DATAMASTER DMT 104209

VERMONT DEPARTMENT OF HEALTH LABORATORY

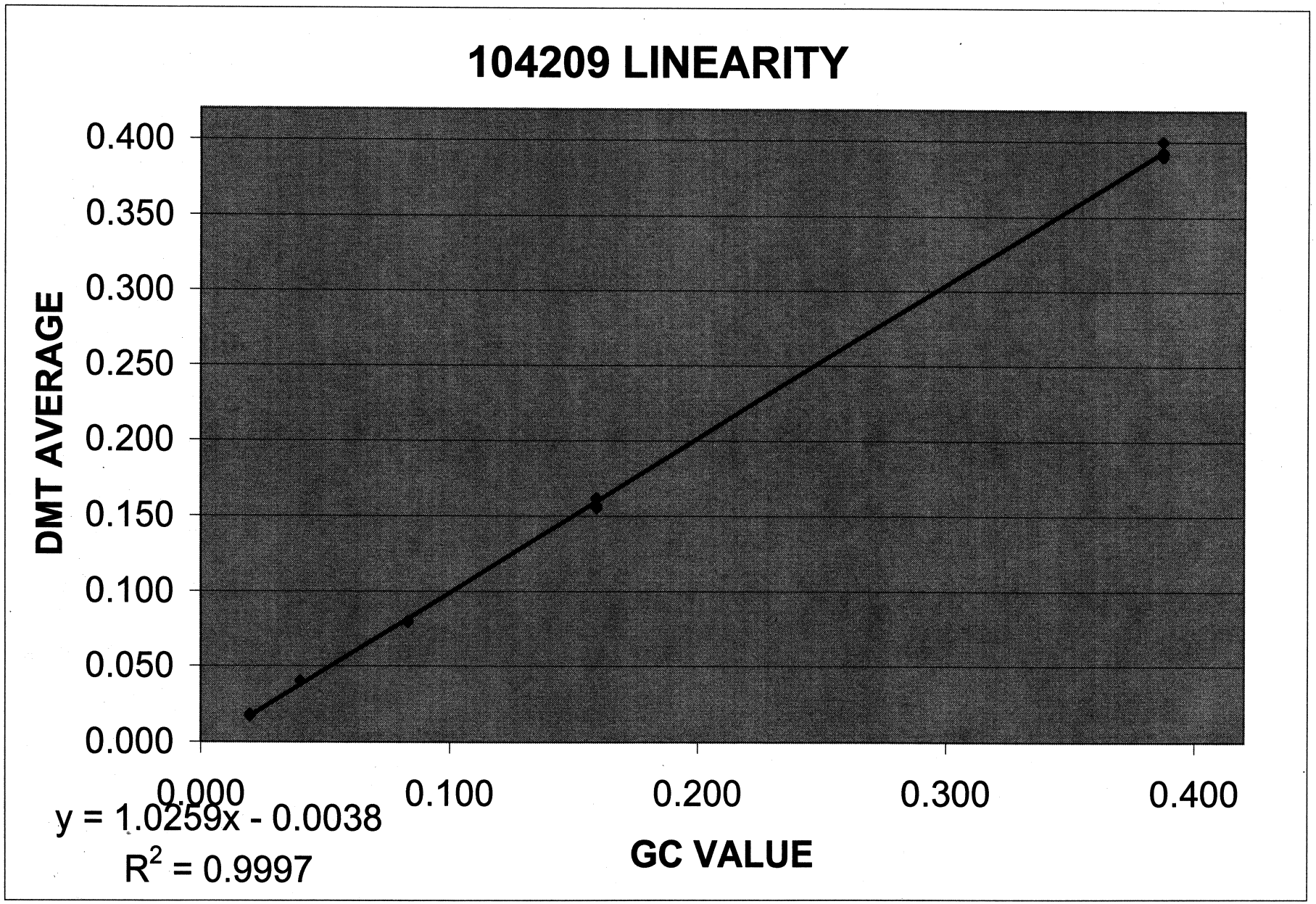
PERFORMANCE TESTING RESULTS

January 2010

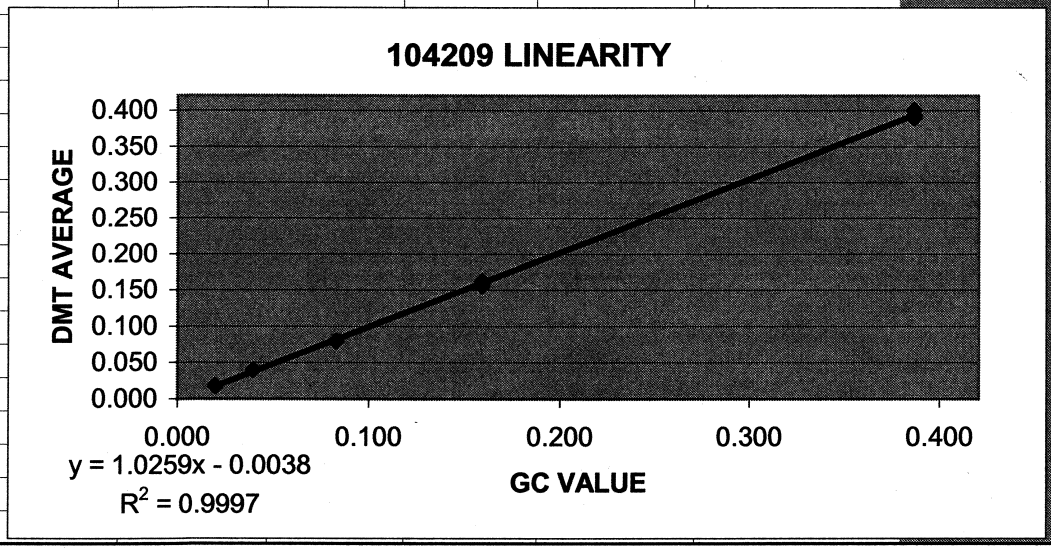
Table of Contents

Section 1: Results	1-1 Thru 1-4
Section 2: NPAS Tests	2-1 Thru 2-14
Section 3: Power-Up Test	3-1 Thru 3-10
Section 4: Linearity	4-1 Thru 4-26
Section 5: Interference	5-1 Thru 5-8
Section 6: Low Level Accuracy	6-1 Thru 6-2
Section 7: Breath Volume	7-1 Thru 7-2
Section 8: Software Testing	8-1 Thru 8-2
Section 9: Error Reports	9-1 Thru 9-2
Section 10: Live Subject Tests	10-1 Thru 10-2
Section 11: Communication Notes	11-1 Thru 11-3

Section 1: Results


104209 LINEARITY
DMT AVERAGE
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.000
0.100
0.200
0.300
0.400
GC VALUE
y = 1.0259x - 0.0038
R2 = 0.9997

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery	
ALB	11/2/2009	10-13-020	0.020	0.018	0.0005	90.0	Outside 5%
		09-43-080	0.083	0.080	0.0004	96.4	Outside 10%
		09-38-160	0.159	0.161	0.0006	101.3	
		10-14-400	0.387	0.400	0.0014	103.4	
DMR	11/13/2009	10-13-020	0.020	0.018	0.0004	90.0	
		09-43-080	0.083	0.079	0.0003	95.2	
		09-38-160	0.159	0.157	0.0005	98.7	
		10-14-400	0.387	0.392	0.0006	101.3	
ALB	11/17/2009	10-14-400	0.387	0.390	0.0009	100.8	
		09-43-080	0.083	0.079	0.0004	95.2	
		10-13-020	0.020	0.017	0.0004	85.0	
		09-38-160	0.159	0.155	0.0010	97.5	
DMR	11/23/2009	10-14-400	0.387	0.393	0.0008	101.6	
		09-38-160	0.159	0.161	0.0005	101.3	
		10-13-020	0.020	0.018	0.0005	90.0	
		09-43-080	0.083	0.080	0.0005	96.4	
ALB	11/24/2009	09-43-080	0.083	0.080	0.0005	96.4	
		10-13-020	0.020	0.018	0.0004	90.0	
		09-38-160	0.159	0.162	0.0006	101.9	
		10-14-400	0.387	0.393	0.0011	101.6	
ALB	10/28/2009	09-27-040	0.040	0.040	0.0000	100.0	LOW LEVEL
				Average	0.0006	96.7	
				Std Dev	0.0003	5.25	
				Range	0.0000 - 0.0011	85.0 - 103.4	



Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	10/28/09	0.01 Acetone in water	10-08-01A	INTERFERENCE	< .01	
ALB	10/28/09	0.02 Acetone in water	09-23-02A	INTERFERENCE	0.01	
ALB	10/27/09	.01 Acetone in .08 EtOH	10-05-08A1	INTERFERENCE	0.08	
ALB	10/28/09	.01 Acetone in .04 EtOH	09-13-04A1	INTERFERENCE	0.05	
ALB	10/28/09	.02Acetone in .08 EtOH	09-28-08A2	INTERFERENCE	0.09	
ALB	10/28/09	.02 Acetone in .04 EtOH	09-13-04A2	INTERFERENCE	0.06	
ALB	10/27/09	.04 MeOH in water	10-07-04M	INTERFERENCE	0.03	
ALB	10/28/09	.04 MeOH in .08 EtOH	10-10-08M4	INTERFERENCE	0.12	
ALB	10/27/09	.04 IPA in water	10-16-04I	INTERFERENCE	0.04	
ALB	10/28/09	.04 IPA in .08 EtOH	09-43-08I4	INTERFERENCE	0.13	

Section 2: NPAS Tests

National Patent Analytical Systems, Inc.

Certificate of Calibration

104209

Instrument Serial Number

09220

Standard Reference Number

The above instrument has been calibrated and is hereby certified for use in determining alcohol breath concentration when used in accordance with the operating guidelines by a properly trained operator.

9-22-09

Date

Technician

OPTIONS PRINT OUT

DataMaster DMT: 104209
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009

VERMONT
DEPARTMENT OF HEALTH

```
Printer: yes
Number of Copies: 3
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Digital Simulator: guth
Simulator Before: yes
Simulator Between: yes
Simulator After: no
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 1
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100
```

CALIBRATION REPORT

DataMaster DMT: 104209
Calibration Date: 09/22/2009
Calibrated by: T T T
Lot: 876

VERMONT
DEPARTMENT OF HEALTH

```
Ca   =  0.100000
CAL  =  0.979482     0.800 <= CAL < 1.200
b1   =  0.000000     0.000 <=  b1 < 0.004
b2   =  0.002670     0.001 <=  b2 < 0.012
b3   =  0.000000     0.000 <=  b3 < 0.004
Xq   =  0.084848     0.050 <=  Xq < 0.200
a21  =  1.153299     1.050 <= a21 < 1.300
a31  =  0.460171     0.300 <= a31 < 0.800
```

Performed by _____ **Date** 09/22/2009

CERTIFICATION REPORT

DataMaster DMT: 104209
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Certified by: T T T

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.15°C
Breath Tube = 46.10°C

SETTINGS
Lamp Voltage = 1.54 V
Cooler Voltage = 1.69 V
Bias Voltage = 81.2 V
Chopper Freq = 539.3 Hz

PUMP INFO
Flow Rate = 5.672 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.4215 0.4230
MIN(V) 0.4193 0.4213

FILTER INFO
Filter 1 0.421 Zero = true
Filter 2 0.671 Zero = true
Filter 3 0.712 Zero = true

CALIBRATION CHECK
Xq = 0.0849 0.10%

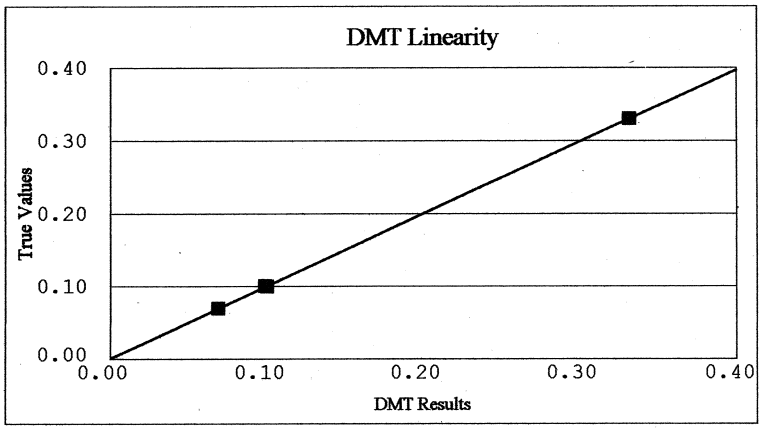
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 5
Tolerance Check: no
Data Collection: yes
Units: g/210L
Simulator Check: no
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Digital Simulator: none
Simulator Before: yes
Simulator Between: yes
Simulator After: yes
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 2
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100

Linearity Check Results

True Value	Reported Average	Std Dev
0.070 g/210L	0.069 g/210L	0.000
Lot # 9876543		
0.100 g/210L	0.100 g/210L	0.000
Lot # 9087654		
0.101 g/210L	0.099 g/210L	0.001
Lot # 87654567		
0.330 g/210L	0.332 g/210L	0.001
Lot # 8765456789		

$R^2 = 1.0000$



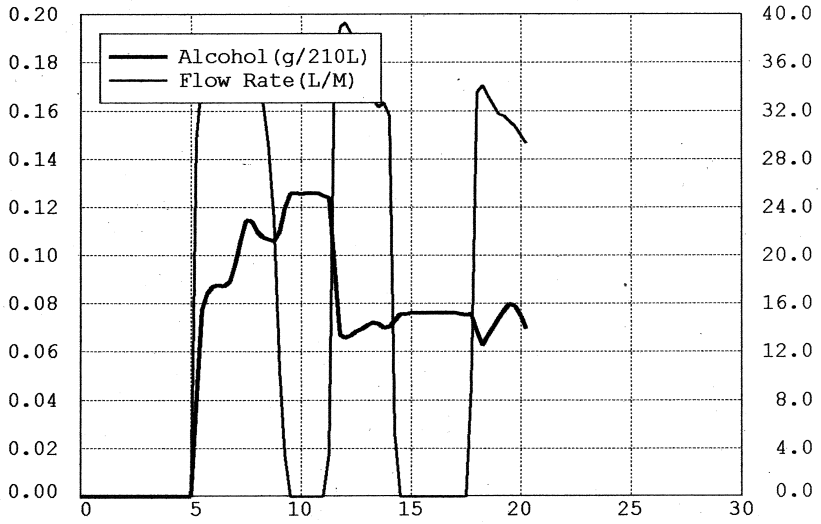
Acetone Interference Test

Lot # 7678

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

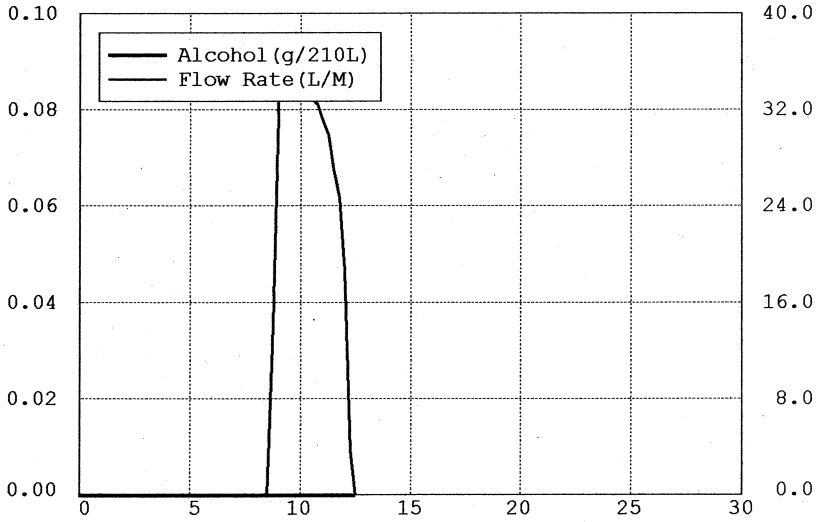


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 09/22/2009

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 104209
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009
Installed By: T T T

VERMONT
DEPARTMENT OF HEALTH

Site meets specification in doc P-ALC-210

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.80°C
Breath Tube = 48.10°C

SETTINGS
Lamp Voltage = 1.54 V
Cooler Voltage = 1.69 V
Bias Voltage = 81.2 V
Chopper Freq = 538.6 Hz

PUMP INFO
Flow Rate = 5.550 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.4297 0.4295
MIN(V) 0.4258 0.4274

FILTER INFO
Filter 1 0.429 Zero = true
Filter 2 0.676 Zero = true
Filter 3 0.721 Zero = true

CALIBRATION CHECK
Xq = 0.0844 0.51%

INSTALLATION PASSED

Accuracy and Precision Check

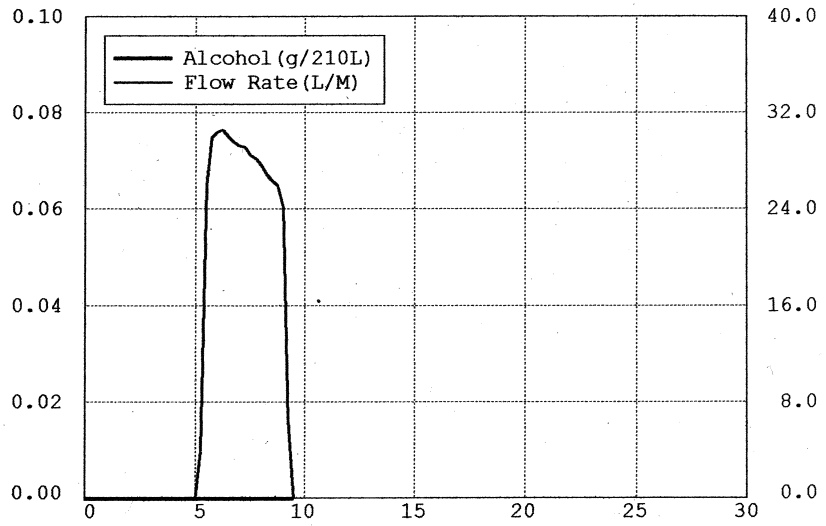
Concentration = 0.100 g/210L
Lot # = 9876
Average = 0.100 g/210L
Std Dev = 0.001

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



Performed by _____ **Date** 09/22/2009

Reviewed by _____ **Date** _____

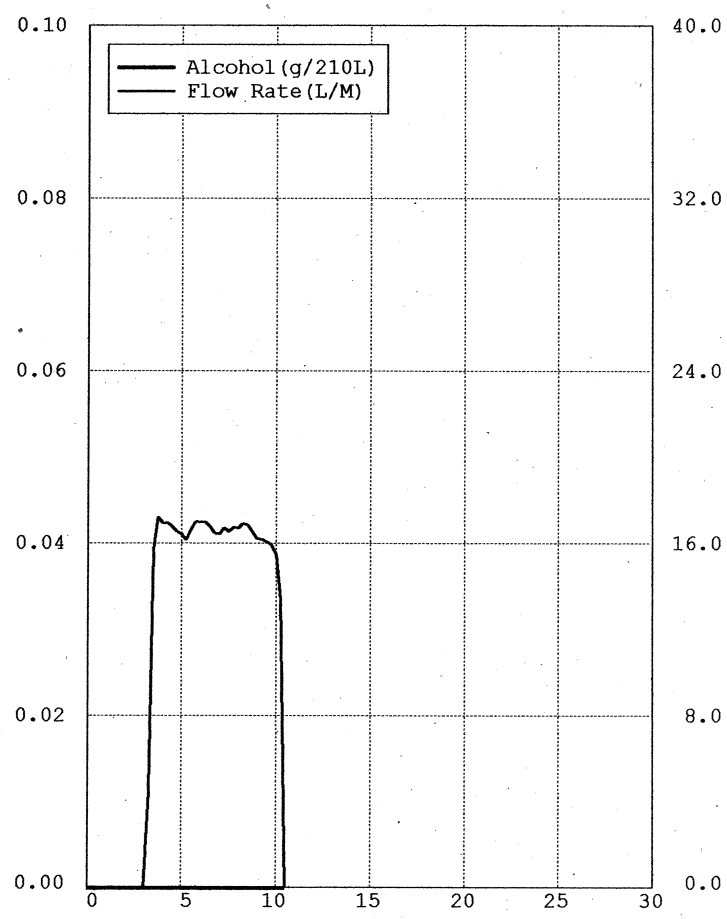
DUI Subject Test

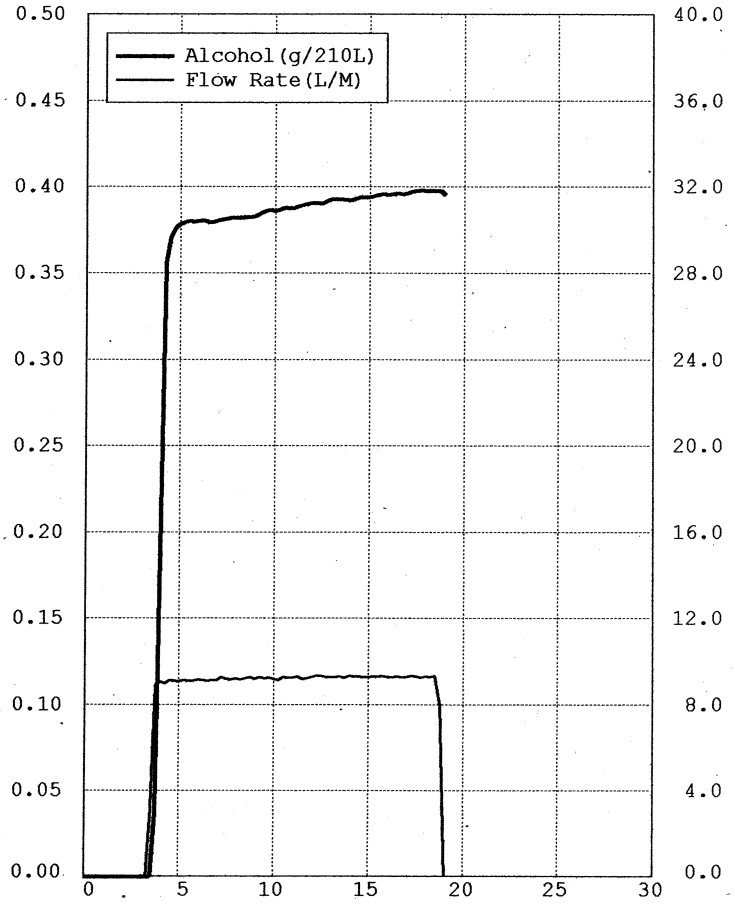
STATE OF VERMONT

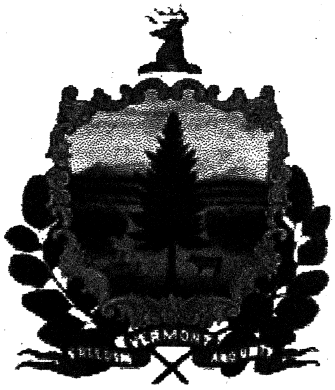
DataMaster DMT: 104209
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

Date: 09/23/2009
Time: 07:33:20

Obs. Period Start:		07:33
BLANK TEST	0.000	07:34
CALIBRATION CHECK	PASSED	07:34
Xq = 0.0848 (0.00%)		
SUBJECT SAMPLE (Vol=1.9L)	0.000	07:35
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	07:35
CALIBRATION CHECK	PASSED	07:36
Xq = 0.0848 (0.00%)		
SUBJECT SAMPLE (Vol=2.3L)	0.395	07:36
X[1] = 0.3955 (-0.0003) (0.0009)		







Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 104209
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

Date: 09/22/2009
Time: 11:45:37

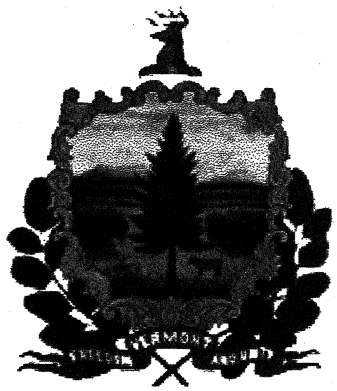
Subject Name: T T T
Date of Birth: 09/09/1100 Age: 909
Gender: M
License #:

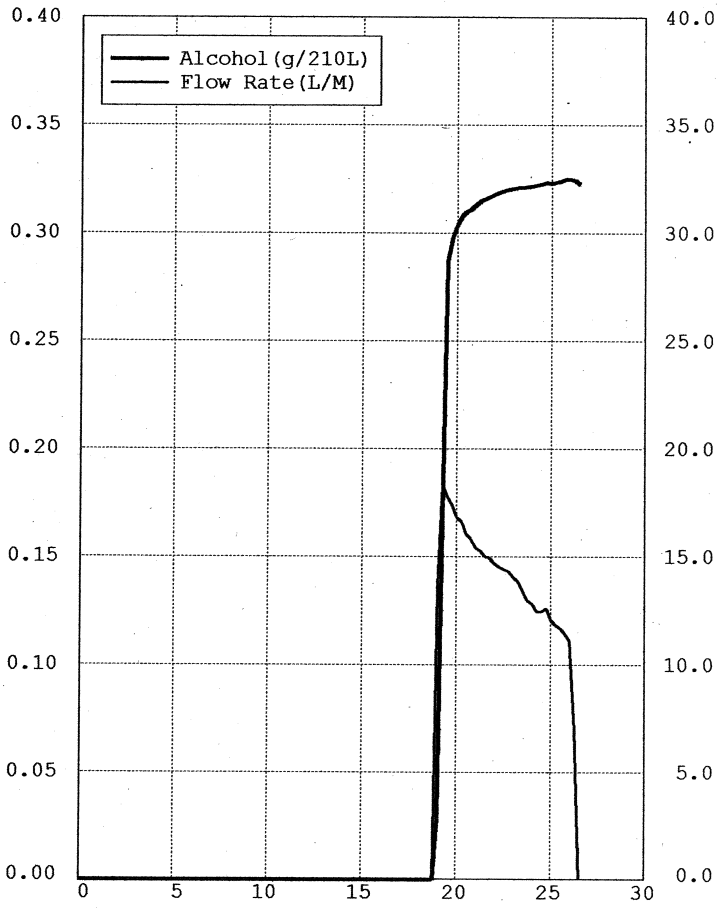
Test Operator Name: T T T
Agency: ADDISON COUNTY SO

BLANK TEST	0.000	11:46
CALIBRATION CHECK	PASSED	11:46
Xq = 0.0850 (0.21%)		
SIMULATOR VAPOR	0.101	11:47
X[1] = 0.1012 (0.0001) (0.0012)		
BLANK TEST	0.000	11:48
SUBJECT SAMPLE (Vol=1.8L)	0.099	11:48
X[1] = 0.0993 (-0.0020) (0.0010)		

All alcohol values reported in g/210L

Sim. Vapor Concentration	0.100
Sim. Vapor Range	0.095 - 0.105





Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 104209
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

Date: 09/22/2009
Time: 11:49:34

Subject Name: T T T
Date of Birth: 09/09/9090 Age: -7081
Guardian Present: Y
Gender: M
License #:

Test Operator Name: T T T
Agency: THETFORD PD

BLANK TEST	0.000	11:50
CALIBRATION CHECK	PASSED	11:50
Xq = 0.0850 (0.21%)		
SIMULATOR VAPOR	0.100	11:51
X[1] = 0.1003 (-0.0002) (0.0013)		
BLANK TEST	0.000	11:51
SUBJECT SAMPLE (Vol=1.7L)	0.324	11:52
X[1] = 0.3247 (-0.0008) (0.0007)		

All alcohol values reported in g/210L

Sim. Vapor Concentration	0.100
Sim. Vapor Range	0.095 - 0.105

DIAGNOSTIC RESULT

DataMaster DMT: 104209
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009
Test Date: 09/22/2009
Time: 11:54

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.03°C
Breath Tube    = 43.88°C

SETTINGS
Lamp Voltage   = 1.54 V
Cooler Voltage = 1.69 V
Bias Voltage   = 81.2 V
Chopper Freq   = 540.0 Hz

PUMP INFO
Flow Rate = 5.672 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.4382   0.4362
MIN(V)   0.4331   0.4347

FILTER INFO
Filter 1  0.436  Zero = true
Filter 2  0.683  Zero = true
Filter 3  0.737  Zero = true

CALIBRATION CHECK
Xq = 0.0852  0.51%
```

DIAGNOSTIC RESULT

DataMaster DMT: 104209
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009
Test Date: 09/23/2009
Time: 07:39

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.09°C
Breath Tube    = 46.52°C

SETTINGS
Lamp Voltage   = 1.54 V
Cooler Voltage = 1.69 V
Bias Voltage   = 81.2 V
Chopper Freq   = 536.1 Hz

PUMP INFO
Flow Rate = 5.464 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.5075   0.5049
MIN(V)   0.5000   0.5032

FILTER INFO
Filter 1  0.505  Zero = true
Filter 2  0.748  Zero = true
Filter 3  0.787  Zero = true

CALIBRATION CHECK
Xq = 0.0844  0.51%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

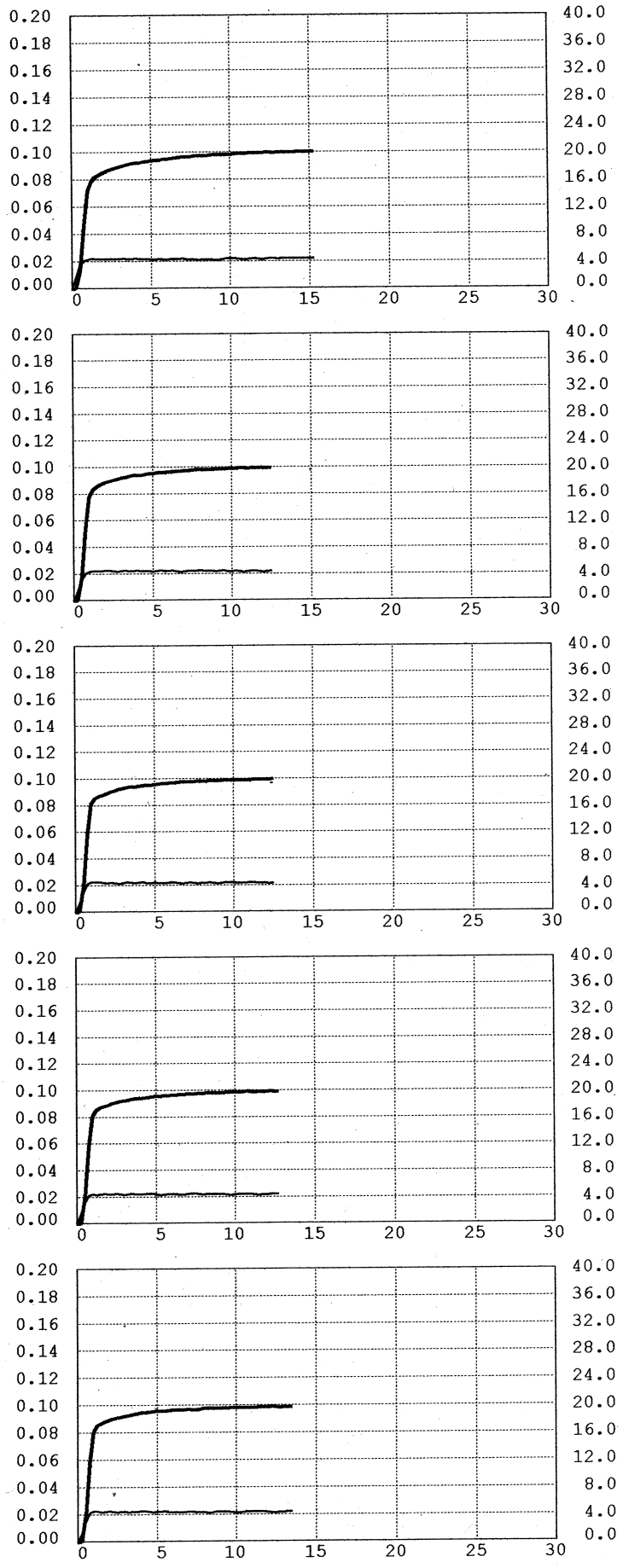
Date: 09/23/2009
Time: 06:55:42

SUPERVISOR NAME: GUIL H GUIGUI

SOLUTION LOT #: 178935676748384
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	06:56
CALIBRATION CHECK	PASSED	06:56
Xq = 0.0843 (0.61%)		
SIMULATOR VAPOR	0.100	06:57
X[1] = 0.1005 (-0.0005)	(-0.0017)	
SIMULATOR VAPOR	0.099	06:58
X[1] = 0.0997 (-0.0006)	(-0.0014)	
SIMULATOR VAPOR	0.099	06:59
X[1] = 0.0998 (-0.0006)	(-0.0011)	
SIMULATOR VAPOR	0.099	07:00
X[1] = 0.0992 (-0.0004)	(-0.0007)	
SIMULATOR VAPOR	0.099	07:01
X[1] = 0.0993 (-0.0010)	(-0.0011)	
BLANK TEST	0.000	07:02

Average = 0.099
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

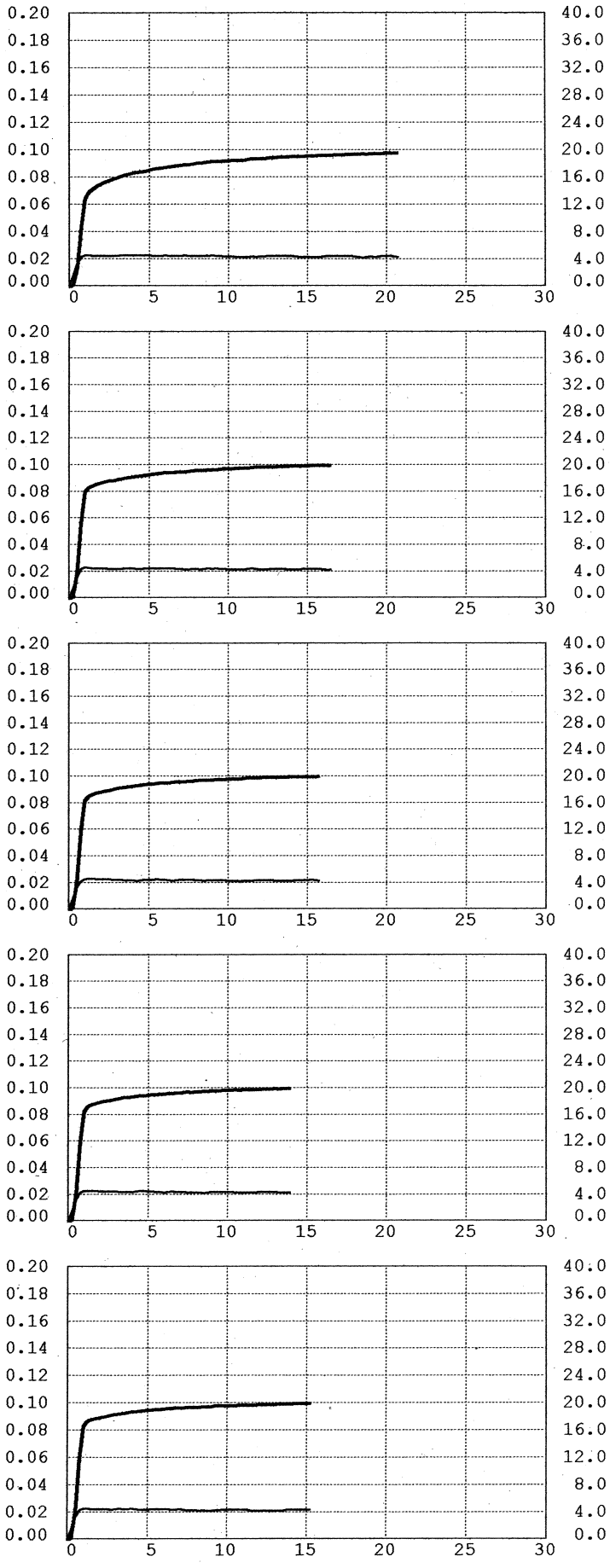
Date: 09/23/2009
Time: 07:19:35

SUPERVISOR NAME: HRW `IO`

SOLUTION LOT #: 89T4932UI[UQ
SOLUTION CONCENTRATION: 0.100

BLANK TEST		0.000	07:20
CALIBRATION CHECK		PASSED	07:20
Xq = 0.0846 (0.20%)			
SIMULATOR VAPOR		0.097	07:21
X[1] = 0.0977	(-0.0003)	(0.0002)	
SIMULATOR VAPOR		0.099	07:22
X[1] = 0.0998	(-0.0001)	(-0.0001)	
SIMULATOR VAPOR		0.099	07:23
X[1] = 0.0999	(-0.0006)	(-0.0007)	
SIMULATOR VAPOR		0.099	07:24
X[1] = 0.0995	(-0.0007)	(-0.0001)	
SIMULATOR VAPOR		0.100	07:25
X[1] = 0.1000	(-0.0006)	(-0.0005)	
BLANK TEST		0.000	07:26

Average = 0.098
Std Dev = 0.0010



Section 3: Power-Up Tests

CALIBRATION REPORT

DataMaster DMT: 104209
Calibration Date: 10/26/2009
Calibrated by: A L B
Lot: 10-02-100

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.101000
CAL =  1.025398     0.800 <= CAL < 1.200
b1  =  0.000000     0.000 <=  b1 < 0.004
b2  =  0.003857     0.001 <=  b2 < 0.012
b3  =  0.000000     0.000 <=  b3 < 0.004
Xq  =  0.085025     0.050 <=  Xq < 0.200
a21 =  1.165041     1.050 <= a21 < 1.300
a31 =  0.445758     0.300 <= a31 < 0.800
```

Performed by _____ **Date** 10/26/2009

CERTIFICATION REPORT

DataMaster DMT: 104209
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Certified by: A L B

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.03°C
Breath Tube = 48.09°C

SETTINGS
Lamp Voltage = 1.59 V
Cooler Voltage = 1.69 V
Bias Voltage = 80.9 V
Chopper Freq = 543.8 Hz

PUMP INFO
Flow Rate = 5.746 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) -0.0248 -0.0228
MIN(V) -0.0260 -0.0242

FILTER INFO
Filter 1 -0.024 Zero = true
Filter 2 0.238 Zero = true
Filter 3 0.333 Zero = true

CALIBRATION CHECK
Xq = 0.0849 0.10%

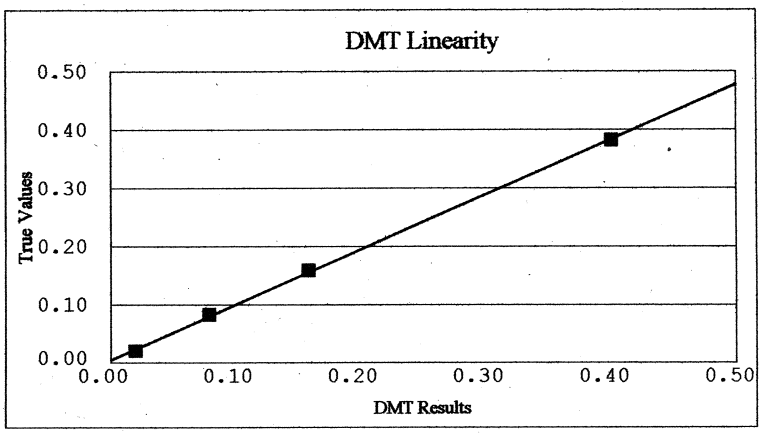
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.101
Digital Simulator: none
Simulator Before: yes
Simulator Between: yes
Simulator After: no
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 1
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100

Linearity Check Results

True Value	Reported Average	Std Dev
0.021 g/210L	0.020 g/210L	0.000
Lot # 09-34-020		
0.083 g/210L	0.079 g/210L	0.000
Lot # 09-43-080		
0.159 g/210L	0.159 g/210L	0.000
Lot # 09-38-160		
0.382 g/210L	0.400 g/210L	0.002
Lot # 09-36-400		

$R^2 = 0.9996$



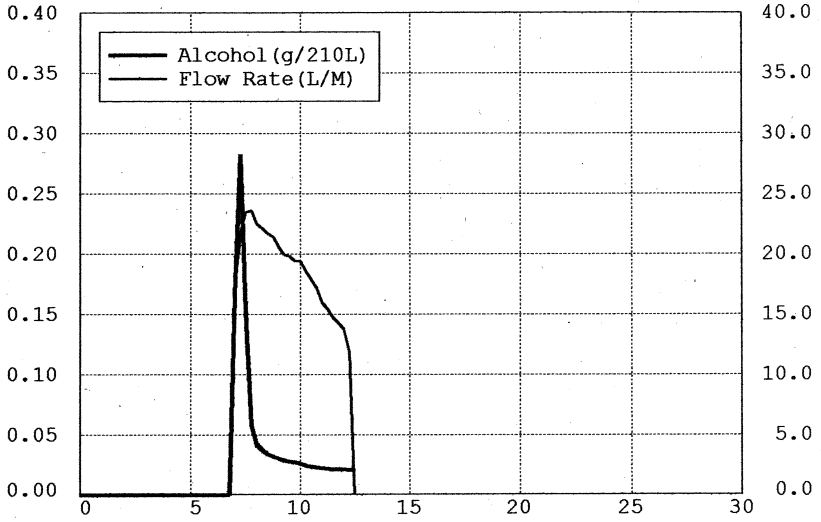
Acetone Interference Test

Lot # 10-05-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

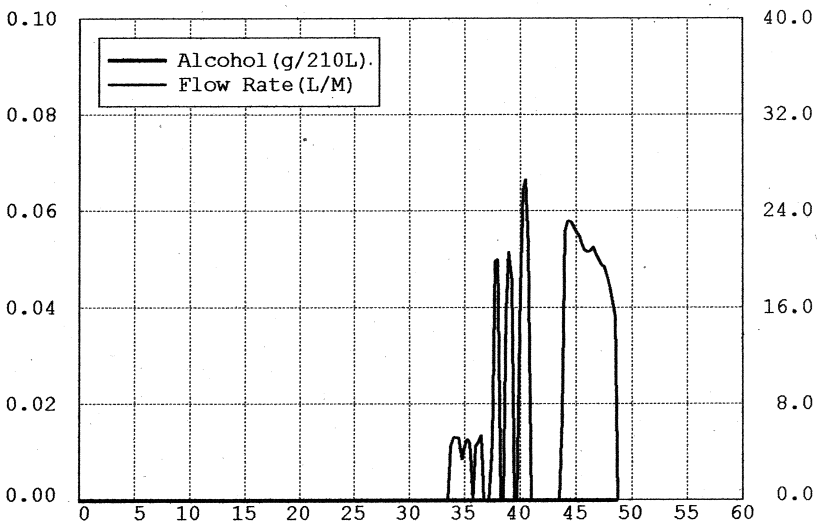


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by * _____ **Date** 10/27/2009

Reviewed by _____ **Date** _____

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

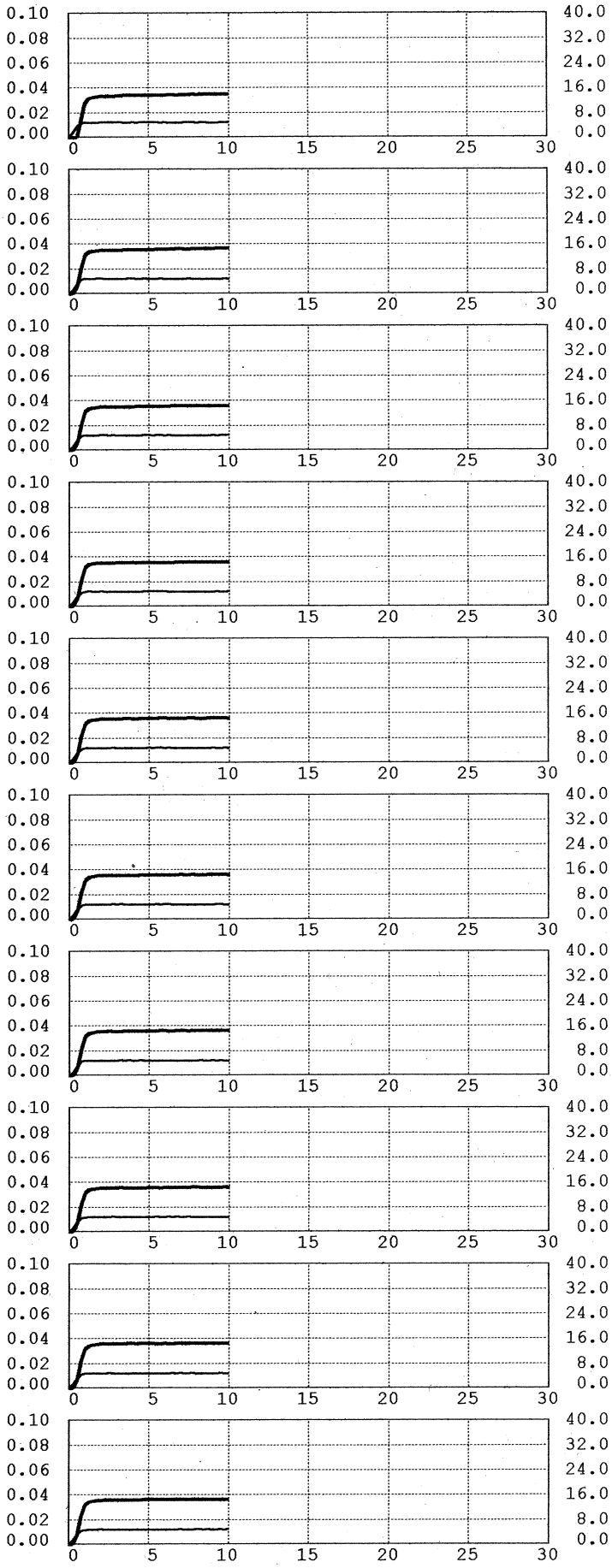
Date: 10/27/2009
Time: 09:41:50

SUPERVISOR NAME: ALB .04IPA IN H2O

SOLUTION LOT #: ~~10-06-04I~~ 10-16-04I (A)
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:42
CALIBRATION CHECK	PASSED	09:42
SIMULATOR VAPOR	INTERFERENCE	09:43
SIMULATOR VAPOR	INTERFERENCE	09:44
SIMULATOR VAPOR	INTERFERENCE	09:45
SIMULATOR VAPOR	INTERFERENCE	09:46
SIMULATOR VAPOR	INTERFERENCE	09:47
SIMULATOR VAPOR	INTERFERENCE	09:48
SIMULATOR VAPOR	INTERFERENCE	09:49
SIMULATOR VAPOR	INTERFERENCE	09:50
SIMULATOR VAPOR	INTERFERENCE	09:51
SIMULATOR VAPOR	INTERFERENCE	09:51
BLANK TEST	0.000	09:52

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

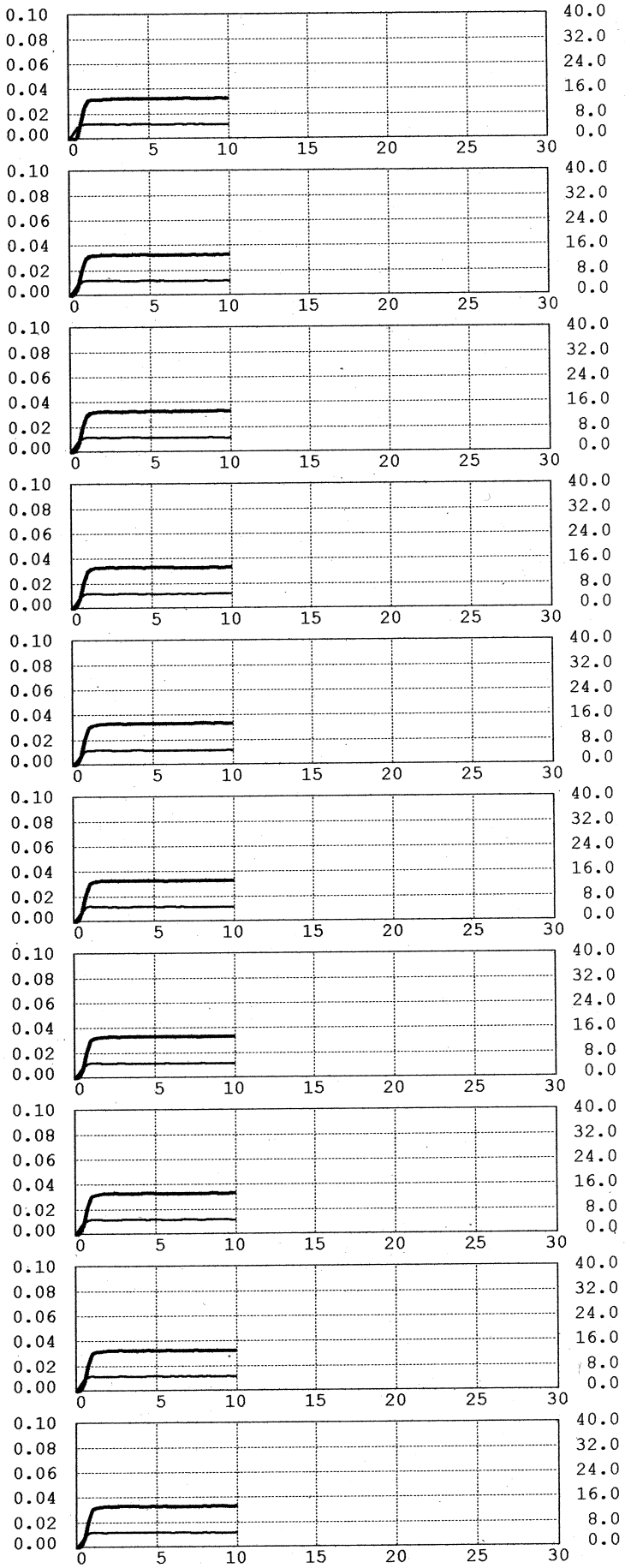
Date: 10/27/2009
Time: 10:19:52

SUPERVISOR NAME: ALB .04MEOH IN H2O

SOLUTION LOT #: 10-07-04M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:20
CALIBRATION CHECK	PASSED	10:20
SIMULATOR VAPOR	INTERFERENCE	10:21
SIMULATOR VAPOR	INTERFERENCE	10:22
SIMULATOR VAPOR	INTERFERENCE	10:23
SIMULATOR VAPOR	INTERFERENCE	10:24
SIMULATOR VAPOR	INTERFERENCE	10:25
SIMULATOR VAPOR	INTERFERENCE	10:26
SIMULATOR VAPOR	INTERFERENCE	10:27
SIMULATOR VAPOR	INTERFERENCE	10:28
SIMULATOR VAPOR	INTERFERENCE	10:29
SIMULATOR VAPOR	INTERFERENCE	10:30
BLANK TEST	0.000	10:30

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

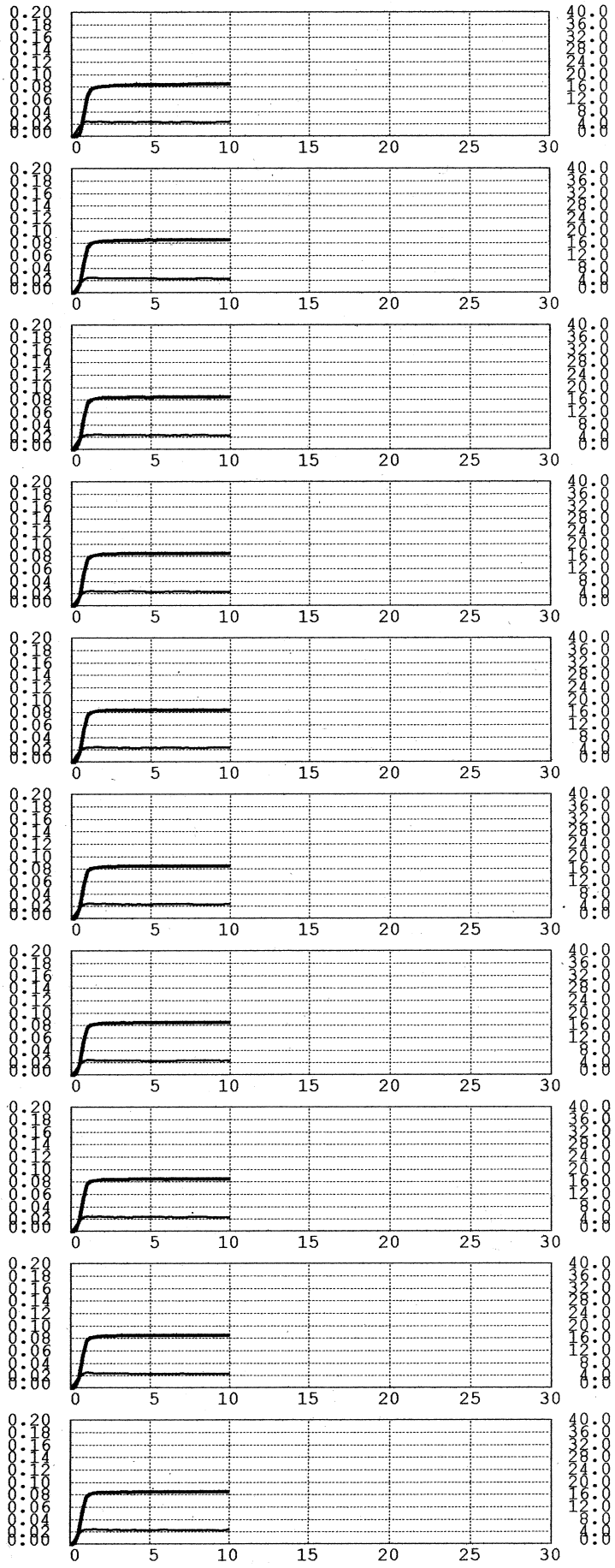
Date: 10/27/2009
Time: 11:34:37

SUPERVISOR NAME: ALB .01ACETONE IN .08ETOH

SOLUTION LOT #: 10-05-08A1
SOLUTION CONCENTRATION: 0.079

BLANK TEST	0.000	11:35
CALIBRATION CHECK	PASSED	11:35
SIMULATOR VAPOR	INTERFERENCE	11:35
SIMULATOR VAPOR	INTERFERENCE	11:36
SIMULATOR VAPOR	INTERFERENCE	11:37
SIMULATOR VAPOR	INTERFERENCE	11:38
SIMULATOR VAPOR	INTERFERENCE	11:39
SIMULATOR VAPOR	INTERFERENCE	11:40
SIMULATOR VAPOR	INTERFERENCE	11:41
SIMULATOR VAPOR	INTERFERENCE	11:42
SIMULATOR VAPOR	INTERFERENCE	11:43
SIMULATOR VAPOR	INTERFERENCE	11:44
BLANK TEST	0.000	11:45

Average out of range!



Section 4: Linearity

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

Date: 11/02/2009
Time: 13:44:24

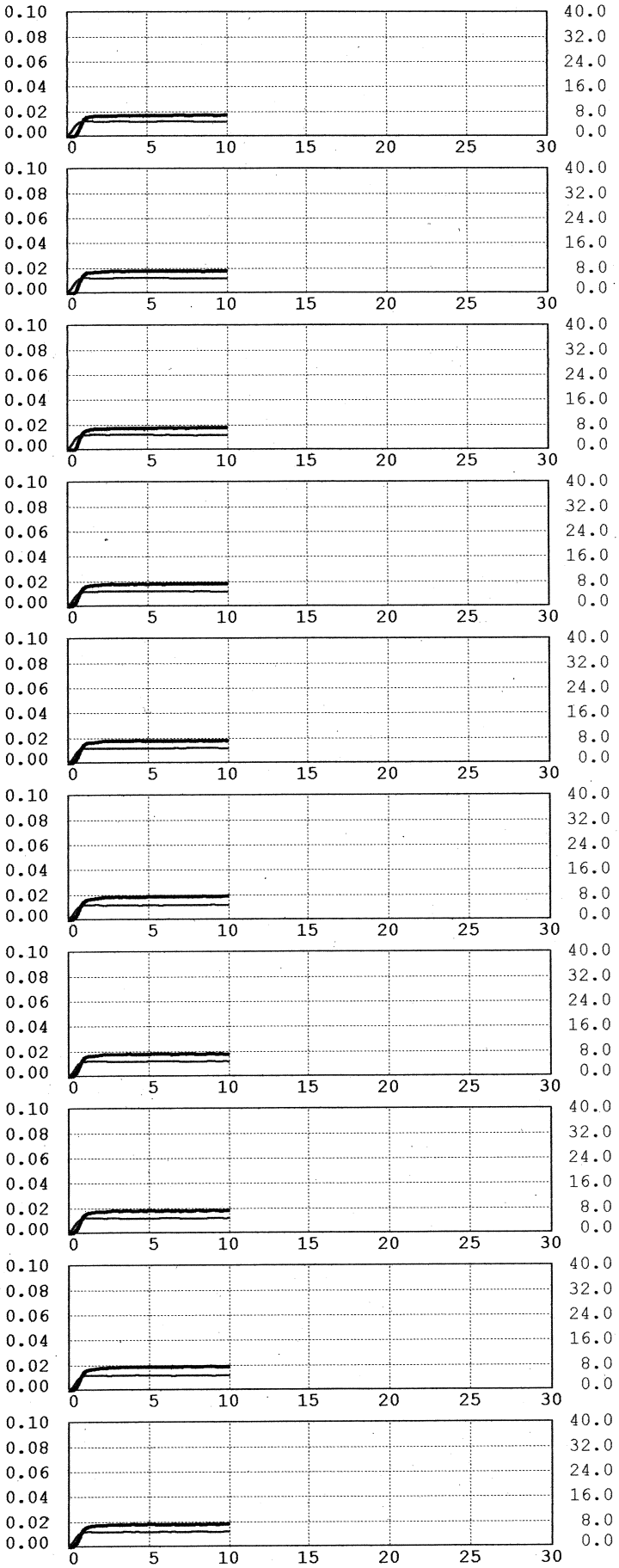
SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:45
CALIBRATION CHECK	PASSED	13:45
SIMULATOR VAPOR	0.018	13:45
SIMULATOR VAPOR	0.018	13:46
SIMULATOR VAPOR	0.019	13:47
SIMULATOR VAPOR	0.019	13:48
SIMULATOR VAPOR	0.019	13:49
SIMULATOR VAPOR	0.019	13:50
SIMULATOR VAPOR	0.019	13:51
SIMULATOR VAPOR	0.018	13:52
SIMULATOR VAPOR	0.019	13:53
SIMULATOR VAPOR	0.018	13:54
BLANK TEST	0.000	13:55

Average out of range!

Average = 0.018
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

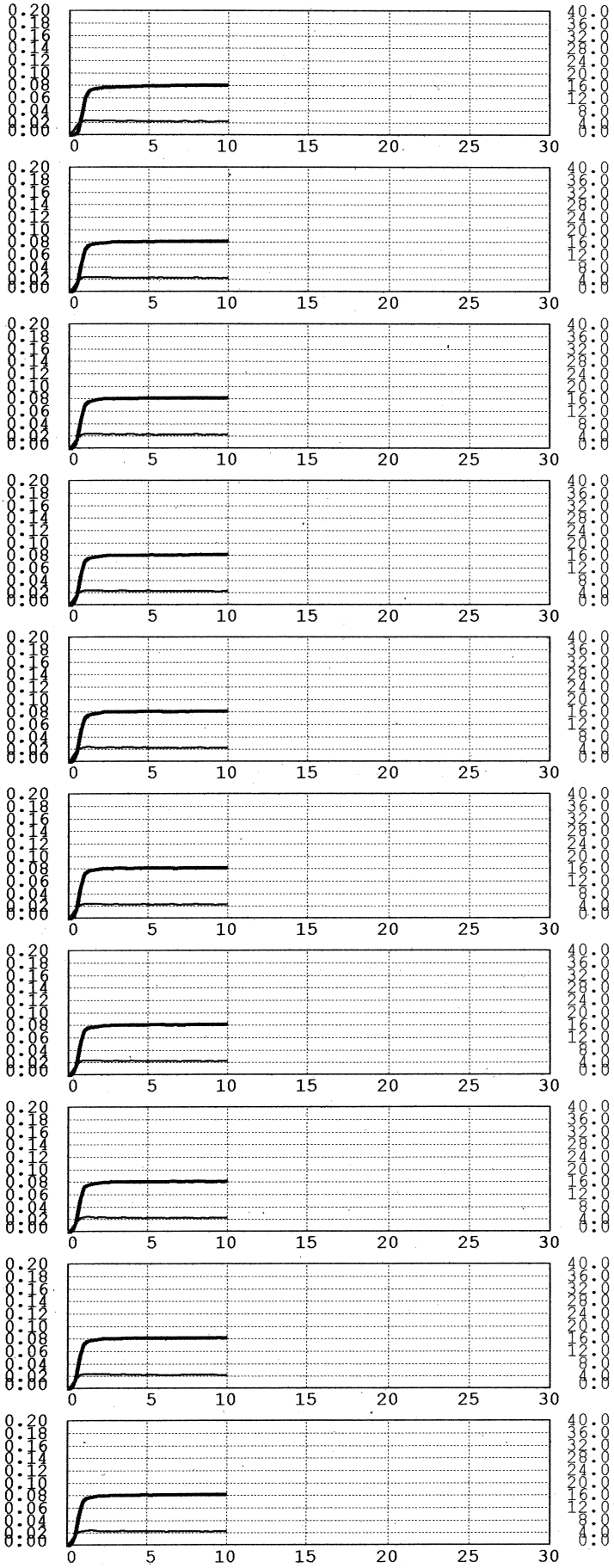
Date: 11/02/2009
Time: 13:57:17

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	13:58
CALIBRATION CHECK	PASSED	13:58
SIMULATOR VAPOR	0.080	13:58
SIMULATOR VAPOR	0.081	13:59
SIMULATOR VAPOR	0.081	14:00
SIMULATOR VAPOR	0.081	14:01
SIMULATOR VAPOR	0.081	14:02
SIMULATOR VAPOR	0.081	14:03
SIMULATOR VAPOR	0.081	14:04
SIMULATOR VAPOR	0.080	14:05
SIMULATOR VAPOR	0.081	14:06
SIMULATOR VAPOR	0.081	14:07
BLANK TEST	0.000	14:08

Average = 0.080
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

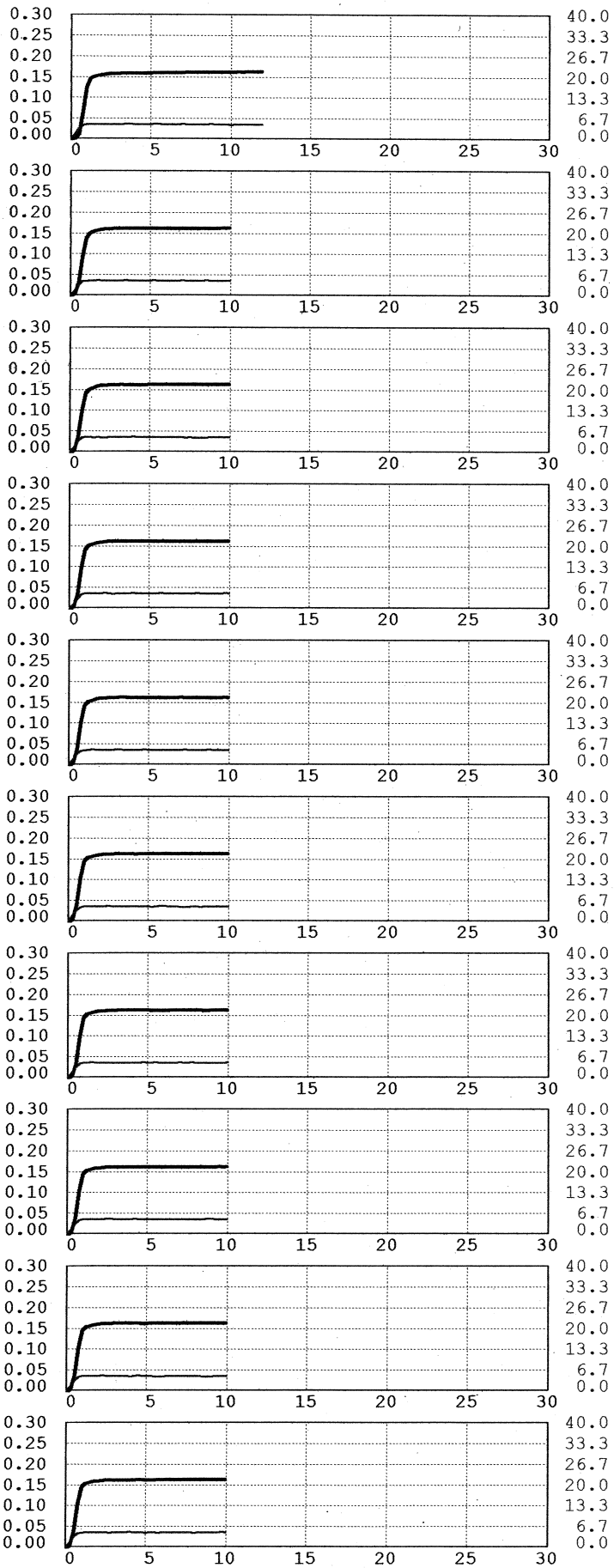
Date: 11/02/2009
Time: 14:11:55

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	14:12
CALIBRATION CHECK	PASSED	14:12
SIMULATOR VAPOR	0.161	14:13
SIMULATOR VAPOR	0.161	14:14
SIMULATOR VAPOR	0.162	14:15
SIMULATOR VAPOR	0.161	14:16
SIMULATOR VAPOR	0.161	14:17
SIMULATOR VAPOR	0.163	14:18
SIMULATOR VAPOR	0.162	14:19
SIMULATOR VAPOR	0.161	14:20
SIMULATOR VAPOR	0.162	14:21
SIMULATOR VAPOR	0.162	14:22
BLANK TEST	0.000	14:23

Average = 0.161
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

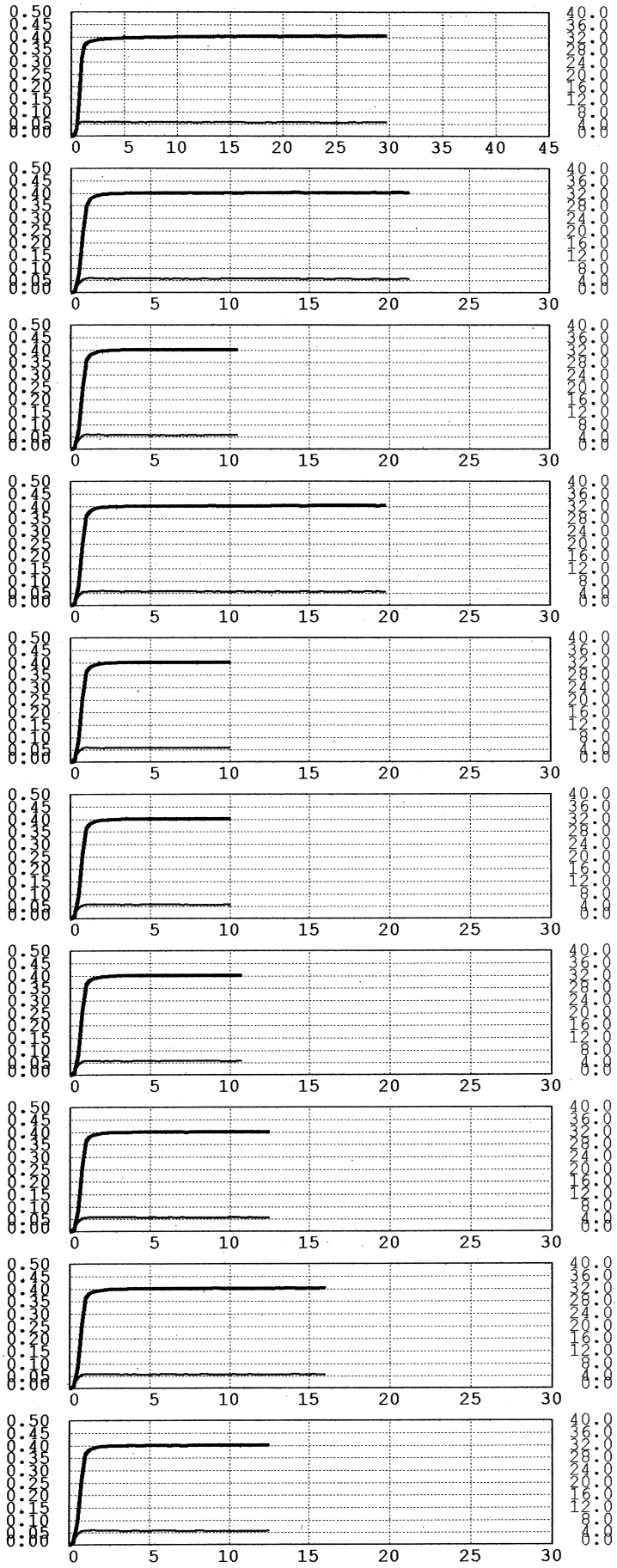
Date: 11/02/2009
Time: 14:26:43

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	14:27
CALIBRATION CHECK	PASSED	14:27
SIMULATOR VAPOR	0.404	14:28
SIMULATOR VAPOR	0.402	14:29
SIMULATOR VAPOR	0.399	14:30
SIMULATOR VAPOR	0.401	14:31
SIMULATOR VAPOR	0.400	14:32
SIMULATOR VAPOR	0.399	14:33
SIMULATOR VAPOR	0.401	14:34
SIMULATOR VAPOR	0.401	14:35
SIMULATOR VAPOR	0.401	14:37
SIMULATOR VAPOR	0.401	14:38
BLANK TEST	0.000	14:38

Average = 0.400
Std Dev = 0.0014



DIAGNOSTIC RESULT

DataMaster DMT: 104209
Location: [redacted] ?
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/13/2009
Time: 16:59

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.97°C
Breath Tube    = 47.70°C

SETTINGS
Lamp Voltage   = 1.59 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.9 V
Chopper Freq   = 541.6 Hz

PUMP INFO
Flow Rate = 5.777 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0083  -0.0110
MIN(V) -0.0144  -0.0124

FILTER INFO
Filter 1 -0.012  Zero = true
Filter 2  0.247  Zero = true
Filter 3  0.351  Zero = true

CALIBRATION CHECK
Xq = 0.0851  0.20%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

Date: 11/13/2009
Time: 14:26:25

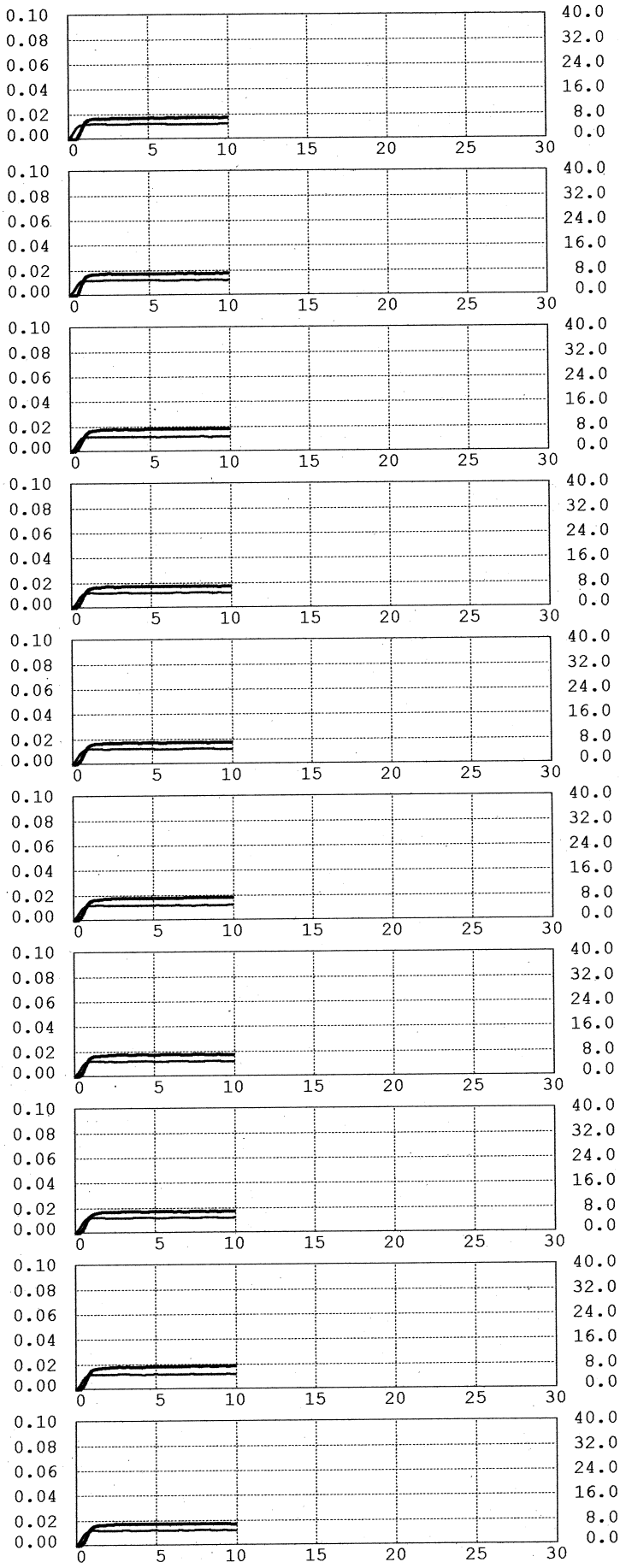
SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:27
CALIBRATION CHECK	PASSED	14:27
SIMULATOR VAPOR	0.018	14:27
SIMULATOR VAPOR	0.018	14:28
SIMULATOR VAPOR	0.019	14:29
SIMULATOR VAPOR	0.018	14:30
SIMULATOR VAPOR	0.018	14:31
SIMULATOR VAPOR	0.019	14:32
SIMULATOR VAPOR	0.018	14:33
SIMULATOR VAPOR	0.018	14:34
SIMULATOR VAPOR	0.019	14:35
SIMULATOR VAPOR	0.018	14:36
BLANK TEST	0.000	14:37

Average out of range!

Average = 0.018
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

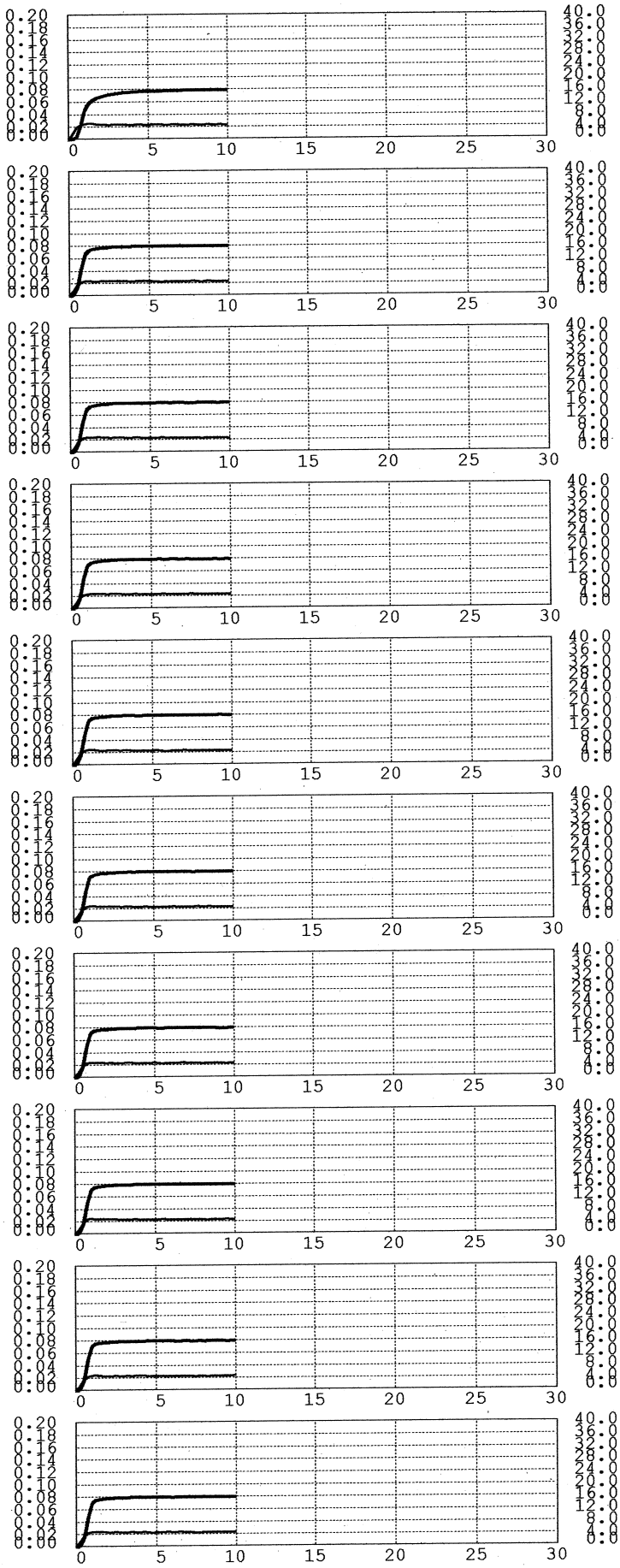
Date: 11/13/2009
Time: 15:28:14

SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	15:29
CALIBRATION CHECK	PASSED	15:29
SIMULATOR VAPOR	0.079	15:29
SIMULATOR VAPOR	0.079	15:30
SIMULATOR VAPOR	0.079	15:31
SIMULATOR VAPOR	0.079	15:32
SIMULATOR VAPOR	0.080	15:33
SIMULATOR VAPOR	0.079	15:34
SIMULATOR VAPOR	0.079	15:35
SIMULATOR VAPOR	0.079	15:36
SIMULATOR VAPOR	0.079	15:37
SIMULATOR VAPOR	0.079	15:38
BLANK TEST	0.000	15:39

Average = 0.079
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

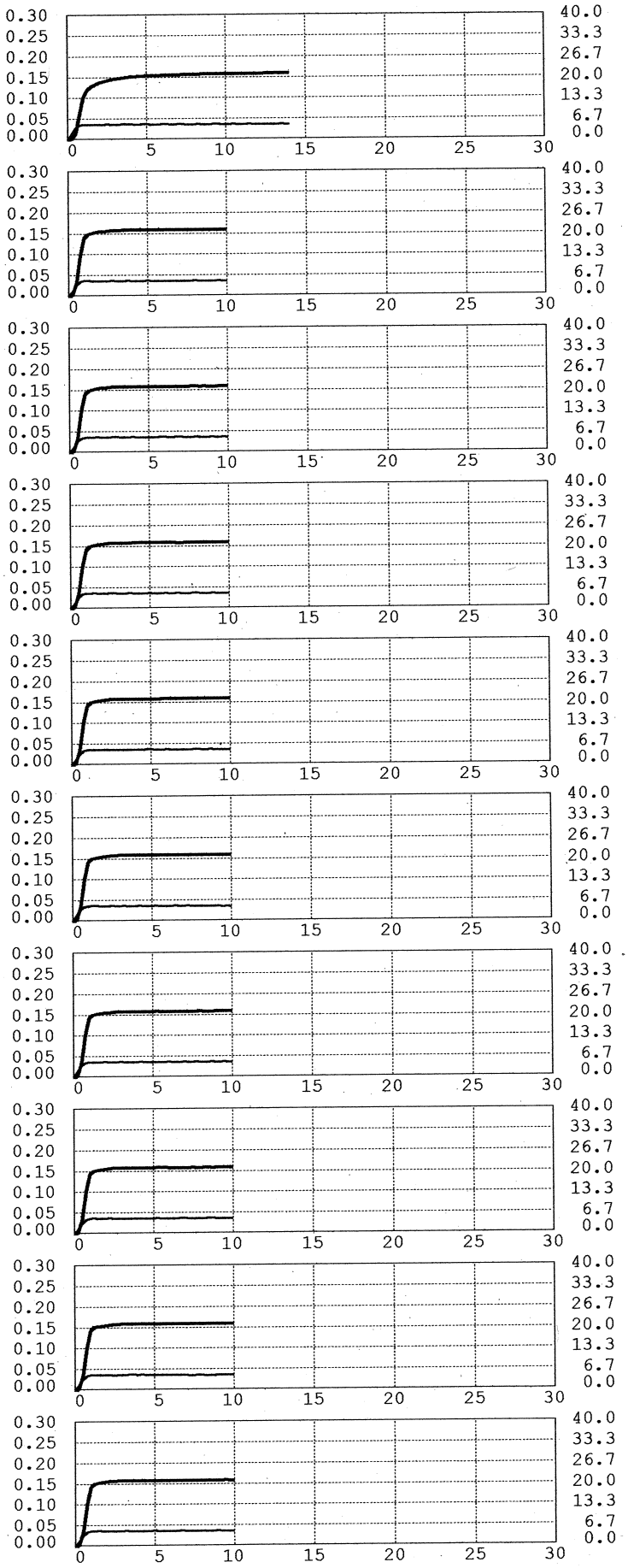
Date: 11/13/2009
Time: 16:05:03

SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	16:05
CALIBRATION CHECK	PASSED	16:06
SIMULATOR VAPOR	0.158	16:06
SIMULATOR VAPOR	0.158	16:07
SIMULATOR VAPOR	0.157	16:08
SIMULATOR VAPOR	0.158	16:09
SIMULATOR VAPOR	0.157	16:10
SIMULATOR VAPOR	0.158	16:11
SIMULATOR VAPOR	0.157	16:12
SIMULATOR VAPOR	0.157	16:13
SIMULATOR VAPOR	0.158	16:14
SIMULATOR VAPOR	0.157	16:15
BLANK TEST	0.000	16:16

Average = 0.157
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

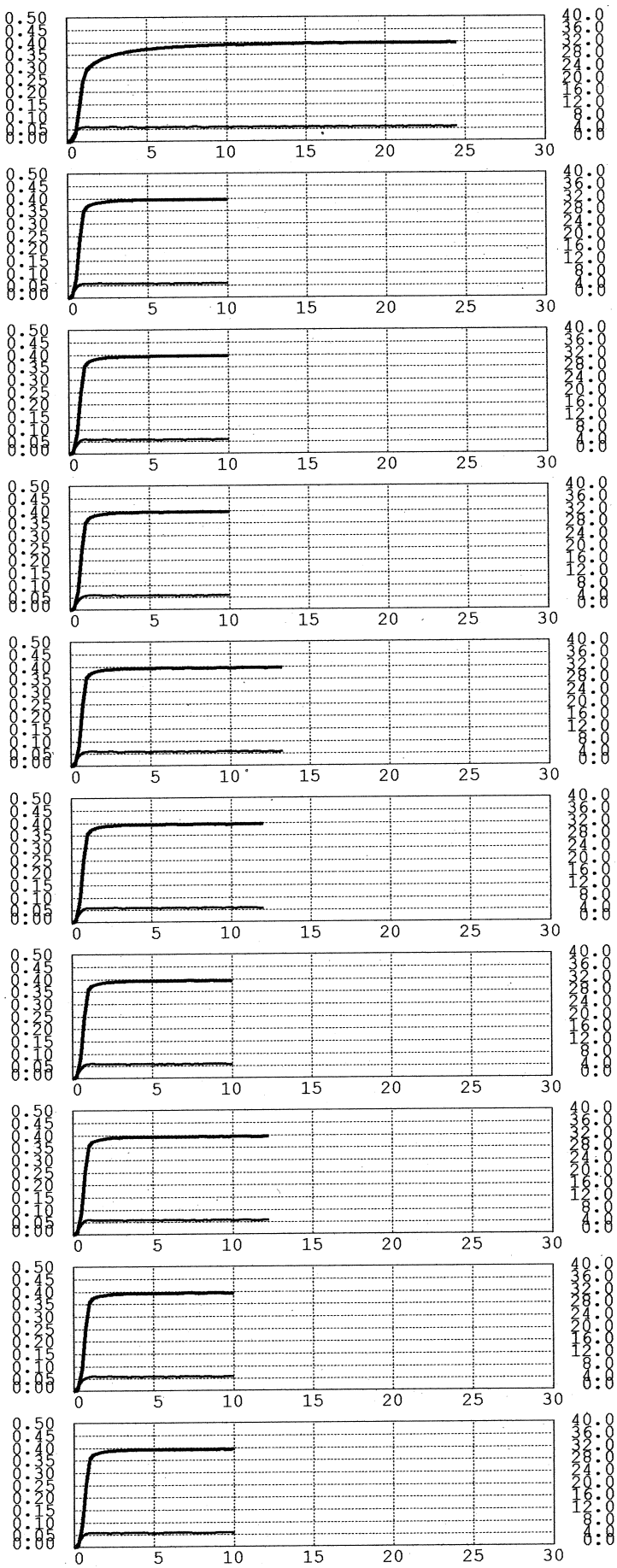
Date: 11/13/2009
Time: 16:38:11

SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	16:39
CALIBRATION CHECK	PASSED	16:39
SIMULATOR VAPOR	0.393	16:39
SIMULATOR VAPOR	0.393	16:40
SIMULATOR VAPOR	0.393	16:41
SIMULATOR VAPOR	0.393	16:42
SIMULATOR VAPOR	0.393	16:43
SIMULATOR VAPOR	0.393	16:44
SIMULATOR VAPOR	0.391	16:45
SIMULATOR VAPOR	0.393	16:46
SIMULATOR VAPOR	0.392	16:47
SIMULATOR VAPOR	0.392	16:48
BLANK TEST	0.000	16:49

Average = 0.392
Std Dev = 0.0006



DIAGNOSTIC RESULT

DataMaster DMT: 104209
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/17/2009
Time: 08:17

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube    = 46.18°C

SETTINGS
Lamp Voltage   = 1.59 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.8 V
Chopper Freq   = 544.0 Hz

PUMP INFO
Flow Rate = 5.880 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0677   -0.0671
MIN(V) -0.0703   -0.0685

FILTER INFO
Filter 1 -0.068  Zero = true
Filter 2  0.197  Zero = true
Filter 3  0.277  Zero = true

CALIBRATION CHECK
Xq = 0.0838  1.43%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

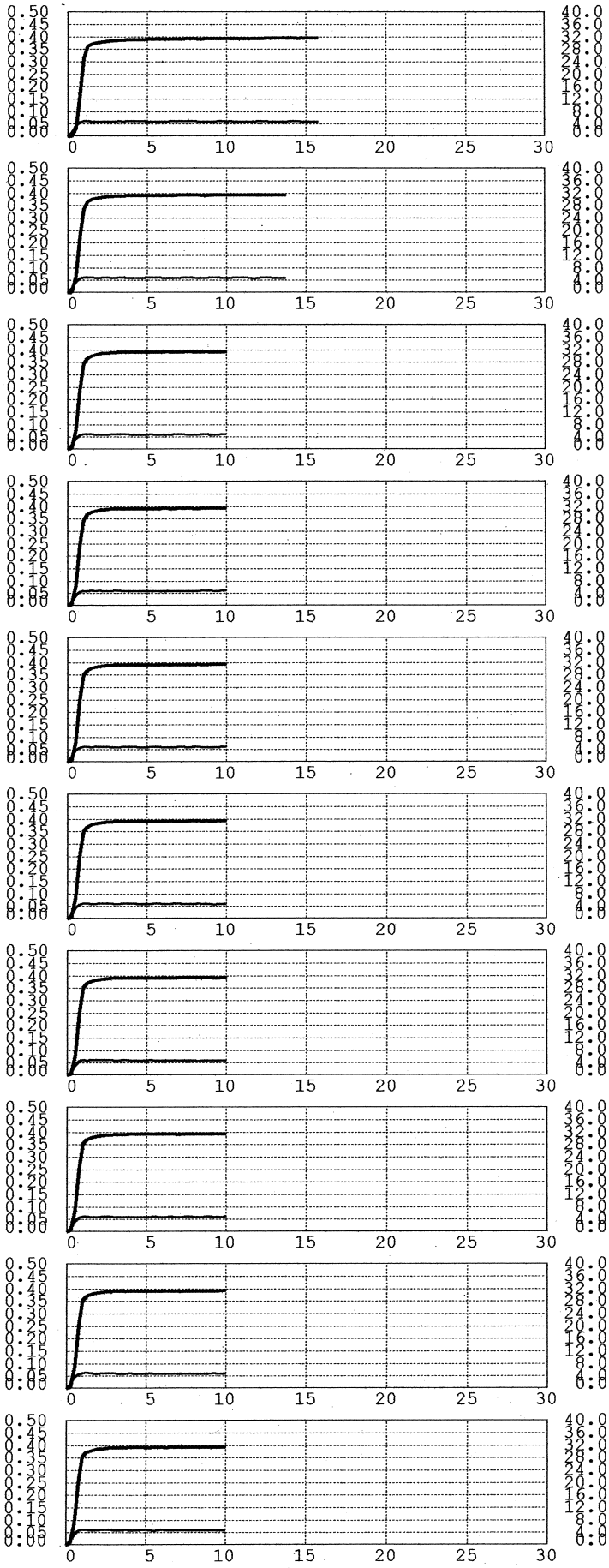
Date: 11/17/2009
Time: 08:18:53

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	08:19
CALIBRATION CHECK	PASSED	08:19
SIMULATOR VAPOR	0.392	08:20
SIMULATOR VAPOR	0.391	08:21
SIMULATOR VAPOR	0.390	08:22
SIMULATOR VAPOR	0.389	08:23
SIMULATOR VAPOR	0.390	08:24
SIMULATOR VAPOR	0.391	08:25
SIMULATOR VAPOR	0.390	08:26
SIMULATOR VAPOR	0.391	08:27
SIMULATOR VAPOR	0.389	08:28
SIMULATOR VAPOR	0.390	08:29
BLANK TEST	0.000	08:30

Average = 0.390
Std Dev = 0.0009



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

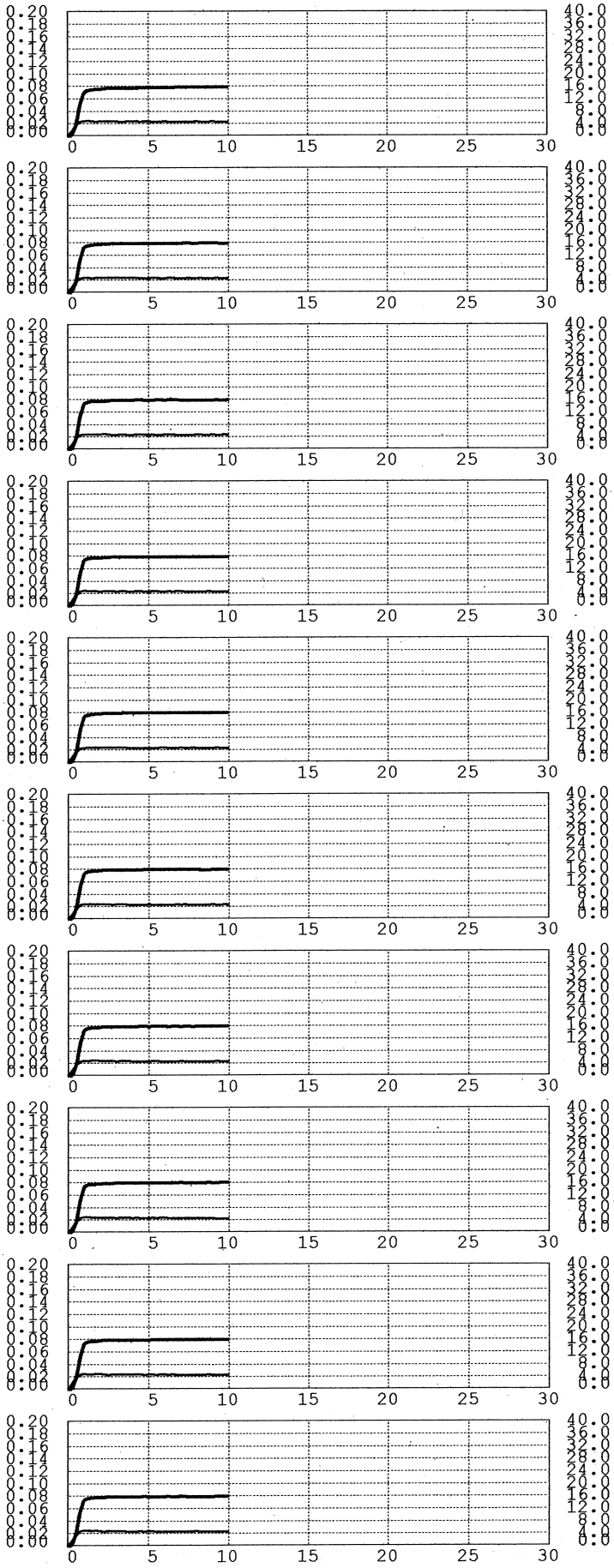
Date: 11/17/2009
Time: 09:37:59

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	09:38
CALIBRATION CHECK	PASSED	09:39
SIMULATOR VAPOR	0.078	09:39
SIMULATOR VAPOR	0.079	09:40
SIMULATOR VAPOR	0.079	09:41
SIMULATOR VAPOR	0.079	09:42
SIMULATOR VAPOR	0.079	09:43
SIMULATOR VAPOR	0.079	09:44
SIMULATOR VAPOR	0.079	09:45
SIMULATOR VAPOR	0.080	09:46
SIMULATOR VAPOR	0.079	09:47
SIMULATOR VAPOR	0.079	09:48
BLANK TEST	0.000	09:48

Average = 0.079
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

Date: 11/17/2009
Time: 09:55:14

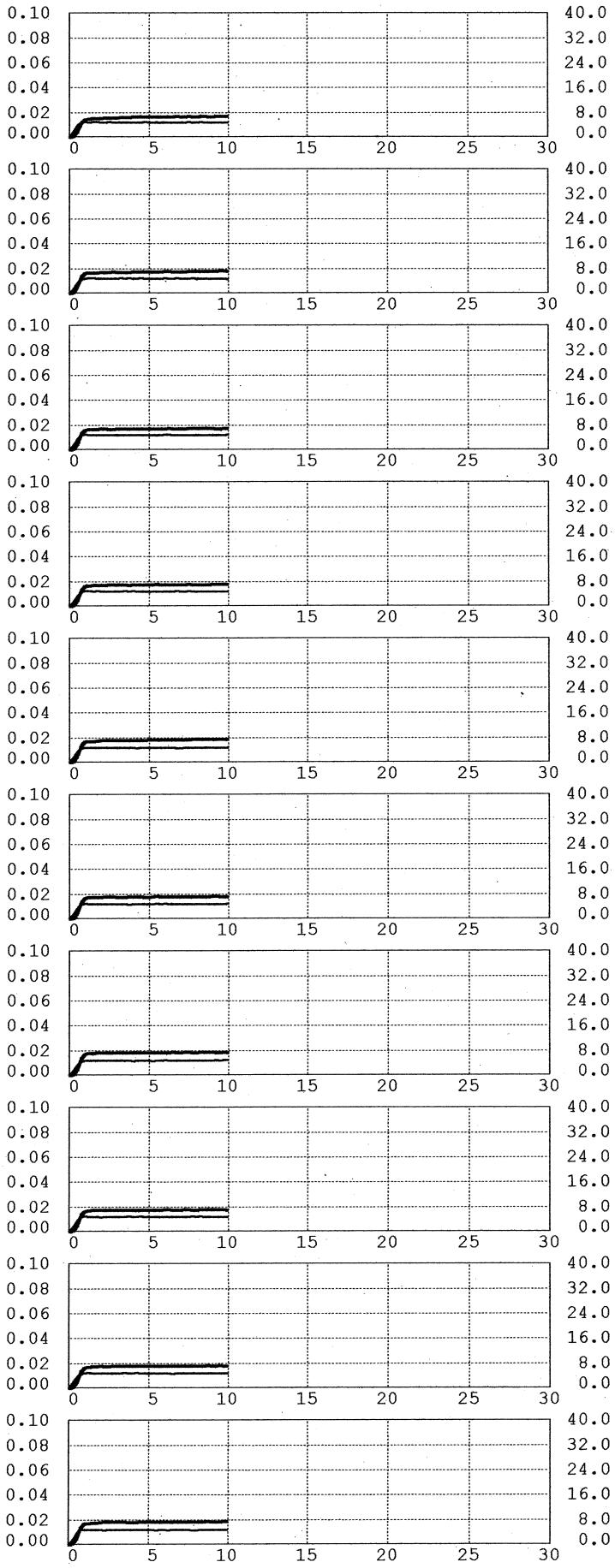
SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	09:56
CALIBRATION CHECK	PASSED	09:56
SIMULATOR VAPOR	0.017	09:56
SIMULATOR VAPOR	0.018	09:57
SIMULATOR VAPOR	0.017	09:58
SIMULATOR VAPOR	0.018	09:59
SIMULATOR VAPOR	0.018	10:00
SIMULATOR VAPOR	0.018	10:01
SIMULATOR VAPOR	0.018	10:02
SIMULATOR VAPOR	0.018	10:03
SIMULATOR VAPOR	0.018	10:04
SIMULATOR VAPOR	0.018	10:05
BLANK TEST	0.000	10:06

Average out of range!

Average = 0.017
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

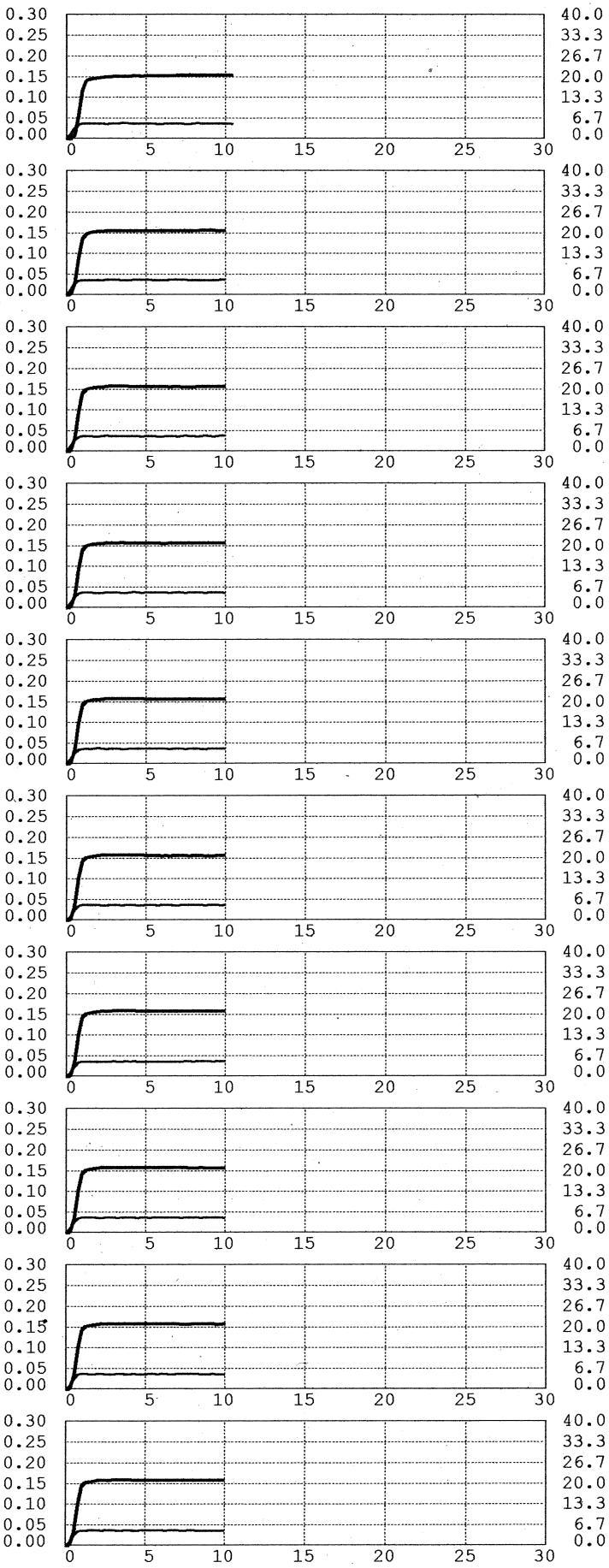
Date: 11/17/2009
Time: 15:13:21

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	15:14
CALIBRATION CHECK	PASSED	15:14
SIMULATOR VAPOR	0.153	15:14
SIMULATOR VAPOR	0.155	15:15
SIMULATOR VAPOR	0.155	15:16
SIMULATOR VAPOR	0.155	15:17
SIMULATOR VAPOR	0.155	15:18
SIMULATOR VAPOR	0.155	15:19
SIMULATOR VAPOR	0.156	15:20
SIMULATOR VAPOR	0.156	15:21
SIMULATOR VAPOR	0.156	15:22
SIMULATOR VAPOR	0.157	15:23
BLANK TEST	0.000	15:24

Average = 0.155
Std Dev = 0.0010



DIAGNOSTIC RESULT

DataMaster DMT: 104209
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/23/2009
Time: 17:16

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.74°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.59 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.9 V
Chopper Freq   = 542.8 Hz

PUMP INFO
Flow Rate = 5.712 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0104   -0.0098
MIN(V) -0.0122   -0.0114

FILTER INFO
Filter 1 -0.010  Zero = true
Filter 2  0.251  Zero = true
Filter 3  0.362  Zero = true

CALIBRATION CHECK
Xq = 0.0842  0.92%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

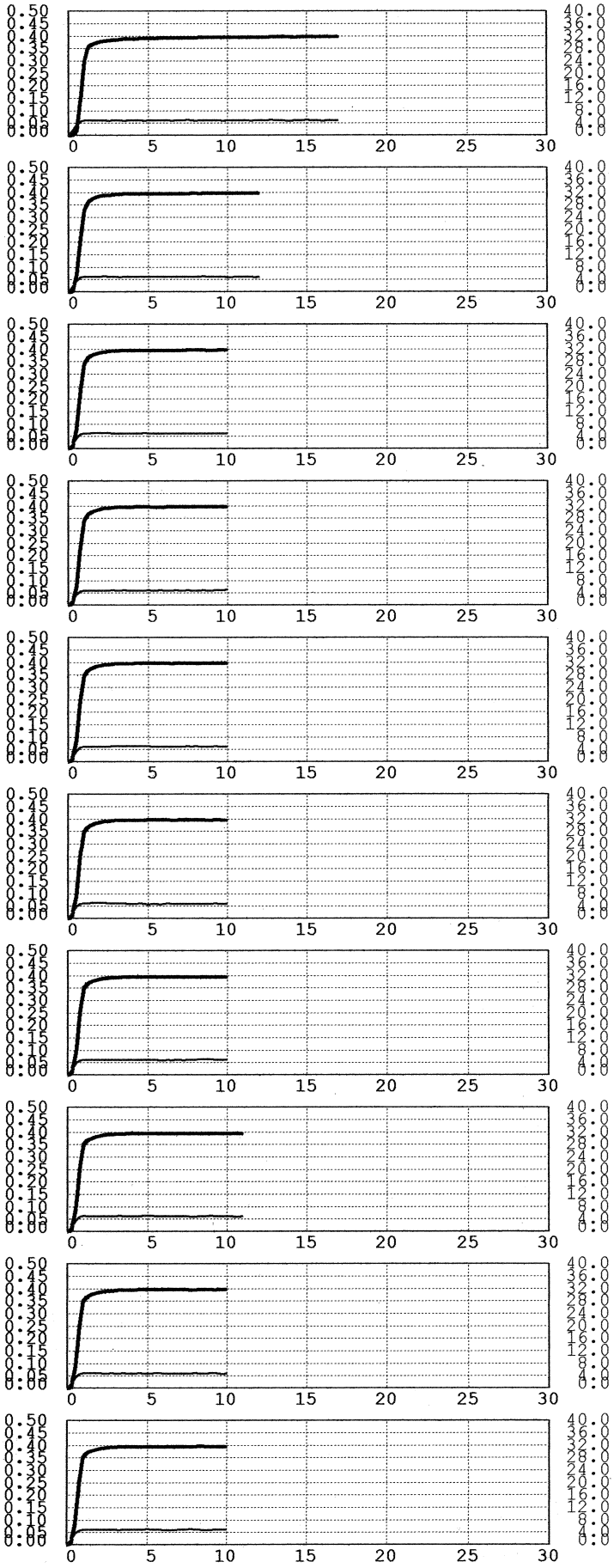
Date: 11/23/2009
Time: 15:39:20

SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	15:40
CALIBRATION CHECK	PASSED	15:40
SIMULATOR VAPOR	0.395	15:40
SIMULATOR VAPOR	0.394	15:42
SIMULATOR VAPOR	0.394	15:43
SIMULATOR VAPOR	0.394	15:44
SIMULATOR VAPOR	0.394	15:45
SIMULATOR VAPOR	0.393	15:46
SIMULATOR VAPOR	0.393	15:47
SIMULATOR VAPOR	0.392	15:48
SIMULATOR VAPOR	0.394	15:49
SIMULATOR VAPOR	0.393	15:50
BLANK TEST	0.000	15:51

Average = 0.393
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

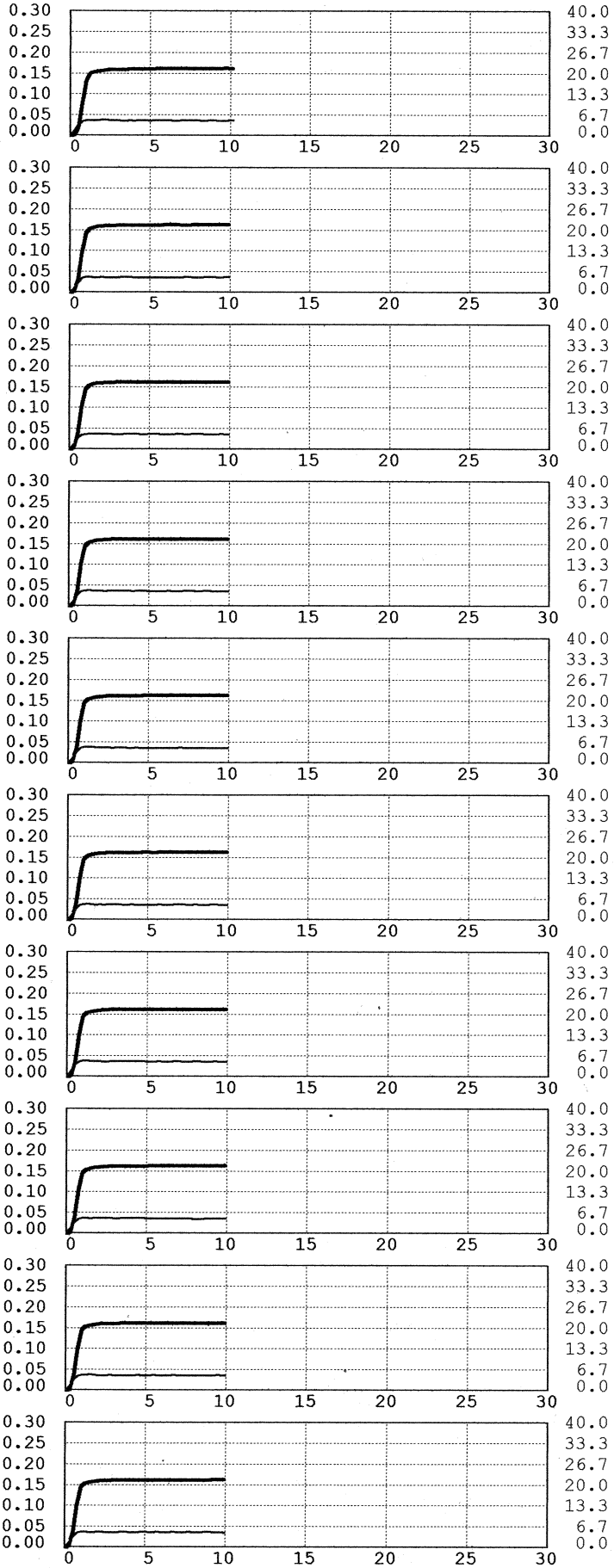
Date: 11/23/2009
Time: 16:14:11

SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	16:15
CALIBRATION CHECK	PASSED	16:15
SIMULATOR VAPOR	0.161	16:15
SIMULATOR VAPOR	0.162	16:16
SIMULATOR VAPOR	0.162	16:17
SIMULATOR VAPOR	0.161	16:18
SIMULATOR VAPOR	0.162	16:19
SIMULATOR VAPOR	0.162	16:20
SIMULATOR VAPOR	0.161	16:21
SIMULATOR VAPOR	0.162	16:22
SIMULATOR VAPOR	0.161	16:23
SIMULATOR VAPOR	0.161	16:24
BLANK TEST	0.000	16:25

Average = 0.161
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

Date: 11/23/2009
Time: 16:34:46

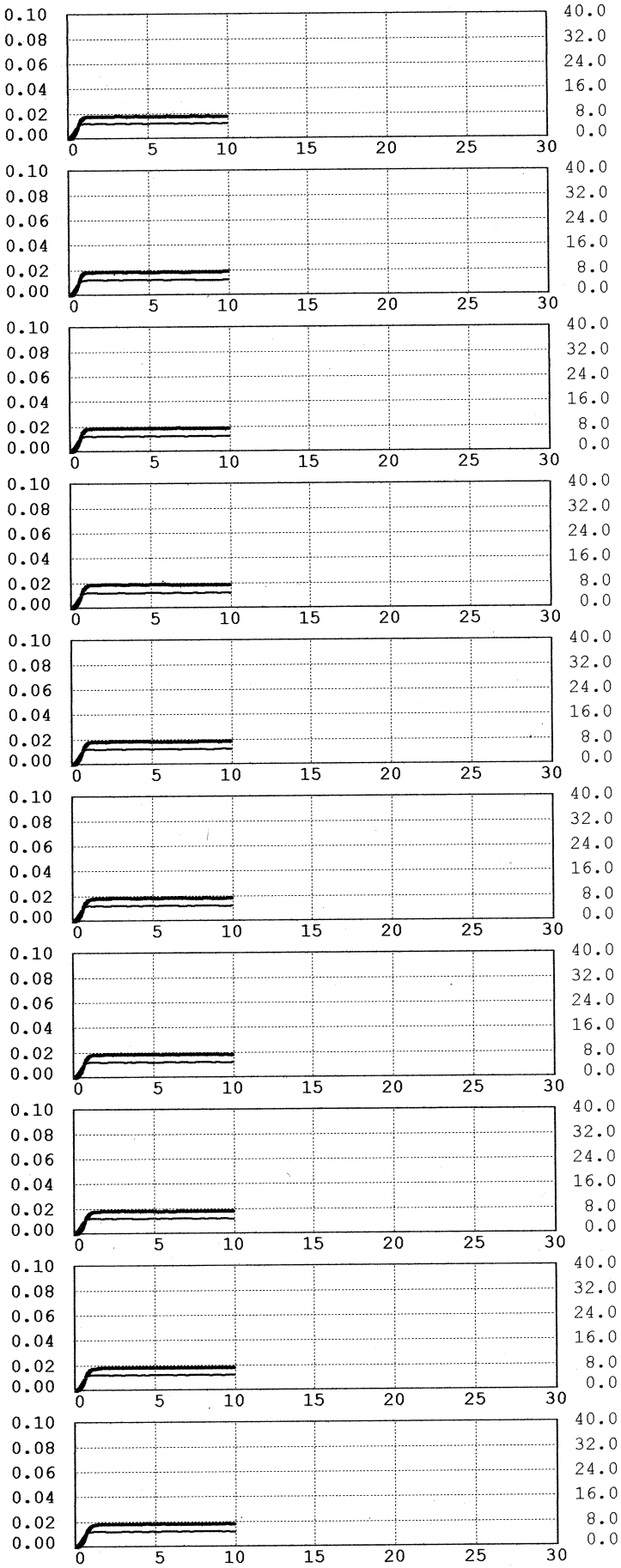
SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	16:35
CALIBRATION CHECK	PASSED	16:35
SIMULATOR VAPOR	0.018	16:36
SIMULATOR VAPOR	0.019	16:37
SIMULATOR VAPOR	0.019	16:38
SIMULATOR VAPOR	0.019	16:39
SIMULATOR VAPOR	0.018	16:40
SIMULATOR VAPOR	0.018	16:40
SIMULATOR VAPOR	0.019	16:41
SIMULATOR VAPOR	0.018	16:42
SIMULATOR VAPOR	0.018	16:43
SIMULATOR VAPOR	0.018	16:44
BLANK TEST	0.000	16:45

Average out of range!

Average = 0.018
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

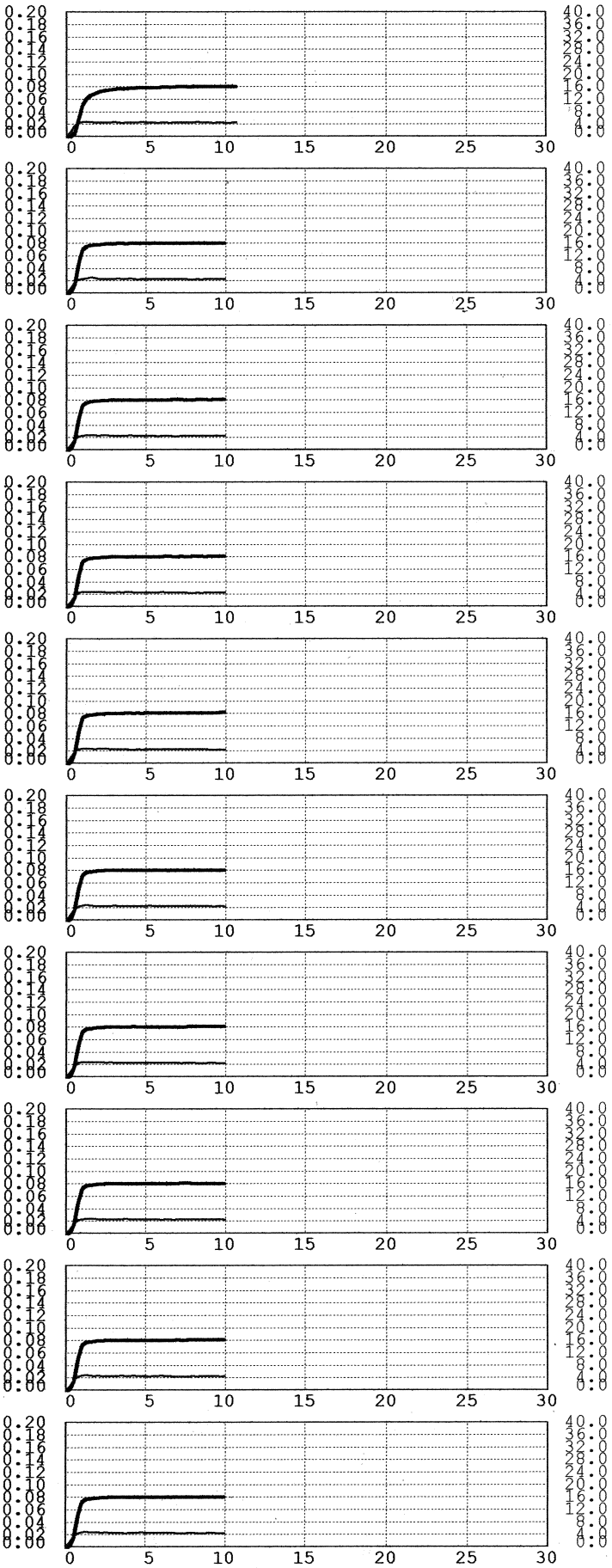
Date: 11/23/2009
Time: 16:53:38

SUPERVISOR NAME: DARCY M RICHARDSON

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	16:54
CALIBRATION CHECK	PASSED	16:54
SIMULATOR VAPOR	0.080	16:54
SIMULATOR VAPOR	0.080	16:55
SIMULATOR VAPOR	0.081	16:56
SIMULATOR VAPOR	0.080	16:57
SIMULATOR VAPOR	0.081	16:58
SIMULATOR VAPOR	0.080	16:59
SIMULATOR VAPOR	0.081	17:00
SIMULATOR VAPOR	0.080	17:01
SIMULATOR VAPOR	0.081	17:02
SIMULATOR VAPOR	0.080	17:03
BLANK TEST	0.000	17:04

Average = 0.080
Std Dev = 0.0005



DIAGNOSTIC RESULT

DataMaster DMT: 104209
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/24/2009
Time: 08:16

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.97°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.59 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.9 V
Chopper Freq   = 544.3 Hz

PUMP INFO
Flow Rate = 5.845 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0687   -0.0677
MIN(V) -0.0707   -0.0693

FILTER INFO
Filter 1 -0.069  Zero = true
Filter 2  0.197  Zero = true
Filter 3  0.292  Zero = true

CALIBRATION CHECK
Xq = 0.0844  0.72%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

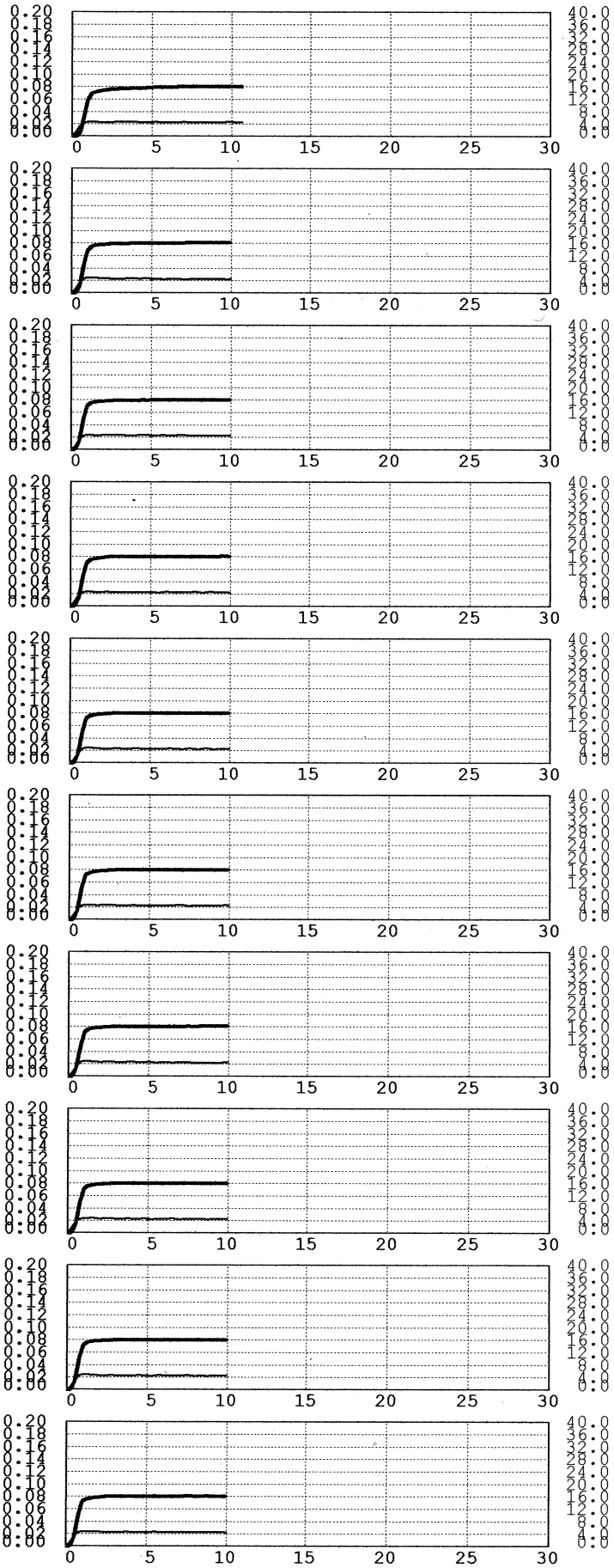
Date: 11/24/2009
Time: 08:18:17

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	08:19
CALIBRATION CHECK	PASSED	08:19
SIMULATOR VAPOR	0.080	08:19
SIMULATOR VAPOR	0.081	08:20
SIMULATOR VAPOR	0.080	08:21
SIMULATOR VAPOR	0.081	08:22
SIMULATOR VAPOR	0.081	08:23
SIMULATOR VAPOR	0.080	08:24
SIMULATOR VAPOR	0.081	08:25
SIMULATOR VAPOR	0.081	08:26
SIMULATOR VAPOR	0.081	08:27
SIMULATOR VAPOR	0.080	08:28
BLANK TEST	0.000	08:29

Average = 0.080
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

Date: 11/24/2009
Time: 08:33:10

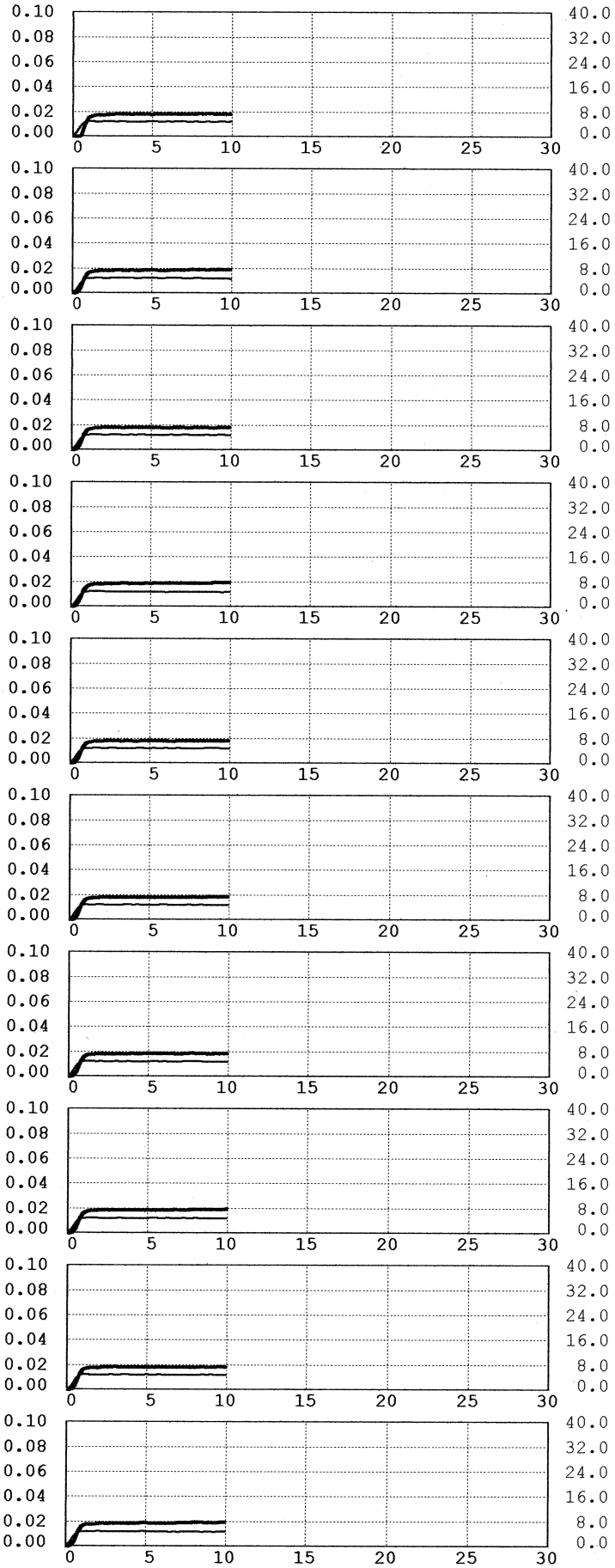
SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	08:34
CALIBRATION CHECK	PASSED	08:34
SIMULATOR VAPOR	0.018	08:34
SIMULATOR VAPOR	0.019	08:35
SIMULATOR VAPOR	0.018	08:36
SIMULATOR VAPOR	0.019	08:37
SIMULATOR VAPOR	0.018	08:38
SIMULATOR VAPOR	0.019	08:39
SIMULATOR VAPOR	0.019	08:40
SIMULATOR VAPOR	0.019	08:41
SIMULATOR VAPOR	0.019	08:42
SIMULATOR VAPOR	0.019	08:43
BLANK TEST	0.000	08:44

Average out of range!

Average = 0.018
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

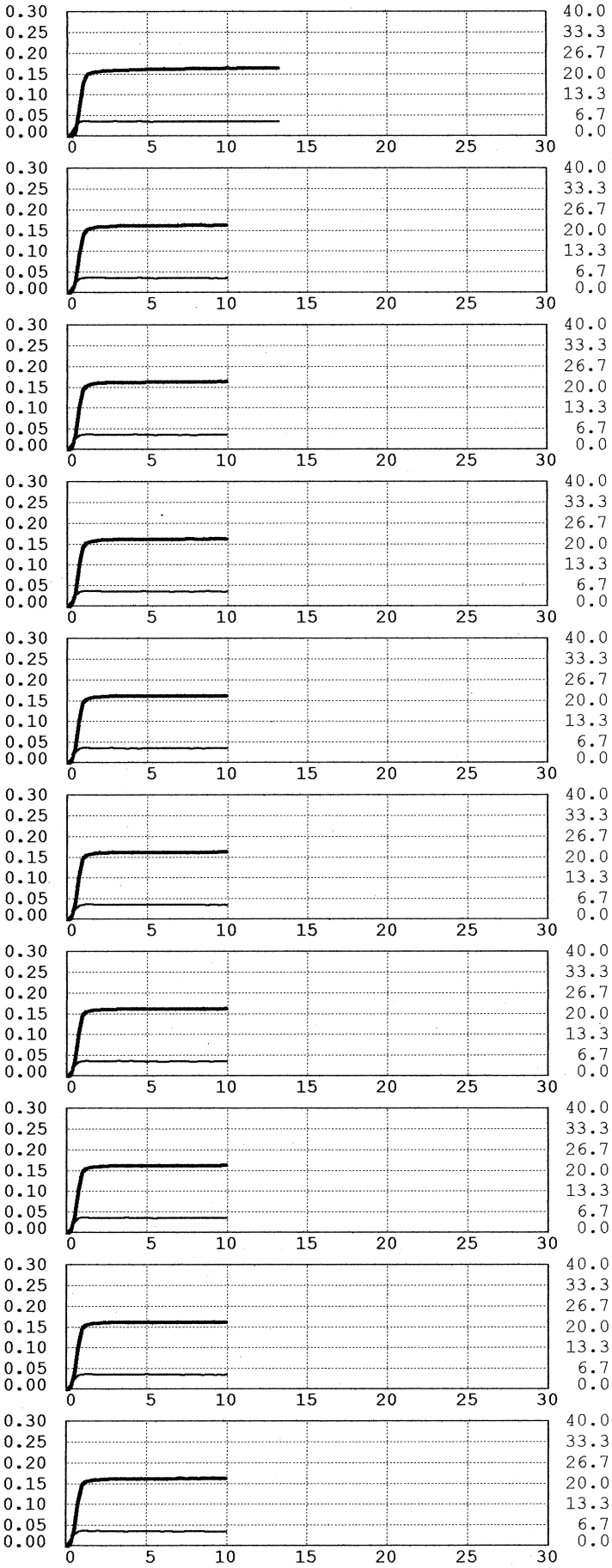
Date: 11/24/2009
Time: 08:46:46

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	08:47
CALIBRATION CHECK	PASSED	08:47
SIMULATOR VAPOR	0.163	08:48
SIMULATOR VAPOR	0.162	08:49
SIMULATOR VAPOR	0.163	08:50
SIMULATOR VAPOR	0.162	08:51
SIMULATOR VAPOR	0.162	08:52
SIMULATOR VAPOR	0.161	08:53
SIMULATOR VAPOR	0.162	08:54
SIMULATOR VAPOR	0.161	08:55
SIMULATOR VAPOR	0.162	08:56
SIMULATOR VAPOR	0.162	08:57
BLANK TEST	0.000	08:58

Average = 0.162
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

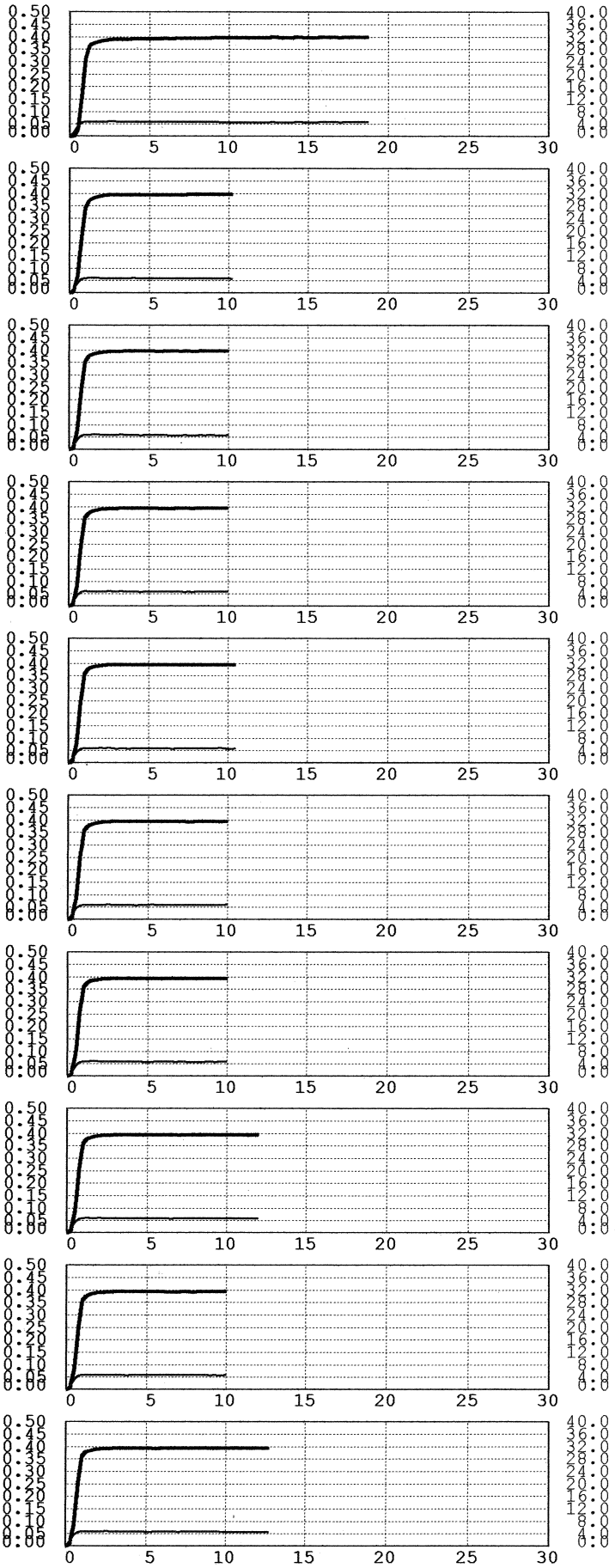
Date: 11/24/2009
Time: 09:14:24

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	09:15
CALIBRATION CHECK	PASSED	09:15
SIMULATOR VAPOR	0.396	09:15
SIMULATOR VAPOR	0.394	09:17
SIMULATOR VAPOR	0.395	09:18
SIMULATOR VAPOR	0.392	09:19
SIMULATOR VAPOR	0.393	09:20
SIMULATOR VAPOR	0.393	09:21
SIMULATOR VAPOR	0.393	09:22
SIMULATOR VAPOR	0.394	09:23
SIMULATOR VAPOR	0.393	09:24
SIMULATOR VAPOR	0.393	09:25
BLANK TEST	0.000	09:26

Average = 0.393
Std Dev = 0.0011



Section 5: Interference

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

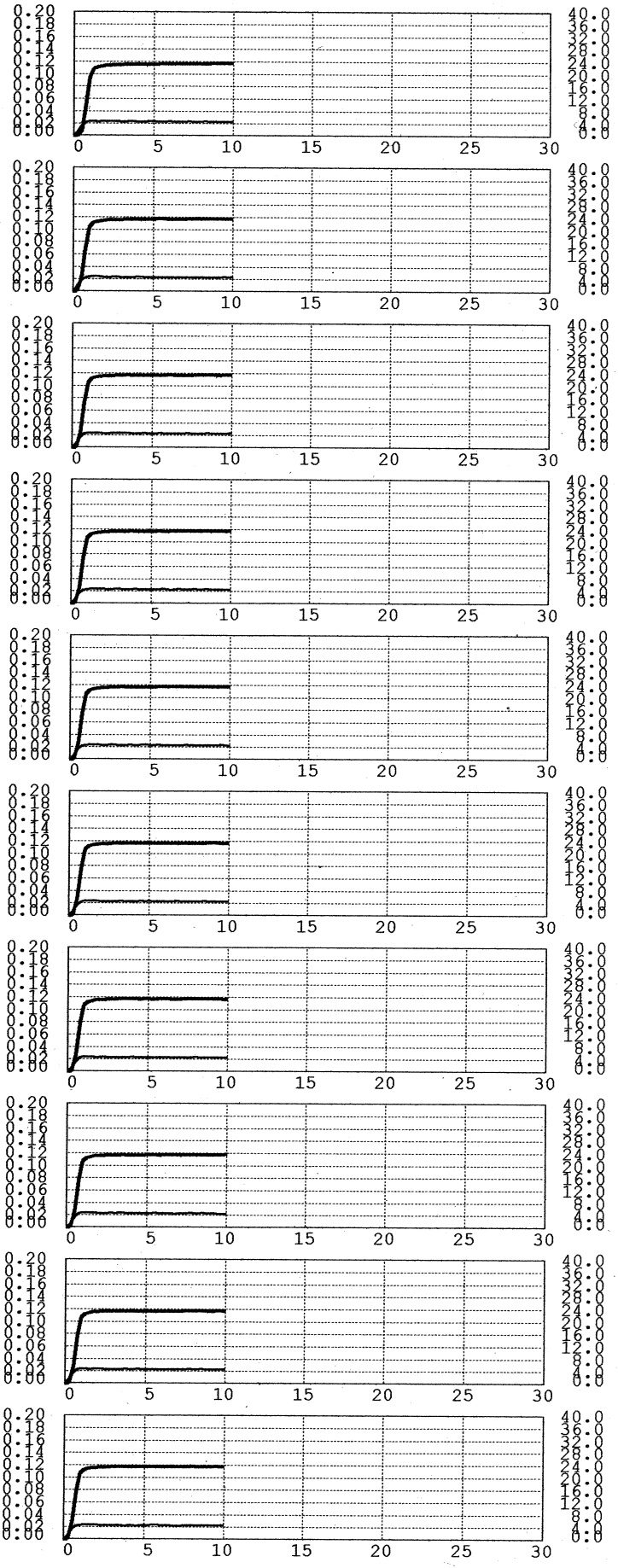
Date: 10/28/2009
Time: 10:23:28

SUPERVISOR NAME: ALB .04MEOH IN .08ETOH

SOLUTION LOT #: 10-10-08M4
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	10:24
CALIBRATION CHECK	PASSED	10:24
SIMULATOR VAPOR	INTERFERENCE	10:24
SIMULATOR VAPOR	INTERFERENCE	10:25
SIMULATOR VAPOR	INTERFERENCE	10:26
SIMULATOR VAPOR	INTERFERENCE	10:27
SIMULATOR VAPOR	INTERFERENCE	10:28
SIMULATOR VAPOR	INTERFERENCE	10:29
SIMULATOR VAPOR	INTERFERENCE	10:30
SIMULATOR VAPOR	INTERFERENCE	10:31
SIMULATOR VAPOR	INTERFERENCE	10:32
SIMULATOR VAPOR	INTERFERENCE	10:33
BLANK TEST	0.000	10:34

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

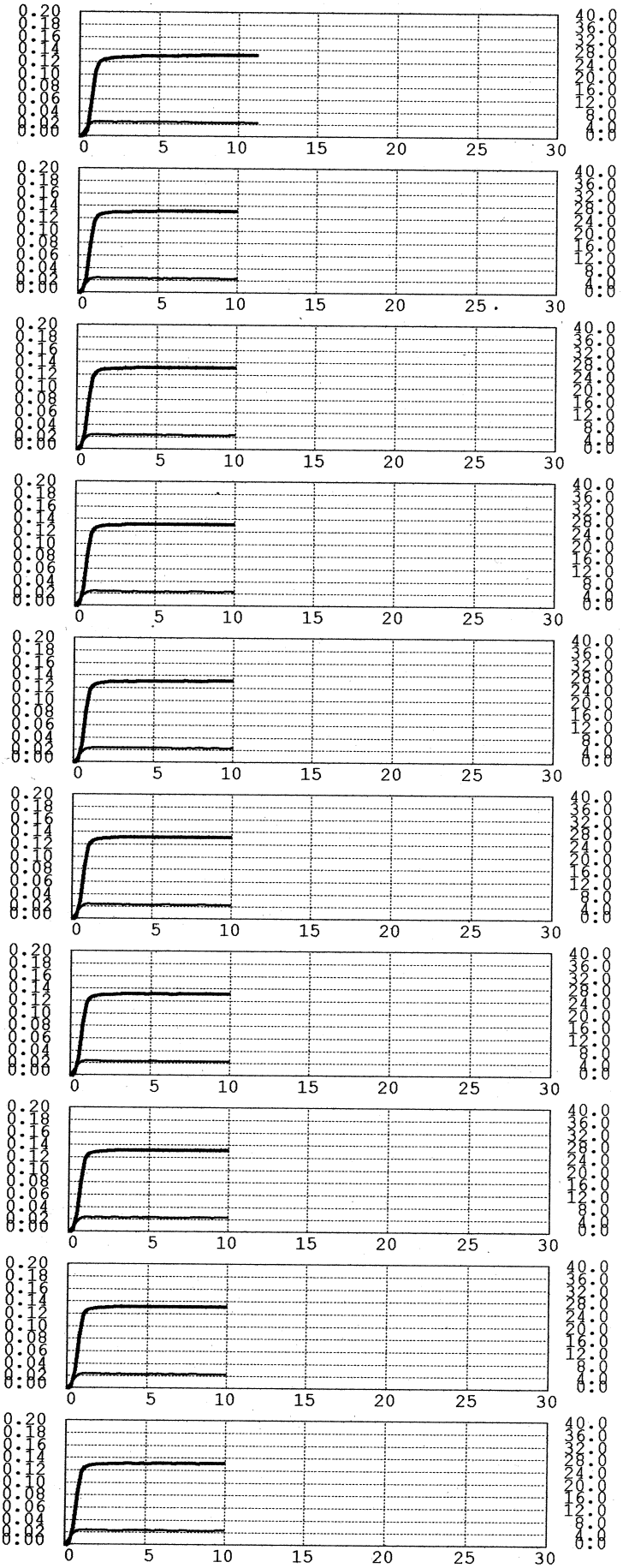
Date: 10/28/2009
Time: 10:49:50

SUPERVISOR NAME: ALB .04IPA IN .08ETOH

SOLUTION LOT #: 09-43-08I4
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	10:50
CALIBRATION CHECK	PASSED	10:50
SIMULATOR VAPOR	INTERFERENCE	10:51
SIMULATOR VAPOR	INTERFERENCE	10:52
SIMULATOR VAPOR	INTERFERENCE	10:53
SIMULATOR VAPOR	INTERFERENCE	10:54
SIMULATOR VAPOR	INTERFERENCE	10:55
SIMULATOR VAPOR	INTERFERENCE	10:56
SIMULATOR VAPOR	INTERFERENCE	10:57
SIMULATOR VAPOR	INTERFERENCE	10:58
SIMULATOR VAPOR	INTERFERENCE	10:59
SIMULATOR VAPOR	INTERFERENCE	11:00
BLANK TEST	0.000	11:00

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

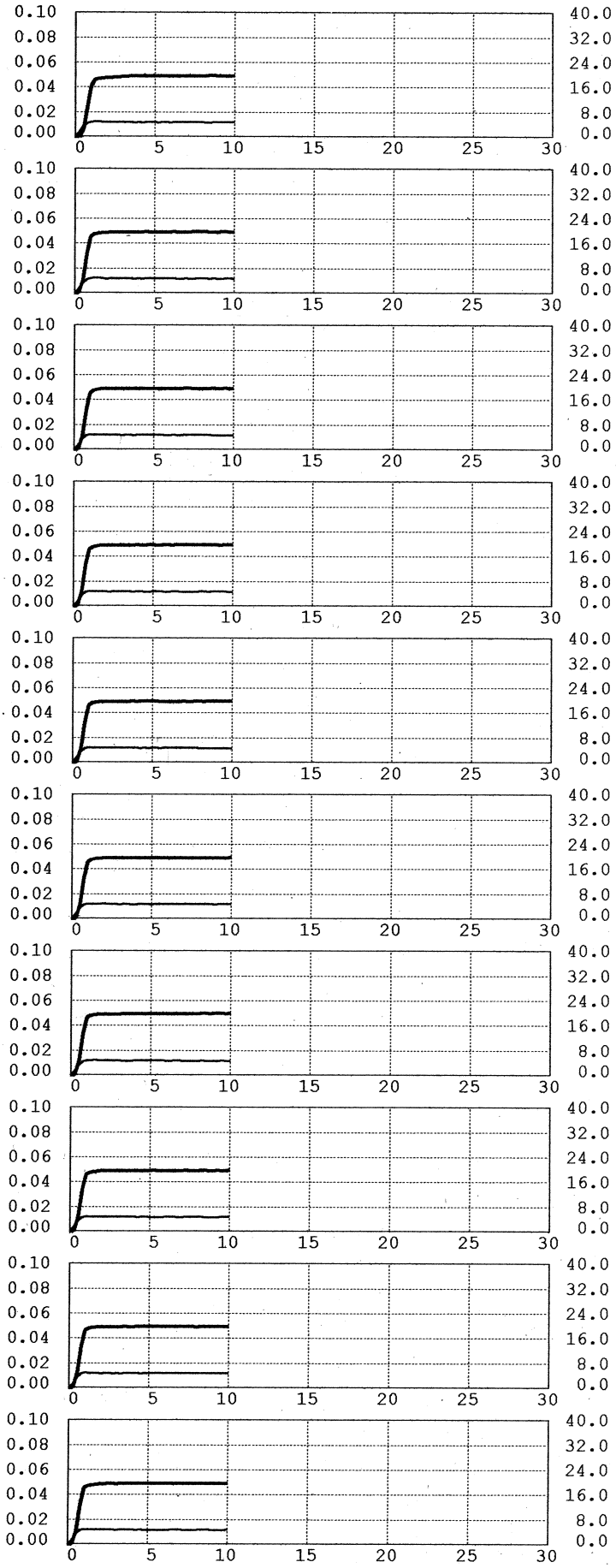
Date: 10/28/2009
Time: 11:16:22

SUPERVISOR NAME: ALB .01ACETONE IN .04ETOH

SOLUTION LOT #: 09-13-04A1
SOLUTION CONCENTRATION: 0.039

BLANK TEST	0.000	11:17
CALIBRATION CHECK	PASSED	11:17
SIMULATOR VAPOR	INTERFERENCE	11:17
SIMULATOR VAPOR	INTERFERENCE	11:18
SIMULATOR VAPOR	INTERFERENCE	11:19
SIMULATOR VAPOR	INTERFERENCE	11:20
SIMULATOR VAPOR	INTERFERENCE	11:21
SIMULATOR VAPOR	INTERFERENCE	11:22
SIMULATOR VAPOR	INTERFERENCE	11:23
SIMULATOR VAPOR	INTERFERENCE	11:24
SIMULATOR VAPOR	INTERFERENCE	11:25
SIMULATOR VAPOR	INTERFERENCE	11:26
BLANK TEST	0.000	11:27

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

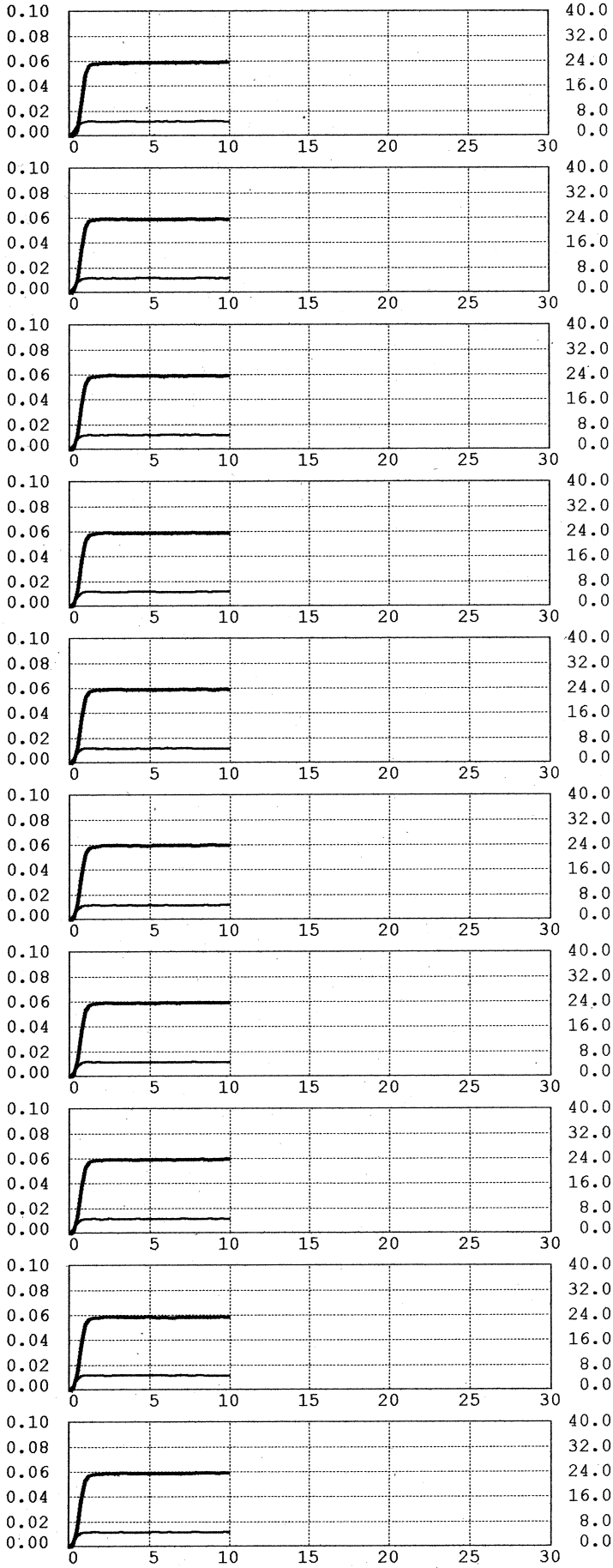
Date: 10/28/2009
Time: 11:43:36

SUPERVISOR NAME: ALB .02ACETONE IN .04ETOH

SOLUTION LOT #: 09-13-04A2
SOLUTION CONCENTRATION: 0.039

BLANK TEST	0.000	11:44
CALIBRATION CHECK	PASSED	11:44
SIMULATOR VAPOR	INTERFERENCE	11:44
SIMULATOR VAPOR	INTERFERENCE	11:45
SIMULATOR VAPOR	INTERFERENCE	11:46
SIMULATOR VAPOR	INTERFERENCE	11:47
SIMULATOR VAPOR	INTERFERENCE	11:48
SIMULATOR VAPOR	INTERFERENCE	11:49
SIMULATOR VAPOR	INTERFERENCE	11:50
SIMULATOR VAPOR	INTERFERENCE	11:51
SIMULATOR VAPOR	INTERFERENCE	11:52
SIMULATOR VAPOR	INTERFERENCE	11:53
BLANK TEST	0.000	11:54

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

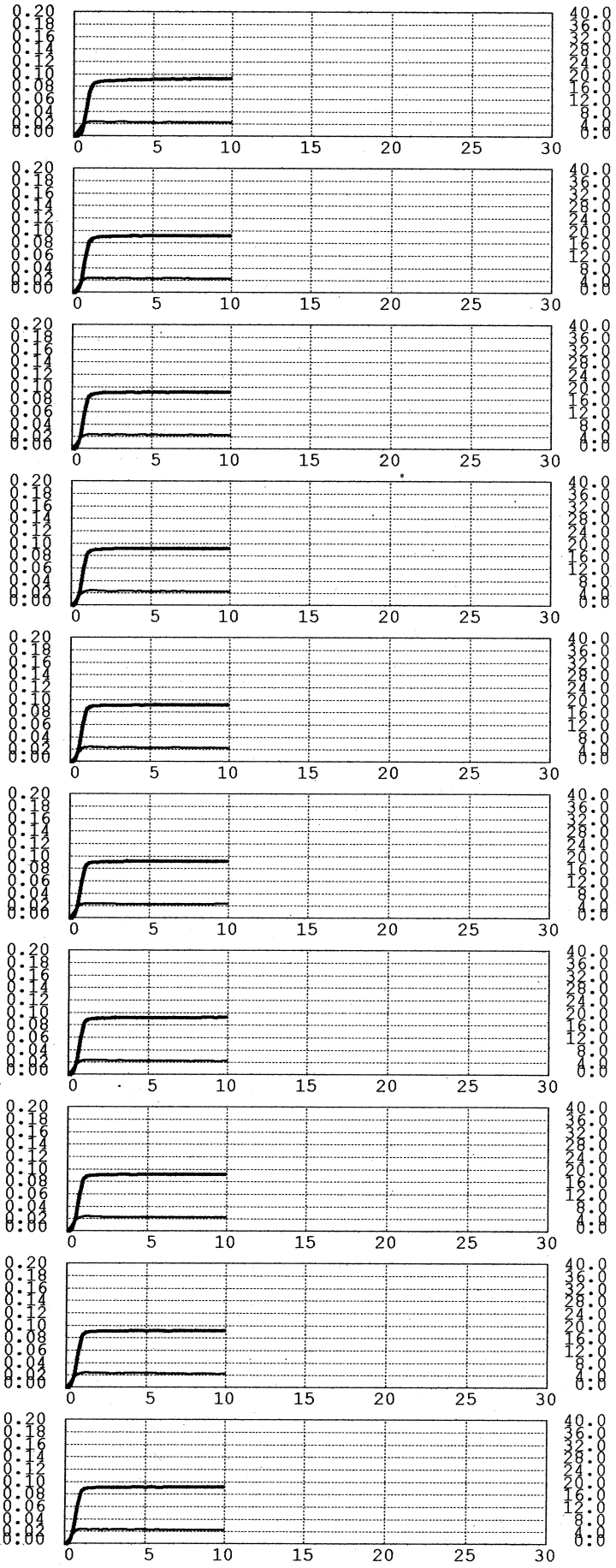
Date: 10/28/2009
Time: 12:18:42

SUPERVISOR NAME: ALB .02ACETONE IN .08ETOH

SOLUTION LOT #: 09-28-08A2
SOLUTION CONCENTRATION: 0.079

BLANK TEST	0.000	12:19
CALIBRATION CHECK	PASSED	12:19
SIMULATOR VAPOR	INTERFERENCE	12:20
SIMULATOR VAPOR	INTERFERENCE	12:21
SIMULATOR VAPOR	INTERFERENCE	12:22
SIMULATOR VAPOR	INTERFERENCE	12:23
SIMULATOR VAPOR	INTERFERENCE	12:24
SIMULATOR VAPOR	INTERFERENCE	12:25
SIMULATOR VAPOR	INTERFERENCE	12:26
SIMULATOR VAPOR	INTERFERENCE	12:27
SIMULATOR VAPOR	INTERFERENCE	12:28
SIMULATOR VAPOR	INTERFERENCE	12:29
BLANK TEST	0.000	12:29

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

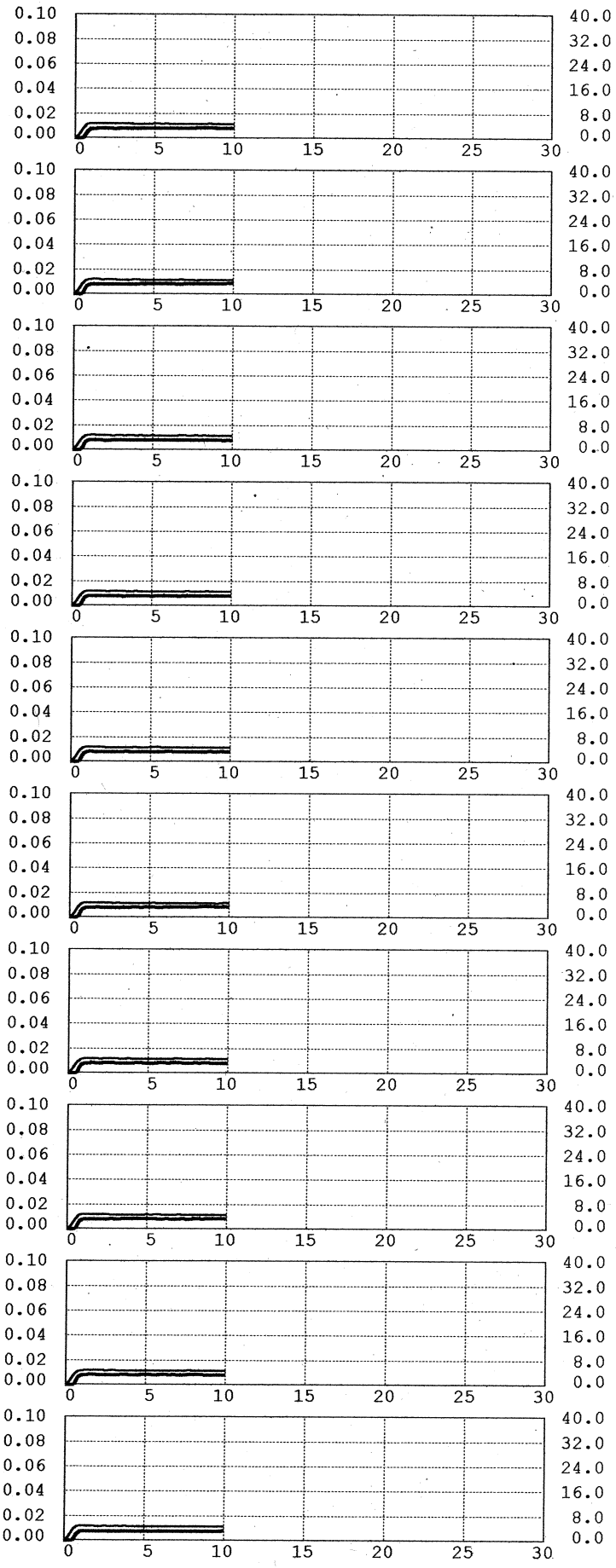
Date: 10/28/2009
Time: 13:54:38

SUPERVISOR NAME: ALB .02ACETONE IN H2O

SOLUTION LOT #: 09-23-02A
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:55
CALIBRATION CHECK	PASSED	13:55
SIMULATOR VAPOR	INTERFERENCE	13:55
SIMULATOR VAPOR	INTERFERENCE	13:56
SIMULATOR VAPOR	INTERFERENCE	13:57
SIMULATOR VAPOR	INTERFERENCE	13:58
SIMULATOR VAPOR	INTERFERENCE	13:59
SIMULATOR VAPOR	INTERFERENCE	14:00
SIMULATOR VAPOR	INTERFERENCE	14:01
SIMULATOR VAPOR	INTERFERENCE	14:02
SIMULATOR VAPOR	INTERFERENCE	14:03
SIMULATOR VAPOR	INTERFERENCE	14:04
BLANK TEST	0.000	14:05

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

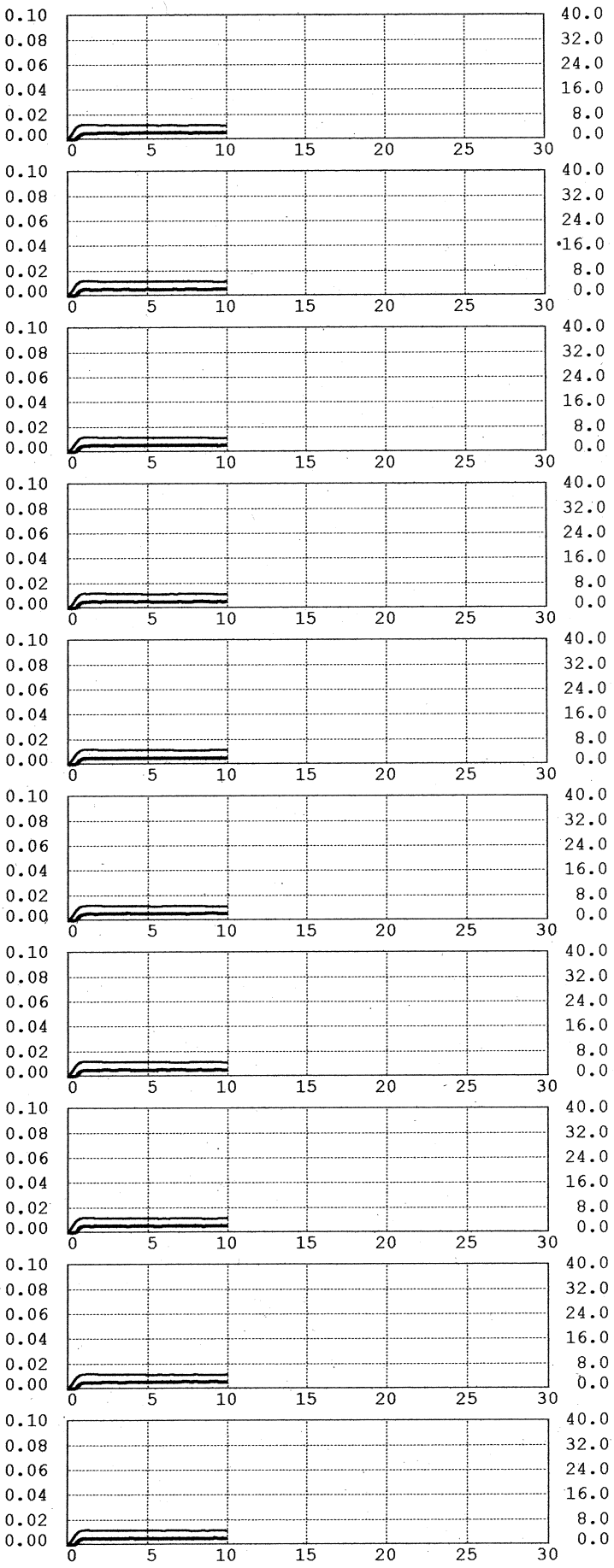
Date: 10/28/2009
Time: 14:08:04

SUPERVISOR NAME: ALB .01ACETONE IN H2O

SOLUTION LOT #: 10-08-01A
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	14:09
CALIBRATION CHECK	PASSED	14:09
SIMULATOR VAPOR	INTERFERENCE	14:09
SIMULATOR VAPOR	INTERFERENCE	14:10
SIMULATOR VAPOR	INTERFERENCE	14:11
SIMULATOR VAPOR	INTERFERENCE	14:12
SIMULATOR VAPOR	INTERFERENCE	14:13
SIMULATOR VAPOR	INTERFERENCE	14:14
SIMULATOR VAPOR	INTERFERENCE	14:15
SIMULATOR VAPOR	INTERFERENCE	14:16
SIMULATOR VAPOR	INTERFERENCE	14:17
SIMULATOR VAPOR	INTERFERENCE	14:18
BLANK TEST	0.000	14:18

Average out of range!



Section 6: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104209

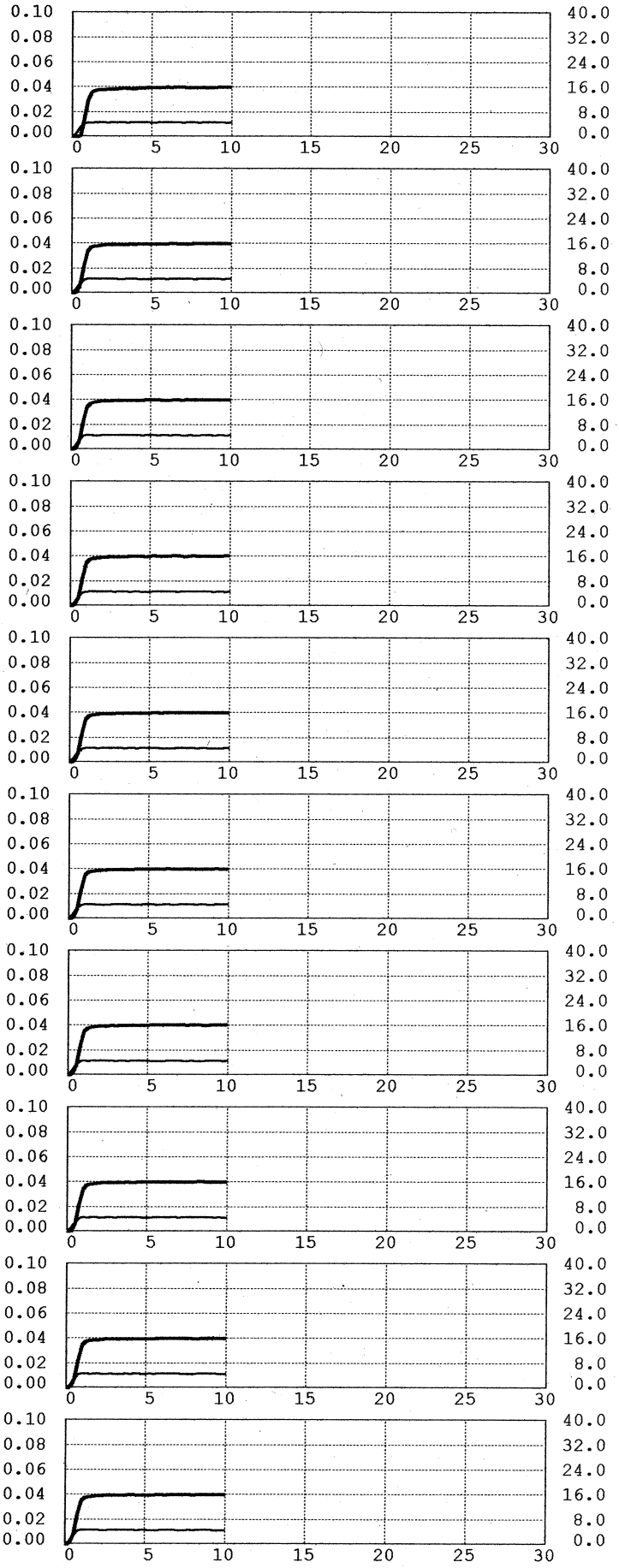
Date: 10/28/2009
Time: 13:26:24

SUPERVISOR NAME: ALB LOW LEVEL TEST

SOLUTION LOT #: 09-27-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	13:27
CALIBRATION CHECK	PASSED	13:27
SIMULATOR VAPOR	0.040	13:27
SIMULATOR VAPOR	0.040	13:28
SIMULATOR VAPOR	0.040	13:29
SIMULATOR VAPOR	0.040	13:30
SIMULATOR VAPOR	0.040	13:31
SIMULATOR VAPOR	0.040	13:32
SIMULATOR VAPOR	0.040	13:33
SIMULATOR VAPOR	0.040	13:34
SIMULATOR VAPOR	0.040	13:35
SIMULATOR VAPOR	0.040	13:36
BLANK TEST	0.000	13:37

Average = 0.040
Std Dev = 0.0000



Section 7: Breath Volume

This Instrument not tested for this specification

Section 8: Software Testing

This Instrument not tested for this specification

Section 9: Error Reports

Section 10: Live Subject Tests

This Instrument not tested for this specification

Section 11: Communication Notes

10/5/0

104409-
Upon initial inspection, discovered the motor was not adequately seated to the filter wheel. SH adjusted the tension for better pressure between the filter wheel and the drive motor.

10/9/09
104109 and 104409 failed low level interference testing. 1044 failed to recognize .04%IPA in water as an interferent 10:10 on an A+P test. 1044 quantified .04 IPA as ~.07Etoh 104109 also failed to flag IPA as an interferent successfully. 1041 only flagged the .04%IPA as an interferent 60% of the time on an A+P test. (N: NPAS was contacted regarding problems.

10/13/09
104109 and 104409 RTV due to failing interference testing

103509, 103709, 104909 Passed Power-Up inspection/testing 10/9/09

104509, 104309, 104609, 104809, 103809
Received and inspected, all units passed mechanical inspection. 10/15/09 ✓

↳ All units passed cal/cert.

X_1 .033 $f_2(-.044)$

10/19/09
Determined interference problem w/ RTV units due to solution. 0.04 Interference solution was spiked w/ N-propanol instead of 2-propanol NPAS to determine reaction to n-propanol Interference testing. NPAS to return 2 RTV units. VDHL to retest all units with correct 0.04 IPA solution.