DATAMASTER DMT 103509

VERMONT DEPARTMENT OF HEALTH LABORATORY

PERFORMANCE TESTING RESULTS

January 2010

Table of Contents

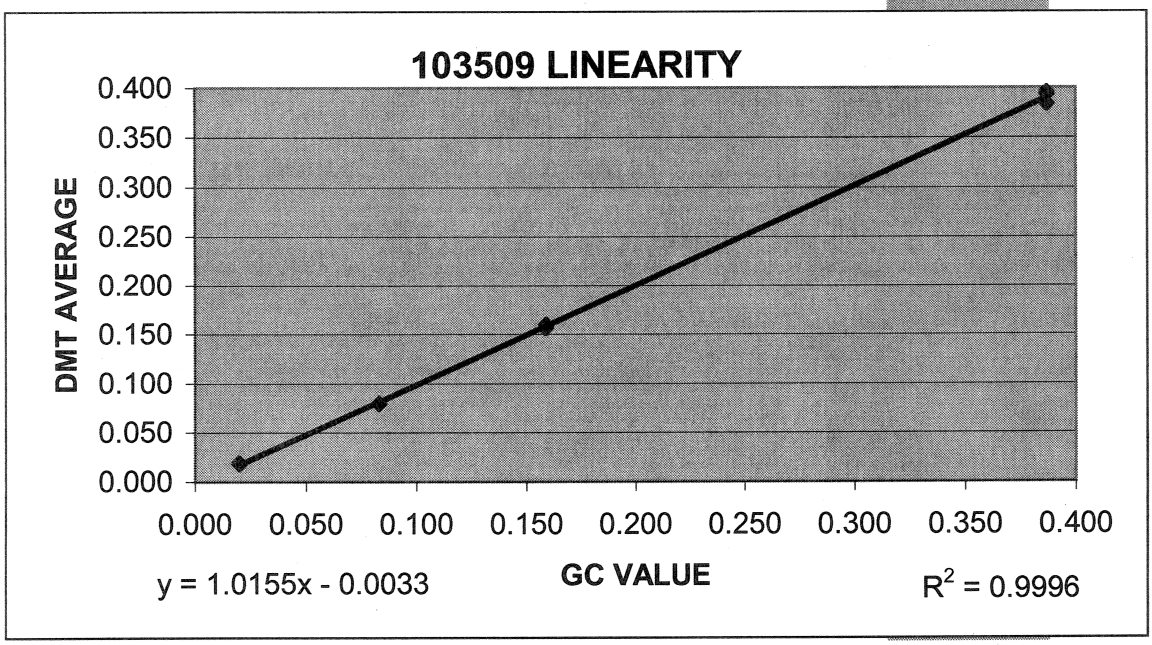
Section 1: Results	1-1 Thru 1-4
Section 2: NPAS Tests	2-1 Thru 2-18
Section 3: Power-Up Test	3-1 Thru 3-10
Section 4: Linearity	4-1 Thru 4-24
Section 5: Interference	5-1 Thru 5-8
Section 6: Low Level Accuracy	6-1 Thru 6-2
Section 7: Breath Volume	7-1 Thru 7-2
Section 8: Software Testing	8-1 Thru 8-2
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

DMT serial # 103509

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery	
ALB	UNK	10-13-020	0.020	0.019	0.0000	95.0	Outside 5%
	(1/1/05)	09-38-160	0.159	0.160	0.0007	100.6	Outside 10%
	(11/3/09)	09-43-080	0.083	0.080	0.0000	96.4	
		10-14-400	0.387	0.395	0.0006	102.1	
ALB	UNK	10-13-020	0.020	0.019	0.0003	95.0	
	(1/6/05)	09-43-080	0.083	0.079	0.0004	95.2	
	(11/8/09)	10-14-400	0.387	0.384	0.0006	99.2	
		09-38-160	0.159	0.156	0.0006	98.1	
ALB	UNK	09-38-160	0.159	0.157	0.0008	98.7	
	(1/6/05)	10-13-020	0.020	0.019	0.0000	95.0	
	(11/8/09)	09-43-080	0.083	0.079	0.0008	95.2	
		10-14-400	0.387	0.384	0.0005	99.2	
ALB	UNK	10-14-400	0.387	0.395	0.0006	102.1	
	(1/10/05)	09-43-080	0.083	0.079	0.0003	95.2	
	(11/12/09)	09-38-160	0.159	0.157	0.0005	98.7	
		10-13-020	0.020	0.018	0.0005	90.0	
DMR	UNK	10-13-020	0.020	0.019	0.0000	95.0	
	(1/11/05)	09-43-080	0.083	0.079	0.0004	95.2	
date likely	(11/13/2009)	10-14-400	0.387	0.393	0.0004	101.6	
		09-38-160	0.159	0.159	0.0000	100.0	
ALB	1/1/2005	09-27-040	0.040	0.039	0.0004	97.5	LOW LEVEL
				Average	0.0004	97.4	
				Std Dev	0.0003	3.14	
				Range	0.0000 - 0.0008	90.0 - 102.1	

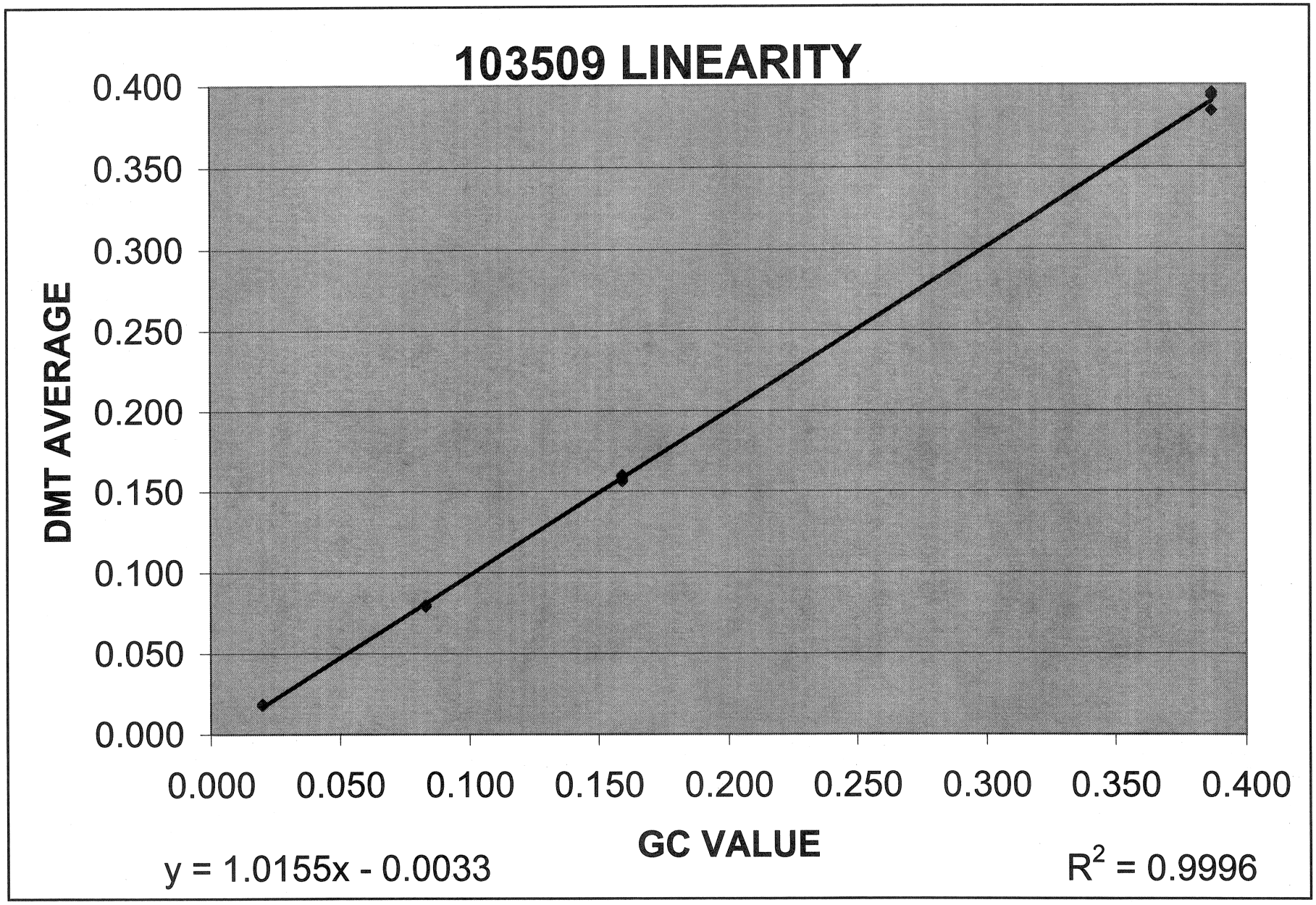
*THE DATE WAS SET TO 01/2005 ON THIS INSTRUMENT, THE CORRECT DATE OF TESTING IS UNKNOWN. ALL TESTING WAS PERFORMED DURING 10/2009 AND 11/2009



103509 TESTING RESULTS

Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	01/02/05	0.01 Acetone in water	10-08-01A	INTERFERENCE	< .01	
ALB	01/01/05	0.02 Acetone in water	09-23-02A	INTERFERENCE	0.01	
ALB	01/04/05	.01 Acetone in .08 EtOH	10-05-08A1	INTERFERENCE	0.08	
ALB	01/02/05	.01 Acetone in .04 EtOH	09-13-04A1	INTERFERENCE	0.05	
ALB	01/02/05	.02Acetone in .08 EtOH	09-28-08A2	INTERFERENCE	0.09	
ALB	01/02/05	.02 Acetone in .04 EtOH	09-13-04A2	INTERFERENCE	0.06	
ALB	01/04/05	.04 MeOH in water	10-07-04M	INTERFERENCE	0.04	
ALB	01/01/05	.04 MeOH in .08 EtOH	10-10-08M4	INTERFERENCE	0.12	
ALB	01/04/05	.04 N-PROPANOL	10-06-04I	INTERFERENCE	0.07	
ALB	01/01/05	.04 IPA in water	10-16-04I	INTERFERENCE	0.04	
ALB	01/02/05	.04 IPA in .08 EtOH	09-43-08I4	INTERFERENCE	0.13	

*THE DATE WAS SET TO 01/2005 ON THIS INSTRUMENT, THE CORRECT DATE OF TESTING IS UNKNOWN. ALL TESTING WAS PERFORMED DURING 10/2009 AND 11/2009


103509 LINEARITY
DMT AVERAGE
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
GC VALUE
y = 1.0155x - 0.0033
R2 = 0.9996

Section 2: NPAS Tests

National Patent Analytical Systems, Inc.

Certificate of Calibration

103509

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.

9.21.09

Date

Technician

OPTIONS PRINT OUT

DataMaster DMT: 103509
Location:
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
Installation Date: 01/01/2006

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: 103509
Calibration Date: 01/01/2006
Calibrated by: T T T
Lot: 09220

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.992320    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.004677    0.001 <=  b2 < 0.012
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.079631    0.050 <=  Xq < 0.200
a21 =  1.182189    1.050 <= a21 < 1.300
a31 =  0.455222    0.300 <= a31 < 0.800
```

Performed by _____ **Date** 01/01/2006

CERTIFICATION REPORT

DataMaster DMT: 103509
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
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 = 48.91°C
Breath Tube = 44.08°C

SETTINGS
Lamp Voltage = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage = 80.7 V
Chopper Freq = 536.8 Hz

PUMP INFO
Flow Rate = 4.904 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.4602	0.4620
MIN(V)	0.4581	0.4597

FILTER INFO
Filter 1 0.461 Zero = true
Filter 2 0.763 Zero = true
Filter 3 0.393 Zero = true

CALIBRATION CHECK
Xq = 0.0796 0.00%

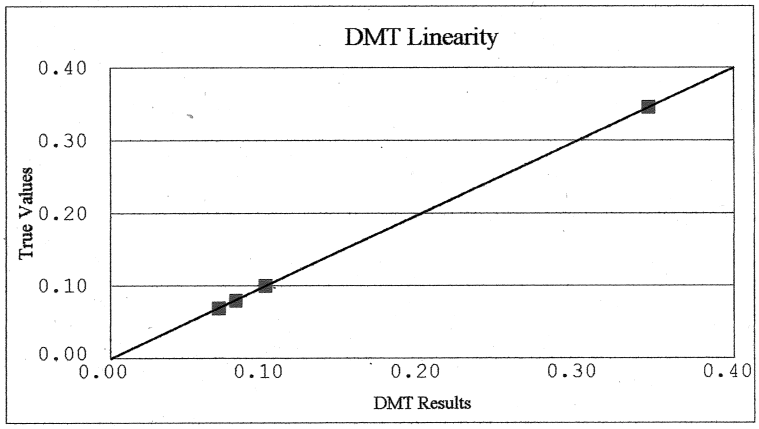
Options

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: 5
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100

Linearity Check Results

True Value	Reported Average	Std Dev
0.069 g/210L	0.070 g/210L	0.000
Lot # 0756789076		
0.080 g/210L	0.081 g/210L	0.001
Lot # 234567897		
0.100 g/210L	0.100 g/210L	0.000
Lot # 9438I4678		
0.345 g/210L	0.345 g/210L	0.001
Lot # 56787654		

$R^2 = 1.0000$



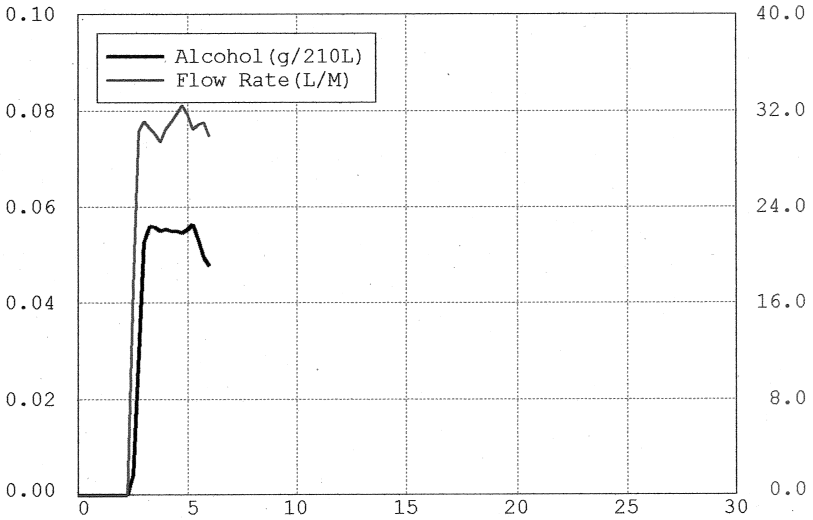
Acetone Interference Test

Lot # 755678765

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

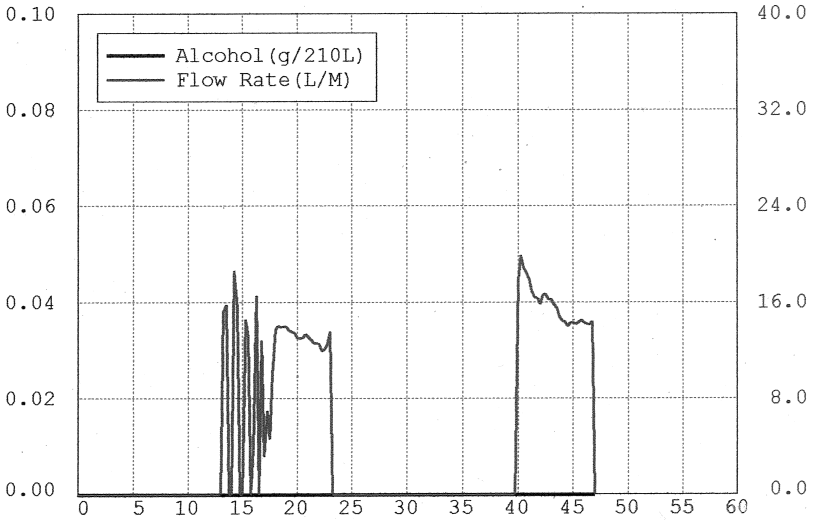


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 01/01/2006

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 103509
Location: ADDISON COUNTY SO
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
Installation Date: 01/01/2006
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 = 49.03°C
Breath Tube = 47.02°C

SETTINGS
Lamp Voltage = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage = 80.8 V
Chopper Freq = 537.2 Hz

PUMP INFO
Flow Rate = 4.997 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.4821	0.4823
MIN(V)	0.4793	0.4801

FILTER INFO
Filter 1 0.481 Zero = true
Filter 2 0.782 Zero = true
Filter 3 0.438 Zero = true

CALIBRATION CHECK
Xq = 0.0798 0.22%

INSTALLATION PASSED

Accuracy and Precision Check

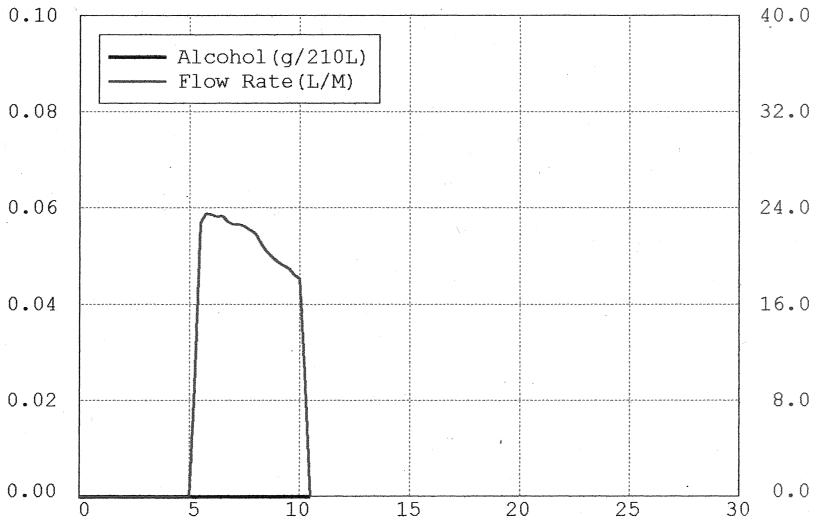
Concentration = 0.100 g/210L
Lot # = 98I7654
Average = 0.098 g/210L
Std Dev = 0.001

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



Performed by _____ **Date** 01/01/2006

Reviewed by _____ **Date** _____

ROUTINE PERFORMANCE CHECK REPORT

DataMaster DMT: 103509
Location: ADDISON COUNTY SO
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
Installation Date: 01/01/2006
RPC Date: 01/01/2006
Supervisor Name: 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 = 46.70°C

SETTINGS
Lamp Voltage = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage = 80.8 V
Chopper Freq = 536.1 Hz

PUMP INFO
Flow Rate = 4.991 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.4793	0.4799
MIN(V)	0.4772	0.4782

FILTER INFO
Filter 1 0.478 Zero = true
Filter 2 0.780 Zero = true
Filter 3 0.436 Zero = true

CALIBRATION CHECK
Xq = 0.0794 0.22%

Accuracy and Precision Check

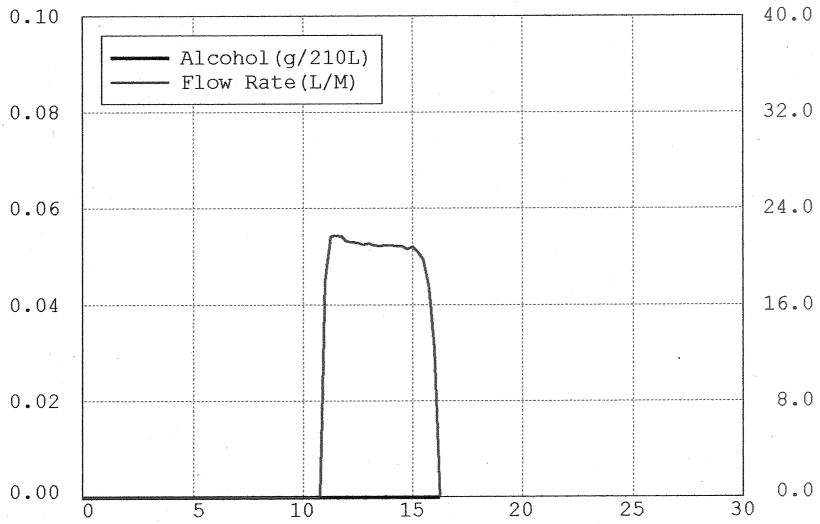
Concentration = 0.100 g/210L
Lot # = 987654
Average = 0.098 g/210L
Std Dev = 0.000

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



Routine Performance Check Passed

Performed by _____ **Date** 01/01/2006

Reviewed by _____ **Date** _____

ROUTINE PERFORMANCE CHECK REPORT

DataMaster DMT: 103509
Location: ADDISON COUNTY SO
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
Installation Date: 01/01/2006
RPC Date: 09/21/2009
Supervisor Name: 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 = 48.97°C
Breath Tube = 44.40°C

SETTINGS
Lamp Voltage = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage = 80.7 V
Chopper Freq = 533.9 Hz

PUMP INFO
Flow Rate = 4.824 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.4443	0.4453
MIN(V)	0.4419	0.4439

FILTER INFO
Filter 1 0.444 Zero = true
Filter 2 0.748 Zero = true
Filter 3 0.371 Zero = true

CALIBRATION CHECK
Xq = 0.0798 0.22%

Accuracy and Precision Check

Concentration = 0.100 g/210L
Lot # = 87654
Average =
Std Dev =

RFI Interference Test

Sample Acceptance Test

Routine Performance Check Failed

_____

_____

Performed by **Date** _____

Reviewed by _____ **Date** _____

ROUTINE PERFORMANCE CHECK REPORT

DataMaster DMT: 103509
Location: ADDISON COUNTY SO
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
Installation Date: 01/01/2006
RPC Date: 09/21/2009
Supervisor Name: 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 = 44.53°C

SETTINGS
Lamp Voltage = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage = 80.7 V
Chopper Freq = 533.5 Hz

PUMP INFO
Flow Rate = 4.862 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.4431	0.4443
MIN(V)	0.4402	0.4421

FILTER INFO
Filter 1 0.442 Zero = true
Filter 2 0.747 Zero = true
Filter 3 0.367 Zero = true

CALIBRATION CHECK
Xq = 0.0791 0.54%

Routine Performance Check Passed

Accuracy and Precision Check

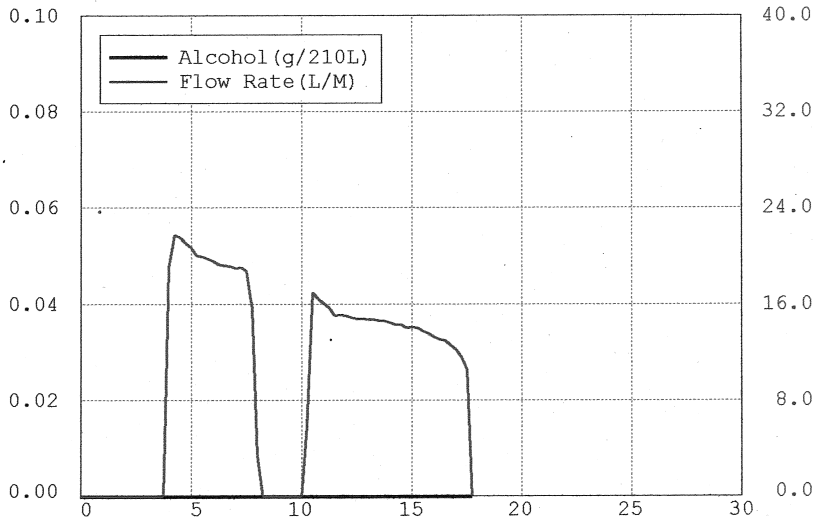
Concentration = 0.100 g/210L
Lot # = 87654
Average = 0.099 g/210L
Std Dev = 0.000

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



Performed by _____ **Date** 09/21/2009

Reviewed by _____ **Date** _____

SIMULATOR SOLUTION CHANGE REPORT

DataMaster DMT: 103509
Location: ADDISON COUNTY SO
Date: 01/01/2006
Performed by: T T T

VERMONT
DEPARTMENT OF HEALTH

Accuracy and Precision Check

Concentration	= 0.100 g/210L
Lot #	= 98765
Range	= 0.095 - 0.105
Average	= 0.100 g/210L
Std Dev	= 0.000

Simulator Temperature: °C

Performed by x_____ Date 01/01/2006

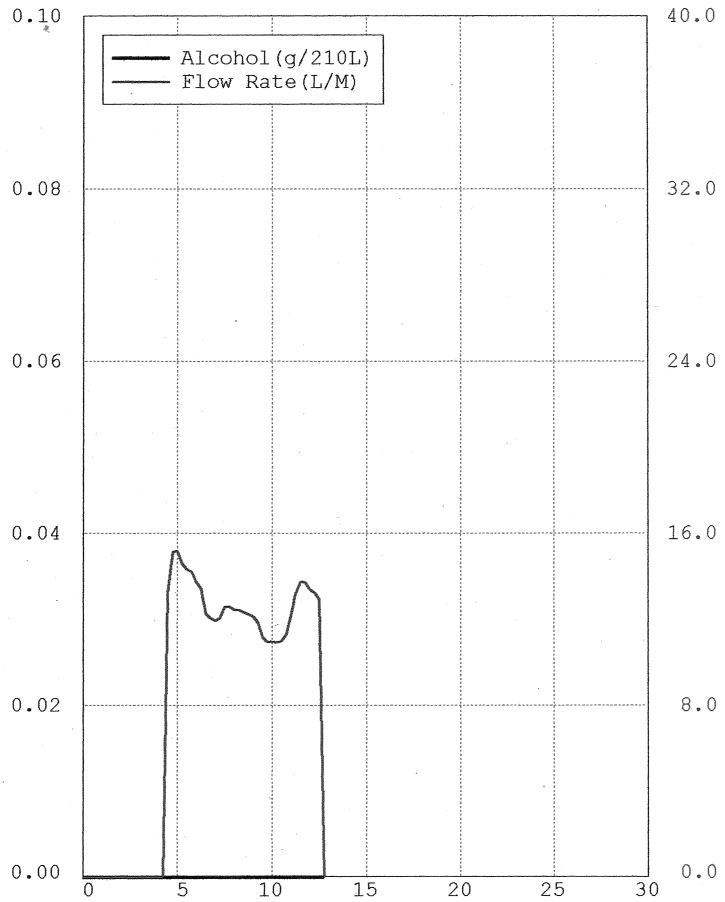
DUI Subject Test

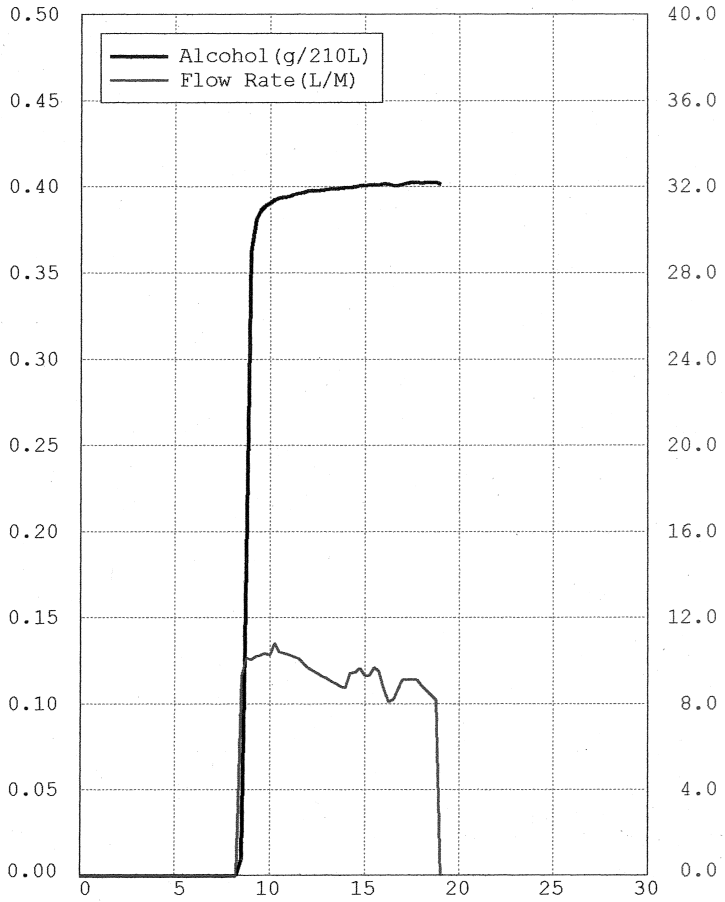
STATE OF VERMONT

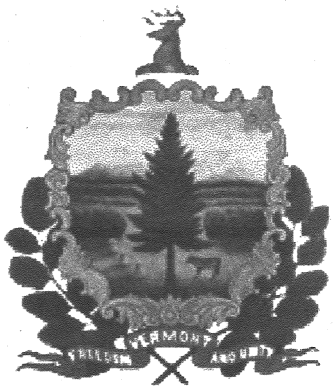
DataMaster DMT: 103509
ADDISON COUNTY SO
Certification Date: 01/01/2006
Installation Date: 01/01/2006

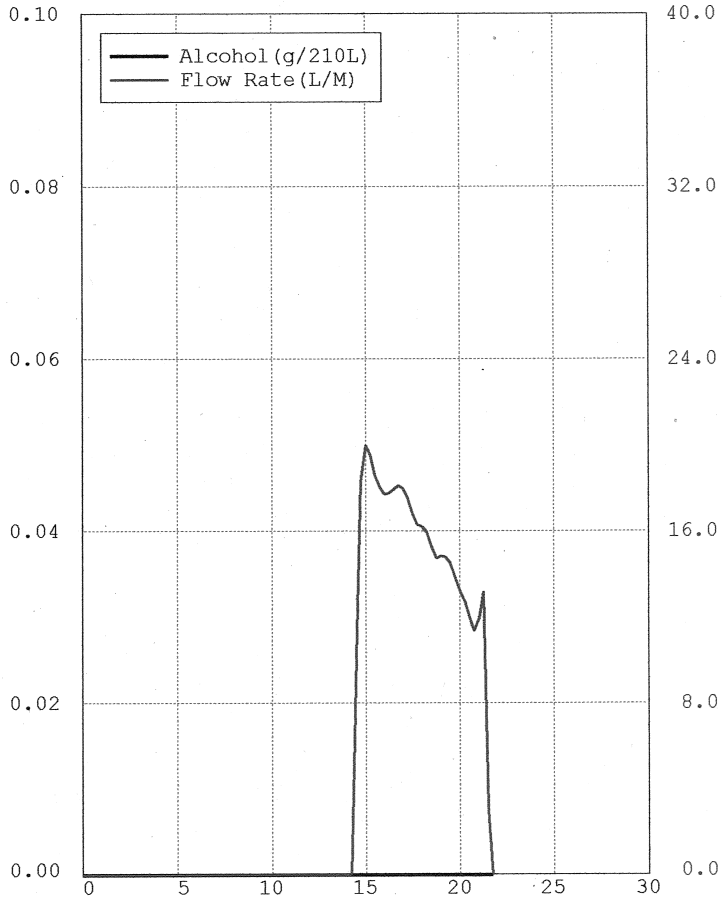
Date: 09/23/2009
Time: 04:57:04

Obs. Period Start:		04:56
BLANK TEST	0.000	04:57
CALIBRATION CHECK	PASSED	04:58
Xq = 0.0799 (0.44%)		
SUBJECT SAMPLE (Vol=1.7L)	0.000	04:58
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	04:59
CALIBRATION CHECK	PASSED	04:59
Xq = 0.0804 (0.98%)		
SUBJECT SAMPLE (Vol=1.6L)	0.403	05:00
X[1] = 0.4032 (-0.0033) (0.0009)		









Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 103509
ADDISON COUNTY SO
Certification Date: 01/01/2006
Installation Date: 01/01/2006

Date: 01/01/2006
Time: 02:41:57

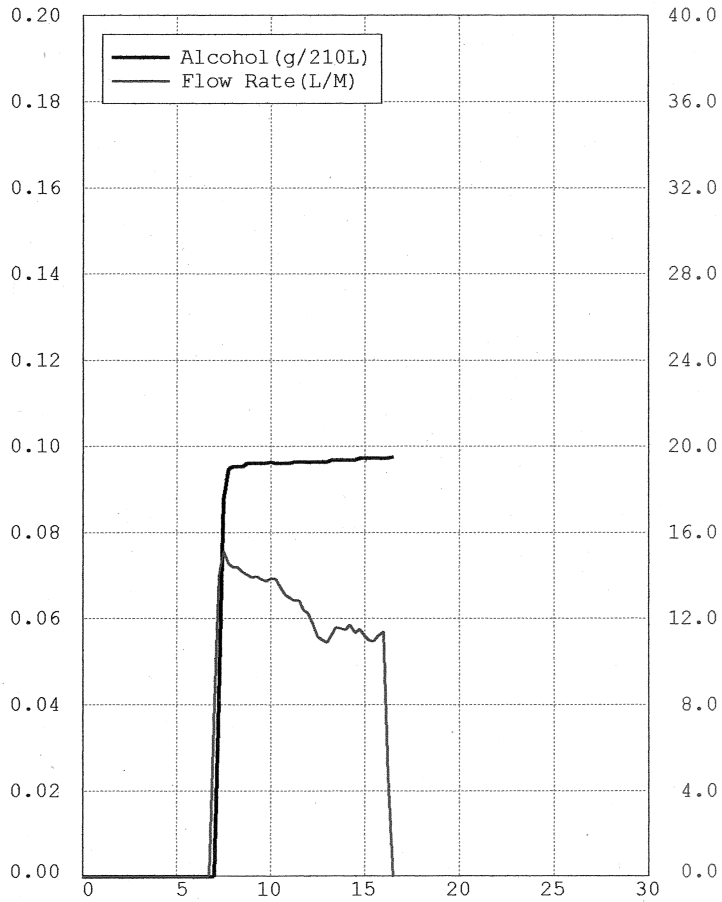
Subject Name: T T T
Date of Birth: 09/09/1975 Age: 30
Gender: M
License #: 765 76

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

BLANK TEST	0.000	02:42
CALIBRATION CHECK	PASSED	02:42
Xq = 0.0799 (0.44%)		
SIMULATOR VAPOR	0.100	02:43
X[1] = 0.1005 (-0.0002) (0.0015)		
BLANK TEST	0.000	02:44
SUBJECT SAMPLE (Vol=1.8L)	0.000	02:44
X[1] = 0.0000 (0.0000) (0.0000)		

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: 103509
ADDISON COUNTY SO
Certification Date: 01/01/2006
Installation Date: 01/01/2006

Date: 01/01/2006
Time: 02:46:25

Subject Name: T T T
Date of Birth: 09/09/1909 Age: 96
Gender: M
License #: I8UYT TG

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

BLANK TEST	0.000	02:47
CALIBRATION CHECK	PASSED	02:47
Xq = 0.0803 (0.87%)		
SIMULATOR VAPOR	0.100	02:47
X[1] = 0.1006 (0.0003) (0.0019)		
BLANK TEST	0.000	02:48
SUBJECT SAMPLE (Vol=1.9L)	0.097	02:49
X[1] = 0.0978 (-0.0016) (0.0010)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.100
Sim. Vapor Range 0.095 - 0.105

DIAGNOSTIC RESULT

DataMaster DMT: 103509
Location:
Calibration Date: 01/01/2006
Certification Date:
Installation Date:
Test Date: 01/01/2006
Time: 00:53

VERMONT
DEPARTMENT OF HEALTH

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

TEMPERATURES
Sample Chamber = 48.63°C
Breath Tube    = 44.17°C

SETTINGS
Lamp Voltage   = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage   = 80.7 V
Chopper Freq   = 537.0 Hz

PUMP INFO
Flow Rate = 4.972 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.4602   0.4614
MIN(V)   0.4575   0.4595

FILTER INFO
Filter 1  0.460  Zero = true
Filter 2  0.763  Zero = true
Filter 3  0.392  Zero = true

CALIBRATION CHECK
Xq = 0.0796  0.00%
```

DIAGNOSTIC RESULT

DataMaster DMT: 103509
Location: ADDISON COUNTY SO
Calibration Date: 01/01/2006
Certification Date: 01/01/2006
Installation Date: 01/01/2006
Test Date: 09/23/2009
Time: 05:02

VERMONT
DEPARTMENT OF HEALTH

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

TEMPERATURES
Sample Chamber = 48.91°C
Breath Tube    = 46.54°C

SETTINGS
Lamp Voltage   = 1.52 V
Cooler Voltage = 1.70 V
Bias Voltage   = 80.8 V
Chopper Freq   = 537.2 Hz

PUMP INFO
Flow Rate = 4.842 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.4740   0.4685
MIN(V)   0.4642   0.4662

FILTER INFO
Filter 1  0.467  Zero = true
Filter 2  0.772  Zero = true
Filter 3  0.412  Zero = true

CALIBRATION CHECK
Xq = 0.0798  0.22%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

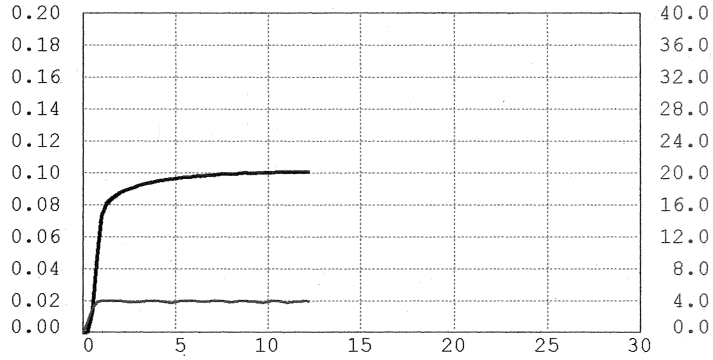
Date: 09/23/2009
Time: 04:40:01

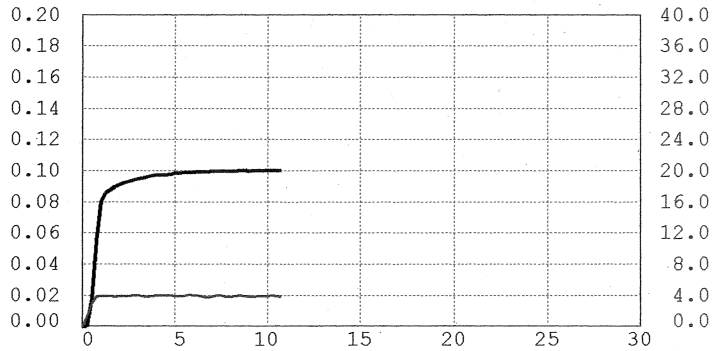
SUPERVISOR NAME: J M K

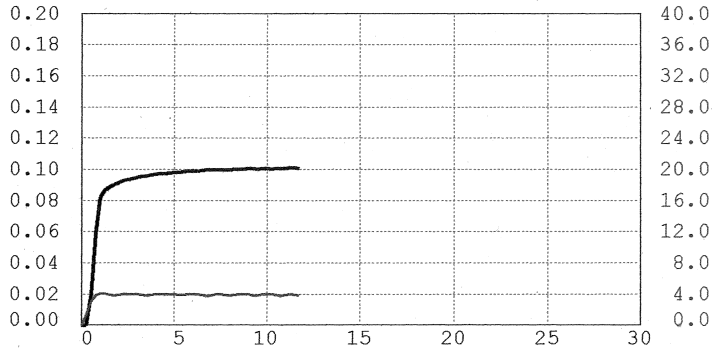
SOLUTION LOT #: 13470
SOLUTION CONCENTRATION: 0.100

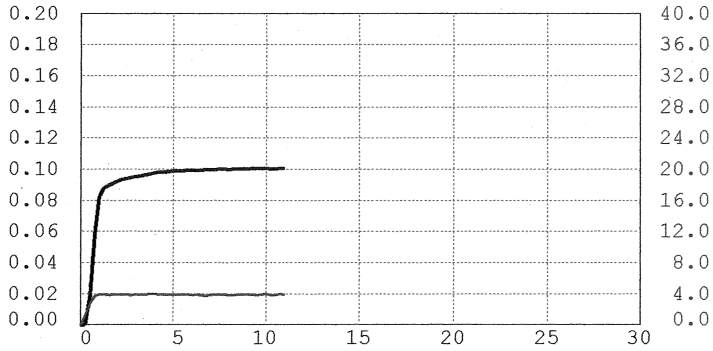
BLANK TEST	0.000	04:40
CALIBRATION CHECK	PASSED	04:41
Xq = 0.0798 (0.33%)		
SIMULATOR VAPOR	0.101	04:41
X[1] = 0.1011 (0.0001) (0.0000)		
SIMULATOR VAPOR	0.101	04:42
X[1] = 0.1010 (0.0005) (0.0002)		
SIMULATOR VAPOR	0.101	04:43
X[1] = 0.1014 (0.0003) (0.0002)		
SIMULATOR VAPOR	0.101	04:44
X[1] = 0.1011 (0.0000) (0.0001)		
SIMULATOR VAPOR	0.101	04:45
X[1] = 0.1015 (0.0005) (0.0005)		
BLANK TEST	0.000	04:46

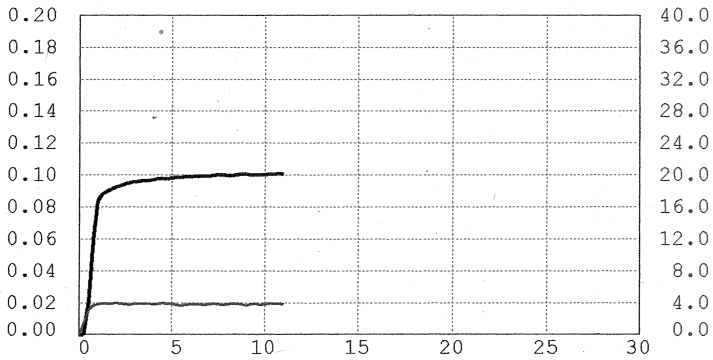
Average = 0.101
Std Dev = 0.0000











ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

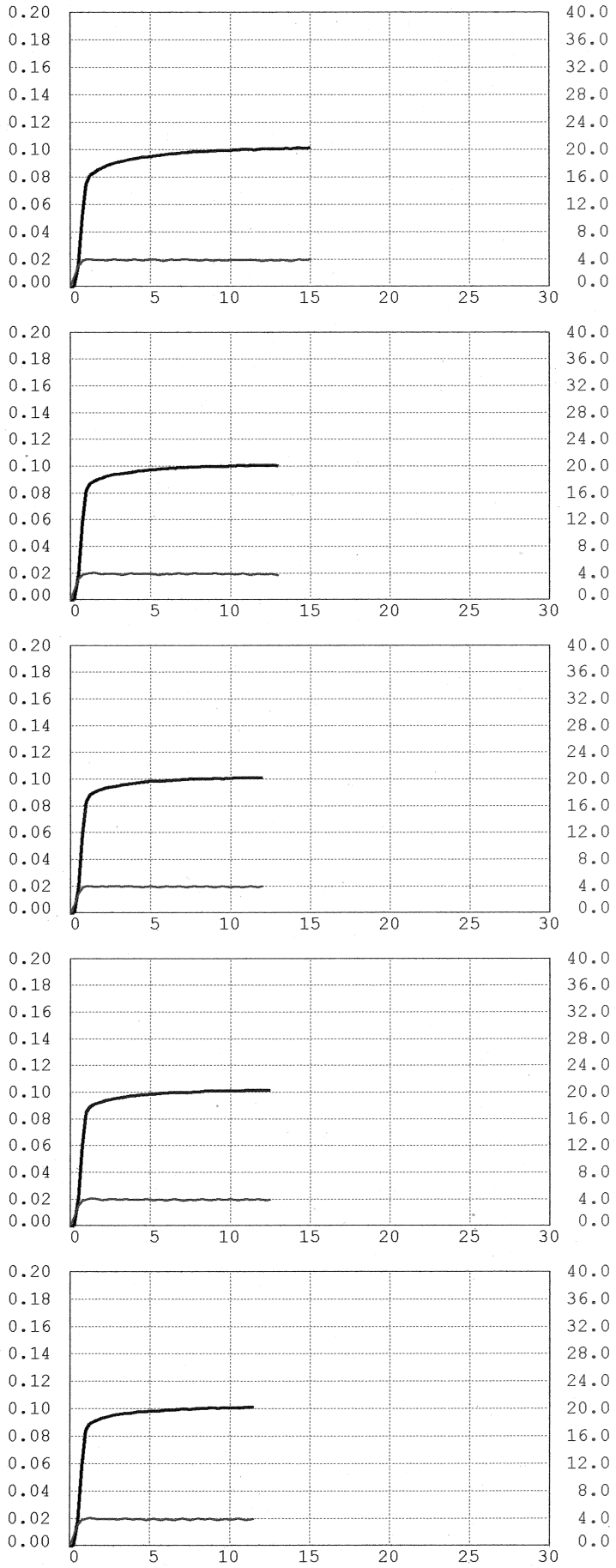
Date: 09/23/2009
Time: 04:48:24

SUPERVISOR NAME: J M K

SOLUTION LOT #: 1234567890
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	04:49
CALIBRATION CHECK	PASSED	04:49
Xq = 0.0798 (0.22%)		
SIMULATOR VAPOR	0.101	04:49
X[1] = 0.1015 (0.0004) (0.0008)		
SIMULATOR VAPOR	0.101	04:50
X[1] = 0.1015 (0.0004) (0.0006)		
SIMULATOR VAPOR	0.101	04:51
X[1] = 0.1016 (0.0001) (0.0002)		
SIMULATOR VAPOR	0.102	04:52
X[1] = 0.1020 (0.0001) (0.0004)		
SIMULATOR VAPOR	0.101	04:53
X[1] = 0.1016 (-0.0001) (0.0001)		
BLANK TEST	0.000	04:54

Average = 0.101
Std Dev = 0.0004



Section 3: Power-Up Tests

CALIBRATION REPORT

DataMaster DMT: 103509
Calibration Date: 01/03/2005
Calibrated by: A L B
Lot: 10-02-100

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.101000
CAL =  1.008565    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.005532    0.001 <=  b2 < 0.012
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.079459    0.050 <=  Xq < 0.200
a21 =  1.181735    1.050 <= a21 < 1.300
a31 =  0.452933    0.300 <= a31 < 0.800
```

Performed by _____ **Date** 01/03/2005

CERTIFICATION REPORT

DataMaster DMT: 103509
Calibration Date: 01/03/2005
Certification Date: 01/03/2005
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 = 48.74°C
Breath Tube = 46.52°C

SETTINGS
Lamp Voltage = 1.58 V
Cooler Voltage = 1.70 V
Bias Voltage = 80.7 V
Chopper Freq = 539.3 Hz

PUMP INFO
Flow Rate = 6.027 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0116	0.0134
MIN(V)	0.0098	0.0114

FILTER INFO
Filter 1 0.012 Zero = true
Filter 2 0.329 Zero = true
Filter 3 -0.044 Zero = true

CALIBRATION CHECK
Xq = 0.0798 0.44%

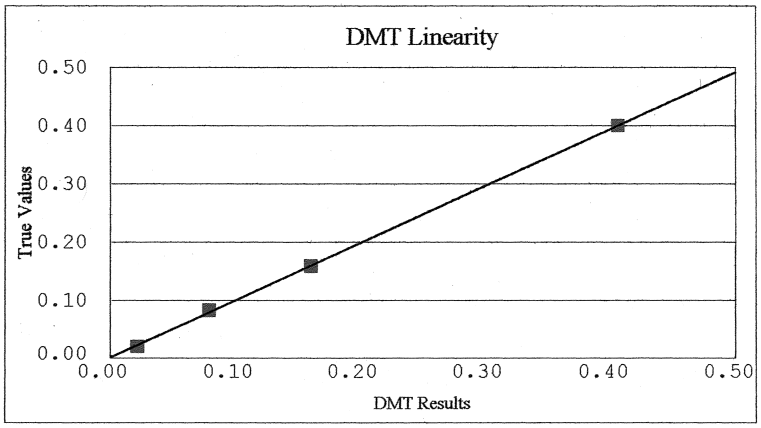
Options

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	0.022 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	0.161 g/210L	0.001
Lot # 09-38-160		
0.400 g/210L	0.406 g/210L	0.001
Lot # NOMINAL		

$R^2 = 0.9998$



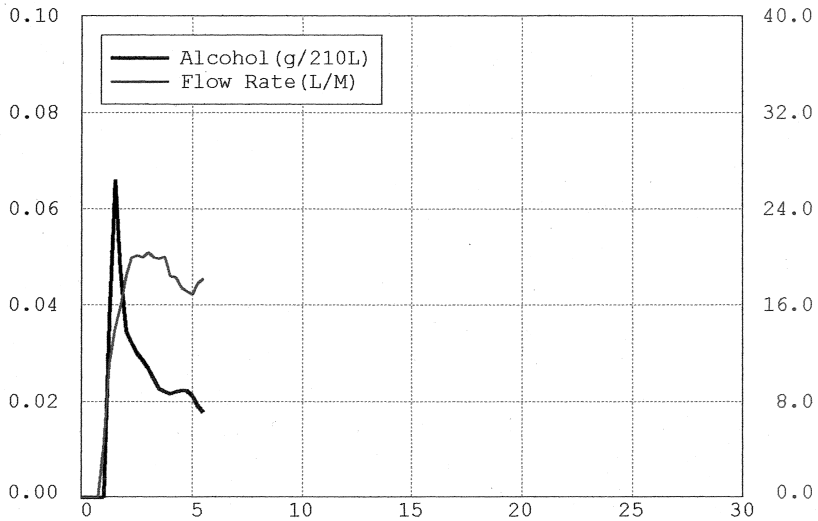
Acetone Interference Test

Lot # 10-05-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

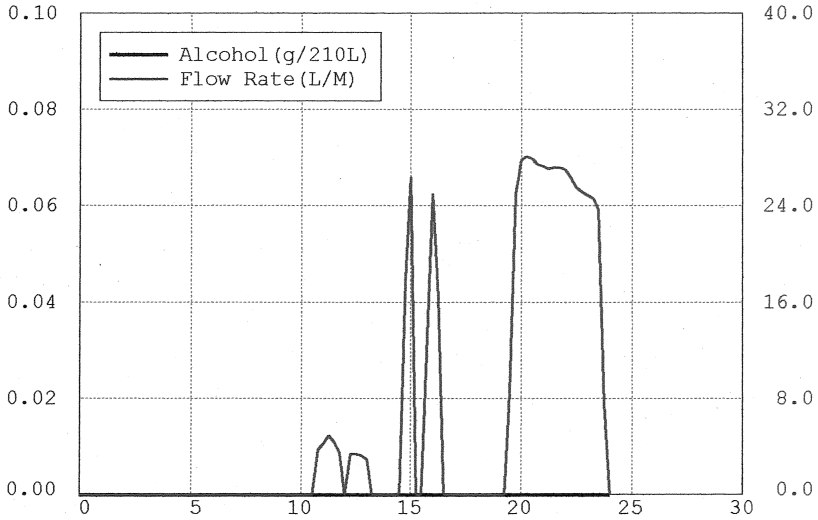


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 01/04/2005

Reviewed by _____ **Date** _____

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

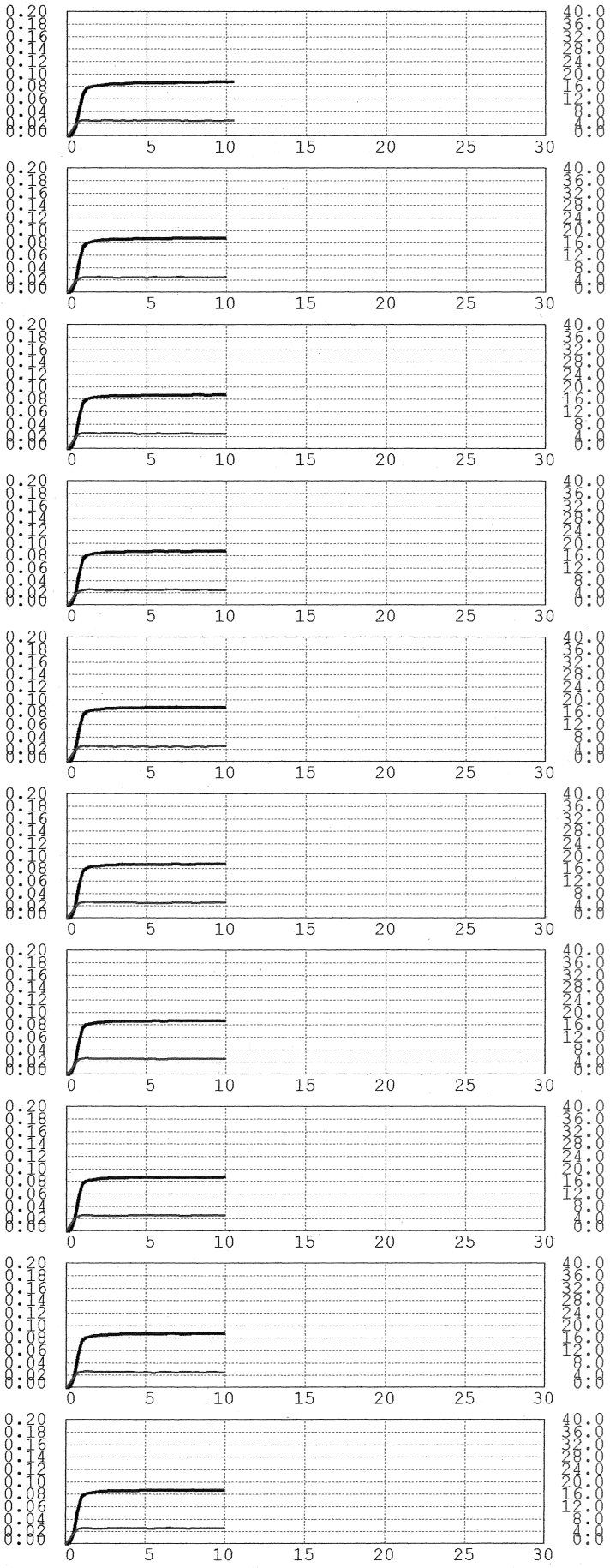
Date: 01/04/2005
Time: 04:52:00

SUPERVISOR NAME: ALB .01ACETONE IN .08ETOH

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

BLANK TEST	0.000	04:52
CALIBRATION CHECK	PASSED	04:53
SIMULATOR VAPOR	INTERFERENCE	04:53
SIMULATOR VAPOR	INTERFERENCE	04:54
SIMULATOR VAPOR	INTERFERENCE	04:55
SIMULATOR VAPOR	INTERFERENCE	04:56
SIMULATOR VAPOR	INTERFERENCE	04:57
SIMULATOR VAPOR	INTERFERENCE	04:58
SIMULATOR VAPOR	INTERFERENCE	04:59
SIMULATOR VAPOR	INTERFERENCE	05:00
SIMULATOR VAPOR	INTERFERENCE	05:01
SIMULATOR VAPOR	INTERFERENCE	05:02
BLANK TEST	0.000	05:03

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

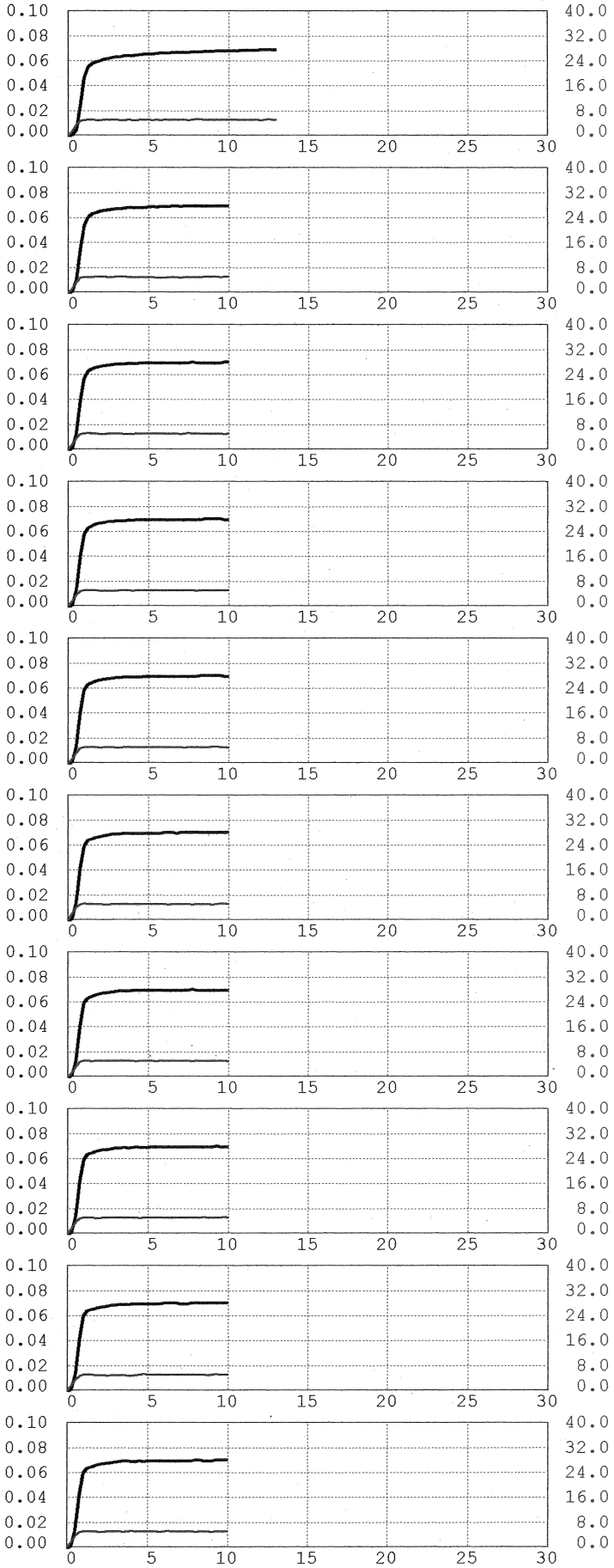
Date: 01/04/2005
Time: 05:05:32

SUPERVISOR NAME: ALB IPA IN H20

SOLUTION LOT #: 10-06-04I
SOLUTION CONCENTRATION: 0.040

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

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

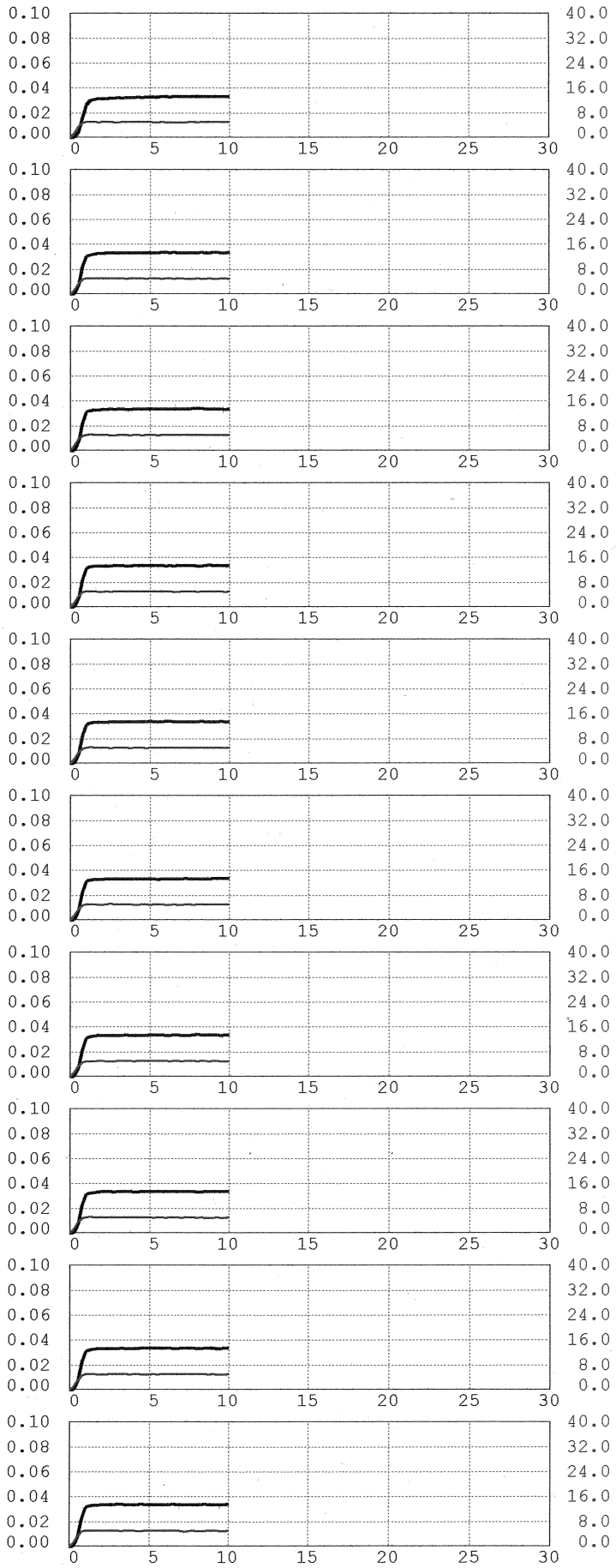
Date: 01/04/2005
Time: 05:19:37

SUPERVISOR NAME: ALB MEOH IN H2O

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

BLANK TEST	0.000	05:20
CALIBRATION CHECK	PASSED	05:20
SIMULATOR VAPOR	INTERFERENCE	05:20
SIMULATOR VAPOR	INTERFERENCE	05:21
SIMULATOR VAPOR	INTERFERENCE	05:22
SIMULATOR VAPOR	INTERFERENCE	05:23
SIMULATOR VAPOR	INTERFERENCE	05:24
SIMULATOR VAPOR	INTERFERENCE	05:25
SIMULATOR VAPOR	INTERFERENCE	05:26
SIMULATOR VAPOR	INTERFERENCE	05:27
SIMULATOR VAPOR	INTERFERENCE	05:28
SIMULATOR VAPOR	INTERFERENCE	05:29
BLANK TEST	0.000	05:30

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

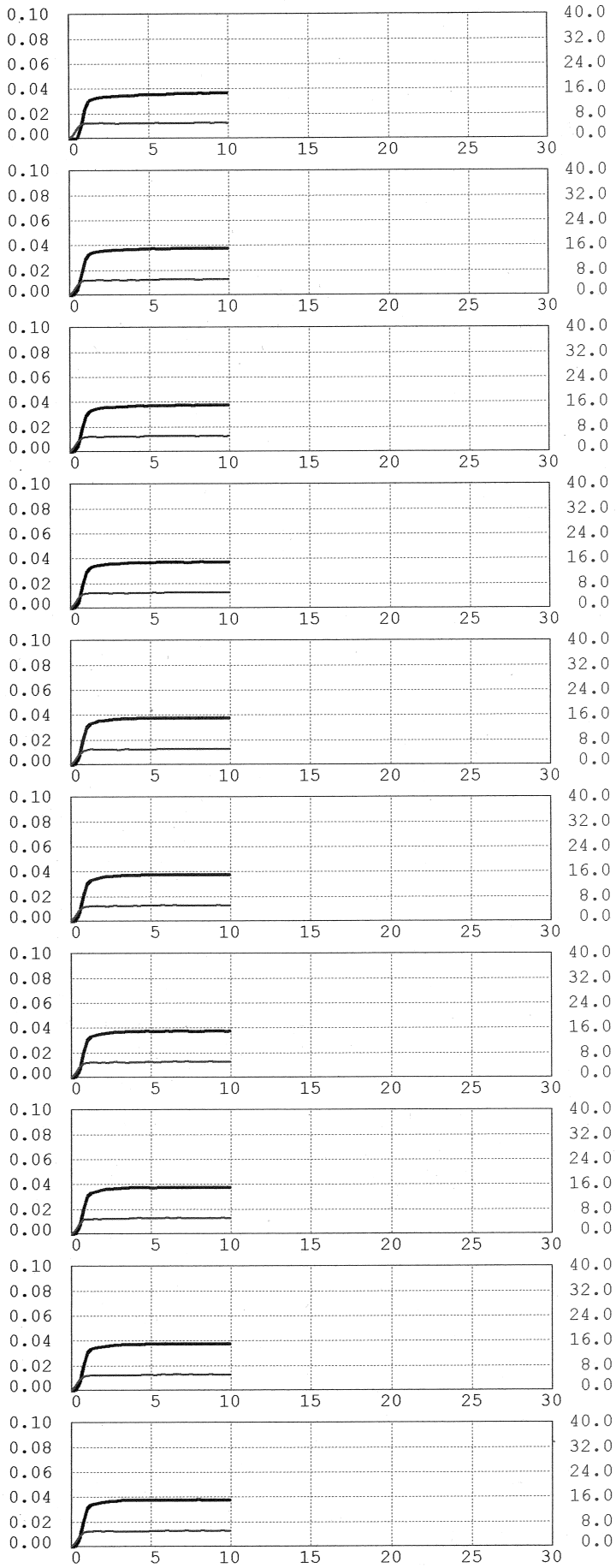
Date: 01/01/2005
Time: 00:26:49

SUPERVISOR NAME: ALB .04IPA IN H2O

SOLUTION LOT #: 10-16-04I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	00:27
CALIBRATION CHECK	PASSED	00:27
SIMULATOR VAPOR	INTERFERENCE	00:28
SIMULATOR VAPOR	INTERFERENCE	00:29
SIMULATOR VAPOR	INTERFERENCE	00:30
SIMULATOR VAPOR	INTERFERENCE	00:31
SIMULATOR VAPOR	INTERFERENCE	00:32
SIMULATOR VAPOR	INTERFERENCE	00:33
SIMULATOR VAPOR	INTERFERENCE	00:34
SIMULATOR VAPOR	INTERFERENCE	00:35
SIMULATOR VAPOR	INTERFERENCE	00:35
SIMULATOR VAPOR	INTERFERENCE	00:36
BLANK TEST	0.000	00:37

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

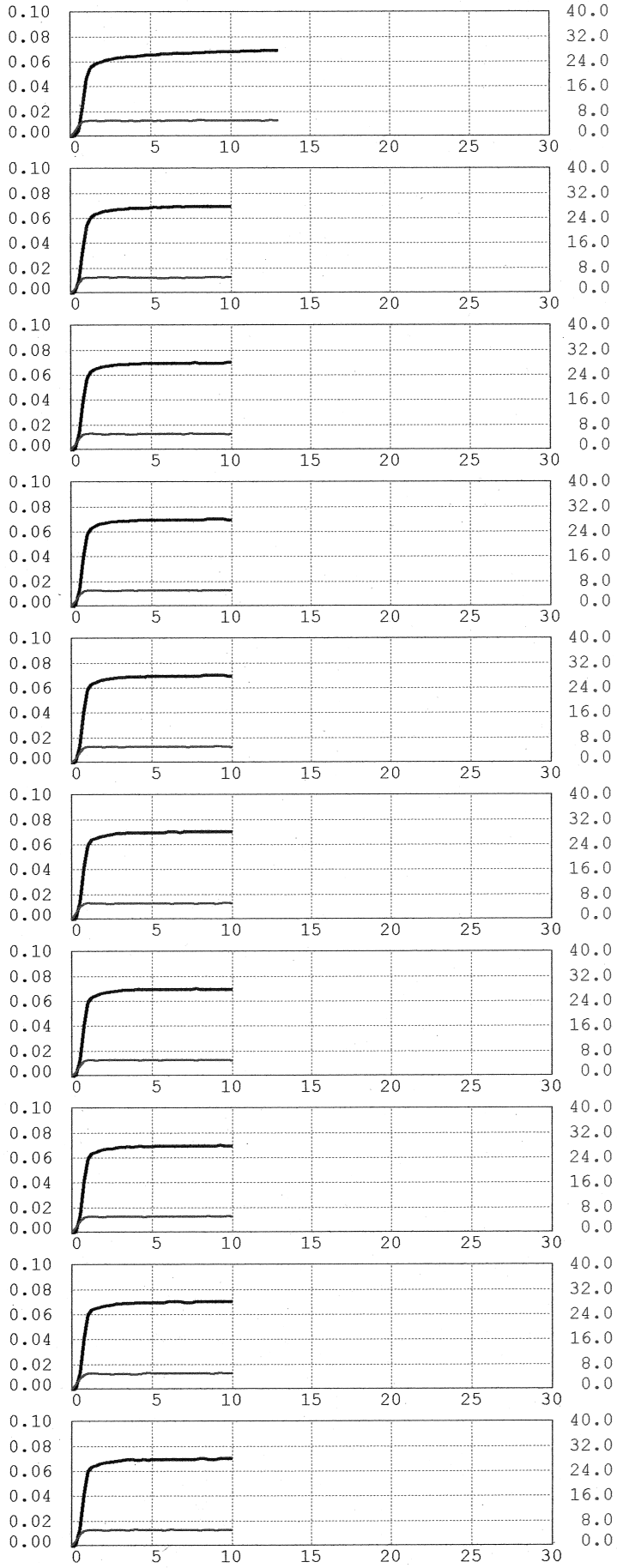
Date: 01/04/2005
Time: 05:05:32

SUPERVISOR NAME: ALB ~~IPA~~ nproponol IN H20

SOLUTION LOT #: 10-06-04I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	05:06
CALIBRATION CHECK	PASSED	05:06
Xq = 0.0798 (0.44%)		
SIMULATOR VAPOR	INTERFERENCE	05:06
X[1] = 0.0693 (-0.0093) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	05:07
X[1] = 0.0699 (-0.0095) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	05:08
X[1] = 0.0705 (-0.0092) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	05:09
X[1] = 0.0702 (-0.0097) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	05:10
X[1] = 0.0704 (-0.0098) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	05:11
X[1] = 0.0708 (-0.0098) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	05:12
X[1] = 0.0700 (-0.0100) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	05:13
X[1] = 0.0701 (-0.0102) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	05:14
X[1] = 0.0705 (-0.0101) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	05:15
X[1] = 0.0702 (-0.0106) (0.0007)		
BLANK TEST	0.000	05:16

Average out of range!



Section 4: Linearity

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

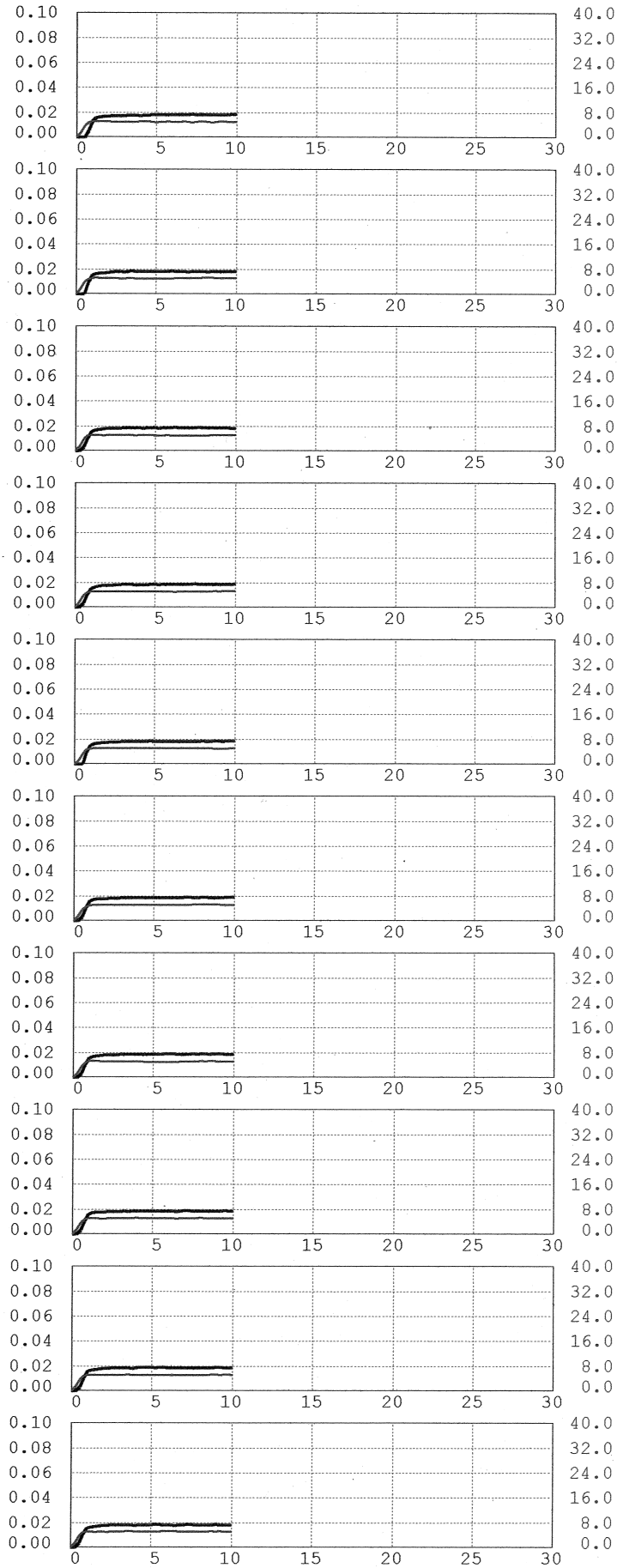
Date: 01/01/2005
Time: 16:16:24

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	16:17
CALIBRATION CHECK	PASSED	16:17
SIMULATOR VAPOR	0.019	16:17
SIMULATOR VAPOR	0.019	16:18
SIMULATOR VAPOR	0.019	16:19
SIMULATOR VAPOR	0.019	16:20
SIMULATOR VAPOR	0.019	16:21
SIMULATOR VAPOR	0.019	16:22
SIMULATOR VAPOR	0.019	16:23
SIMULATOR VAPOR	0.019	16:24
SIMULATOR VAPOR	0.019	16:25
SIMULATOR VAPOR	0.019	16:26
BLANK TEST	0.000	16:27

Average = 0.019
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

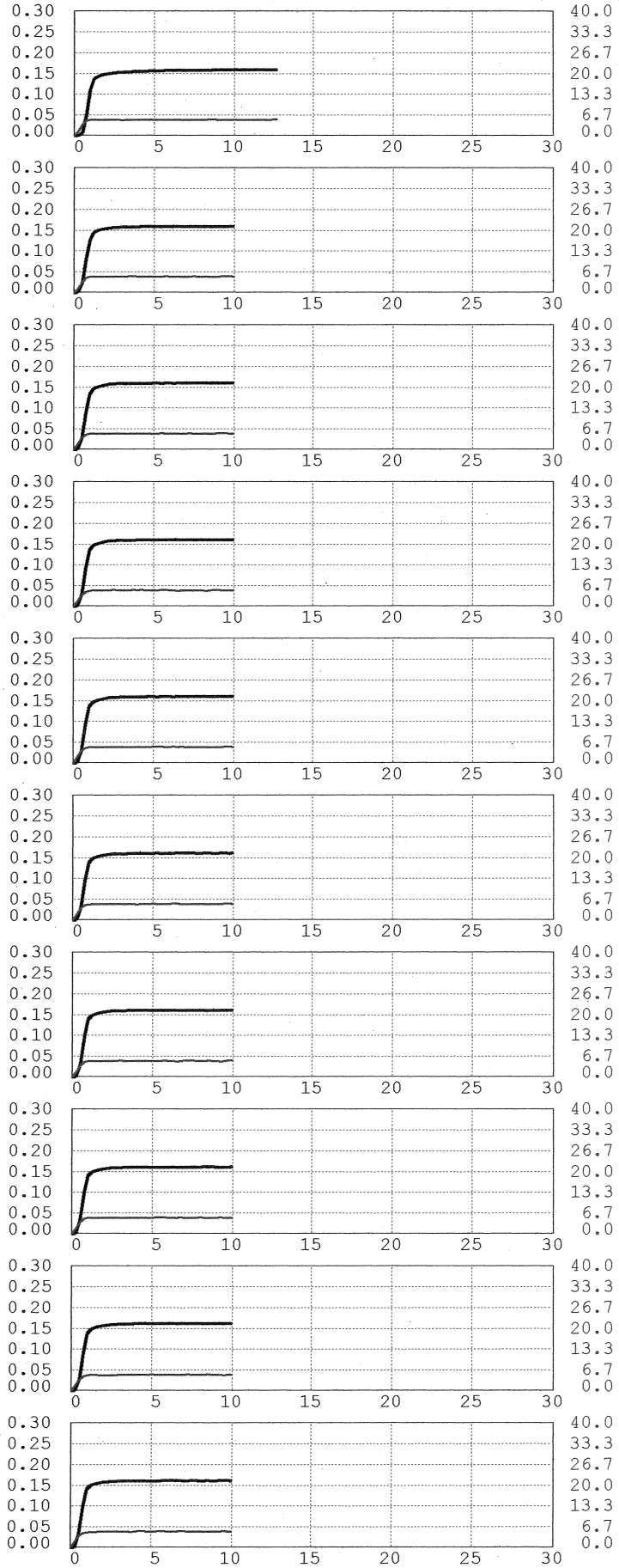
Date: 01/01/2005
Time: 16:47:47

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	16:48
CALIBRATION CHECK	PASSED	16:48
SIMULATOR VAPOR	0.159	16:49
SIMULATOR VAPOR	0.159	16:50
SIMULATOR VAPOR	0.160	16:51
SIMULATOR VAPOR	0.160	16:52
SIMULATOR VAPOR	0.160	16:53
SIMULATOR VAPOR	0.161	16:54
SIMULATOR VAPOR	0.160	16:55
SIMULATOR VAPOR	0.160	16:56
SIMULATOR VAPOR	0.161	16:57
SIMULATOR VAPOR	0.161	16:58
BLANK TEST	0.000	16:58

Average = 0.160
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

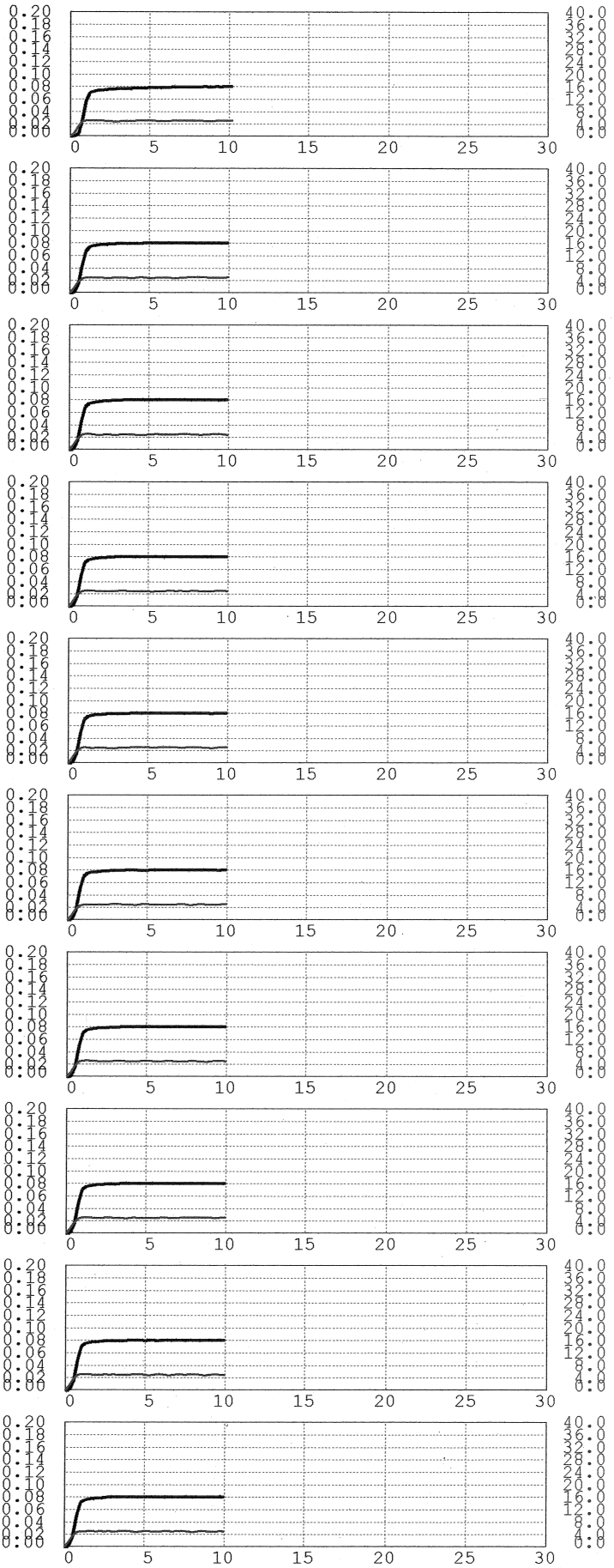
Date: 01/01/2005
Time: 19:25:29

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	19:26
CALIBRATION CHECK	PASSED	19:26
SIMULATOR VAPOR	0.080	19:26
SIMULATOR VAPOR	0.080	19:27
SIMULATOR VAPOR	0.080	19:28
SIMULATOR VAPOR	0.080	19:29
SIMULATOR VAPOR	0.080	19:30
SIMULATOR VAPOR	0.080	19:31
SIMULATOR VAPOR	0.080	19:32
SIMULATOR VAPOR	0.080	19:33
SIMULATOR VAPOR	0.080	19:34
SIMULATOR VAPOR	0.080	19:35
BLANK TEST	0.000	19:36

Average = 0.080
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

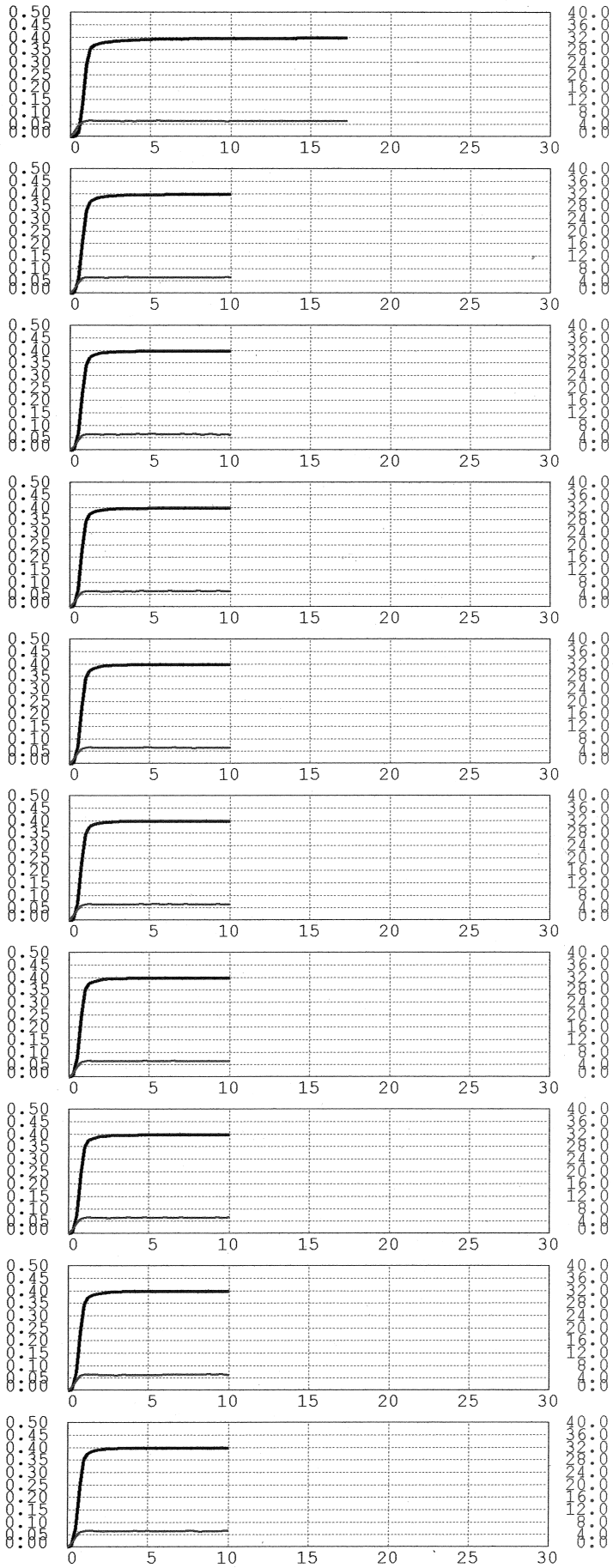
Date: 01/01/2005
Time: 20:43:25

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	20:44
CALIBRATION CHECK	PASSED	20:44
SIMULATOR VAPOR	0.396	20:44
SIMULATOR VAPOR	0.396	20:46
SIMULATOR VAPOR	0.396	20:47
SIMULATOR VAPOR	0.395	20:48
SIMULATOR VAPOR	0.395	20:49
SIMULATOR VAPOR	0.397	20:50
SIMULATOR VAPOR	0.396	20:51
SIMULATOR VAPOR	0.396	20:52
SIMULATOR VAPOR	0.395	20:53
SIMULATOR VAPOR	0.396	20:54
BLANK TEST	0.000	20:54

Average = 0.395
Std Dev = 0.0006



DIAGNOSTIC RESULT

DataMaster DMT: 103509
Location:
Calibration Date: 01/03/2005
Certification Date: 01/03/2005
Installation Date: 01/03/2005
Test Date: 01/06/2005
Time: 14:56

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    = 48.08°C

SETTINGS
Lamp Voltage   = 1.58 V
Cooler Voltage = 1.70 V
Bias Voltage   = 80.7 V
Chopper Freq   = 540.4 Hz

PUMP INFO
Flow Rate = 6.069 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.1313   -0.1295
MIN(V)  -0.1333   -0.1315

FILTER INFO
Filter 1 -0.131  Zero = true
Filter 2  0.196  Zero = true
Filter 3 -0.187  Zero = true

CALIBRATION CHECK
Xq = 0.0791  0.44%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

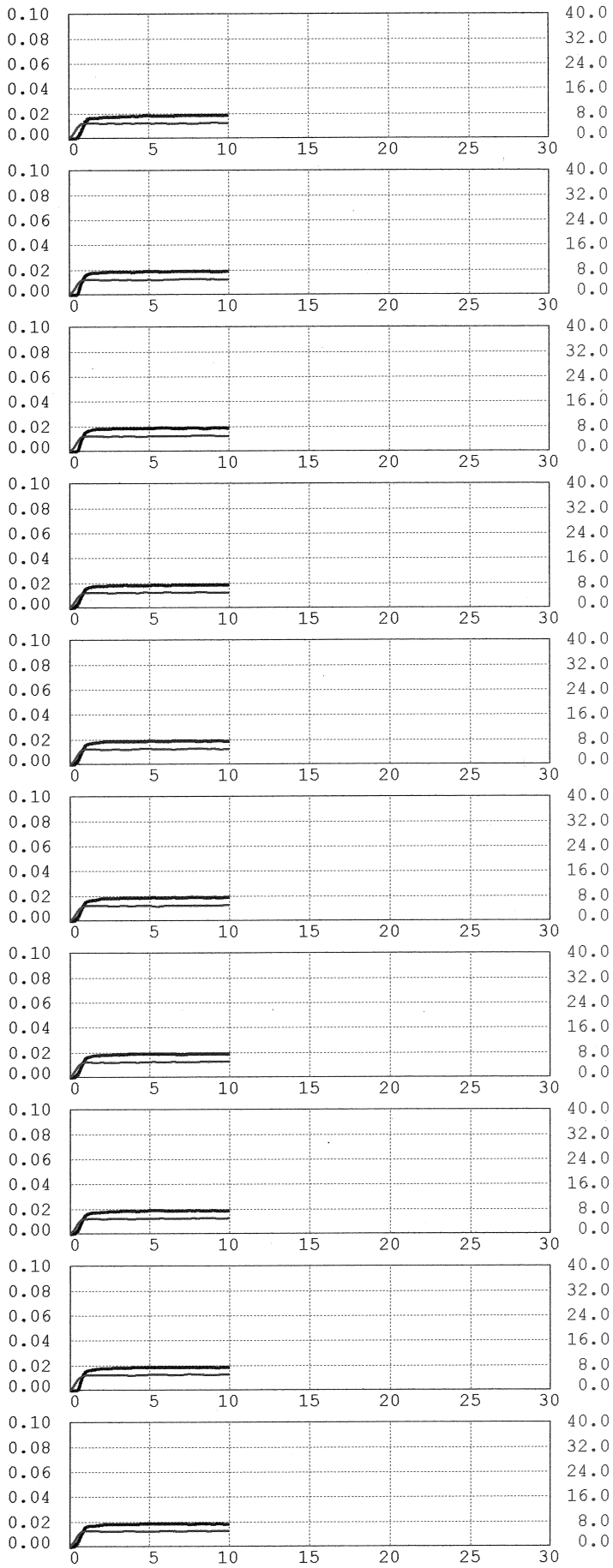
Date: 01/06/2005
Time: 14:58:42

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:59
CALIBRATION CHECK	PASSED	14:59
SIMULATOR VAPOR	0.019	15:00
SIMULATOR VAPOR	0.019	15:01
SIMULATOR VAPOR	0.019	15:02
SIMULATOR VAPOR	0.019	15:02
SIMULATOR VAPOR	0.019	15:03
SIMULATOR VAPOR	0.019	15:04
SIMULATOR VAPOR	0.020	15:05
SIMULATOR VAPOR	0.019	15:06
SIMULATOR VAPOR	0.019	15:07
SIMULATOR VAPOR	0.019	15:08
BLANK TEST	0.000	15:09

Average = 0.019
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

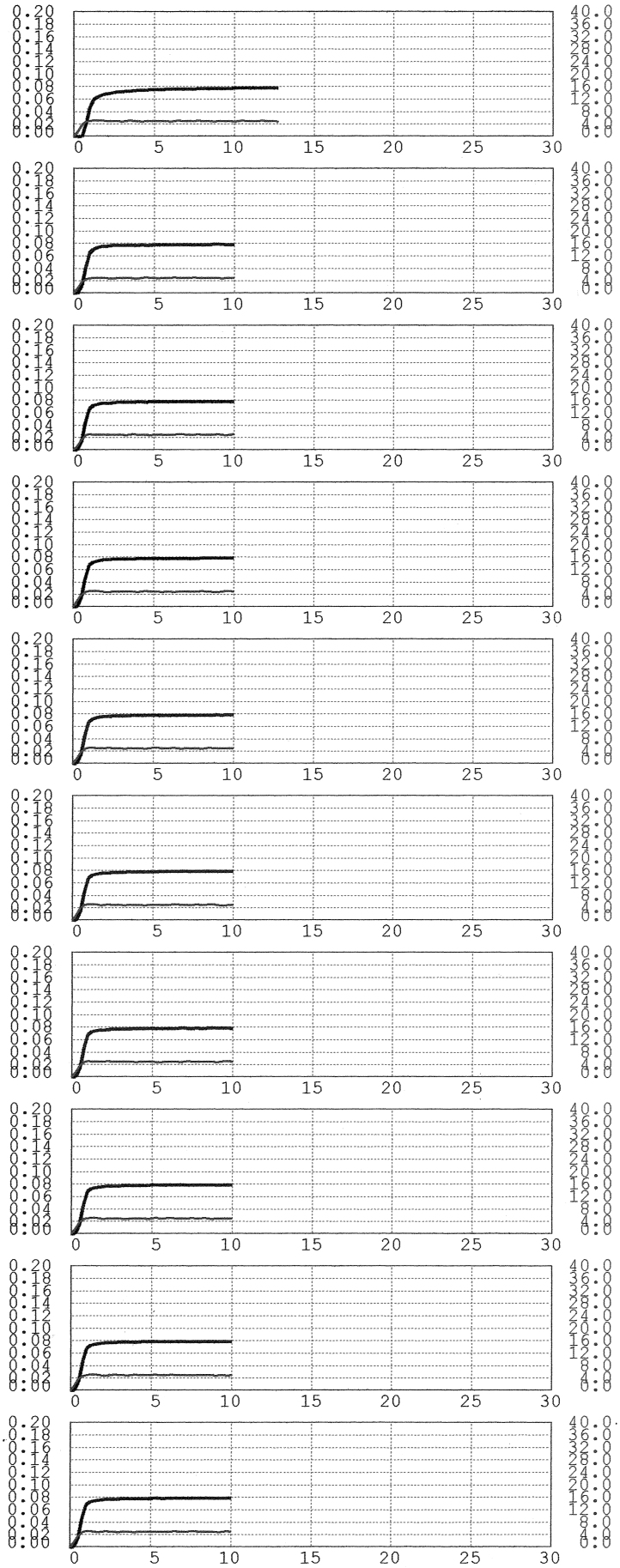
Date: 01/06/2005
Time: 15:10:58

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	15:11
CALIBRATION CHECK	PASSED	15:12
SIMULATOR VAPOR	0.078	15:12
SIMULATOR VAPOR	0.078	15:13
SIMULATOR VAPOR	0.078	15:14
SIMULATOR VAPOR	0.078	15:15
SIMULATOR VAPOR	0.078	15:16
SIMULATOR VAPOR	0.079	15:17
SIMULATOR VAPOR	0.078	15:18
SIMULATOR VAPOR	0.079	15:19
SIMULATOR VAPOR	0.079	15:20
SIMULATOR VAPOR	0.078	15:21
BLANK TEST	0.000	15:21

Average = 0.078
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

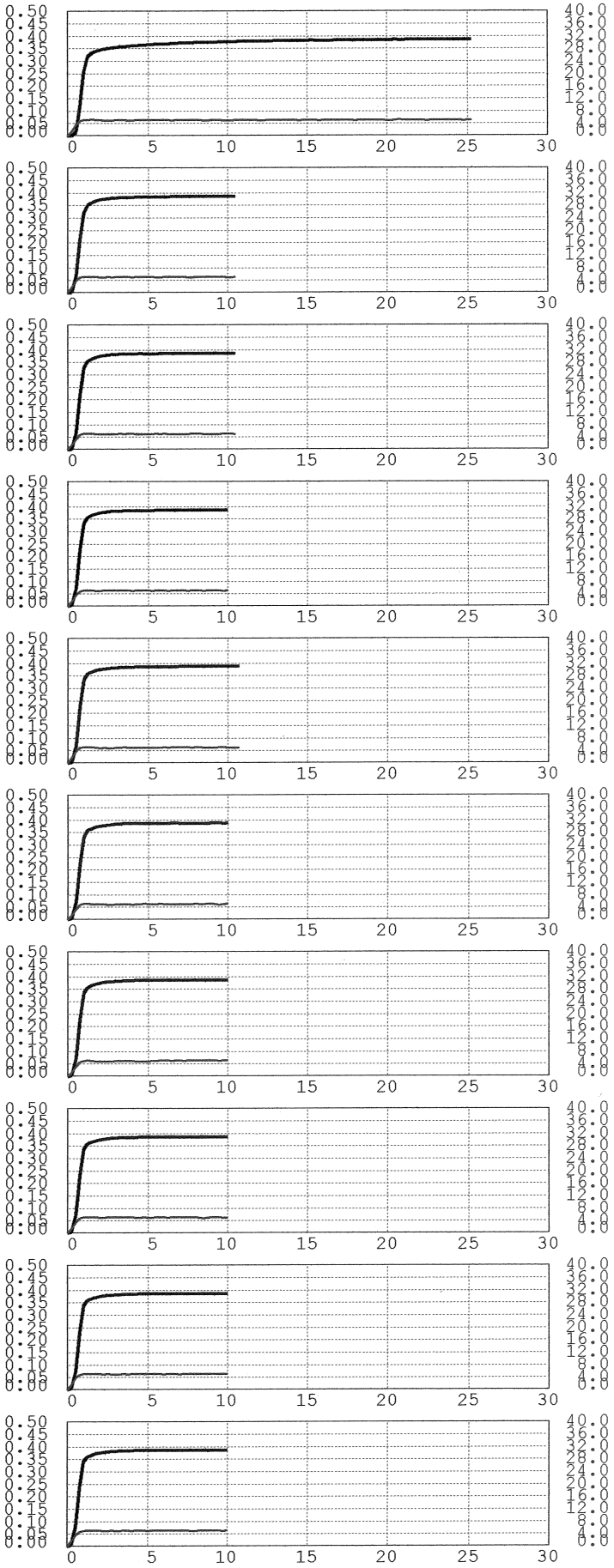
Date: 01/06/2005
Time: 15:32:31

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	15:33
CALIBRATION CHECK	PASSED	15:33
SIMULATOR VAPOR	0.384	15:34
SIMULATOR VAPOR	0.384	15:35
SIMULATOR VAPOR	0.384	15:36
SIMULATOR VAPOR	0.383	15:37
SIMULATOR VAPOR	0.385	15:38
SIMULATOR VAPOR	0.385	15:39
SIMULATOR VAPOR	0.384	15:40
SIMULATOR VAPOR	0.384	15:41
SIMULATOR VAPOR	0.385	15:42
SIMULATOR VAPOR	0.385	15:43
BLANK TEST	0.000	15:44

Average = 0.384
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

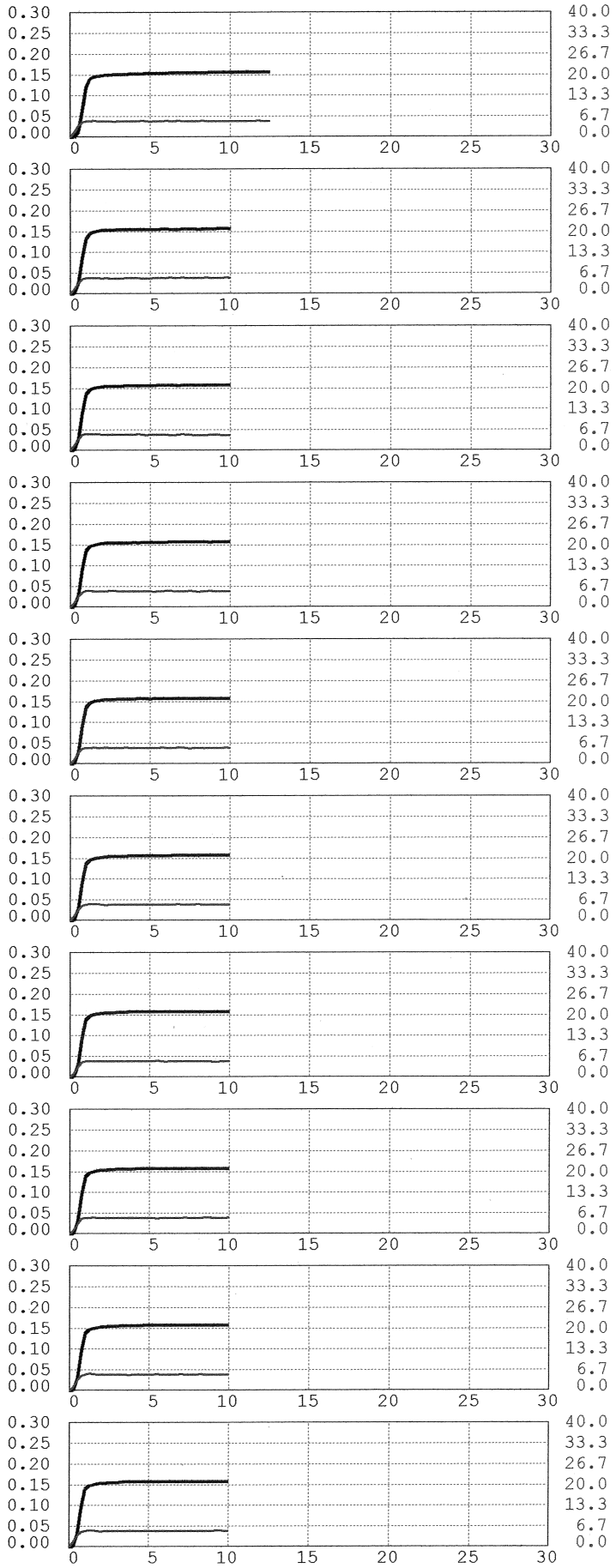
Date: 01/06/2005
Time: 15:58:56

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	15:59
CALIBRATION CHECK	PASSED	15:59
SIMULATOR VAPOR	0.156	16:00
SIMULATOR VAPOR	0.155	16:01
SIMULATOR VAPOR	0.156	16:02
SIMULATOR VAPOR	0.156	16:03
SIMULATOR VAPOR	0.157	16:04
SIMULATOR VAPOR	0.156	16:05
SIMULATOR VAPOR	0.157	16:06
SIMULATOR VAPOR	0.157	16:07
SIMULATOR VAPOR	0.156	16:08
SIMULATOR VAPOR	0.157	16:09
BLANK TEST	0.000	16:10

Average = 0.156
Std Dev = 0.0006



DIAGNOSTIC RESULT

DataMaster DMT: 103509
Location:
Calibration Date: 01/03/2005
Certification Date: 01/03/2005
Installation Date: 01/03/2005
Test Date: 01/06/2005
Time: 16:23

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    = 47.15°C

SETTINGS
Lamp Voltage   = 1.58 V
Cooler Voltage = 1.70 V
Bias Voltage   = 80.7 V
Chopper Freq   = 541.6 Hz

PUMP INFO
Flow Rate = 6.008 L/M

DETECTOR INFO
PUMP    ON       OFF
MAX(V) -0.1203  -0.1197
MIN(V) -0.1232  -0.1226

FILTER INFO
Filter 1 -0.121  Zero = true
Filter 2  0.206  Zero = true
Filter 3 -0.171  Zero = true

CALIBRATION CHECK
Xq = 0.0789  0.66%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

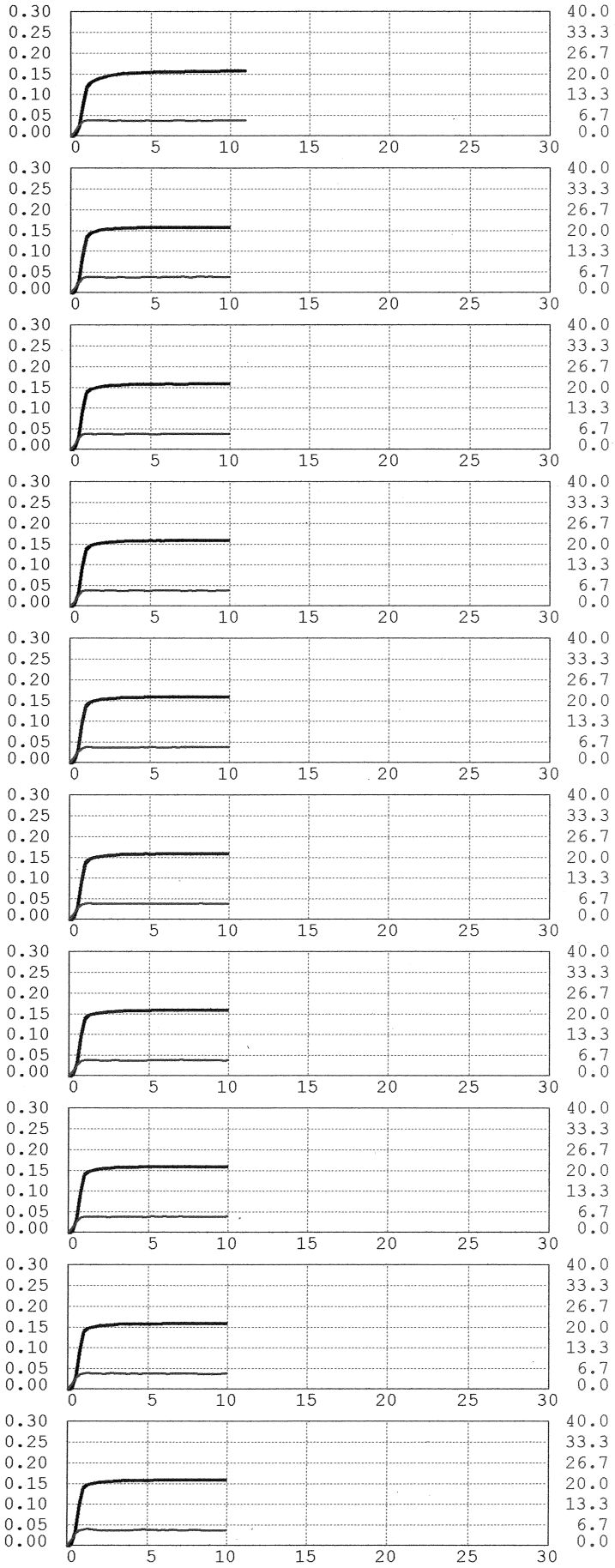
Date: 01/06/2005
Time: 16:25:35

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	16:26
CALIBRATION CHECK	PASSED	16:26
SIMULATOR VAPOR	0.156	16:26
SIMULATOR VAPOR	0.157	16:27
SIMULATOR VAPOR	0.157	16:28
SIMULATOR VAPOR	0.158	16:29
SIMULATOR VAPOR	0.158	16:30
SIMULATOR VAPOR	0.158	16:31
SIMULATOR VAPOR	0.158	16:32
SIMULATOR VAPOR	0.159	16:33
SIMULATOR VAPOR	0.158	16:34
SIMULATOR VAPOR	0.158	16:35
BLANK TEST	0.000	16:36

Average = 0.157
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

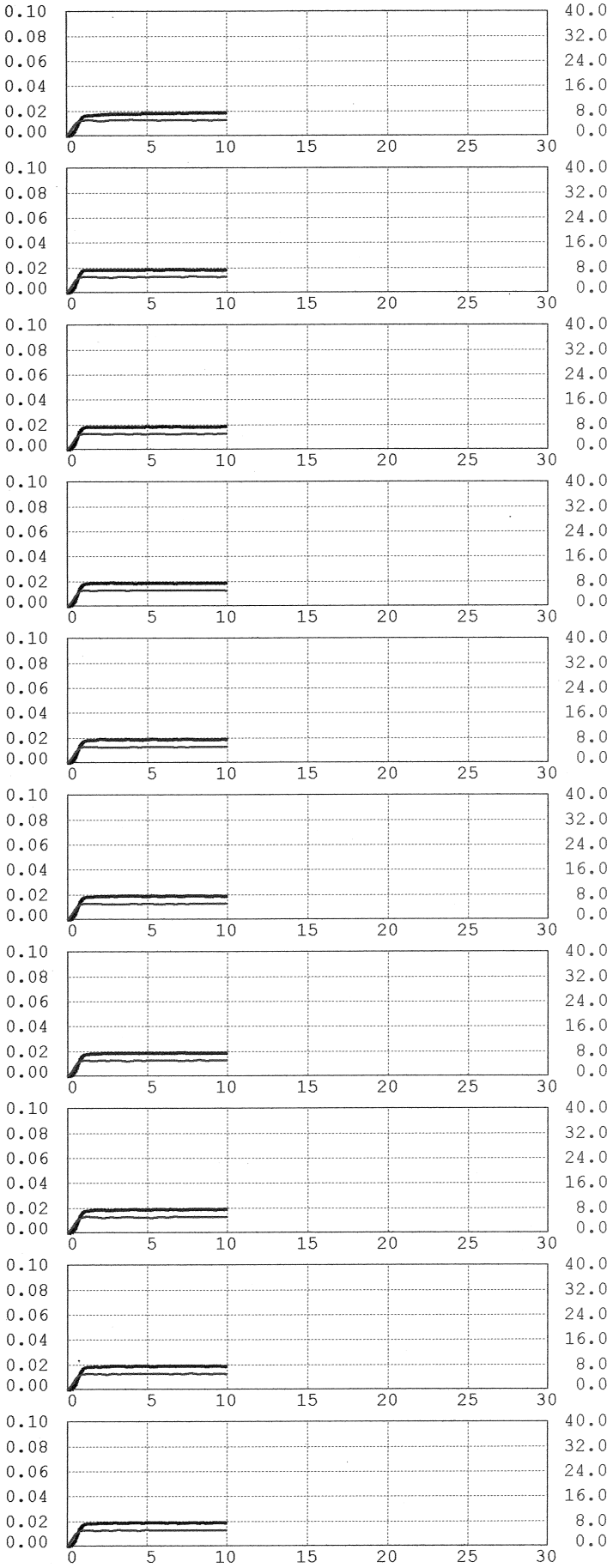
Date: 01/06/2005
Time: 16:44:24

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	16:45
CALIBRATION CHECK	PASSED	16:45
SIMULATOR VAPOR	0.019	16:45
SIMULATOR VAPOR	0.019	16:46
SIMULATOR VAPOR	0.019	16:47
SIMULATOR VAPOR	0.019	16:48
SIMULATOR VAPOR	0.019	16:49
SIMULATOR VAPOR	0.019	16:50
SIMULATOR VAPOR	0.019	16:51
SIMULATOR VAPOR	0.019	16:52
SIMULATOR VAPOR	0.019	16:53
SIMULATOR VAPOR	0.019	16:54
BLANK TEST	0.000	16:55

Average = 0.019
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

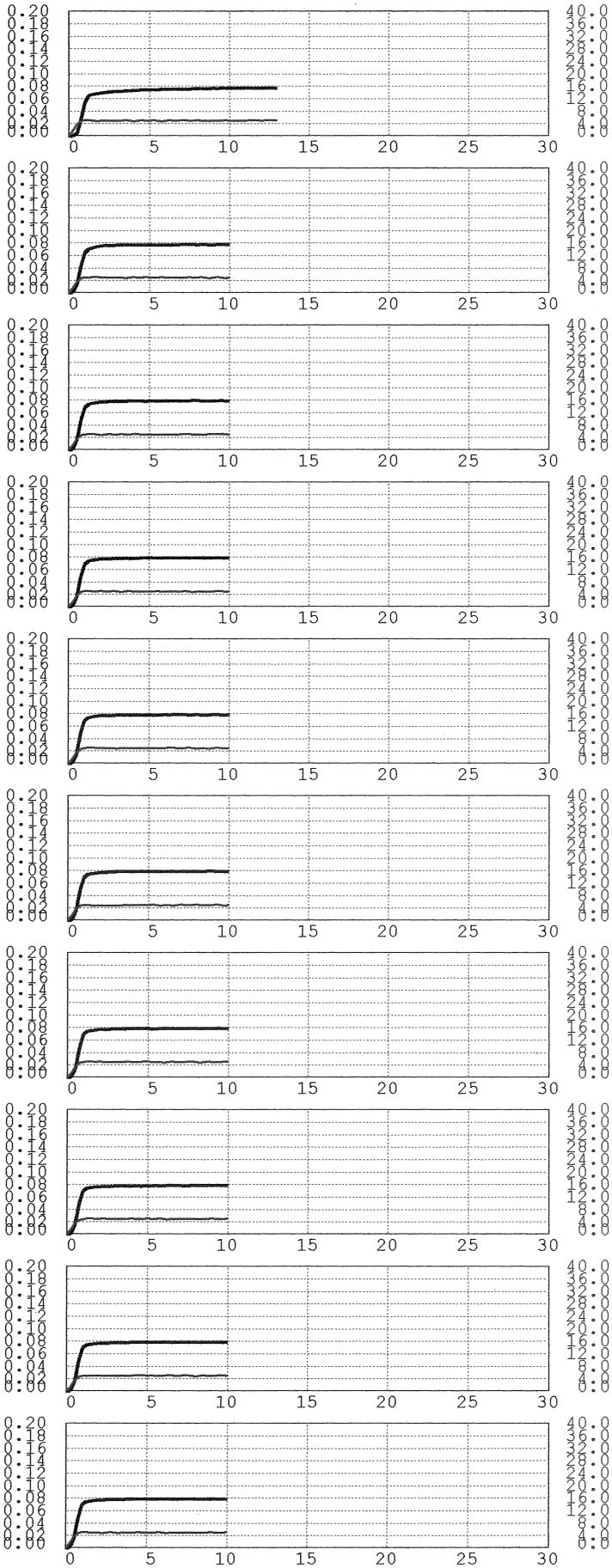
Date: 01/06/2005
Time: 17:03:44

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	17:04
CALIBRATION CHECK	PASSED	17:04
SIMULATOR VAPOR	0.077	17:05
SIMULATOR VAPOR	0.077	17:06
SIMULATOR VAPOR	0.079	17:07
SIMULATOR VAPOR	0.079	17:08
SIMULATOR VAPOR	0.079	17:09
SIMULATOR VAPOR	0.079	17:10
SIMULATOR VAPOR	0.079	17:11
SIMULATOR VAPOR	0.078	17:12
SIMULATOR VAPOR	0.079	17:13
SIMULATOR VAPOR	0.079	17:13
BLANK TEST	0.000	17:14

Average = 0.078
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

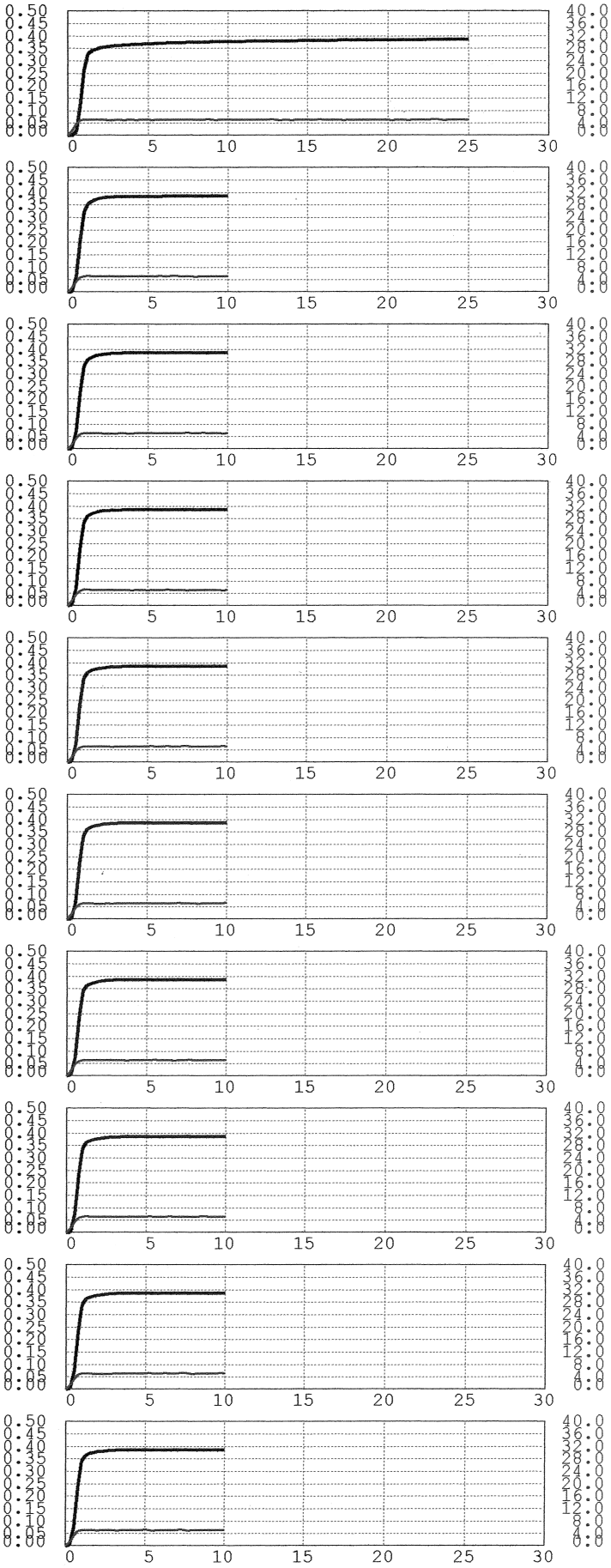
Date: 01/06/2005
Time: 17:23:14

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	17:24
CALIBRATION CHECK	PASSED	17:24
SIMULATOR VAPOR	0.385	17:24
SIMULATOR VAPOR	0.384	17:26
SIMULATOR VAPOR	0.384	17:27
SIMULATOR VAPOR	0.385	17:28
SIMULATOR VAPOR	0.384	17:29
SIMULATOR VAPOR	0.384	17:30
SIMULATOR VAPOR	0.385	17:31
SIMULATOR VAPOR	0.385	17:32
SIMULATOR VAPOR	0.385	17:33
SIMULATOR VAPOR	0.385	17:34
BLANK TEST	0.000	17:34

Average = 0.384
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

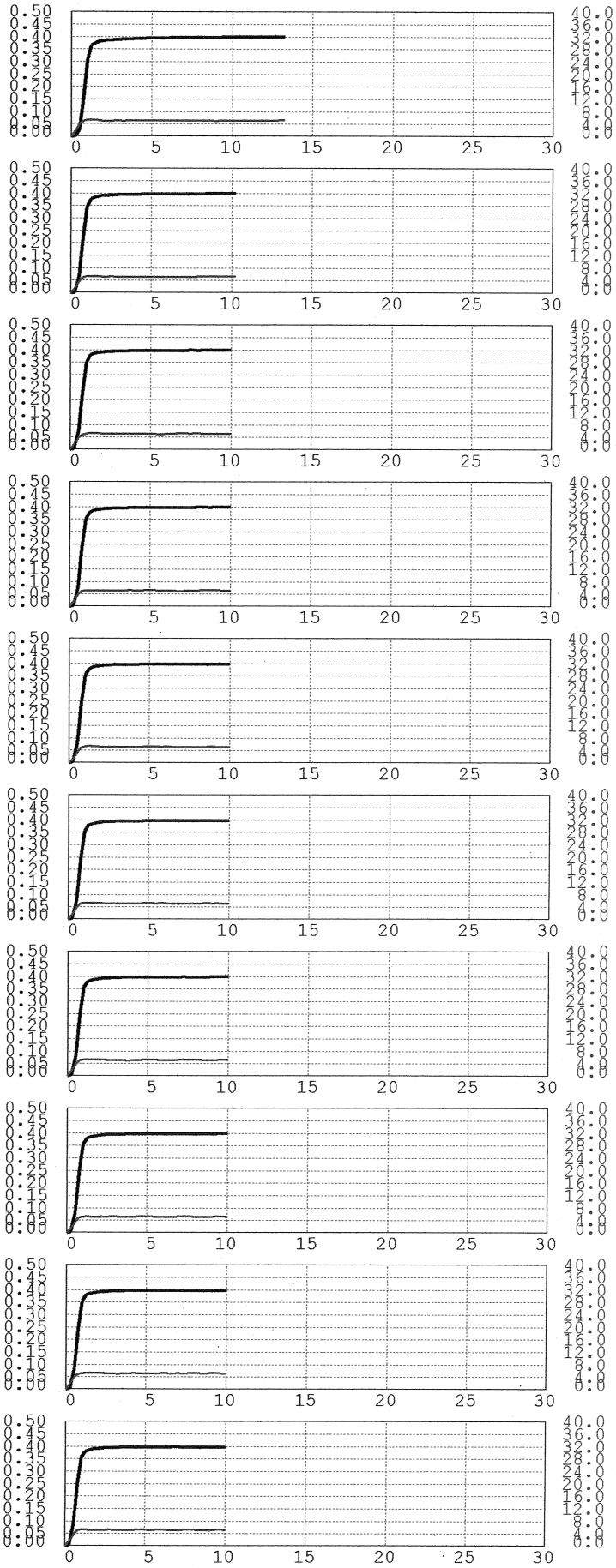
Date: 01/10/2005
Time: 20:07:35

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	20:08
CALIBRATION CHECK	PASSED	20:08
SIMULATOR VAPOR	0.397	20:08
SIMULATOR VAPOR	0.396	20:10
SIMULATOR VAPOR	0.396	20:11
SIMULATOR VAPOR	0.396	20:12
SIMULATOR VAPOR	0.396	20:13
SIMULATOR VAPOR	0.395	20:14
SIMULATOR VAPOR	0.396	20:15
SIMULATOR VAPOR	0.397	20:16
SIMULATOR VAPOR	0.395	20:17
SIMULATOR VAPOR	0.396	20:18
BLANK TEST	0.000	20:18

Average = 0.395
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

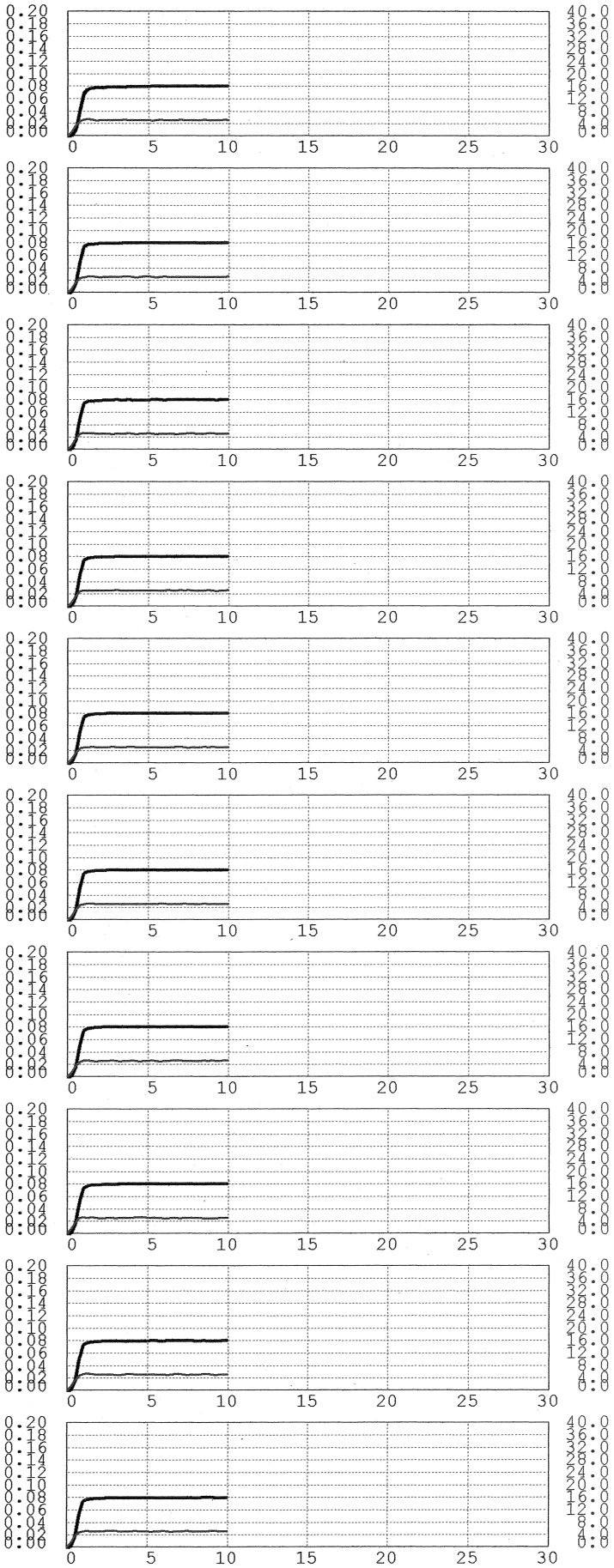
Date: 01/10/2005
Time: 20:52:09

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	20:53
CALIBRATION CHECK	PASSED	20:53
SIMULATOR VAPOR	0.080	20:53
SIMULATOR VAPOR	0.080	20:54
SIMULATOR VAPOR	0.080	20:55
SIMULATOR VAPOR	0.080	20:56
SIMULATOR VAPOR	0.080	20:57
SIMULATOR VAPOR	0.080	20:58
SIMULATOR VAPOR	0.080	20:59
SIMULATOR VAPOR	0.080	21:00
SIMULATOR VAPOR	0.080	21:01
SIMULATOR VAPOR	0.079	21:02
BLANK TEST	0.000	21:03

Average = 0.079
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

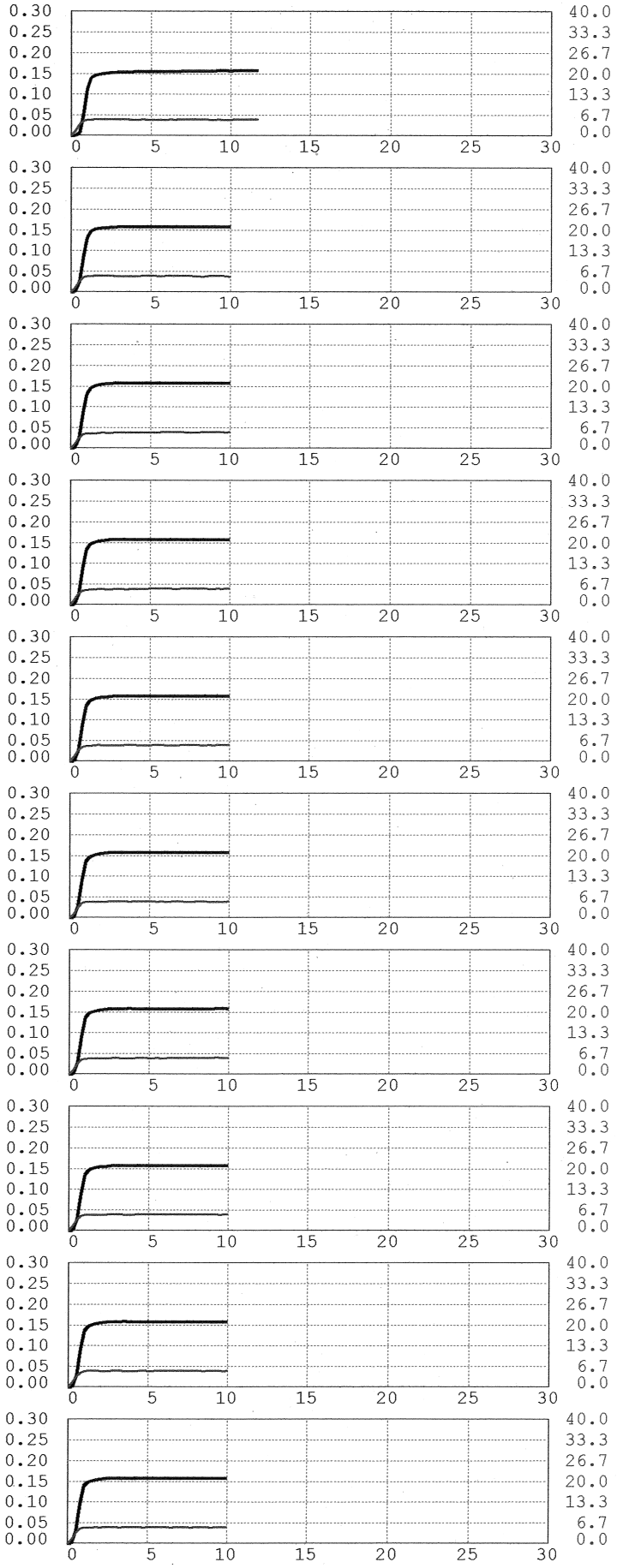
Date: 01/11/2005
Time: 15:59:26

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	16:00
CALIBRATION CHECK	PASSED	16:00
SIMULATOR VAPOR	0.157	16:00
SIMULATOR VAPOR	0.158	16:01
SIMULATOR VAPOR	0.157	16:02
SIMULATOR VAPOR	0.157	16:03
SIMULATOR VAPOR	0.157	16:04
SIMULATOR VAPOR	0.158	16:05
SIMULATOR VAPOR	0.158	16:06
SIMULATOR VAPOR	0.157	16:07
SIMULATOR VAPOR	0.158	16:08
SIMULATOR VAPOR	0.158	16:09
BLANK TEST	0.000	16:10

Average = 0.157
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

Date: 01/11/2005
Time: 17:51:11

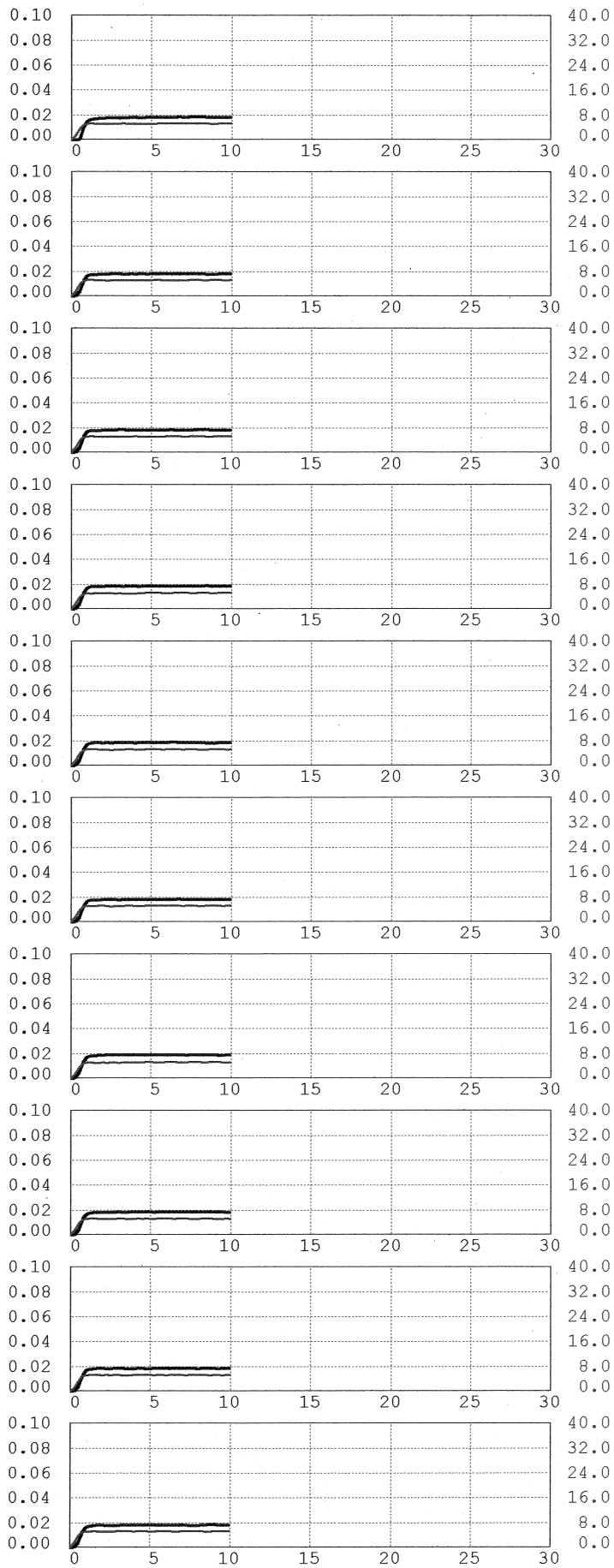
SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	17:52
CALIBRATION CHECK	PASSED	17:52
SIMULATOR VAPOR	0.019	17:52
SIMULATOR VAPOR	0.018	17:53
SIMULATOR VAPOR	0.019	17:54
SIMULATOR VAPOR	0.019	17:55
SIMULATOR VAPOR	0.019	17:56
SIMULATOR VAPOR	0.018	17:57
SIMULATOR VAPOR	0.019	17:58
SIMULATOR VAPOR	0.018	17:59
SIMULATOR VAPOR	0.019	18:00
SIMULATOR VAPOR	0.018	18:01
BLANK TEST	0.000	18:02

Average out of range!

Average = 0.018
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

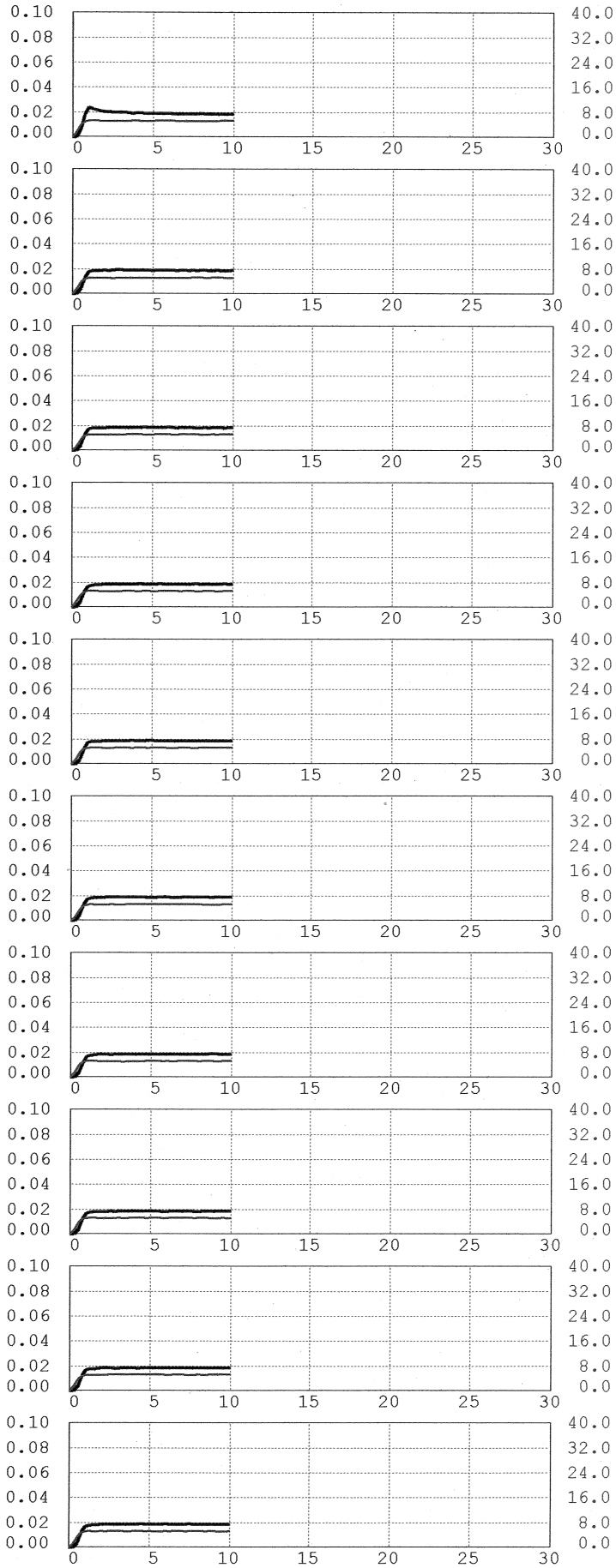
Date: 01/11/2005
Time: 19:25:52

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	19:26
CALIBRATION CHECK	PASSED	19:26
SIMULATOR VAPOR	0.019	19:27
SIMULATOR VAPOR	0.019	19:28
SIMULATOR VAPOR	0.019	19:29
SIMULATOR VAPOR	0.019	19:30
SIMULATOR VAPOR	0.019	19:31
SIMULATOR VAPOR	0.019	19:32
SIMULATOR VAPOR	0.019	19:33
SIMULATOR VAPOR	0.019	19:34
SIMULATOR VAPOR	0.019	19:35
SIMULATOR VAPOR	0.019	19:36
BLANK TEST	0.000	19:36

Average = 0.019
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

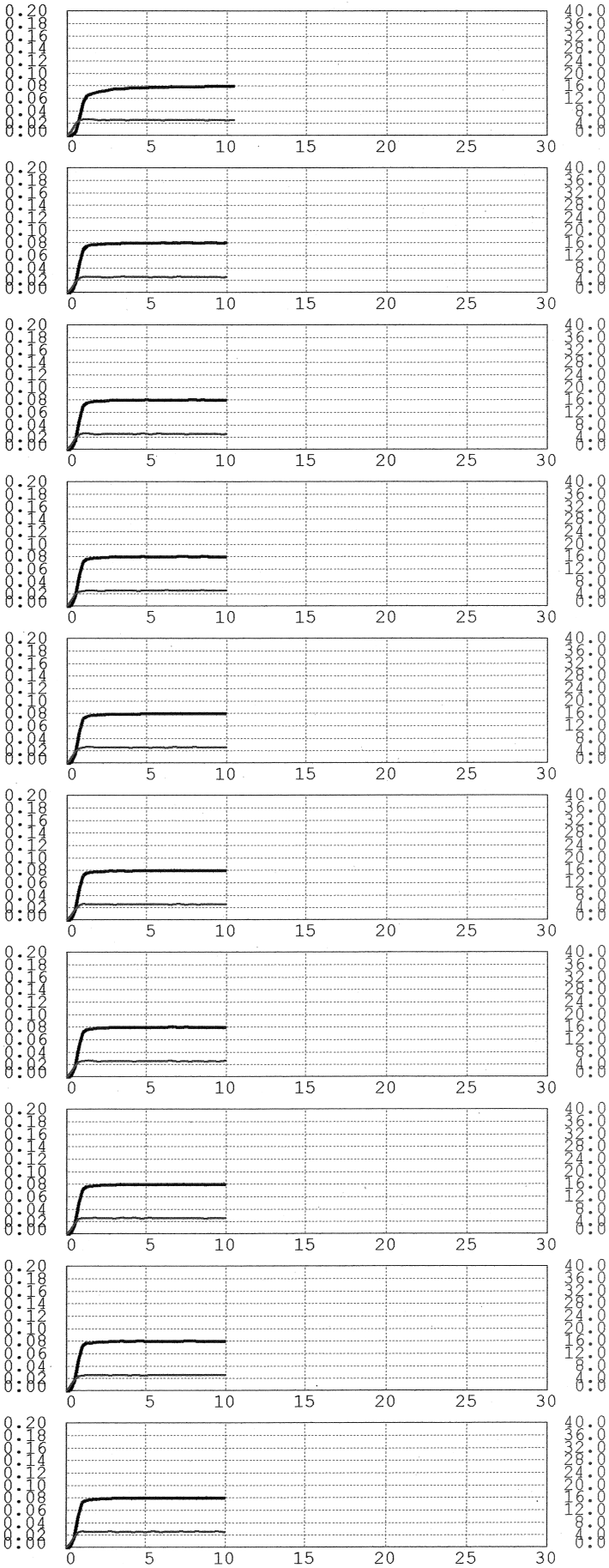
Date: 01/11/2005
Time: 20:18:53

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	20:19
CALIBRATION CHECK	PASSED	20:19
SIMULATOR VAPOR	0.079	20:20
SIMULATOR VAPOR	0.080	20:21
SIMULATOR VAPOR	0.080	20:22
SIMULATOR VAPOR	0.080	20:23
SIMULATOR VAPOR	0.079	20:24
SIMULATOR VAPOR	0.079	20:25
SIMULATOR VAPOR	0.079	20:26
SIMULATOR VAPOR	0.079	20:27
SIMULATOR VAPOR	0.079	20:28
SIMULATOR VAPOR	0.079	20:29
BLANK TEST	0.000	20:29

Average = 0.079
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

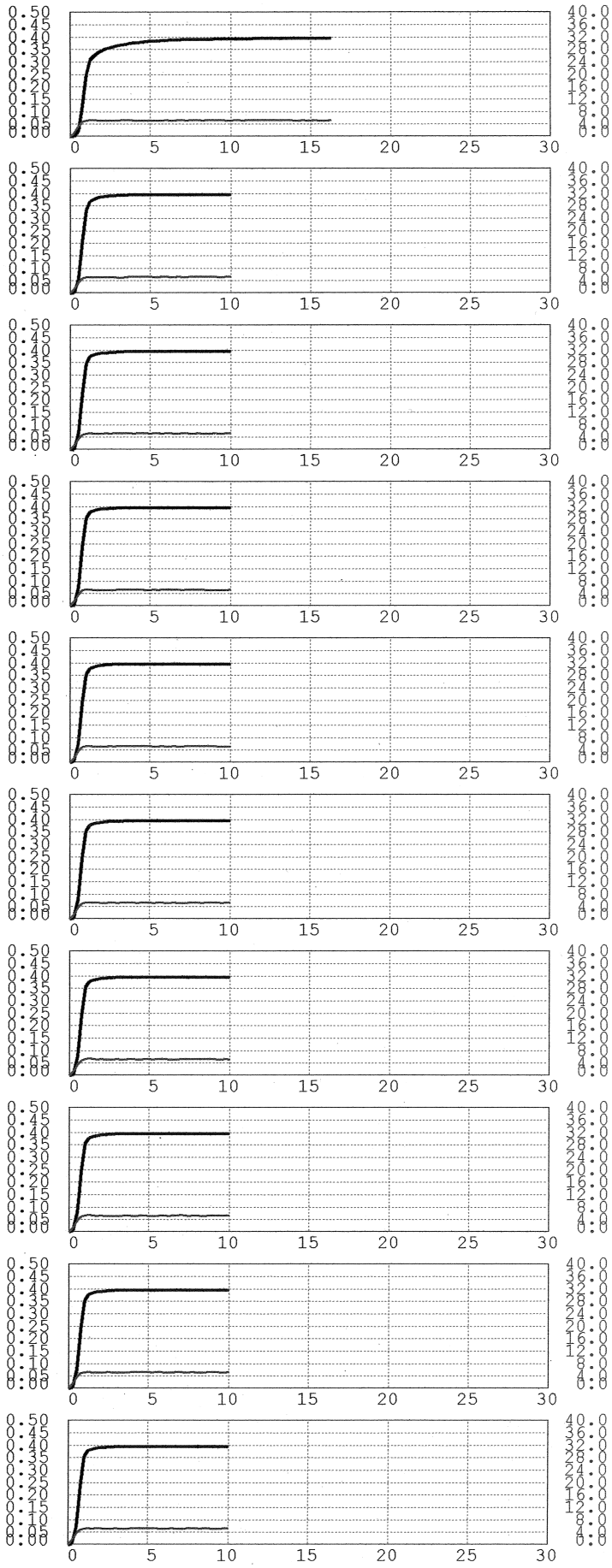
Date: 01/11/2005
Time: 20:31:15

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	20:32
CALIBRATION CHECK	PASSED	20:32
SIMULATOR VAPOR	0.394	20:32
SIMULATOR VAPOR	0.394	20:33
SIMULATOR VAPOR	0.394	20:34
SIMULATOR VAPOR	0.394	20:35
SIMULATOR VAPOR	0.394	20:36
SIMULATOR VAPOR	0.394	20:37
SIMULATOR VAPOR	0.393	20:38
SIMULATOR VAPOR	0.394	20:39
SIMULATOR VAPOR	0.393	20:40
SIMULATOR VAPOR	0.394	20:41
BLANK TEST	0.000	20:42

Average = 0.393
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

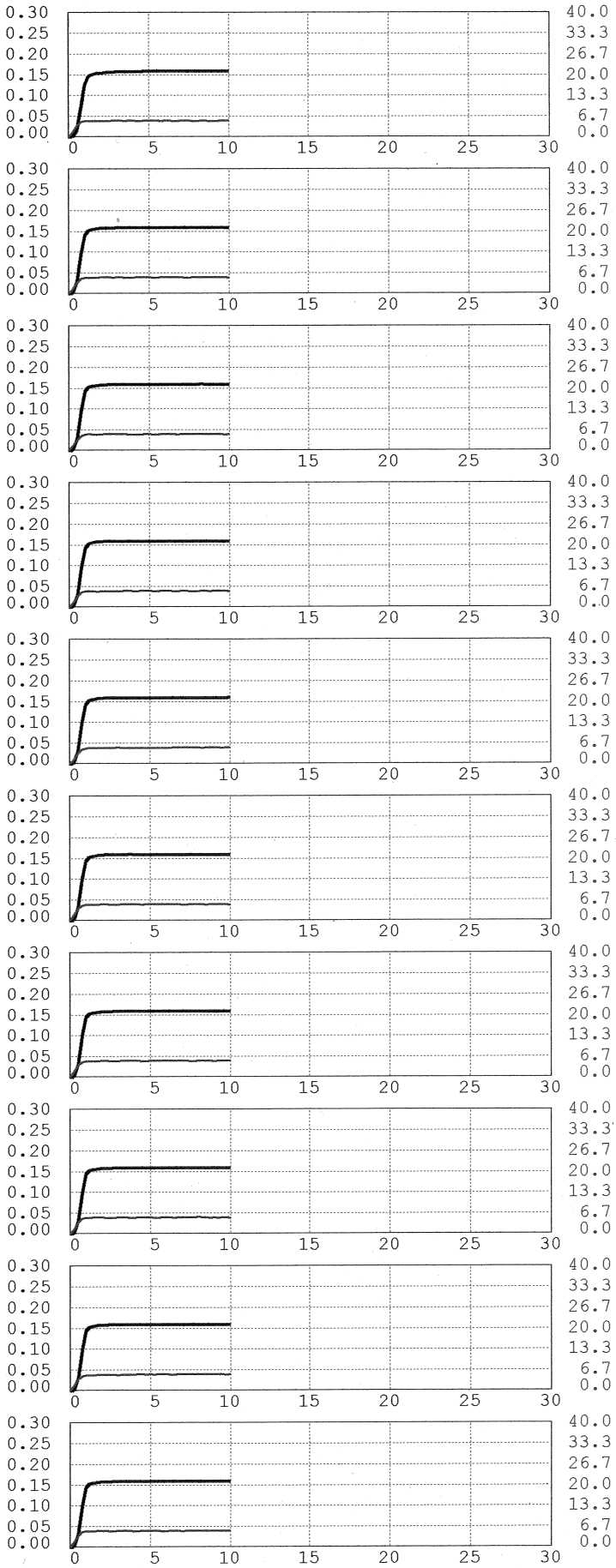
Date: 01/11/2005
Time: 21:54:51

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	21:55
CALIBRATION CHECK	PASSED	21:55
SIMULATOR VAPOR	0.159	21:56
SIMULATOR VAPOR	0.159	21:57
SIMULATOR VAPOR	0.159	21:58
SIMULATOR VAPOR	0.159	21:59
SIMULATOR VAPOR	0.159	22:00
SIMULATOR VAPOR	0.159	22:01
SIMULATOR VAPOR	0.159	22:02
SIMULATOR VAPOR	0.159	22:03
SIMULATOR VAPOR	0.159	22:04
SIMULATOR VAPOR	0.159	22:05
BLANK TEST	0.000	22:05

Average = 0.159
Std Dev = 0.0000



DIAGNOSTIC RESULT

DataMaster DMT: 103509
Location:
Calibration Date: 01/03/2005
Certification Date: 01/03/2005
Installation Date: 01/03/2005
Test Date: 11/13/2009
Time: 13:22

instrument had incorrect date.

corrected date 11/13/09 DMR

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    = 48.10°C

SETTINGS
Lamp Voltage   = 1.58 V
Cooler Voltage = 1.70 V
Bias Voltage   = 80.8 V
Chopper Freq   = 544.1 Hz

PUMP INFO
Flow Rate = 6.260 L/M

DETECTOR INFO
PUMP    ON       OFF
MAX(V) -0.0374  -0.0376
MIN(V) -0.0400  -0.0392

FILTER INFO
Filter 1 -0.040  Zero = true
Filter 2  0.282  Zero = true
Filter 3 -0.053  Zero = true

CALIBRATION CHECK
Xq = 0.0798  0.44%
```

Section 5: Interference

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

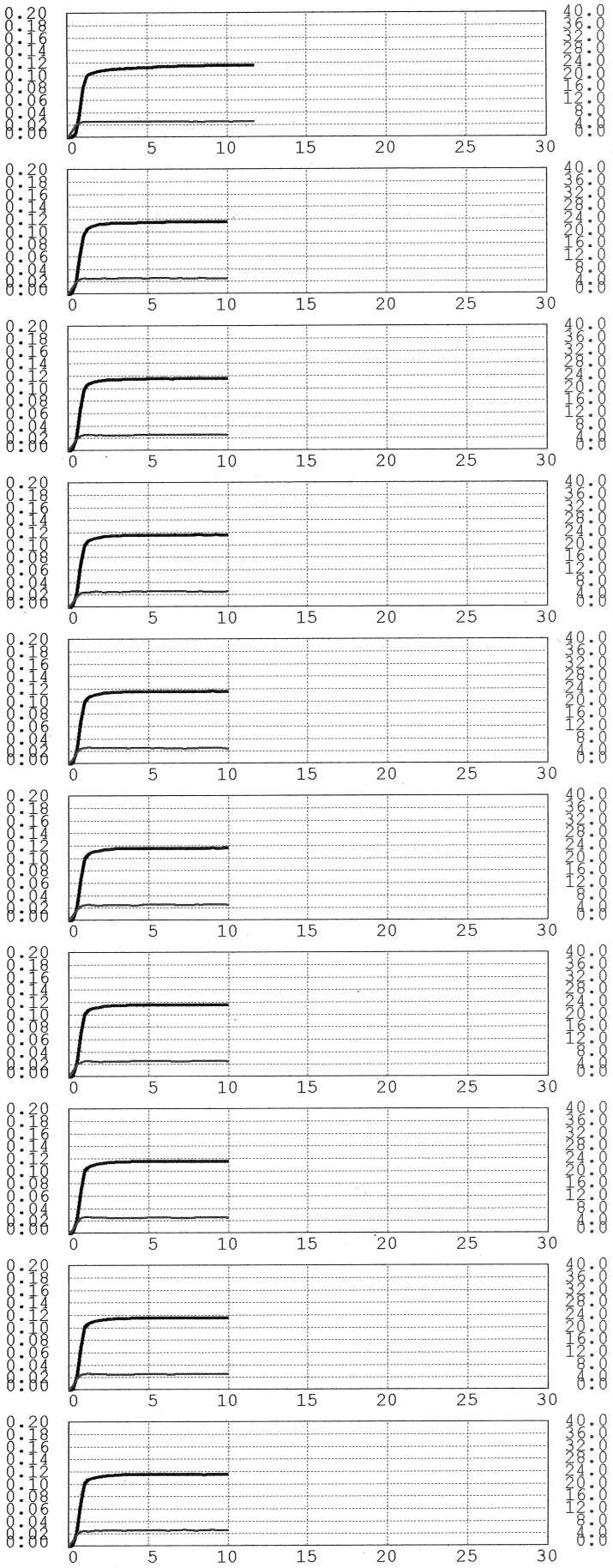
Date: 01/01/2005
Time: 19:51:00

SUPERVISOR NAME: ALB .04MEOH IN .08ETOH

SOLUTION LOT #: 10-10-08M4
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	19:51
CALIBRATION CHECK	PASSED	19:52
SIMULATOR VAPOR	INTERFERENCE	19:52
SIMULATOR VAPOR	INTERFERENCE	19:53
SIMULATOR VAPOR	INTERFERENCE	19:54
SIMULATOR VAPOR	INTERFERENCE	19:55
SIMULATOR VAPOR	INTERFERENCE	19:56
SIMULATOR VAPOR	INTERFERENCE	19:57
SIMULATOR VAPOR	INTERFERENCE	19:58
SIMULATOR VAPOR	INTERFERENCE	19:59
SIMULATOR VAPOR	INTERFERENCE	20:00
SIMULATOR VAPOR	INTERFERENCE	20:01
BLANK TEST	0.000	20:02

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

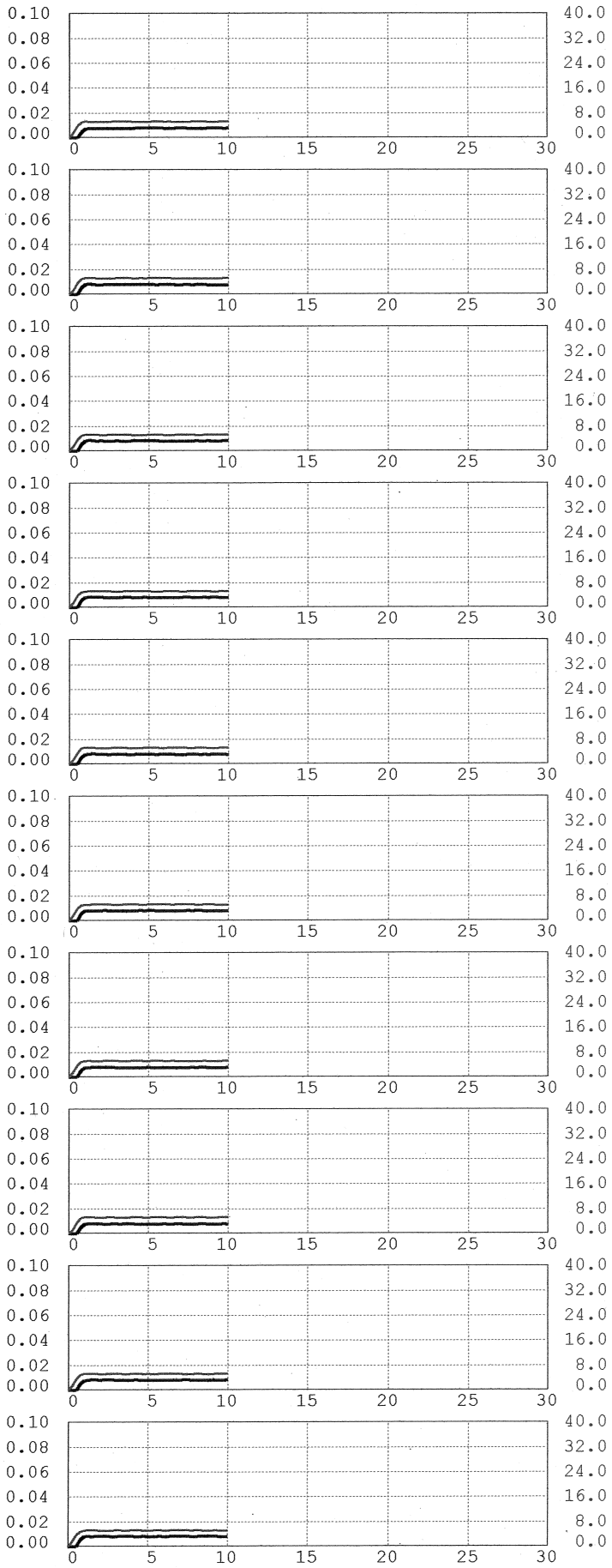
Date: 01/01/2005
Time: 23:42:12

SUPERVISOR NAME: ALB .02ACETONE IN H2O

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

BLANK TEST	0.000	23:43
CALIBRATION CHECK	PASSED	23:43
SIMULATOR VAPOR	INTERFERENCE	23:43
SIMULATOR VAPOR	INTERFERENCE	23:44
SIMULATOR VAPOR	INTERFERENCE	23:45
SIMULATOR VAPOR	INTERFERENCE	23:46
SIMULATOR VAPOR	INTERFERENCE	23:47
SIMULATOR VAPOR	INTERFERENCE	23:48
SIMULATOR VAPOR	INTERFERENCE	23:49
SIMULATOR VAPOR	INTERFERENCE	23:50
SIMULATOR VAPOR	INTERFERENCE	23:51
SIMULATOR VAPOR	INTERFERENCE	23:52
BLANK TEST	0.000	23:53

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

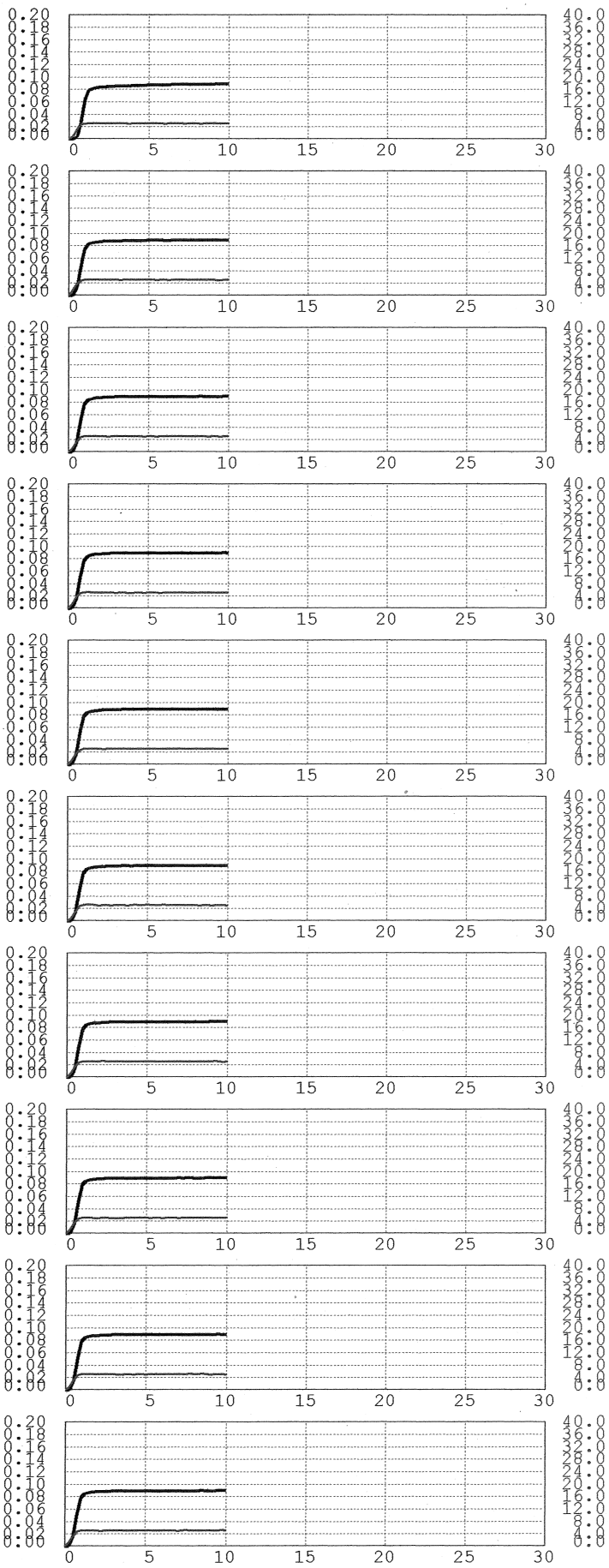
Date: 01/02/2005
Time: 00:00:16

SUPERVISOR NAME: ALB 02ACETONE N .08ETOH

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

BLANK TEST	0.000	00:01
CALIBRATION CHECK	PASSED	00:01
SIMULATOR VAPOR	INTERFERENCE	00:01
SIMULATOR VAPOR	INTERFERENCE	00:02
SIMULATOR VAPOR	INTERFERENCE	00:03
SIMULATOR VAPOR	INTERFERENCE	00:04
SIMULATOR VAPOR	INTERFERENCE	00:05
SIMULATOR VAPOR	INTERFERENCE	00:06
SIMULATOR VAPOR	INTERFERENCE	00:07
SIMULATOR VAPOR	INTERFERENCE	00:08
SIMULATOR VAPOR	INTERFERENCE	00:09
SIMULATOR VAPOR	INTERFERENCE	00:10
BLANK TEST	0.000	00:11

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

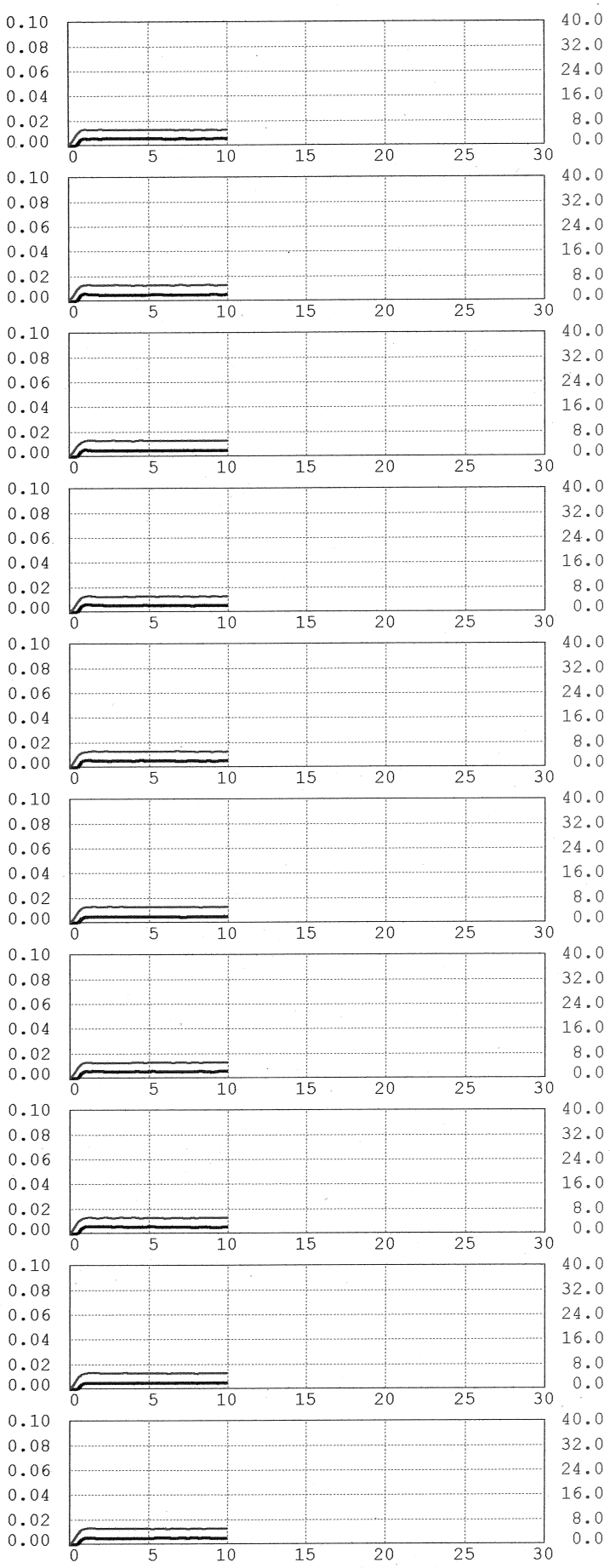
Date: 01/02/2005
Time: 00:39:02

SUPERVISOR NAME: ALB .01ACETONE IN H2O

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

BLANK TEST	0.000	00:39
CALIBRATION CHECK	PASSED	00:40
SIMULATOR VAPOR	INTERFERENCE	00:40
SIMULATOR VAPOR	INTERFERENCE	00:41
SIMULATOR VAPOR	INTERFERENCE	00:42
SIMULATOR VAPOR	INTERFERENCE	00:43
SIMULATOR VAPOR	INTERFERENCE	00:44
SIMULATOR VAPOR	INTERFERENCE	00:45
SIMULATOR VAPOR	INTERFERENCE	00:46
SIMULATOR VAPOR	INTERFERENCE	00:47
SIMULATOR VAPOR	INTERFERENCE	00:48
SIMULATOR VAPOR	INTERFERENCE	00:49
BLANK TEST	0.000	00:49

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

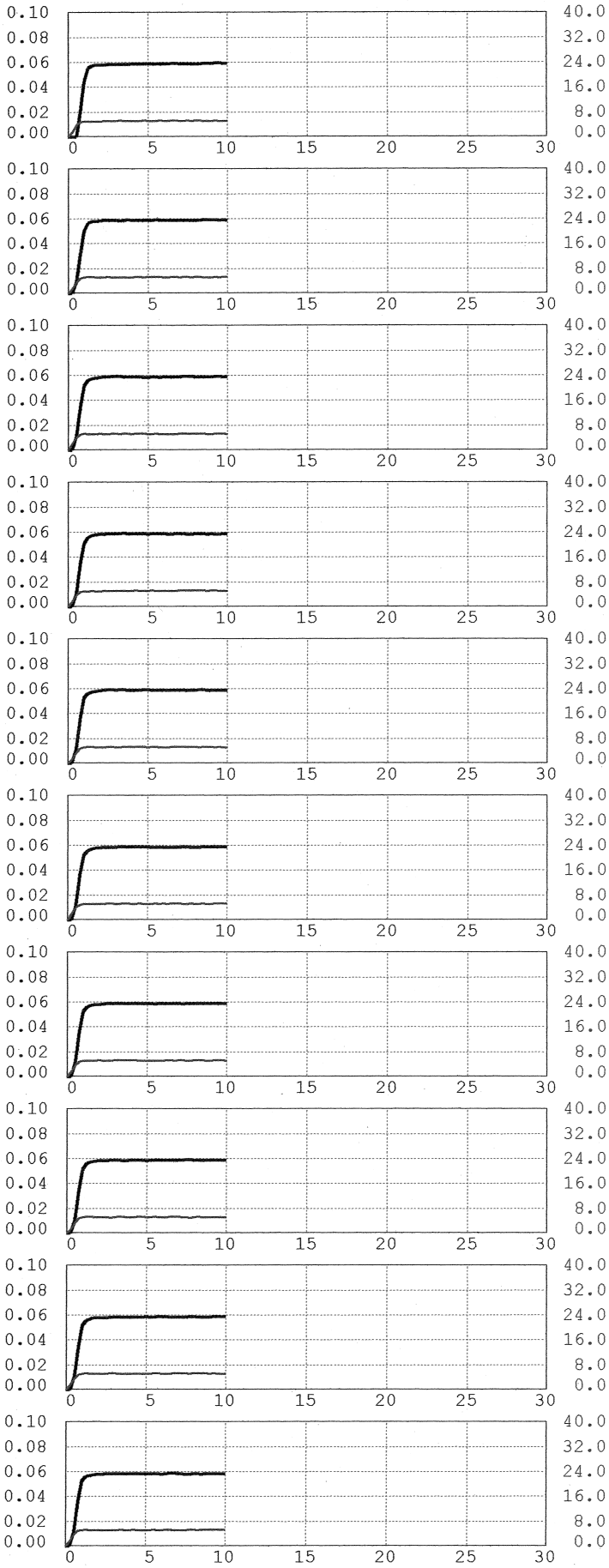
Date: 01/02/2005
Time: 01:01:18

SUPERVISOR NAME: ALB .02ACETONE IN.04ETOH

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

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

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

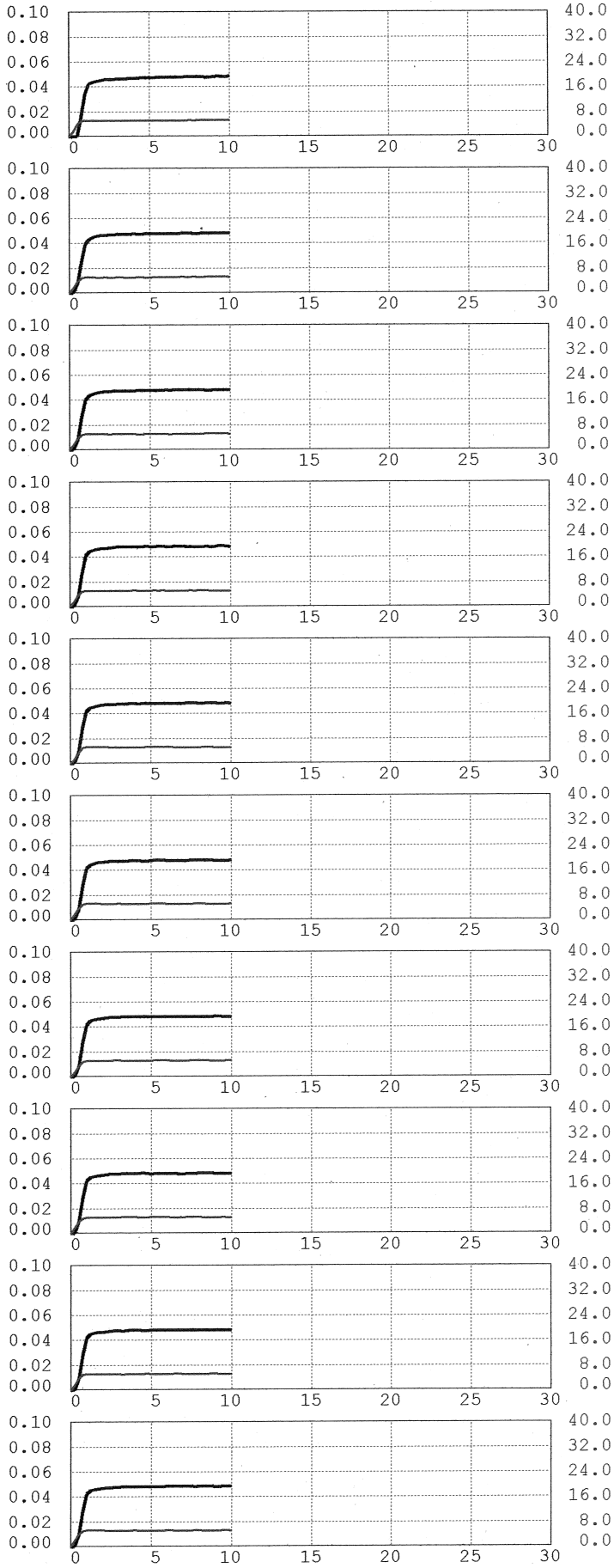
Date: 01/02/2005
Time: 17:17:02

SUPERVISOR NAME: ALB .01ACETONE IN .04ETOH

SOLUTION LOT #: 09-13-04A1
SOLUTION CONCENTRATION: 0.038

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

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

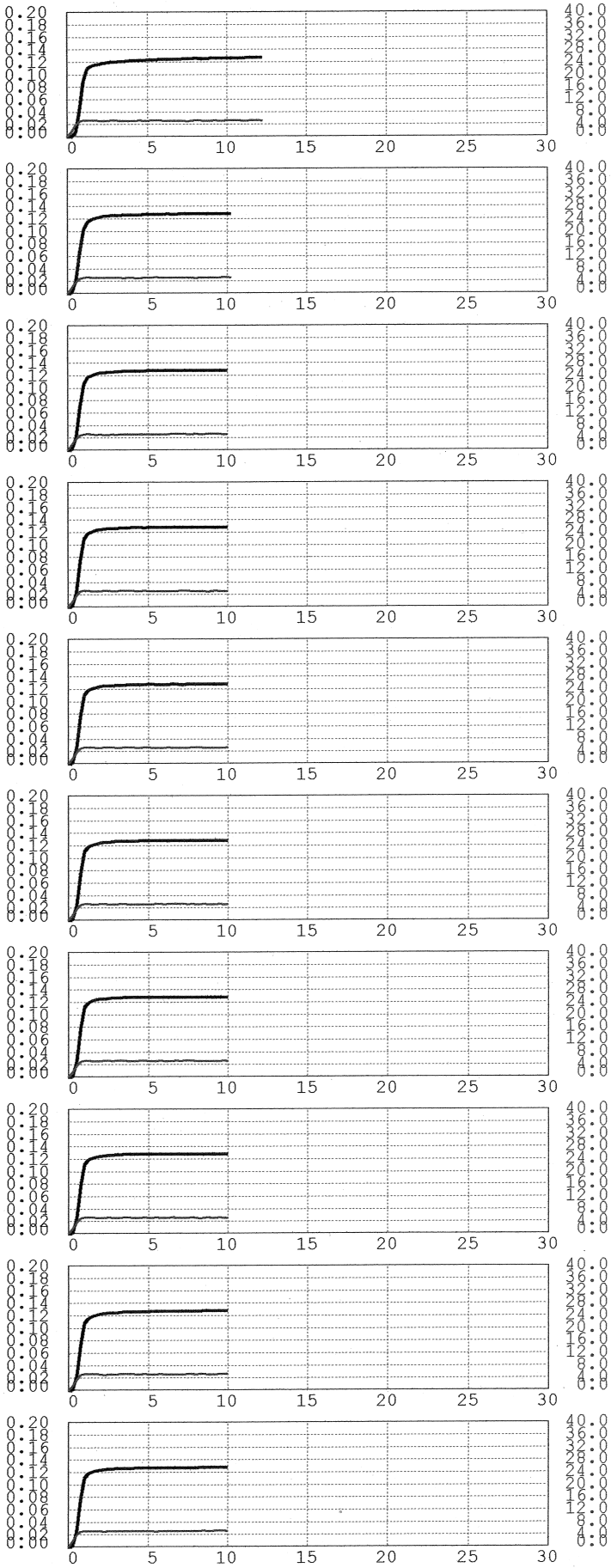
Date: 01/02/2005
Time: 17:33:53

SUPERVISOR NAME: ALB .04IPA IN .08ETOH

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

BLANK TEST	0.000	17:34
CALIBRATION CHECK	PASSED	17:34
SIMULATOR VAPOR	INTERFERENCE	17:35
SIMULATOR VAPOR	INTERFERENCE	17:36
SIMULATOR VAPOR	INTERFERENCE	17:37
SIMULATOR VAPOR	INTERFERENCE	17:38
SIMULATOR VAPOR	INTERFERENCE	17:39
SIMULATOR VAPOR	INTERFERENCE	17:40
SIMULATOR VAPOR	INTERFERENCE	17:41
SIMULATOR VAPOR	INTERFERENCE	17:42
SIMULATOR VAPOR	INTERFERENCE	17:43
SIMULATOR VAPOR	INTERFERENCE	17:44
BLANK TEST	0.000	17:45

Average out of range!



Section 6: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103509

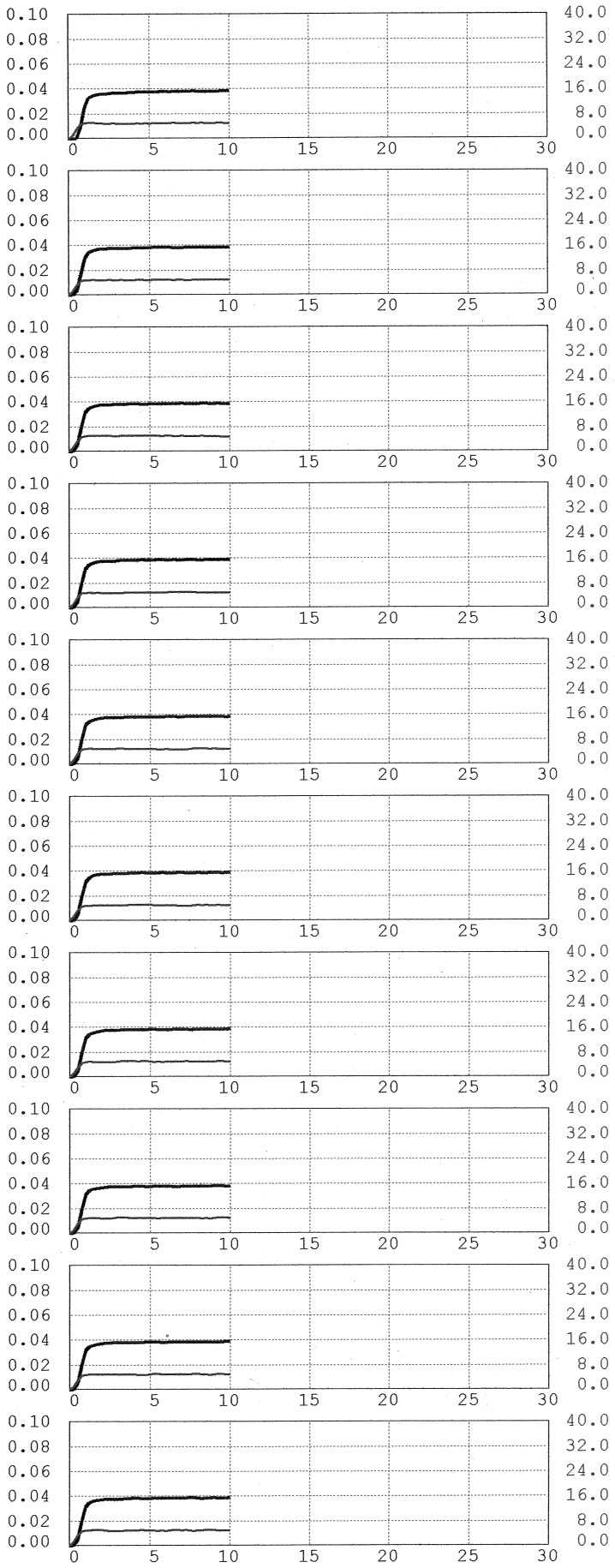
Date: 01/01/2005
Time: 17:56:56

SUPERVISOR NAME: ALB LOW LEVEL TEST

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

BLANK TEST	0.000	17:57
CALIBRATION CHECK	PASSED	17:57
SIMULATOR VAPOR	0.039	17:58
SIMULATOR VAPOR	0.039	17:59
SIMULATOR VAPOR	0.039	18:00
SIMULATOR VAPOR	0.040	18:01
SIMULATOR VAPOR	0.039	18:02
SIMULATOR VAPOR	0.040	18:03
SIMULATOR VAPOR	0.039	18:04
SIMULATOR VAPOR	0.039	18:05
SIMULATOR VAPOR	0.039	18:06
SIMULATOR VAPOR	0.039	18:07
BLANK TEST	0.000	18:07

Average = 0.039
Std Dev = 0.0004



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 .04IPA in water as an interferent 10:10 on an A+P test. 1044 quantified .04 IPA as ~.07 Etoh 104109 also failed to flag IPA as an interferent successfully. 1041 only flaged the .04IPA as an interferent 60% of the time on an A+P test. (N= NPAS was contacted regarding problem.

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.