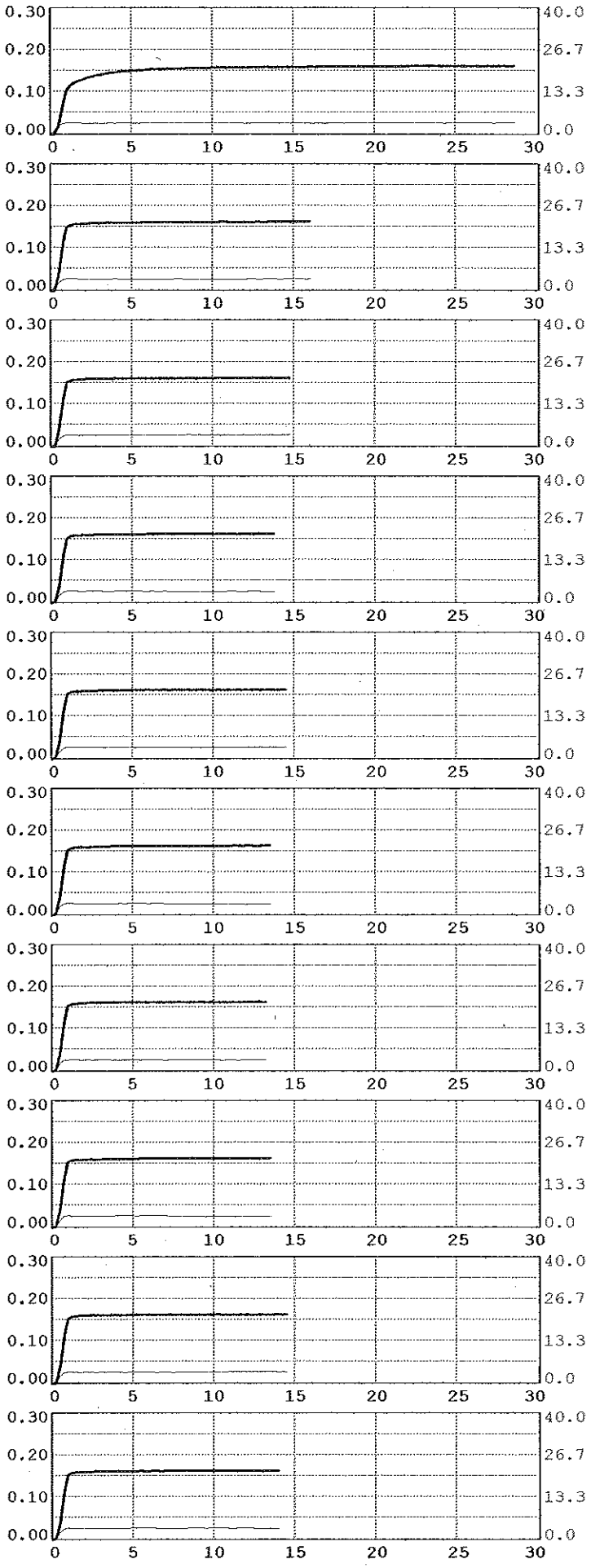
Date: 08/09/2012
Time: 11:14:24

SUPERVISOR NAME:
TLC LINEARITY FIVE

SOLUTION LOT #: 12-83-160
SOLUTION CONCENTRATION: 0.157

BLANK TEST	0.000	11:15
CALIBRATION CHECK	PASSED	11:15
SIMULATOR VAPOR 33.9°C	0.161	11:15
SIMULATOR VAPOR 34.0°C	0.162	11:17
SIMULATOR VAPOR 34.1°C	0.163	11:18
SIMULATOR VAPOR 33.9°C	0.163	11:19
SIMULATOR VAPOR 33.9°C	0.163	11:20
SIMULATOR VAPOR 34.0°C	0.163	11:21
SIMULATOR VAPOR 34.0°C	0.163	11:22
SIMULATOR VAPOR 33.9°C	0.163	11:23
SIMULATOR VAPOR 34.0°C	0.163	11:24
SIMULATOR VAPOR 34.0°C	0.163	11:25
BLANK TEST	0.000	11:26

Average = 0.162
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

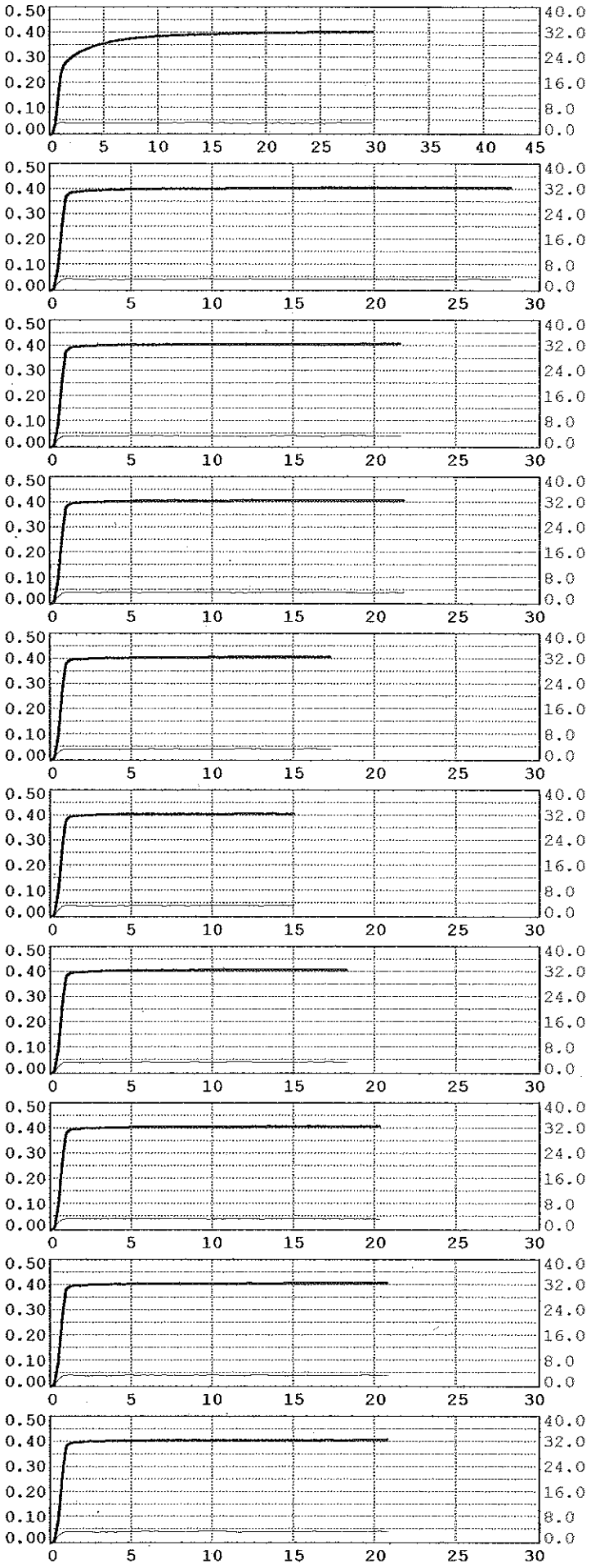
Date: 08/09/2012
Time: 11:28:41

SUPERVISOR NAME:
TLC LINEARITY FIVE

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	11:29
CALIBRATION CHECK	PASSED	11:29
SIMULATOR VAPOR 33.9°C	0.400	11:30
SIMULATOR VAPOR 34.0°C	0.404	11:31
SIMULATOR VAPOR 34.0°C	0.405	11:32
SIMULATOR VAPOR 33.9°C	0.405	11:34
SIMULATOR VAPOR 33.9°C	0.405	11:35
SIMULATOR VAPOR 34.0°C	0.404	11:36
SIMULATOR VAPOR 33.9°C	0.405	11:37
SIMULATOR VAPOR 33.9°C	0.405	11:38
SIMULATOR VAPOR 33.9°C	0.405	11:39
SIMULATOR VAPOR 34.0°C	0.404	11:41
BLANK TEST	0.000	11:42

Average = 0.404
Std Dev = 0.001



102806

SECTION 4

INTERFERENCE TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date: 08/02/2012
Certification Date: 08/03/2012
Installation Date:
Test Date: 08/03/2012
Test Time: 13:13:23

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.71 V
Cooler Voltage = 1.67 V
Bias Voltage = 80 V
Chopper Freq = 524 Hz

PUMP INFO
Flow Rate = 4.281 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0177	0.0217
MIN(V)	0.0159	0.0199

FILTER INFO
Filter 1 0.022 Zero = true
Filter 2 0.534 Zero = true
Filter 3 1.388 Zero = true

CALIBRATION CHECK
Xq = 0.074 0.00%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

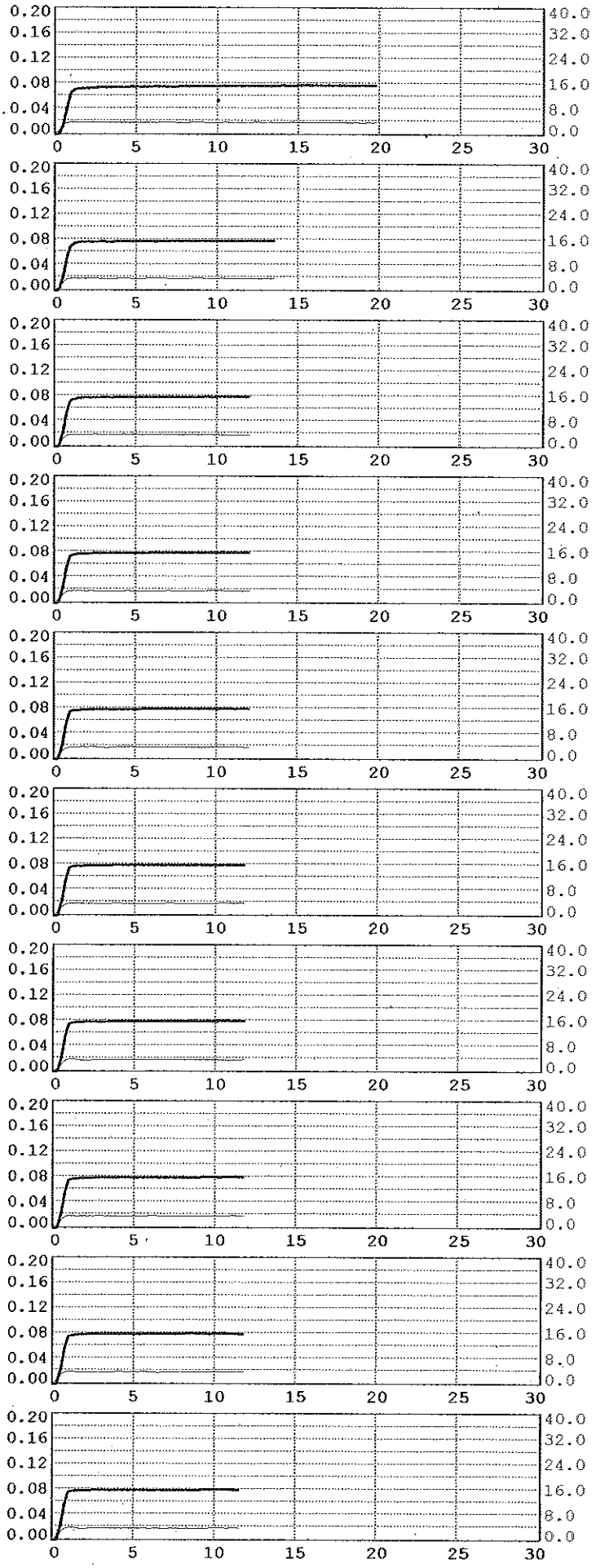
Date: 08/03/2012
Time: 13:21:43

SUPERVISOR NAME:
RCD INTERFERENCE ONE

SOLUTION LOT #: 12-79-08A1
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:22
CALIBRATION CHECK	PASSED	13:22
Xq = 0.073 (0.35%)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:23
X[1] = 0.0786 (-0.0052) (0.0010)		
SIMULATOR VAPOR 34.0°C	0.079	13:24
X[1] = 0.0795 (-0.0049) (0.0003)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:25
X[1] = 0.0798 (-0.0053) (0.0007)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:26
X[1] = 0.0799 (-0.0055) (-0.0003)		
SIMULATOR VAPOR 33.9°C INTERFERENCE		13:27
X[1] = 0.0800 (-0.0055) (0.0000)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:28
X[1] = 0.0802 (-0.0056) (-0.0003)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:29
X[1] = 0.0804 (-0.0057) (0.0001)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:30
X[1] = 0.0805 (-0.0060) (0.0004)		
SIMULATOR VAPOR 33.9°C INTERFERENCE		13:31
X[1] = 0.0804 (-0.0060) (-0.0004)		
SIMULATOR VAPOR 34.0°C INTERFERENCE		13:32
X[1] = 0.0804 (-0.0058) (0.0000)		
BLANK TEST	0.000	13:33

0.01% Acet. in
0.08% EtOH RCD



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

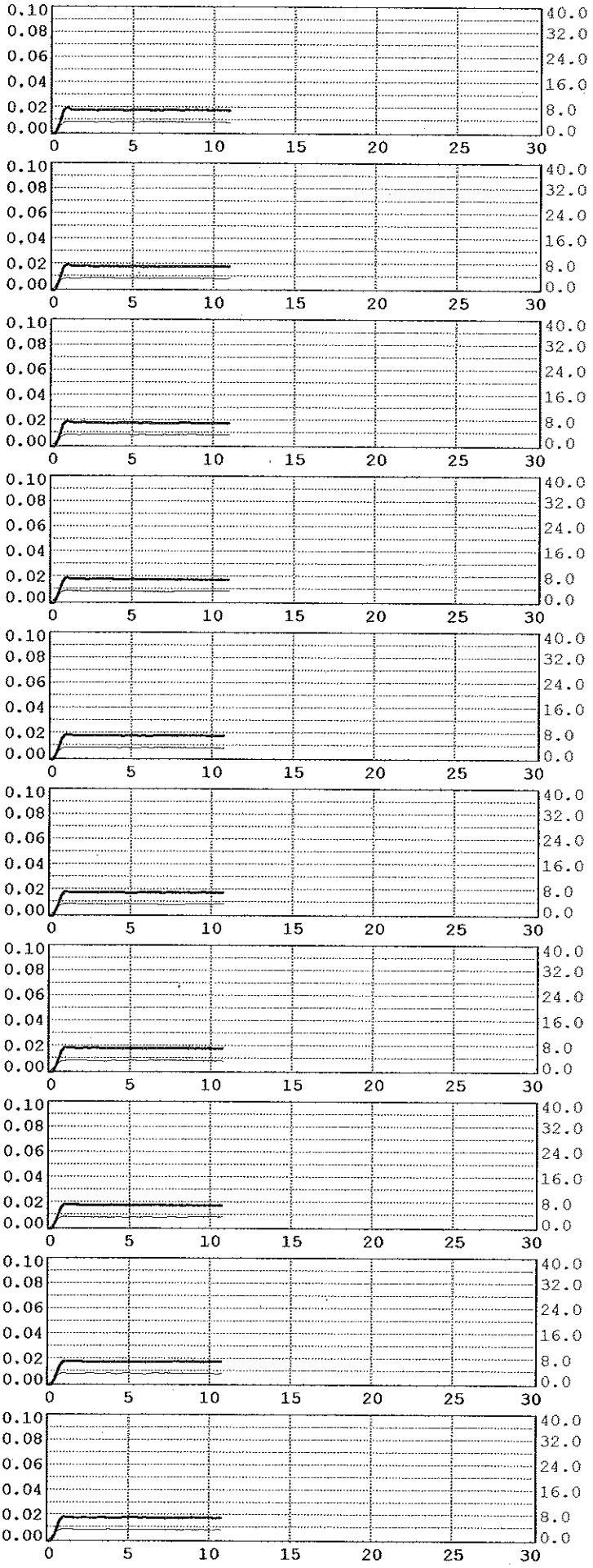
Date: 08/03/2012
Time: 13:41:53

SUPERVISOR NAME:
RCD INTERFERENCE TWO

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

BLANK TEST	0.000	13:42
CALIBRATION CHECK	PASSED	13:42
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:43
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:44
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:45
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:46
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:47
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:48
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:49
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:50
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:51
SIMULATOR VAPOR 34.0°C	INTERFERENCE	13:52
BLANK TEST	0.000	13:53

0.04% MeOH in H_2O
RCD



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

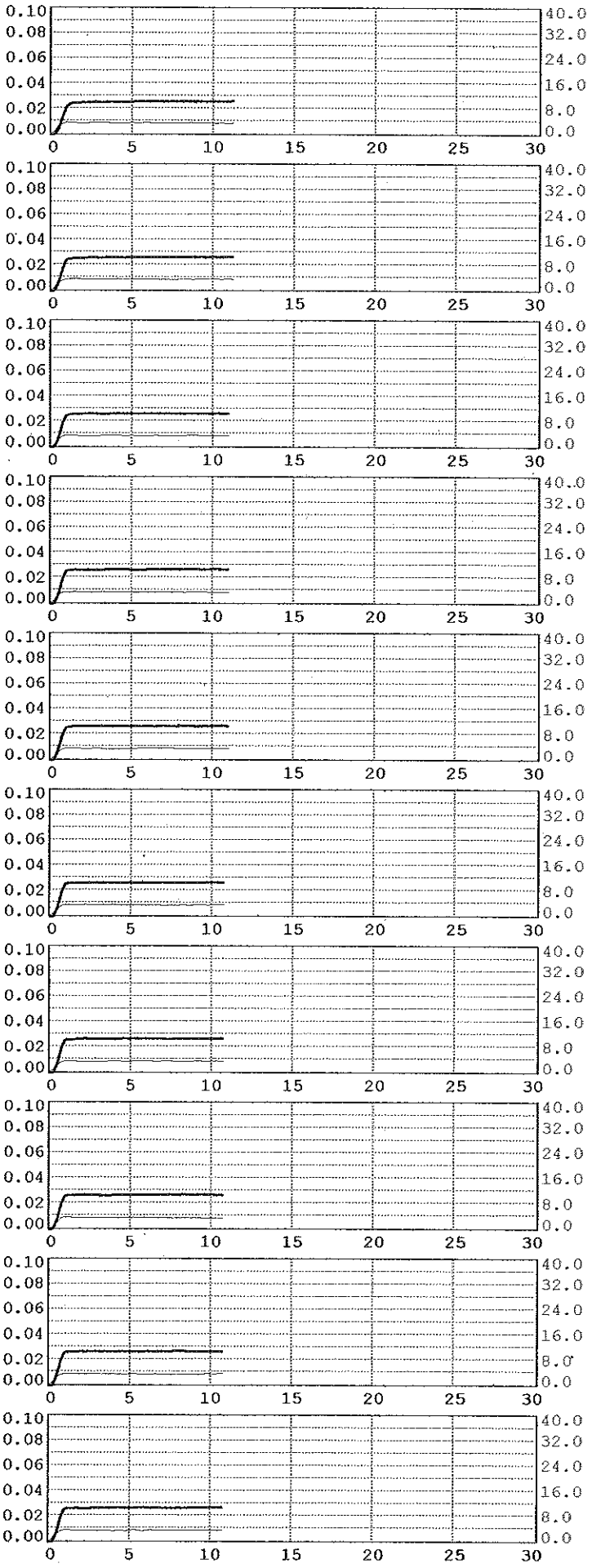
Date: 08/03/2012
Time: 14:05:01

SUPERVISOR NAME:
RCD INTERFERENCE THREE

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

BLANK TEST	0.000	14:05
CALIBRATION CHECK	PASSED	14:06
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:06
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:07
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:08
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:09
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:10
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:11
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:12
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:13
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:14
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:15
BLANK TEST	0.000	14:16

0.04% IPA in H_2O
RCD



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

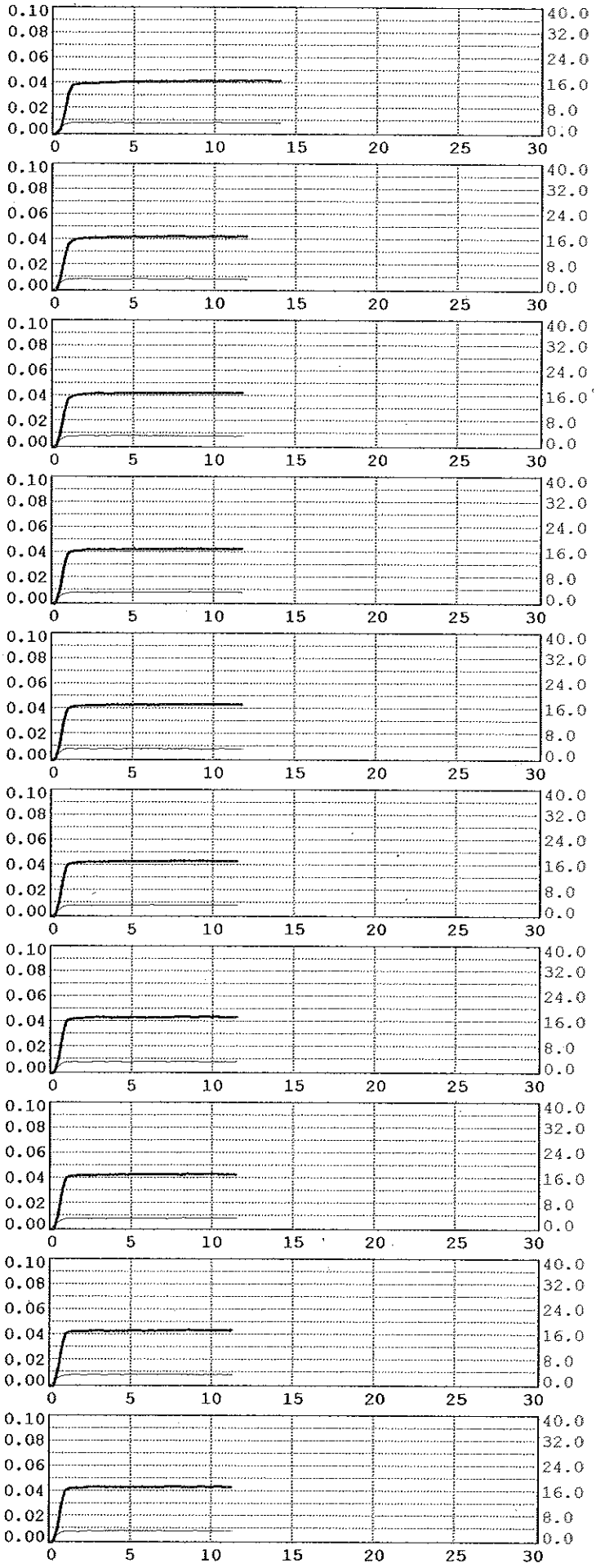
Date: 08/03/2012
Time: 14:24:49

SUPERVISOR NAME:
RCD INTERFERENCE FOUR

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

BLANK TEST	0.000	14:25
CALIBRATION CHECK	PASSED	14:25
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:26
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:27
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:28
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:29
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:30
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:31
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:32
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:33
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:34
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:35
BLANK TEST	0.000	14:36

0.01% Acet. in
0.04% EtOH
RCD



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

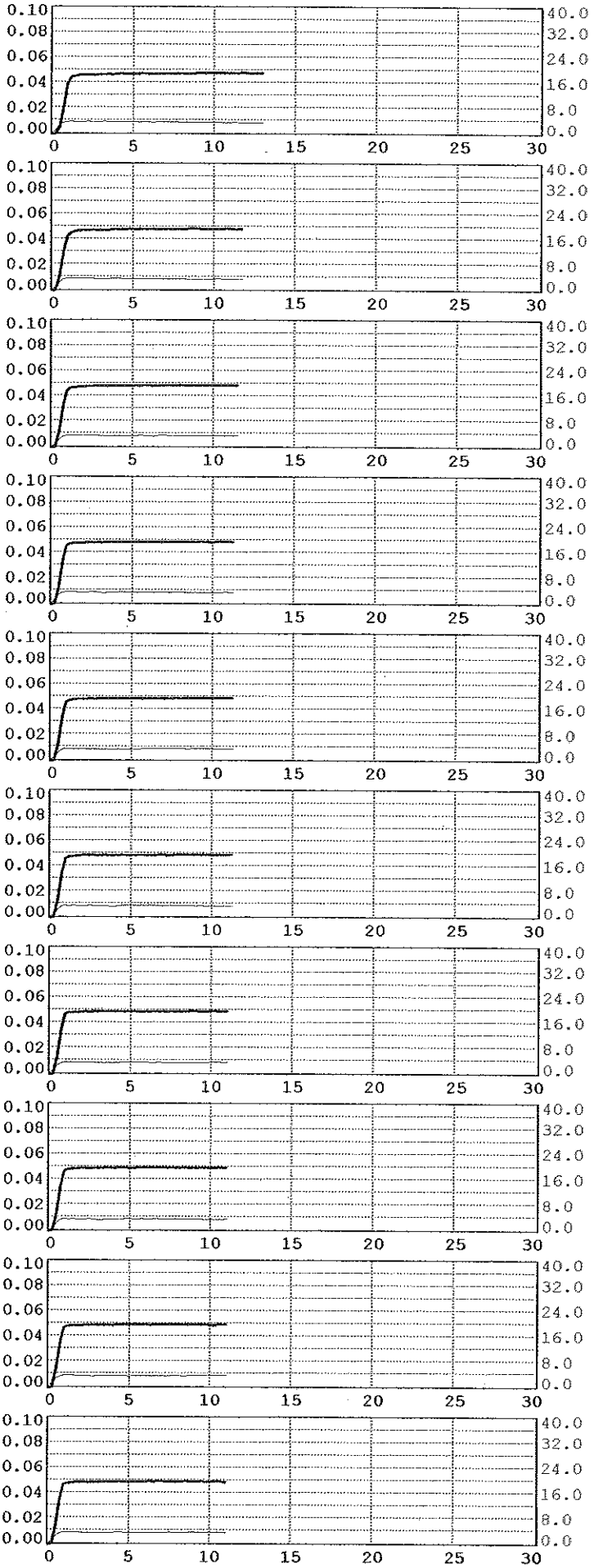
Date: 08/03/2012
Time: 14:45:43

SUPERVISOR NAME:
RCD INTERFERENCE FIVE

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

BLANK TEST	0.000	14:46
CALIBRATION CHECK	PASSED	14:46
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:47
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:48
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:49
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:50
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:51
SIMULATOR VAPOR 33.9°C	INTERFERENCE	14:52
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:53
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:54
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:55
SIMULATOR VAPOR 34.0°C	INTERFERENCE	14:56
BLANK TEST	0.000	14:57

0.02% Acet. in
0.04% EtOH
RCD



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

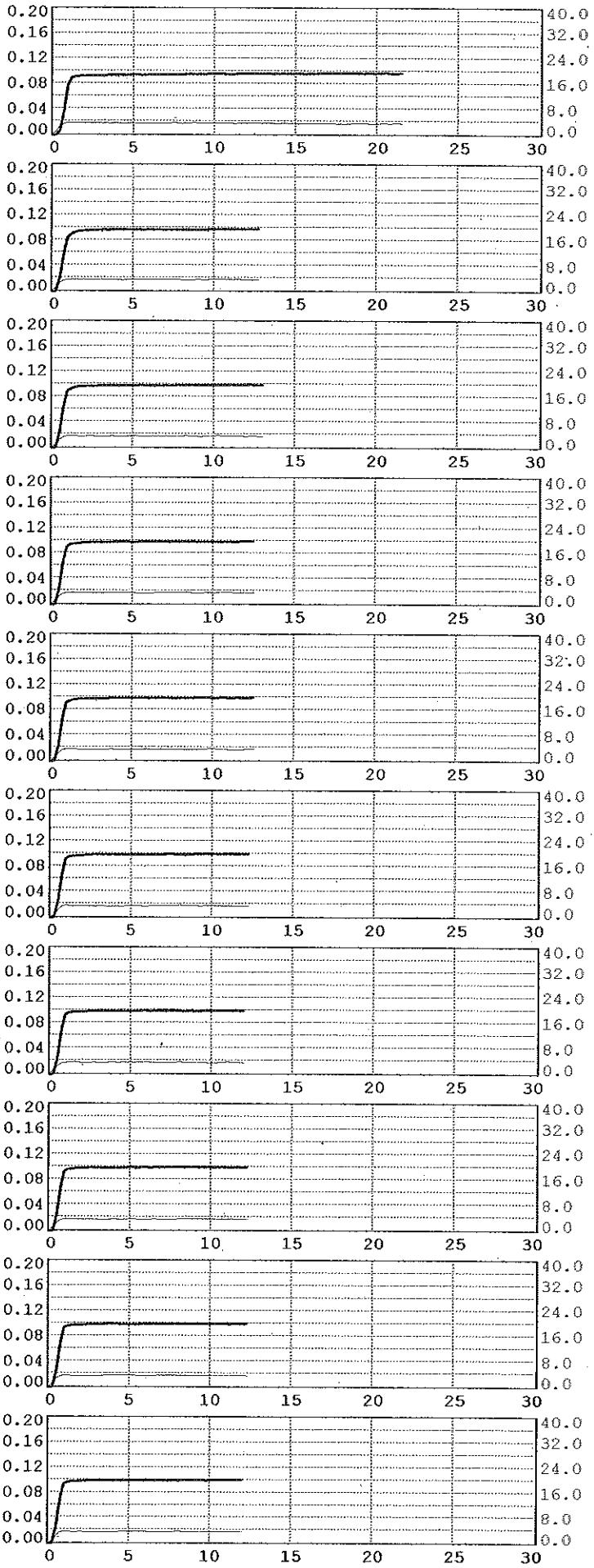
Date: 08/03/2012
Time: 15:06:02

SUPERVISOR NAME:
RCD INTERFERENCE SIX

SOLUTION LOT #: 12-63-080M
SOLUTION CONCENTRATION: 0.081

BLANK TEST	0.000	15:06
CALIBRATION CHECK	PASSED	15:07
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:07
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:08
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:09
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:10
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:11
SIMULATOR VAPOR 33.9°C	INTERFERENCE	15:12
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:13
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:14
SIMULATOR VAPOR 33.9°C	INTERFERENCE	15:15
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:17
BLANK TEST	0.000	15:17

0.04% MeOH in
0.08% EtOH
RCD



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

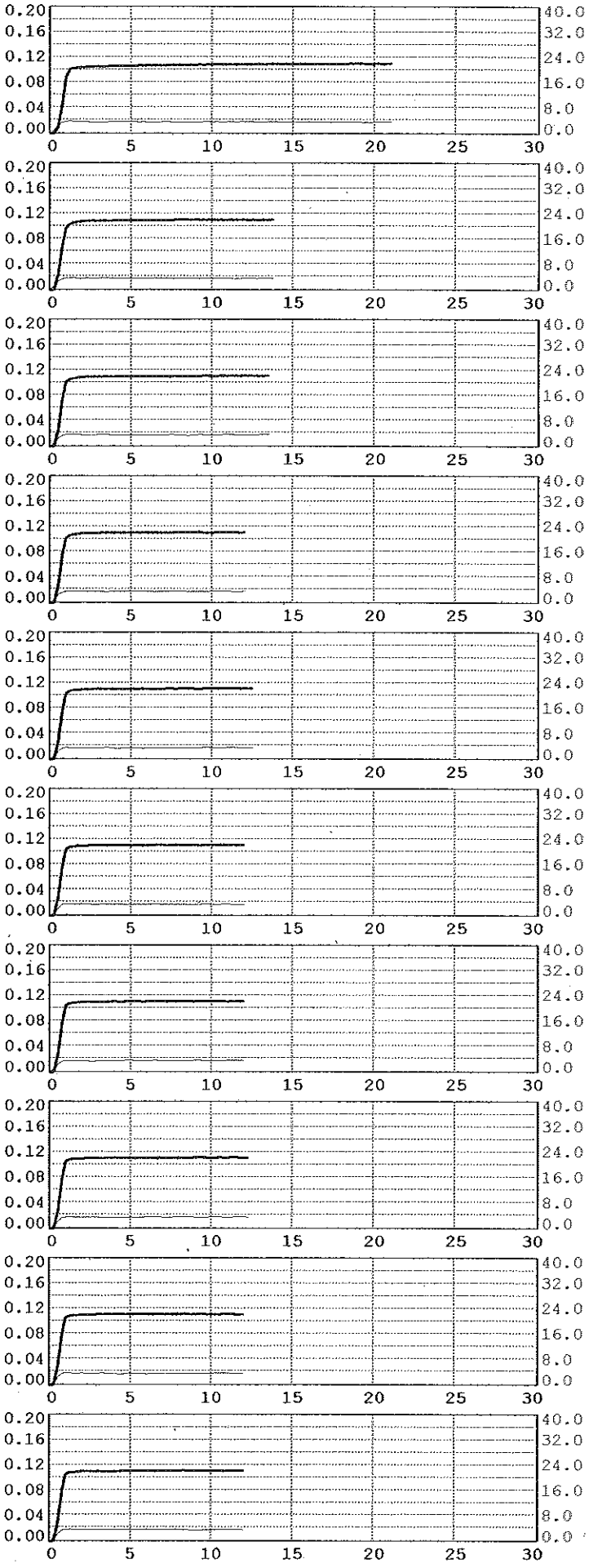
Date: 08/03/2012
Time: 15:21:45

SUPERVISOR NAME:
RCD INTERFERENCE SEVEN

SOLUTION LOT #: 12-63-080I
SOLUTION CONCENTRATION: 0.081

BLANK TEST	0.000	15:22
CALIBRATION CHECK	PASSED	15:22
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:23
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:24
SIMULATOR VAPOR 33.9°C	INTERFERENCE	15:25
SIMULATOR VAPOR 33.9°C	INTERFERENCE	15:26
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:27
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:28
SIMULATOR VAPOR 33.9°C	INTERFERENCE	15:29
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:30
SIMULATOR VAPOR 33.9°C	INTERFERENCE	15:31
SIMULATOR VAPOR 34.0°C	INTERFERENCE	15:32
BLANK TEST	0.000	15:33

0.04% IPA in
0.08% EtOH
RCD



102806

SECTION 5

FINAL CALIBRATION CHECK TESTS

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

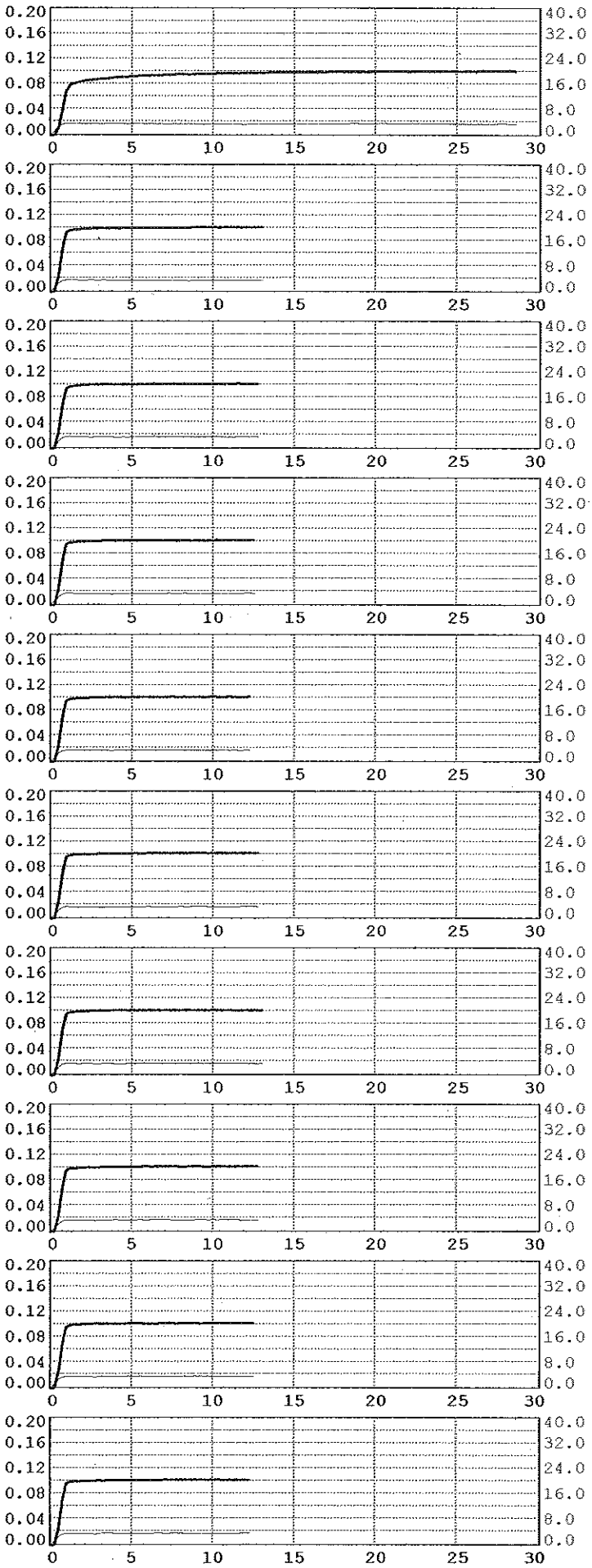
Date: 08/09/2012
Time: 13:28:16

SUPERVISOR NAME:
RCD CAL CHECK TWO

SOLUTION LOT #: 12-61-100
SOLUTION CONCENTRATION: 0.101

BLANK TEST	0.000	13:29
CALIBRATION CHECK	PASSED	13:29
SIMULATOR VAPOR 34.0°C	0.101	13:29
SIMULATOR VAPOR 33.9°C	0.102	13:30
SIMULATOR VAPOR 33.9°C	0.102	13:31
SIMULATOR VAPOR 33.9°C	0.102	13:33
SIMULATOR VAPOR 34.0°C	0.102	13:34
SIMULATOR VAPOR 33.9°C	0.102	13:35
SIMULATOR VAPOR 34.0°C	0.102	13:36
SIMULATOR VAPOR 34.0°C	0.102	13:37
SIMULATOR VAPOR 33.9°C	0.102	13:38
SIMULATOR VAPOR 34.0°C	0.102	13:39
BLANK TEST	0.000	13:40

Average = 0.101
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

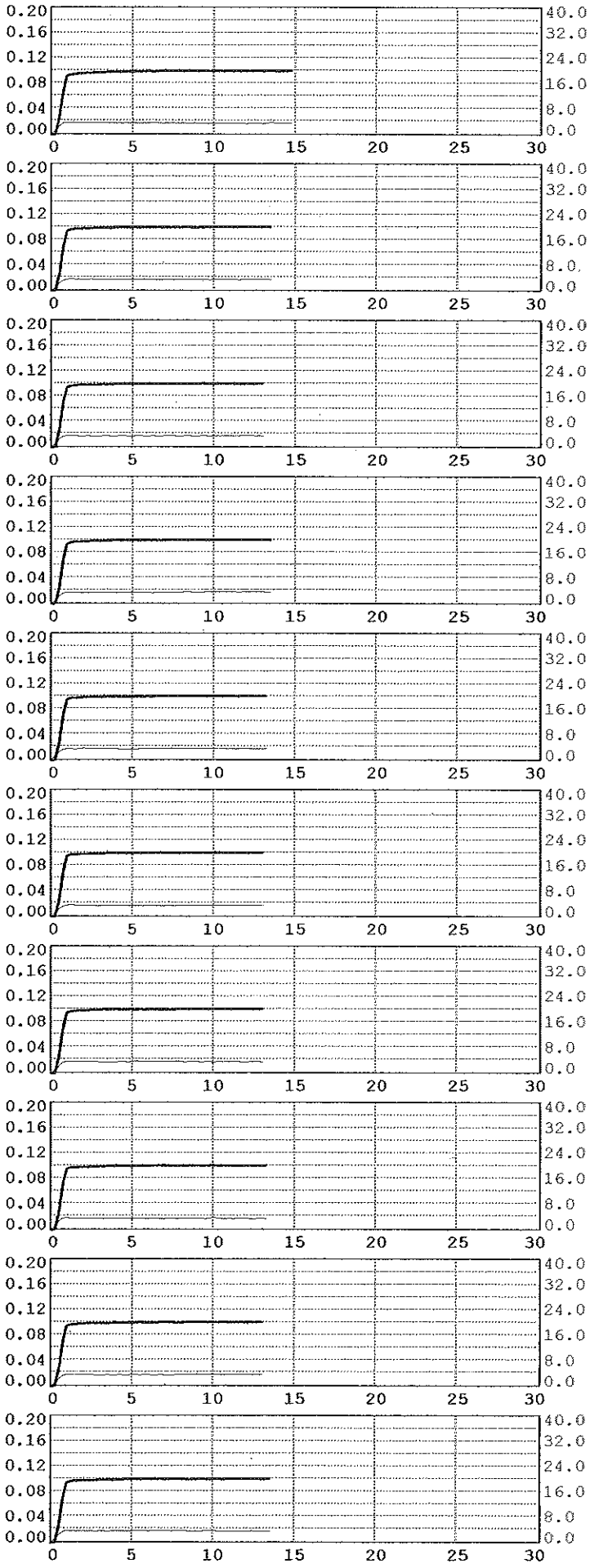
Date: 08/09/2012
Time: 13:42:54

SUPERVISOR NAME:
RCD GUTH CAL CHK TWO

SOLUTION LOT #: GUTH 11250
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	13:43
CALIBRATION CHECK	PASSED	13:43
SIMULATOR VAPOR 33.9°C	0.100	13:44
SIMULATOR VAPOR 33.9°C	0.100	13:45
SIMULATOR VAPOR 33.9°C	0.100	13:46
SIMULATOR VAPOR 34.0°C	0.100	13:47
SIMULATOR VAPOR 33.9°C	0.101	13:48
SIMULATOR VAPOR 33.9°C	0.101	13:49
SIMULATOR VAPOR 34.0°C	0.101	13:50
SIMULATOR VAPOR 34.0°C	0.101	13:51
SIMULATOR VAPOR 34.0°C	0.101	13:52
SIMULATOR VAPOR 33.9°C	0.100	13:53
BLANK TEST	0.000	13:54

Average = 0.100
Std Dev = 0.000



102806

SECTION 6

ERROR REPORTS

DataMaster DMT Serial Number ~~103406~~ 102806 RCD

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)									
7/26/12 RCD	0.997420 RCD	33.9	12-39-100	0.098		7/26/12 RCD							
		33.8	Gvtm 11250	0.098									

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)
7/30/12 RCD	7/30/12 RCD							

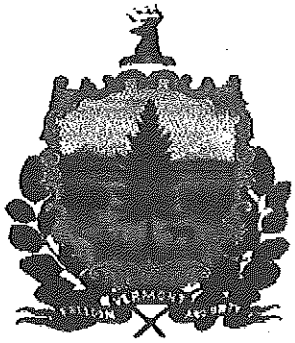
Page 52 of 85 RCD

Notes:

Filter 3 interference : Pulled filter block, cleaned, and reinstalled RCD 7/31/12

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

CALIBRATION REPORT



DataMaster DMT: 102806
Calibration Date: 07/26/2012
Calibrated by: ROBERT DRISCOLL
Lot: 12-71-100

Ca = 0.100			
CAL = 0.997420	0.800	<= CAL <	1.200
b1 = 0.000	0.000	<= b1 <	0.004
b2 = 0.004	0.002	<= b2 <	0.010
b3 = 0.002	0.000	<= b3 <	0.004
Xq = 0.078	0.050	<= Xq <	0.200
a21 = 1.147786	1.050	<= a21 <	1.300
a31 = 0.482197	0.300	<= a31 <	0.800

Performed by _____ Date 07/26/2012

Cal Check

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

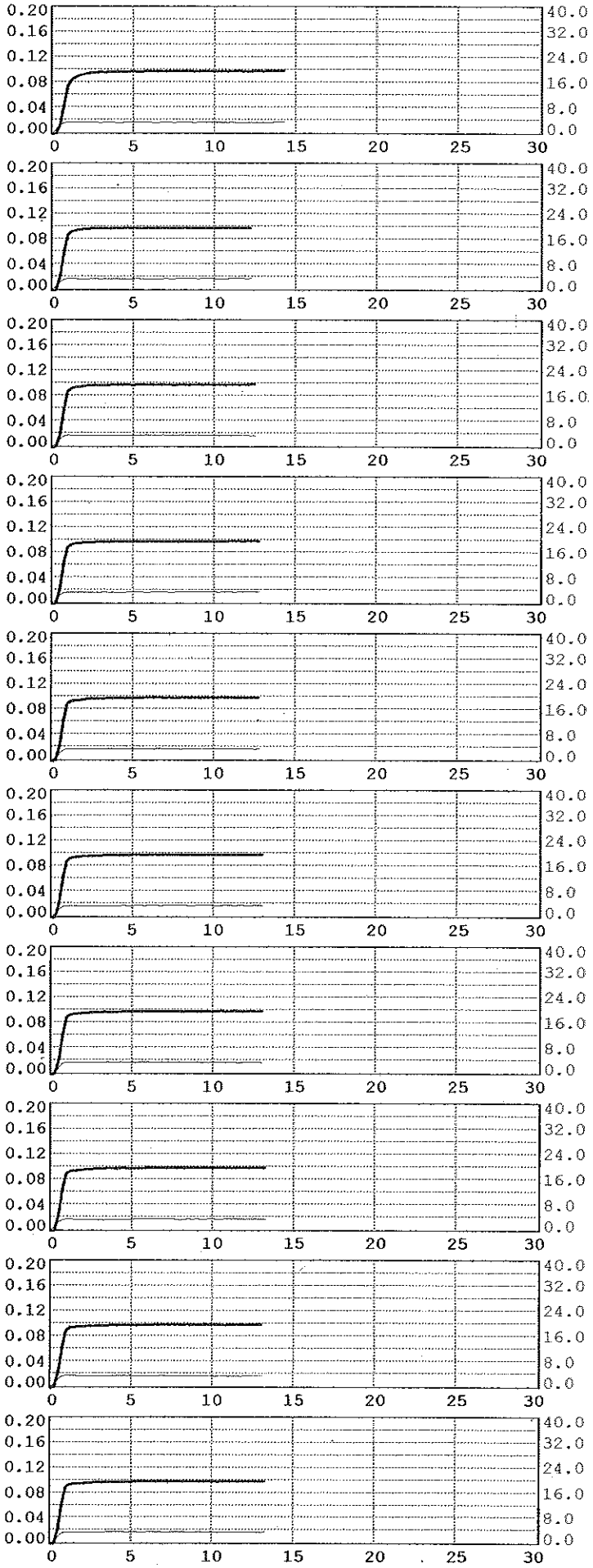
Date: 07/26/2012
Time: 10:09:32

SUPERVISOR NAME:
RCD CAL CHECK

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

BLANK TEST	0.000	10:10
CALIBRATION CHECK	PASSED	10:10
SIMULATOR VAPOR 34.2°C	0.099	10:10
SIMULATOR VAPOR 34.4°C	0.098	10:11
SIMULATOR VAPOR 34.4°C	0.099	10:12
SIMULATOR VAPOR 34.2°C	0.099	10:14
SIMULATOR VAPOR 34.2°C	0.099	10:15
SIMULATOR VAPOR 34.2°C	0.099	10:16
SIMULATOR VAPOR 34.1°C	0.099	10:17
SIMULATOR VAPOR 34.2°C	0.099	10:18
SIMULATOR VAPOR 34.2°C	0.099	10:19
SIMULATOR VAPOR 34.2°C	0.099	10:20
BLANK TEST	0.000	10:21

Average = 0.098
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

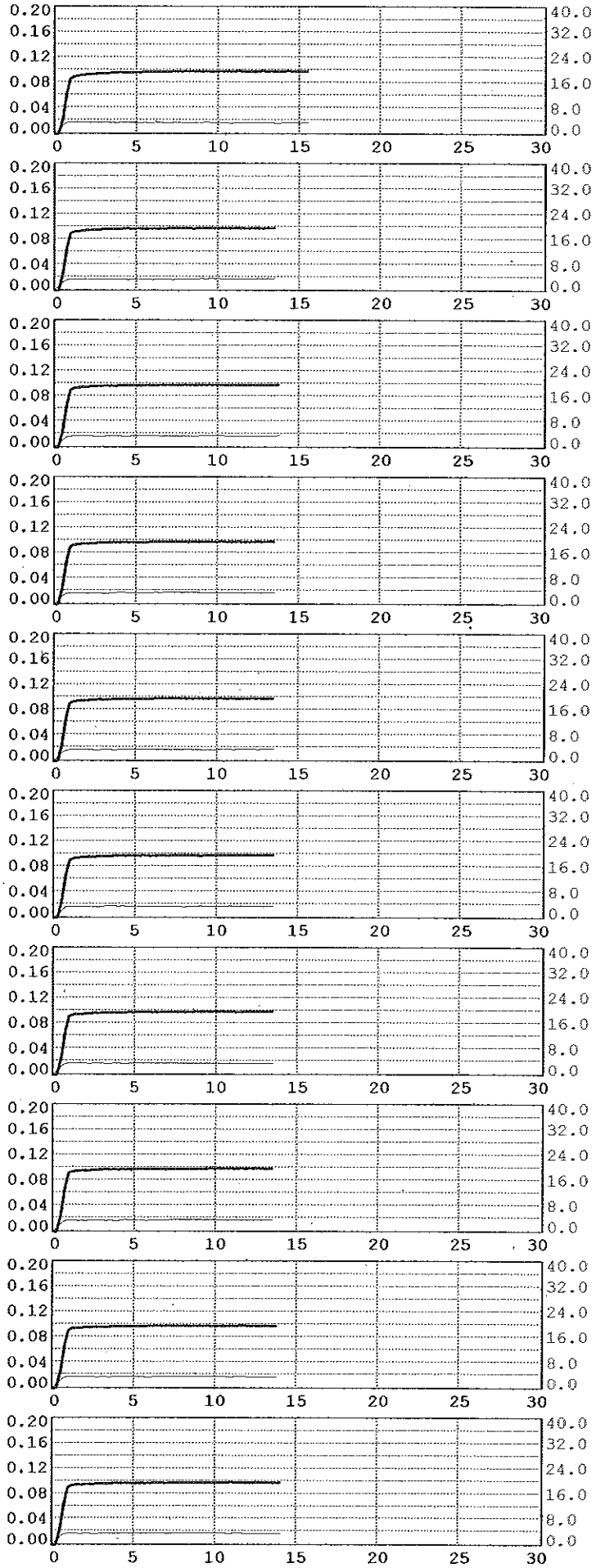
Date: 07/26/2012
Time: 10:28:56

SUPERVISOR NAME:
RCD SECOND SOURCE CAL CHK

SOLUTION LOT #: GUTH 11250
SOLUTION CONCENTRATION: 0.100

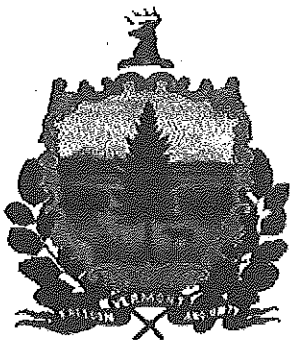
BLANK TEST	0.000	10:29
CALIBRATION CHECK	PASSED	10:29
SIMULATOR VAPOR 33.7°C	0.098	10:30
SIMULATOR VAPOR 33.8°C	0.098	10:31
SIMULATOR VAPOR 33.7°C	0.098	10:32
SIMULATOR VAPOR 33.6°C	0.099	10:33
SIMULATOR VAPOR 33.6°C	0.098	10:34
SIMULATOR VAPOR 33.7°C	0.098	10:35
SIMULATOR VAPOR 33.7°C	0.099	10:36
SIMULATOR VAPOR 33.7°C	0.099	10:37
SIMULATOR VAPOR 33.6°C	0.098	10:38
SIMULATOR VAPOR 33.7°C	0.099	10:40
BLANK TEST	0.000	10:40

Average = 0.098
Std Dev = 0.000



CERTIFICATION REPORT

DataMaster DMT: 102806
Calibration Date: 07/26/2012
Certification Date: 07/26/2012
Certified by: ROBERT DRISCOLL



Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube    = 48.1°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.68 V
Bias Voltage   = 80 V
Chopper Freq   = 522 Hz

PUMP INFO
Flow Rate = 4.264 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.1632    -0.1606
MIN(V)   -0.1652    -0.1630

FILTER INFO
Filter 1  -0.162  Zero = true
Filter 2   0.377  Zero = true
Filter 3   1.254  Zero = true

CALIBRATION CHECK
Xq  = 0.078  0.56%
```

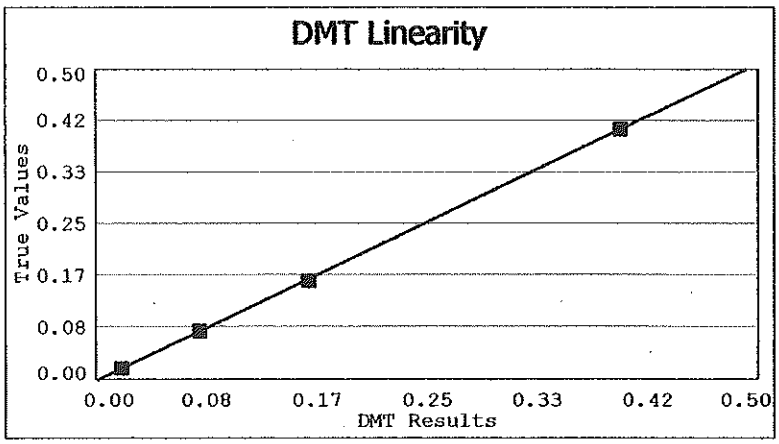
Options

```
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 # 12-78-020	0.019 g/210L	0.0000
0.079 g/210L Lot # 12-74-080	0.078 g/210L	0.0000
0.160 g/210L Lot # 12-53-160	0.160 g/210L	0.0000
0.404 g/210L Lot # 12-62-400	0.396 g/210L	0.0000

$R^2 = 0.9999$



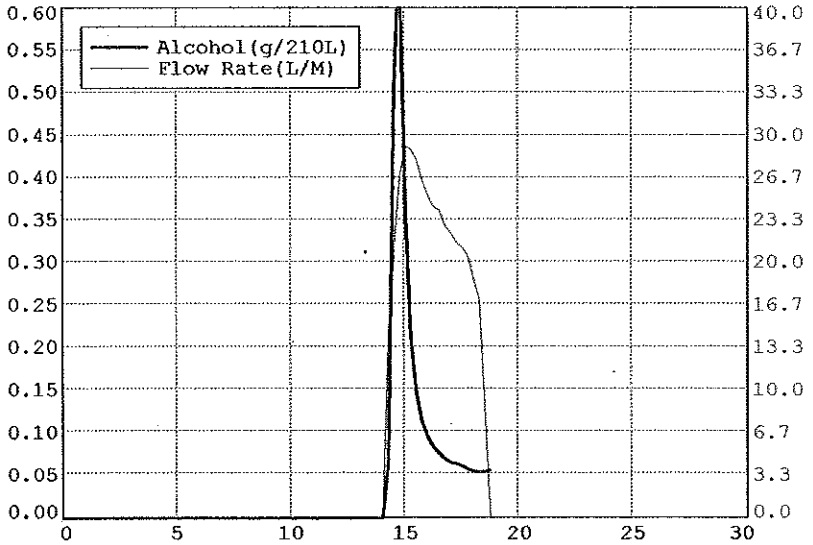
Acetone Interference Test

Lot # 12-79-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

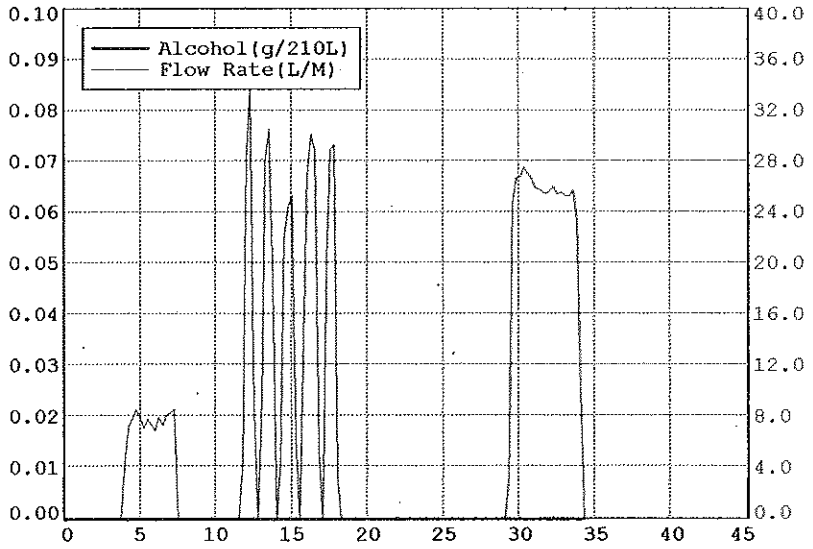


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 07/26/2012

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 102806
Location: VFL
Calibration Date: 07/26/2012
Certification Date: 07/26/2012
Installation Date: 07/26/2012
Installed by: ROBERT DRISCOLL

Default Options Loaded

Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube    = 48.1°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.67 V
Bias Voltage   = 80 V
Chopper Freq   = 521 Hz

PUMP INFO
Flow Rate = 4.326 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.1807    -0.1772
MIN(V)   -0.1823    -0.1791

FILTER INFO
Filter 1  -0.178  Zero = true
Filter 2   0.363  Zero = true
Filter 3   1.237  Zero = true

CALIBRATION CHECK
Xq  = 0.078  0.33%
```

Accuracy and Precision Check

Concentration	=
Lot #	=
Range	=
Average	=
Std Dev	=

Did not Purge
Sim. Parts Past Certification

INSTALLATION FAILED

Performed by RH **Date** 07/26/2012

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 102806
Location: VFL
Calibration Date: 07/26/2012
Certification Date: 07/26/2012
Installation Date: 07/26/2012
Installed by: ROBERT DRISCOLL

Default Options Loaded

Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube    = 48.1°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.67 V
Bias Voltage   = 80 V
Chopper Freq   = 523 Hz

PUMP INFO
Flow Rate = 4.349 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.1754    -0.1717
MIN(V)   -0.1772    -0.1734

FILTER INFO
Filter 1  -0.173  Zero = true
Filter 2   0.368  Zero = true
Filter 3   1.243  Zero = true

CALIBRATION CHECK
Xq  = 0.079  0.67%
```

Accuracy and Precision Check

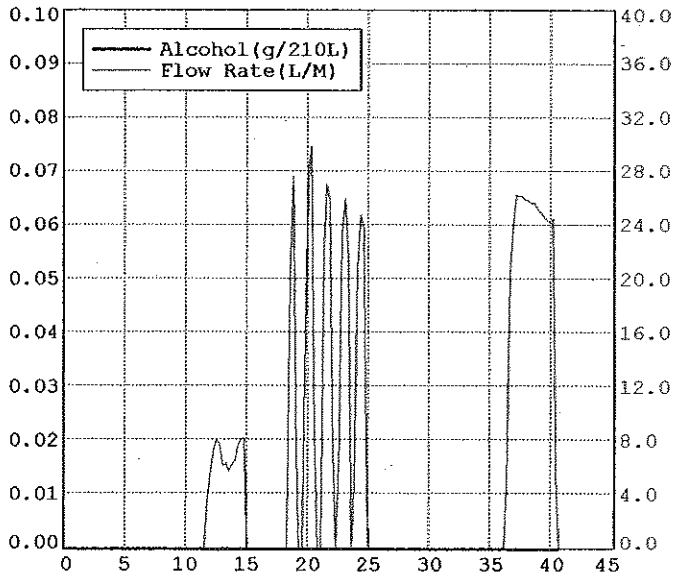
Concentration	= 0.099 g/210L
Lot #	= 12-77-100
Range	= 0.094 - 0.104
Average	= 0.102 g/210L
Std Dev	= 0.0000

RF Detection Test

Passed

Sample Acceptance Test

Passed



INSTALLATION PASSED

Performed by _____ **Date** 07/26/2012

Reviewed by _____ **Date** _____

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

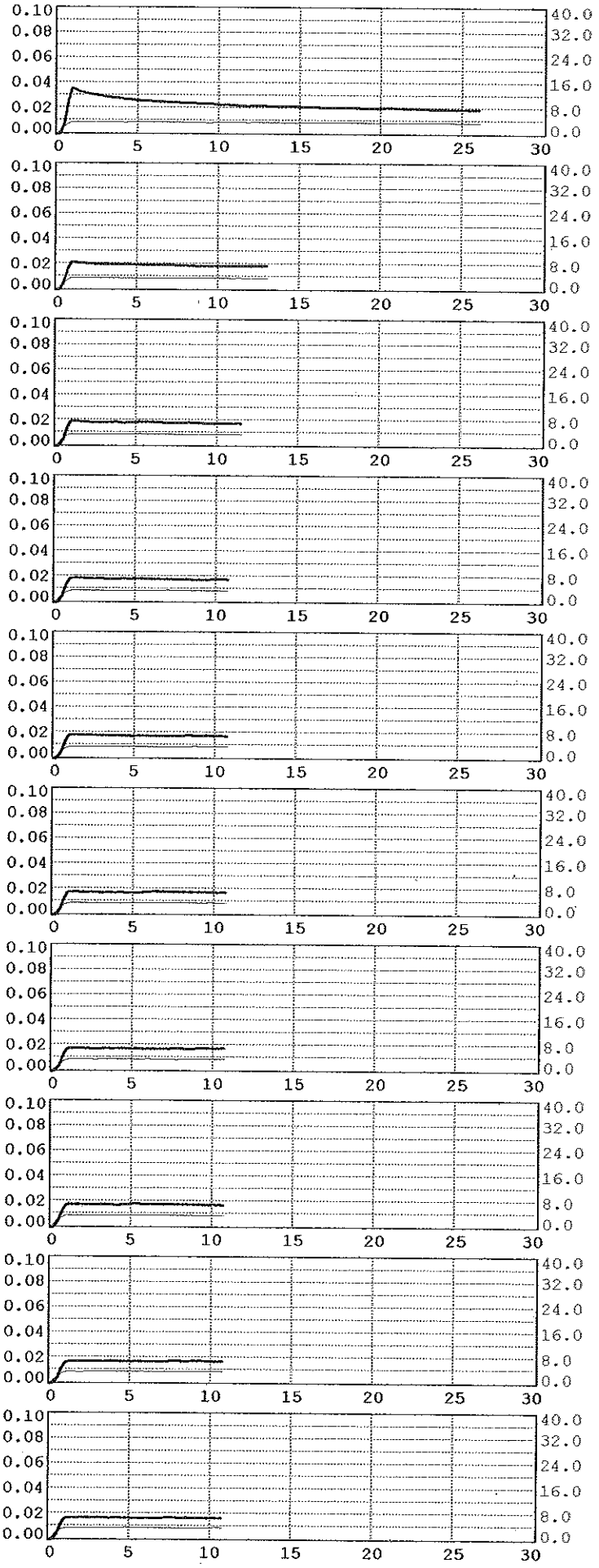
Date: 07/30/2012
Time: 09:13:10

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	09:14
CALIBRATION CHECK	PASSED	09:14
SIMULATOR VAPOR 34.0°C	0.021	09:14
SIMULATOR VAPOR 34.0°C	0.020	09:15
SIMULATOR VAPOR 33.9°C	0.019	09:16
SIMULATOR VAPOR 34.0°C	0.019	09:17
SIMULATOR VAPOR 34.0°C	0.019	09:18
SIMULATOR VAPOR 34.0°C	0.019	09:19
SIMULATOR VAPOR 34.0°C	0.019	09:20
SIMULATOR VAPOR 34.0°C	0.019	09:21
SIMULATOR VAPOR 34.0°C	0.018	09:22
SIMULATOR VAPOR 34.0°C	0.018	09:24
BLANK TEST	0.000	09:24

Average = 0.019
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 09:28:36

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-74-080
SOLUTION CONCENTRATION: 0.079

BLANK TEST	0.000	09:29
CALIBRATION CHECK	PASSED	09:29

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

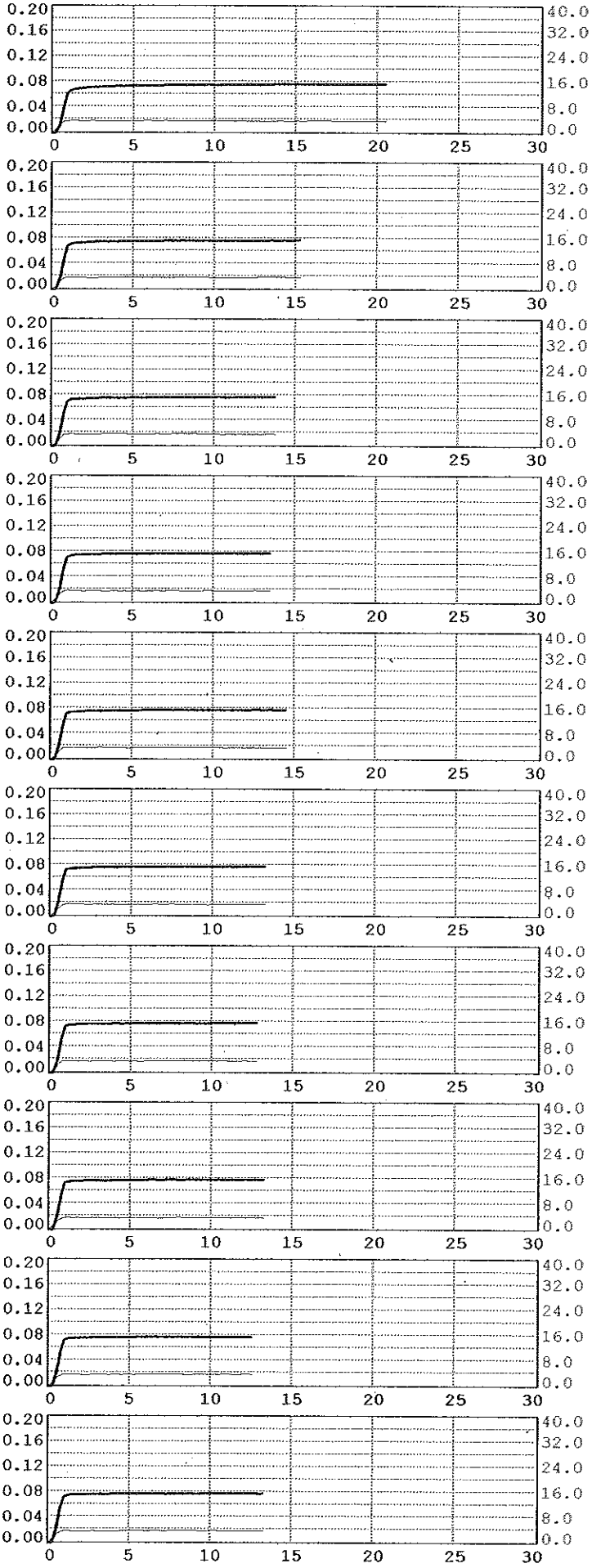
Date: 07/30/2012
Time: 09:30:44

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-74-080
SOLUTION CONCENTRATION: 0.079

BLANK TEST	0.000	09:31
CALIBRATION CHECK	PASSED	09:31
SIMULATOR VAPOR 34.0°C	0.077	09:32
SIMULATOR VAPOR 33.9°C	0.078	09:33
SIMULATOR VAPOR 34.0°C	0.078	09:34
SIMULATOR VAPOR 34.0°C	0.078	09:35
SIMULATOR VAPOR 34.0°C	0.078	09:36
SIMULATOR VAPOR 34.0°C	0.078	09:37
SIMULATOR VAPOR 34.0°C	0.078	09:38
SIMULATOR VAPOR 34.0°C	0.078	09:39
SIMULATOR VAPOR 33.9°C	0.078	09:40
SIMULATOR VAPOR 33.9°C	0.078	09:41
BLANK TEST	0.000	09:42

Average = 0.077
Std Dev = 0.000



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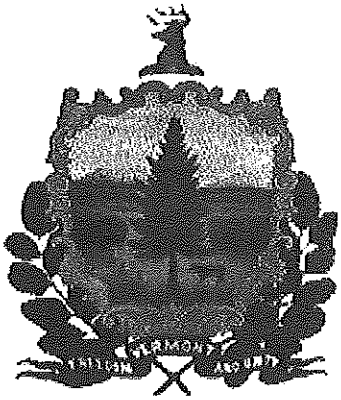


ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 09:48:54

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

BLANK TEST	0.000	09:49
CALIBRATION CHECK	PASSED	09:49

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

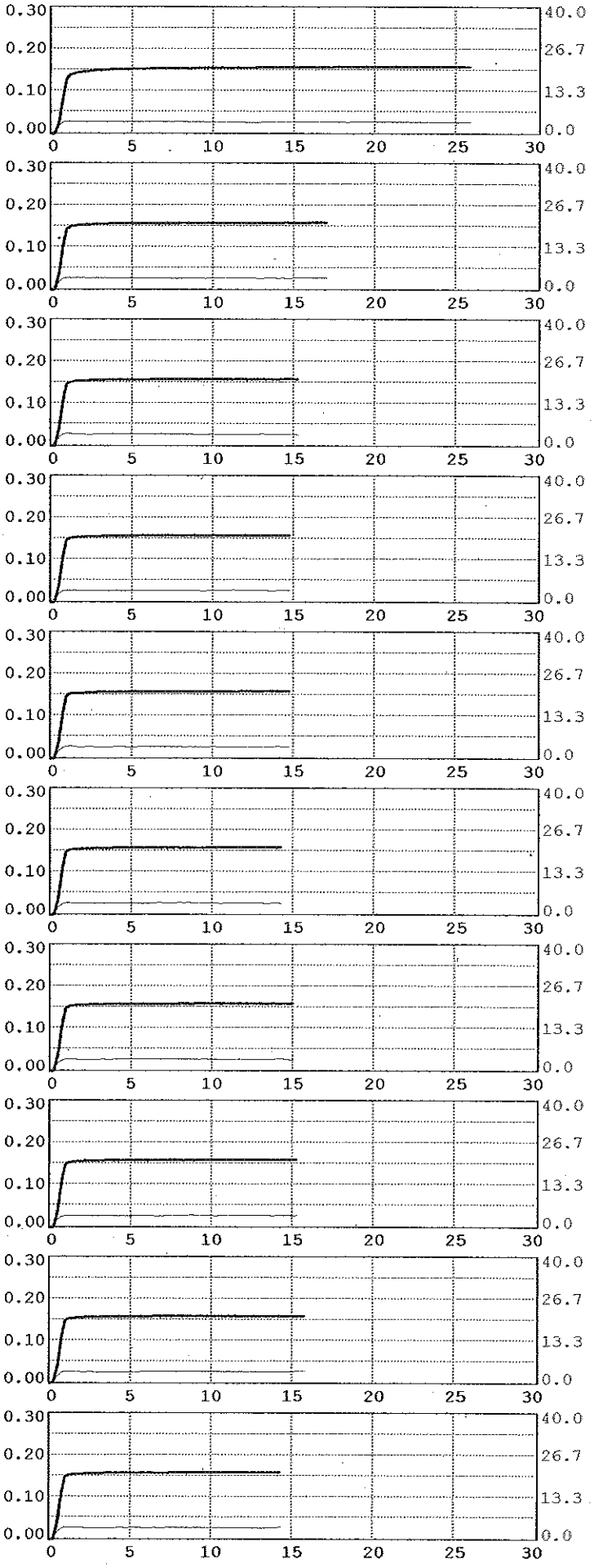
Date: 07/30/2012
Time: 09:52:17

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

BLANK TEST	0.000	09:53
CALIBRATION CHECK	PASSED	09:53
SIMULATOR VAPOR 34.0°C	0.158	09:53
SIMULATOR VAPOR 33.9°C	0.158	09:54
SIMULATOR VAPOR 34.0°C	0.158	09:56
SIMULATOR VAPOR 34.0°C	0.158	09:57
SIMULATOR VAPOR 33.9°C	0.159	09:58
SIMULATOR VAPOR 33.9°C	0.159	09:59
SIMULATOR VAPOR 33.9°C	0.159	10:00
SIMULATOR VAPOR 33.9°C	0.159	10:01
SIMULATOR VAPOR 34.0°C	0.159	10:02
SIMULATOR VAPOR 34.0°C	0.159	10:03
BLANK TEST	0.000	10:04

Average = 0.158
Std Dev = 0.000



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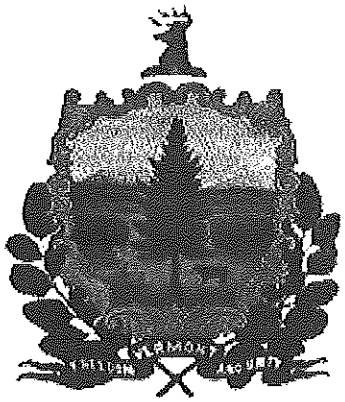


ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 10:11:19

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-62-400
SOLUTION CONCENTRATION: 0.404

BLANK TEST	0.000	10:12
CALIBRATION CHECK	PASSED	10:12

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

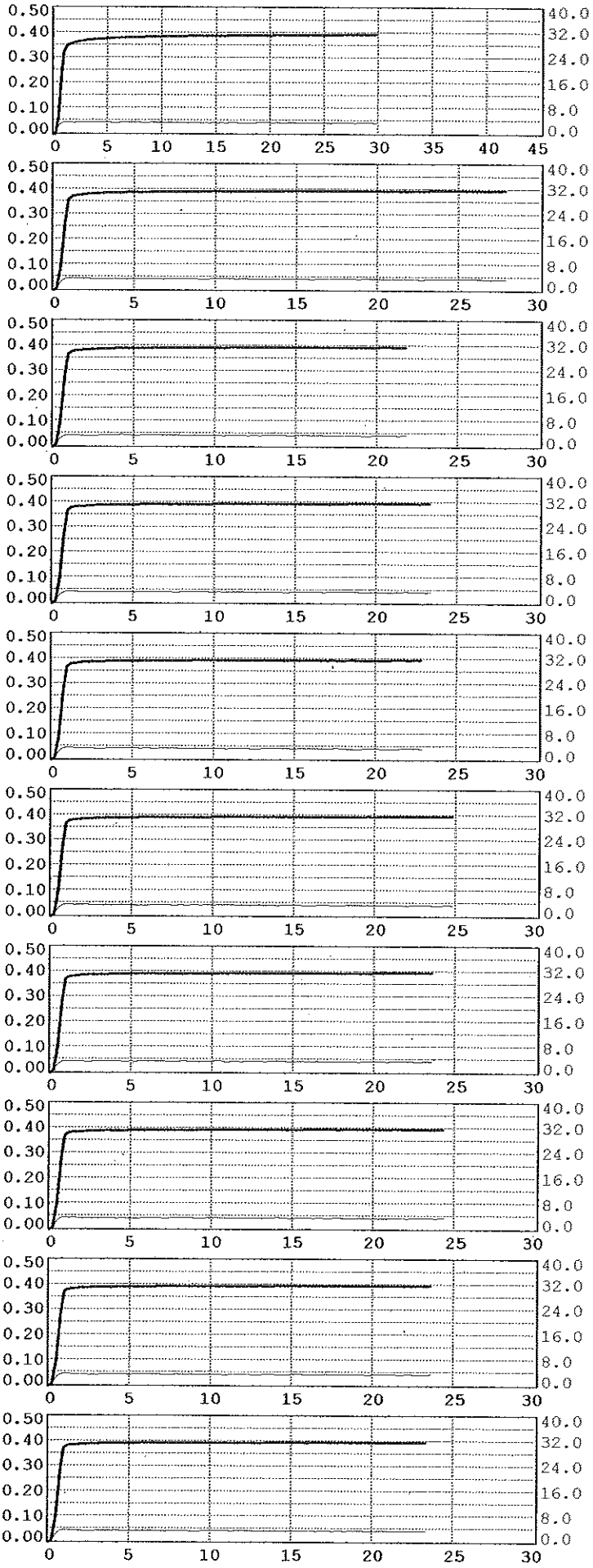
Date: 07/30/2012
Time: 10:13:31

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-62-400
SOLUTION CONCENTRATION: 0.404

BLANK TEST	0.000	10:14
CALIBRATION CHECK	PASSED	10:14
SIMULATOR VAPOR 33.9°C	0.390	10:15
SIMULATOR VAPOR 33.9°C	0.393	10:16
SIMULATOR VAPOR 33.9°C	0.392	10:17
SIMULATOR VAPOR 34.0°C	0.393	10:18
SIMULATOR VAPOR 33.9°C	0.392	10:20
SIMULATOR VAPOR 34.0°C	0.393	10:21
SIMULATOR VAPOR 33.9°C	0.392	10:22
SIMULATOR VAPOR 33.9°C	0.393	10:23
SIMULATOR VAPOR 33.9°C	0.393	10:25
SIMULATOR VAPOR 33.9°C	0.394	10:26
BLANK TEST	0.000	10:27

Average = 0.392
Std Dev = 0.001



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

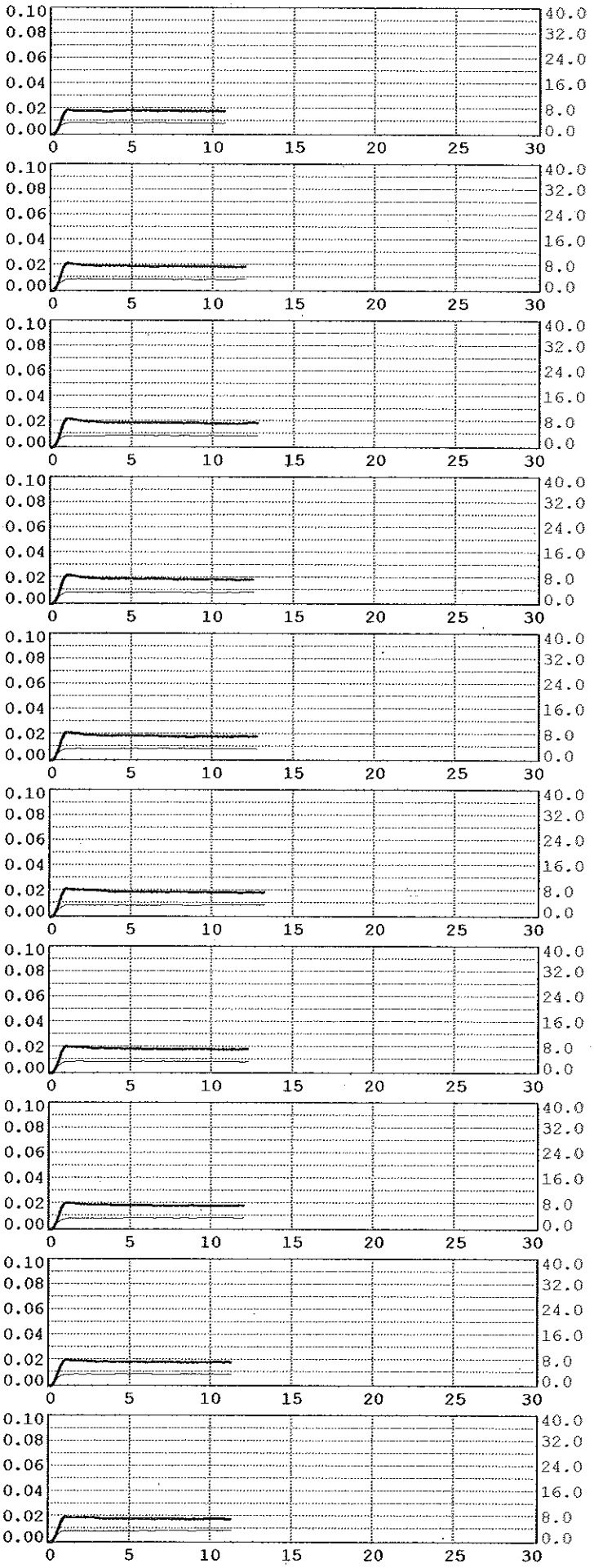
Date: 07/30/2012
Time: 11:16:06

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	11:17
CALIBRATION CHECK	PASSED	11:17
SIMULATOR VAPOR 33.8°C	0.020	11:17
SIMULATOR VAPOR 33.9°C	0.020	11:18
SIMULATOR VAPOR 33.8°C	0.020	11:19
SIMULATOR VAPOR 33.9°C	0.020	11:20
SIMULATOR VAPOR 33.9°C	0.019	11:21
SIMULATOR VAPOR 33.9°C	0.020	11:22
SIMULATOR VAPOR 33.9°C	0.020	11:23
SIMULATOR VAPOR 33.9°C	0.019	11:24
SIMULATOR VAPOR 33.9°C	0.020	11:25
SIMULATOR VAPOR 33.9°C	0.019	11:26
BLANK TEST	0.000	11:27

Average = 0.019
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

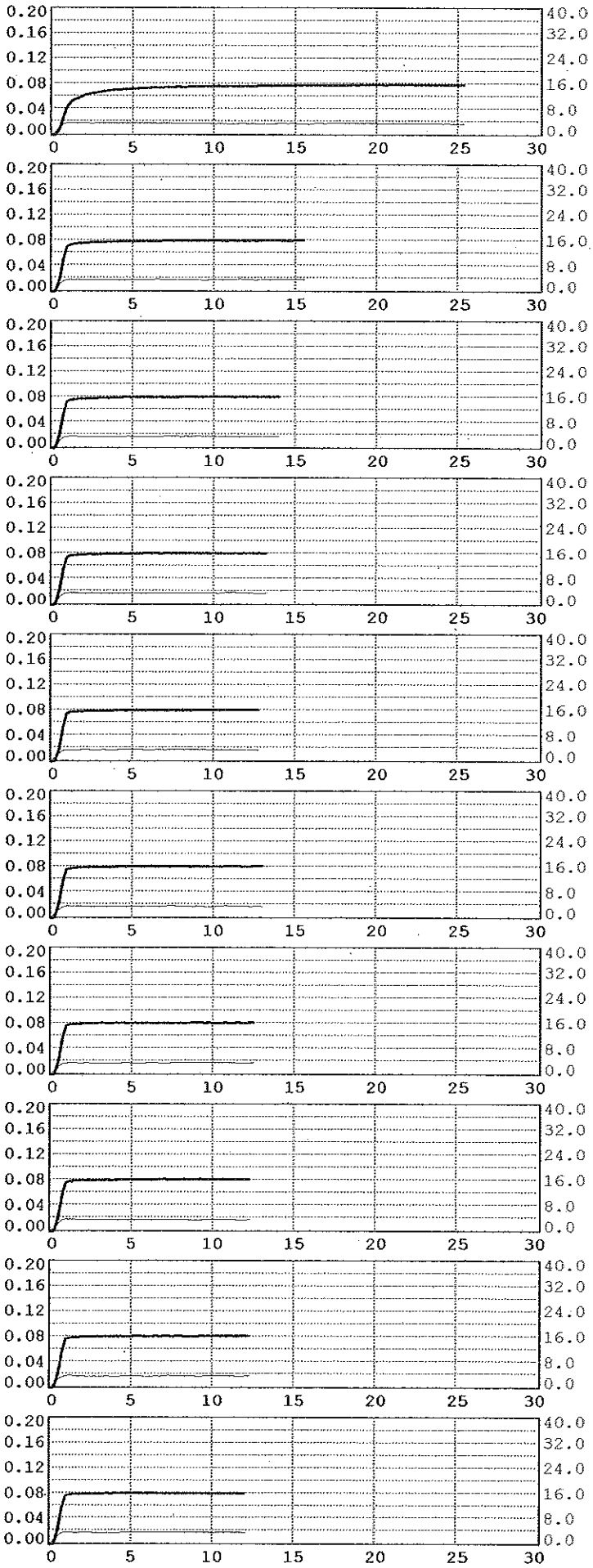
Date: 07/30/2012
Time: 11:30:33

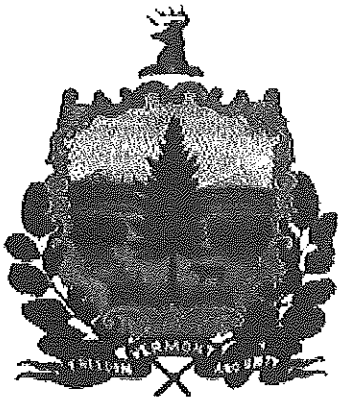
SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	11:31
CALIBRATION CHECK	PASSED	11:31
SIMULATOR VAPOR 34.0°C	0.080	11:32
SIMULATOR VAPOR 33.9°C	0.081	11:33
SIMULATOR VAPOR 33.9°C	0.081	11:34
SIMULATOR VAPOR 33.9°C	0.081	11:35
SIMULATOR VAPOR 34.0°C	0.081	11:36
SIMULATOR VAPOR 33.9°C	0.081	11:37
SIMULATOR VAPOR 33.8°C	0.081	11:38
SIMULATOR VAPOR 33.9°C	0.081	11:39
SIMULATOR VAPOR 33.9°C	0.081	11:40
SIMULATOR VAPOR 34.0°C	0.081	11:41
BLANK TEST	0.000	11:42

Average = 0.080
Std Dev = 0.000





ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 11:56:39

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	11:57
CALIBRATION CHECK	PASSED	11:57

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

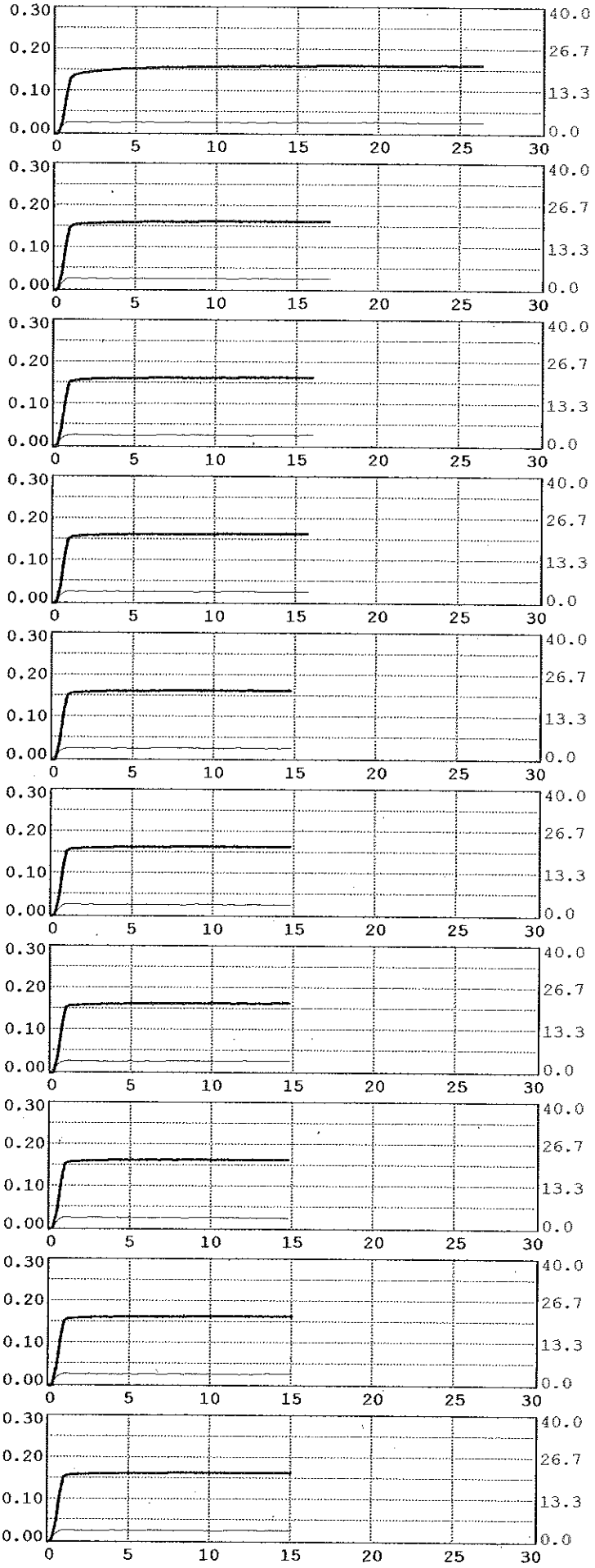
DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 12:07:13

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	12:08
CALIBRATION CHECK	PASSED	12:08
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:08
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:09
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:11
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:12
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:13
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:14
SIMULATOR VAPOR 33.8°C	0.163	12:15
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:16
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:17
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:18
BLANK TEST	0.000	12:19



ACCURACY & PRECISION REPORT

STATE OF VERMONT

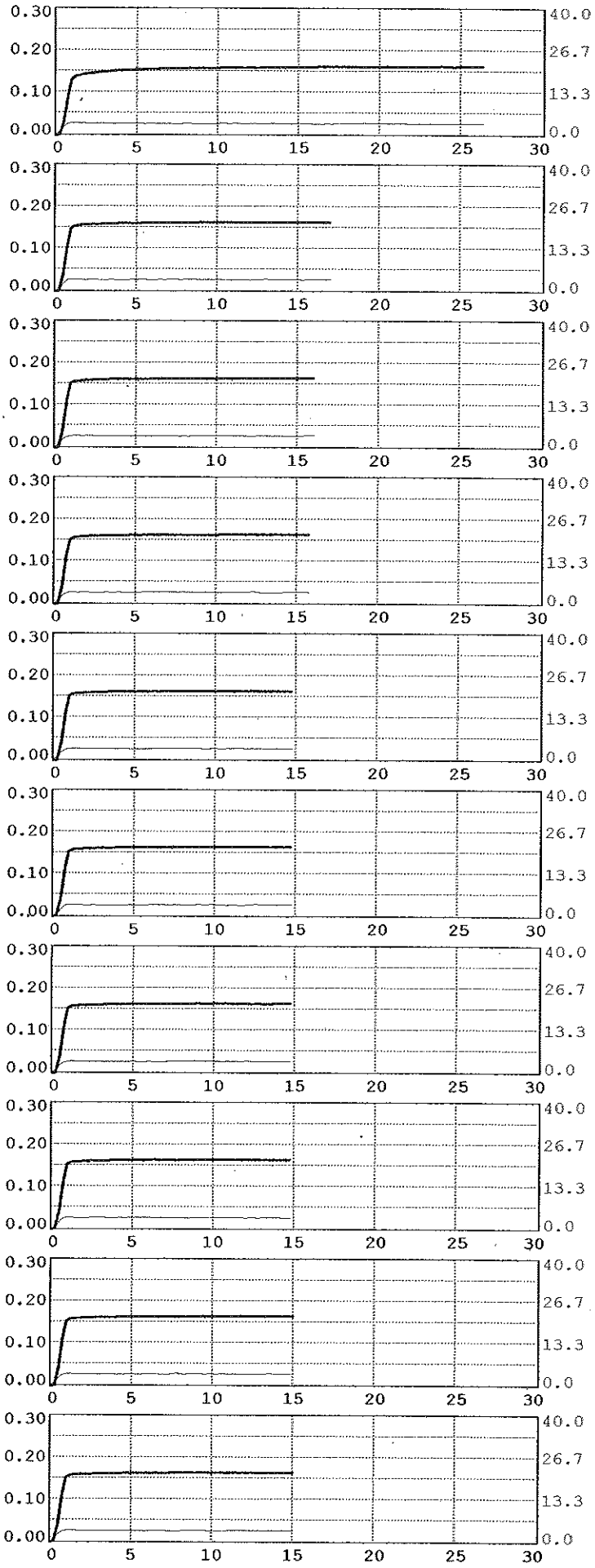
DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 12:07:13

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	12:08
CALIBRATION CHECK	PASSED	12:08
Xq = 0.079 (1.11%)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:08
X[1] = 0.1628 (0.0014) (0.0086)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:09
X[1] = 0.1635 (0.0011) (0.0076)		
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:11
X[1] = 0.1642 (0.0008) (0.0076)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:12
X[1] = 0.1641 (0.0008) (0.0068)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:13
X[1] = 0.1637 (0.0001) (0.0067)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:14
X[1] = 0.1645 (0.0009) (0.0068)		
SIMULATOR VAPOR 33.8°C	0.163	12:15
X[1] = 0.1638 (0.0002) (0.0065)		
SIMULATOR VAPOR 33.8°C	INTERFERENCE	12:16
X[1] = 0.1647 (0.0008) (0.0072)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:17
X[1] = 0.1643 (0.0006) (0.0067)		
SIMULATOR VAPOR 33.9°C	INTERFERENCE	12:18
X[1] = 0.1643 (0.0004) (0.0066)		
BLANK TEST	0.000	12:19



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

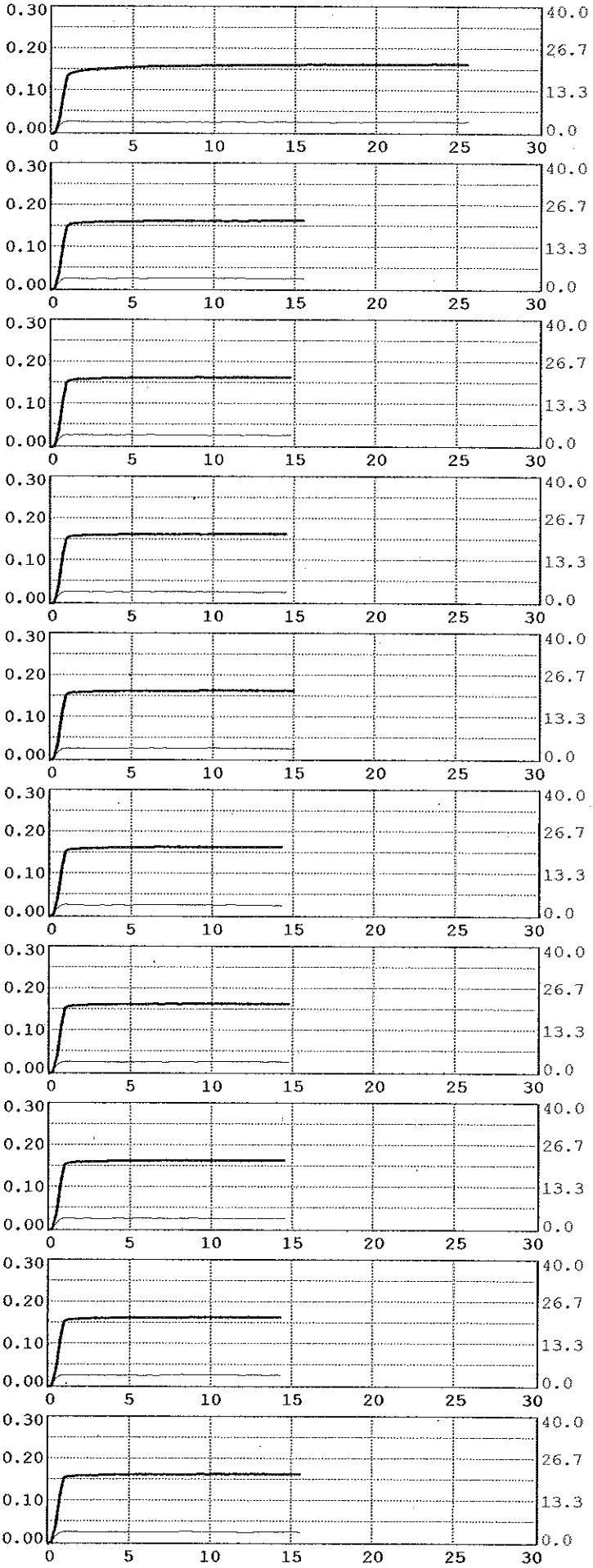
Date: 07/30/2012
Time: 13:04:02

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	13:04
CALIBRATION CHECK	PASSED	13:05
SIMULATOR VAPOR 33.9°C	0.163	13:05
SIMULATOR VAPOR 33.9°C	0.164	13:06
SIMULATOR VAPOR 33.9°C	0.164	13:07
SIMULATOR VAPOR 34.0°C	0.164	13:08
SIMULATOR VAPOR 33.9°C	0.164	13:09
SIMULATOR VAPOR 33.9°C	0.164	13:11
SIMULATOR VAPOR 33.9°C	0.164	13:12
SIMULATOR VAPOR 33.9°C	0.164	13:13
SIMULATOR VAPOR 33.9°C	0.164	13:14
SIMULATOR VAPOR 33.9°C	0.164	13:15
BLANK TEST	0.000	13:16

Average = 0.163
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

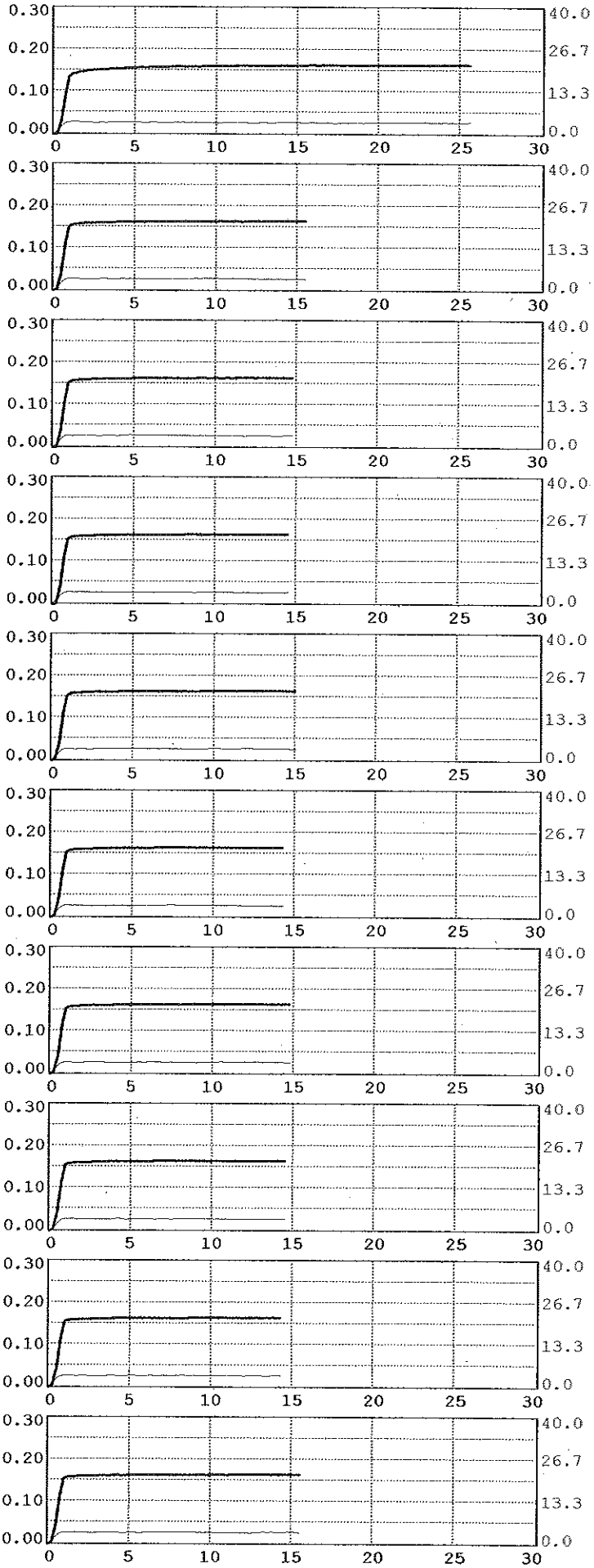
Date: 07/30/2012
Time: 13:04:02

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	13:04
CALIBRATION CHECK		PASSED	13:05
Xq = 0.079	(0.78%)		
SIMULATOR VAPOR 33.9°C		0.163	13:05
X[1] = 0.1639	(0.0009)	(0.0047)	
SIMULATOR VAPOR 33.9°C		0.164	13:06
X[1] = 0.1643	(0.0010)	(0.0040)	
SIMULATOR VAPOR 33.9°C		0.164	13:07
X[1] = 0.1641	(0.0004)	(0.0032)	
SIMULATOR VAPOR 34.0°C		0.164	13:08
X[1] = 0.1646	(0.0000)	(0.0035)	
SIMULATOR VAPOR 33.9°C		0.164	13:09
X[1] = 0.1646	(0.0002)	(0.0028)	
SIMULATOR VAPOR 33.9°C		0.164	13:11
X[1] = 0.1647	(0.0005)	(0.0031)	
SIMULATOR VAPOR 33.9°C		0.164	13:12
X[1] = 0.1645	(0.0009)	(0.0030)	
SIMULATOR VAPOR 33.9°C		0.164	13:13
X[1] = 0.1647	(0.0008)	(0.0032)	
SIMULATOR VAPOR 33.9°C		0.164	13:14
X[1] = 0.1644	(0.0004)	(0.0031)	
SIMULATOR VAPOR 33.9°C		0.164	13:15
X[1] = 0.1644	(0.0004)	(0.0028)	
BLANK TEST		0.000	13:16

Average = 0.163
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 14:57:00

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	14:57
CALIBRATION CHECK	PASSED	14:58

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

Date: 07/30/2012
Time: 14:59:31

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	15:00
CALIBRATION CHECK	PASSED	15:00

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

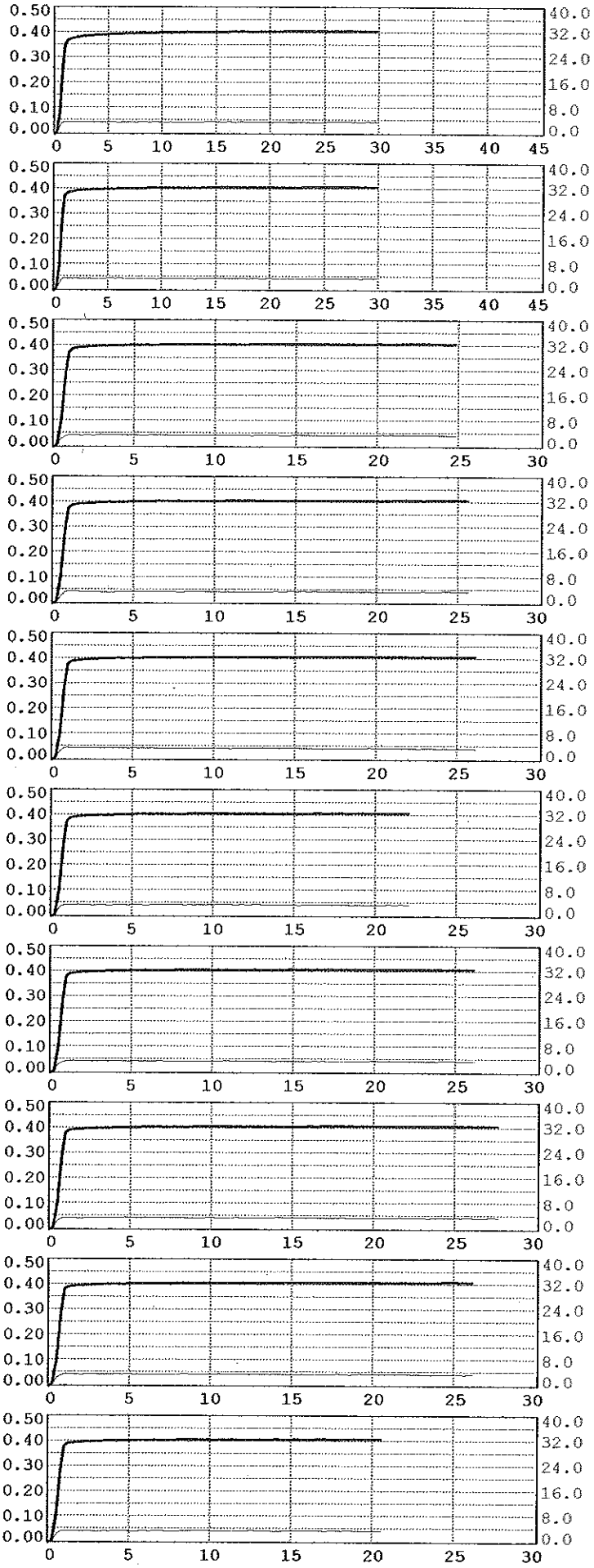
Date: 07/30/2012
Time: 15:01:54

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	15:02
CALIBRATION CHECK	PASSED	15:02
SIMULATOR VAPOR 33.9°C	0.403	15:03
SIMULATOR VAPOR 33.9°C	0.405	15:04
SIMULATOR VAPOR 33.9°C	0.404	15:06
SIMULATOR VAPOR 33.8°C	0.405	15:07
SIMULATOR VAPOR 33.9°C	0.406	15:08
SIMULATOR VAPOR 34.0°C	0.405	15:09
SIMULATOR VAPOR 33.8°C	0.406	15:11
SIMULATOR VAPOR 33.9°C	0.406	15:12
SIMULATOR VAPOR 33.8°C	0.406	15:13
SIMULATOR VAPOR 33.9°C	0.405	15:15
BLANK TEST	0.000	15:15

Average = 0.405
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806
Location: VFL

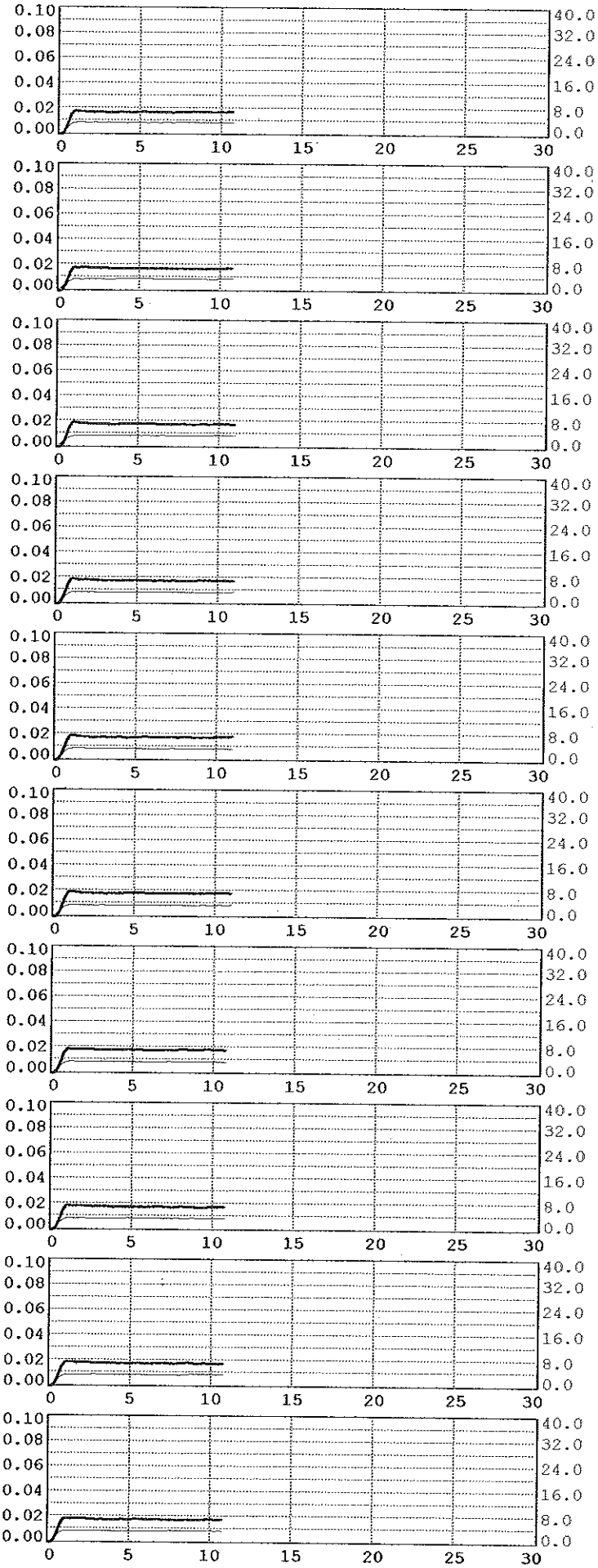
Date: 07/31/2012
Time: 08:21:00

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-78-020
SOLUTION CONCENTRATION: 0.019

BLANK TEST	0.000	08:21
CALIBRATION CHECK	PASSED	08:22
SIMULATOR VAPOR 33.8°C	0.018	08:22
SIMULATOR VAPOR 33.9°C	0.019	08:23
SIMULATOR VAPOR 33.8°C	0.019	08:24
SIMULATOR VAPOR 33.9°C	0.019	08:25
SIMULATOR VAPOR 33.9°C	0.019	08:26
SIMULATOR VAPOR 33.9°C	0.019	08:27
SIMULATOR VAPOR 33.9°C	0.019	08:28
SIMULATOR VAPOR 33.9°C	0.019	08:29
SIMULATOR VAPOR 33.9°C	0.019	08:30
SIMULATOR VAPOR 33.9°C	0.019	08:31
BLANK TEST	0.000	08:32

Average = 0.018
Std Dev = 0.000



ACCURACY & PRECISION REPORT

STATE OF VERMONT

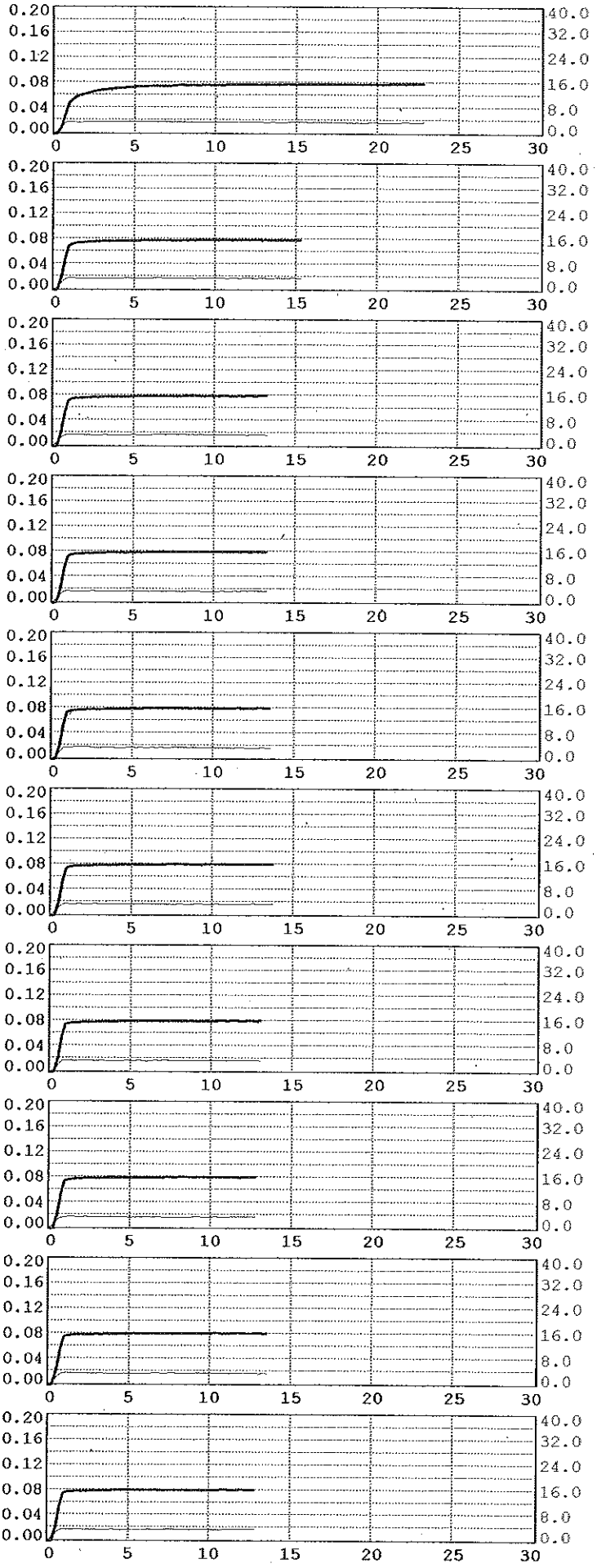
DataMater DMT: 102806
Location: VFL

Date: 07/31/2012
Time: 08:45:52

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	08:46
CALIBRATION CHECK	PASSED	08:46
SIMULATOR VAPOR 33.8°C	INTERFERENCE	08:47
SIMULATOR VAPOR 33.9°C	0.080	08:48
SIMULATOR VAPOR 33.9°C	0.080	08:49
SIMULATOR VAPOR 34.0°C	0.080	08:50
SIMULATOR VAPOR 33.9°C	0.081	08:51
SIMULATOR VAPOR 33.9°C	0.081	08:52
SIMULATOR VAPOR 33.8°C	0.081	08:53
SIMULATOR VAPOR 33.8°C	0.081	08:54
SIMULATOR VAPOR 33.9°C	0.081	08:55
SIMULATOR VAPOR 33.9°C	0.081	08:57
BLANK TEST	0.000	08:57



ACCURACY & PRECISION REPORT

STATE OF VERMONT

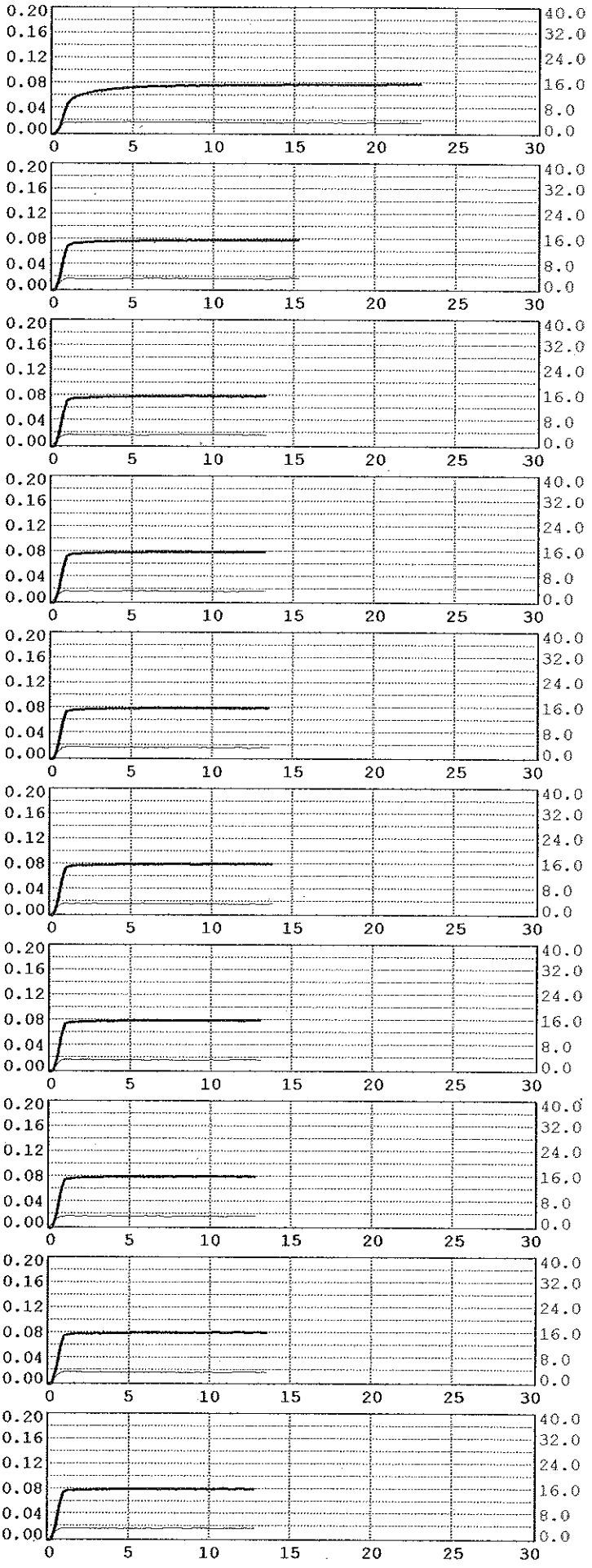
DataMater DMT: 102806
Location: VFL

Date: 07/31/2012
Time: 08:45:52

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST		0.000	08:46
CALIBRATION CHECK		PASSED	08:46
Xq = 0.079 (0.67%)			
SIMULATOR VAPOR	33.8°C	INTERFERENCE	08:47
X[1] = 0.0794 (0.0004) (0.0059)			
SIMULATOR VAPOR	33.9°C	0.080	08:48
X[1] = 0.0800 (0.0003) (0.0048)			
SIMULATOR VAPOR	33.9°C	0.080	08:49
X[1] = 0.0803 (0.0001) (0.0043)			
SIMULATOR VAPOR	34.0°C	0.080	08:50
X[1] = 0.0806 (-0.0001) (0.0042)			
SIMULATOR VAPOR	33.9°C	0.081	08:51
X[1] = 0.0810 (-0.0002) (0.0043)			
SIMULATOR VAPOR	33.9°C	0.081	08:52
X[1] = 0.0811 (0.0002) (0.0049)			
SIMULATOR VAPOR	33.8°C	0.081	08:53
X[1] = 0.0812 (0.0005) (0.0048)			
SIMULATOR VAPOR	33.8°C	0.081	08:54
X[1] = 0.0811 (-0.0002) (0.0043)			
SIMULATOR VAPOR	33.9°C	0.081	08:55
X[1] = 0.0817 (0.0005) (0.0047)			
SIMULATOR VAPOR	33.9°C	0.081	08:57
X[1] = 0.0817 (0.0001) (0.0043)			
BLANK TEST		0.000	08:57



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/03/2012
Time: 09:40:49

SUPERVISOR NAME:
RCD LINEARITY ONE

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	09:41
CALIBRATION CHECK	PASSED	09:41

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

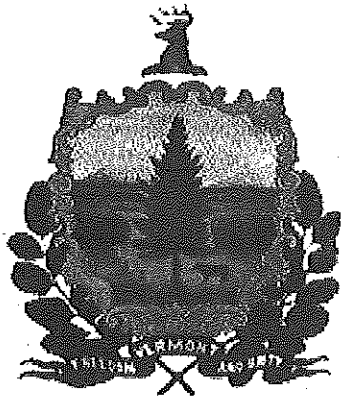
Date: 08/03/2012
Time: 10:00:23

SUPERVISOR NAME:
RCD LINEARITY ONE

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	10:01
CALIBRATION CHECK	PASSED	10:01

Simulator Timed Out



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/03/2012
Time: 11:02:44

SUPERVISOR NAME:
RCD LINEARITY TWO

SOLUTION LOT #: 12-60-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	11:03
CALIBRATION CHECK	PASSED	11:03

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

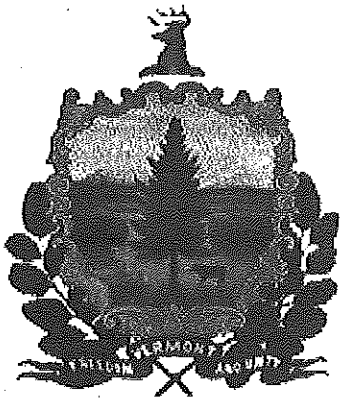
Date: 08/03/2012
Time: 11:20:59

SUPERVISOR NAME:
RCD LINEARITY TWO

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	11:21
CALIBRATION CHECK	PASSED	11:21

Simulator Timed Out



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/08/2012
Time: 14:42:29

SUPERVISOR NAME:
RCD LINEARITY THREE

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	14:43
CALIBRATION CHECK	PASSED	14:43

Simulator Timed Out

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102806

Date: 08/09/2012
Time: 09:28:12

SUPERVISOR NAME:
RCD LINEARITY FOUR

SOLUTION LOT #: 12-82-400
SOLUTION CONCENTRATION: 0.399

BLANK TEST	0.000	09:29
CALIBRATION CHECK	PASSED	09:29

Simulator Timed Out