DATAMASTER DMT 102806

VERMONT DEPARTMENT OF HEALTH LABORATORY

PERFORMANCE TESTING RESULTS

APRIL 30 2008

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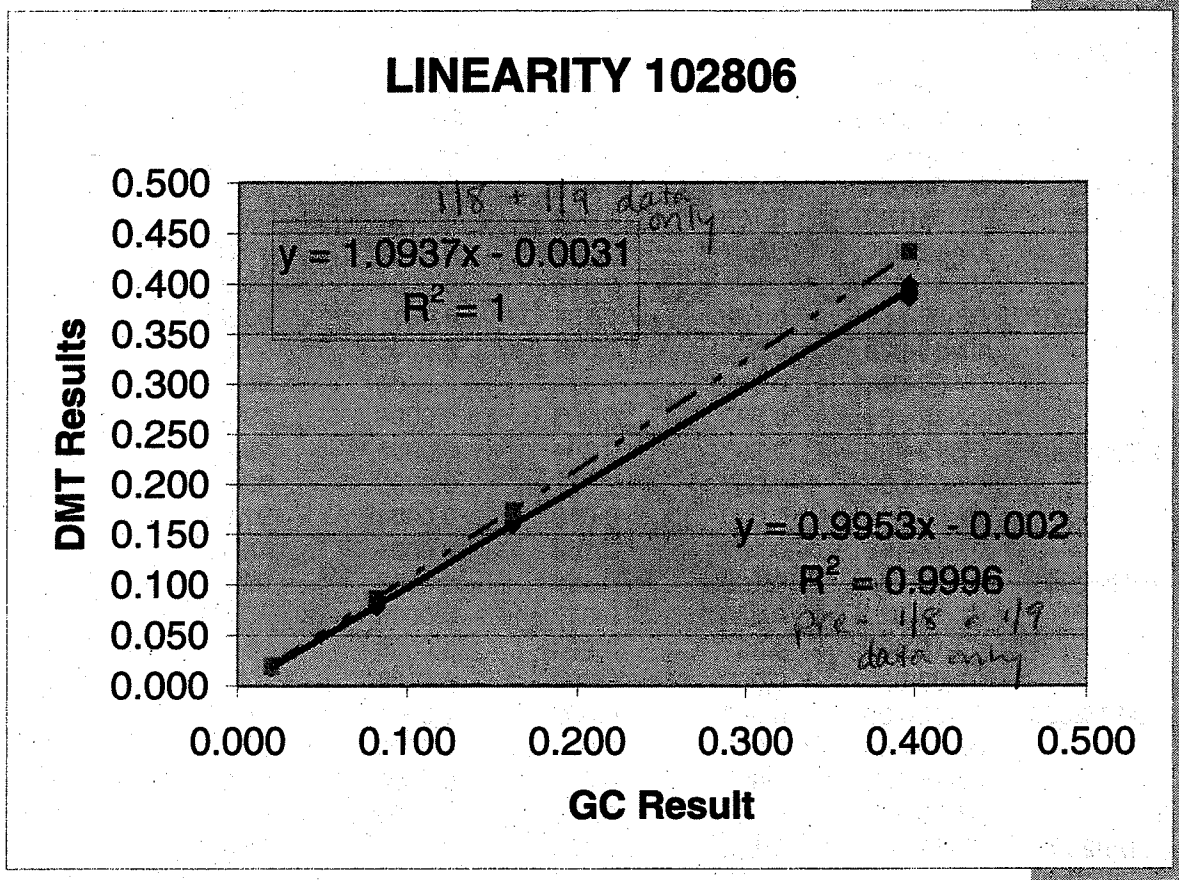
Section 1: Results

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery
SH	10/15/2007	07-08-160	0.162	0.165	0.0003	101.9
		07-12-400	0.397	0.400	0.0005	100.8
		07-09-080	0.082	0.078	0.0009	95.1
		07-15-020	0.020	0.018	0.0003	90.0
ALB	10/17/2007	07-12-400	0.397	0.400	0.0007	100.8
		07-15-020	0.020	0.018	0.0003	90.0
		07-08-0160	0.162	0.164	0.0007	101.5
		07-09-080	0.082	0.080	0.0003	97.6
DMR	10/19/2007	07-09-080	0.082	0.079	0.0003	96.2
		07-08-0160	0.162	0.163	0.0009	100.7
		07-12-400	0.397	0.396	0.0005	99.8
		07-15-020	0.020	0.018	0.0004	90.0
RJD	10/23/2007	07-08-160	0.162	0.161	0.0011	99.4
		07-15-020	0.020	0.018	0.0005	90.0
		07-09-080	0.082	0.078	0.0003	95.0
		07-12-400	0.397	0.393	0.0006	99.0
ALB	10/26/2007	07-12-400	0.397	0.394	0.0008	99.2
		07-09-080	0.082	0.077	0.0005	93.8
		07-15-020	0.020	0.018	0.0004	91.0
		07-08-160	0.162	0.162	0.0005	100.0
HXB	10/29/2007	07-08-160	0.162	0.160	0.0003	98.8
		07-15-020	0.020	0.017	0.0006	85.0
		07-12-400	0.397	0.390	0.0008	98.2
		07-09-080	0.082	0.080	0.0006	97.6
SH	10/31/2007	07-12-400	0.397	0.390	0.0004	98.2
		07-09-080	0.082	0.080	0.0006	97.7
		07-15-020	0.020	0.018	0.0004	91.0
		07-08-160	0.162	0.160	0.0003	98.8
ALB	11/6/2007	07-08-160	0.162	0.159	0.0009	98.1
		07-09-080	0.082	0.078	0.0005	95.5
		07-15-020	0.020	0.017	0.0006	85.0
		07-12-400	0.397	0.389	0.0008	98.1
DMR	11/6/2007	07-12-400	0.397	0.389	0.0005	98.0
		07-15-020	0.020	0.018	0.0006	91.0
		07-09-080	0.082	0.077	0.0006	93.8
		07-08-160	0.162	0.159	0.0004	98.1
SH	11/7/2007	07-08-160	0.162	0.158	0.0009	97.6
		07-12-400	0.397	0.385	0.001	97.0
		07-09-080	0.082	0.077	0.0009	93.8
		07-15-020	0.020	0.017	0.0007	85.0
ALB	1/8/2008	07-15-020	0.020	0.020	0.0005	100.0
		07-09-080	0.082	0.087	0	106.1
		07-08-160	0.162	0.172	0.0008	106.2
		07-12-400	0.397	0.432	0.0016	108.8
ALB	1/9/2008	07-15-020	0.020	0.019	0	95.0
		07-09-080	0.082	0.086	0.0003	104.9
		07-08-160	0.162	0.174	0.0004	107.4
		07-12-400	0.397	0.431	0.0005	108.6


LINEARITY 102806
1/8 + 1/9 data only
y = 1.0937x - 0.0031
R² = 1
y = 0.9953x - 0.002
R² = 0.9996
pre - 1/8 + 1/9 data only
DMT Results
GC Result
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
0.450
0.500
0.000
0.100
0.200
0.300
0.400
0.500

Operator	Date	Volume L	DMT Result L
ALB	10/17/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	DNAS
		1.5	1.6
		1.6	1.5
		1.7	DNAS
		1.7	1.6
		1.8	1.7
		1.9	1.7
		2	1.8
RJD	10/24/2007	1.1	DNAS
		1.2	DNAS
		1.3	1.5
		1.4	1.5
		1.5	1.6
		1.6	1.8
		1.7	1.9
		1.8	2
		1.9	2
		2	2.1
HXB	10/29/2007	1.1	DNAS
		1.2	DNAS
		1.3	1.5
		1.4	1.5
		1.5	1.6
		1.6	1.7
		1.7	1.9
		1.8	2
		1.9	2.1
		2	2.1
SH	10/30/2007	1.1	DNAS
		1.2	DNAS
		1.3	1.5
		1.4	1.6
		1.5	1.7
		1.6	1.9
		1.7	1.9
		1.8	2
		1.9	2
		2	2.1
DMR	11/6/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	1.5
		1.5	1.6
		1.6	1.7
		1.7	1.9
		1.8	2
		1.9	2

DNAS = did not accept sample

Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
SH	11/28/07	0.01 Acetone in water	09-20-070A1	9 OUT OF 10	0.004	
RJD	12/07/07	0.01 Acetone in water	09-20-070A1	9 OUT OF 10	0.005	
DMR	01/02/08	0.01 Acetone in water	09-20-070A1	INTERFERENCE	0.005	
ALB	11/27/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
RJD	12/06/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.005	
HXB	11/30/07	.01 Acetone in .08 EtOH	07-09-080A1	6 OUT OF 10	0.079	
ALB	11/27/07	.01 Acetone in .08 EtOH	07-09-080A1	7 OUT OF 10	0.080	
RJD	12/06/07	.01 Acetone in .08 EtOH	07-09-080A1	4 OUT OF 10	0.079	
RJD	12/07/07	.01 Acetone in .04 EtOH	07-14-040A1	9 OUT OF 10	0.044	
DMR	01/02/08	.01 Acetone in .04 EtOH	07-14-040A1	INTERFERENCE	0.044	
RJD	03/06/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE		
ALB	03/06/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE		
ALB	03/05/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE		
SH	03/05/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE		
ALB	03/05/08	.04 MeOH in water	08-12-040M	INTERFERENCE		
HXB	03/05/08	.04 MeOH in water	08-12-040M	INTERFERENCE		
ALB	03/05/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE	0.106	
DMR	03/05/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE		
ALB	03/07/08	.04 IPA in water	08-13-040I	INTERFERENCE		
SH	03/07/08	.04 IPA in water	08-13-040I	INTERFERENCE		
ALB	03/06/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE		
DMR	03/06/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE	0.104	

Operator	Date	DMT Result	
RJD	10/29/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		0.081	
		0.078	
HXB	10/29/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		0.087	
		0.086	
		0.098	Droplet went into breath tube
		0.078	
		0.076	
SH	11/1/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		0.077	
		0.076	
		0.074	
		0.072	
ALB	11/5/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		0.075	
		0.077	
DMR	11/6/2007	Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		0.071	

Section 2: Power-Up Test

National Patent Analytical Systems, Inc.

Certificate of Calibration

102806

Instrument Serial Number

ODH-0012

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.

10-9-07

Date

Technician

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 10/09/2007
Calibrated by: GHJKLOIUR Q IIOJHGF

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  1.007011    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.002278    0.002 <=  b2 < 0.013
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.107877    0.050 <=  Xq < 0.200
a21 =  1.164589    1.050 <= a21 < 1.300
a31 =  0.484028    0.300 <= a31 < 0.800
```

Performed by **Date** 10/09/2007

OPTIONS PRINT OUT

DataMaster DMT: 102806
Location: VDHL
Calibration Date: 20071009
Certification Date: 10/09/2007
Installation Date: 10/09/2007

VERMONT
DEPARTMENT OF HEALTH

```
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: 0.397
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: 2
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100
```

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location: VDHL
Calibration Date:
Certification Date: 10/09/2007
Installation Date: 10/09/2007
Test Date: 10/11/2007
Time: 14:18

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 49.0 C
Breath Tube    = 48.0 C
Simulator Hose =  0.0 C
Digital Sim    = 33.9 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.5 V
Chopper Freq   = 530.1 Hz

PUMP INFO
Flow Rate = 5.049 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1274   0.1278
MIN(V)   0.1250   0.1264

FILTER INFO
Filter 1  0.128  Zero = true
Filter 2  0.566  Zero = true
Filter 3  1.516  Zero = true

INTERNAL STANDARD
Xq = 0.1087  0.81%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

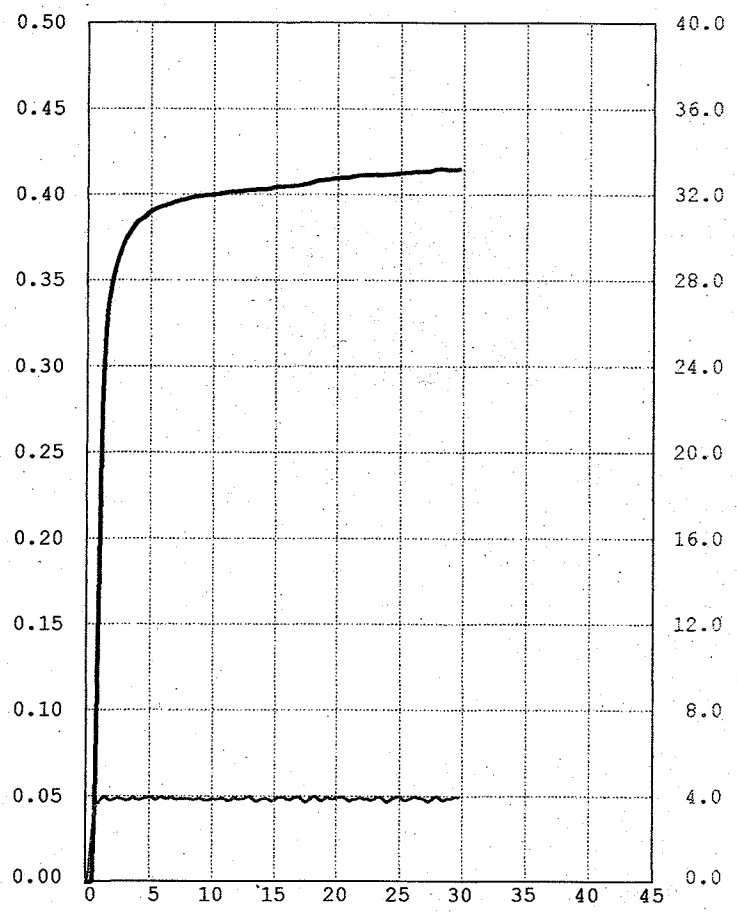
Date: 10/11/2007
Time: 14:19:56

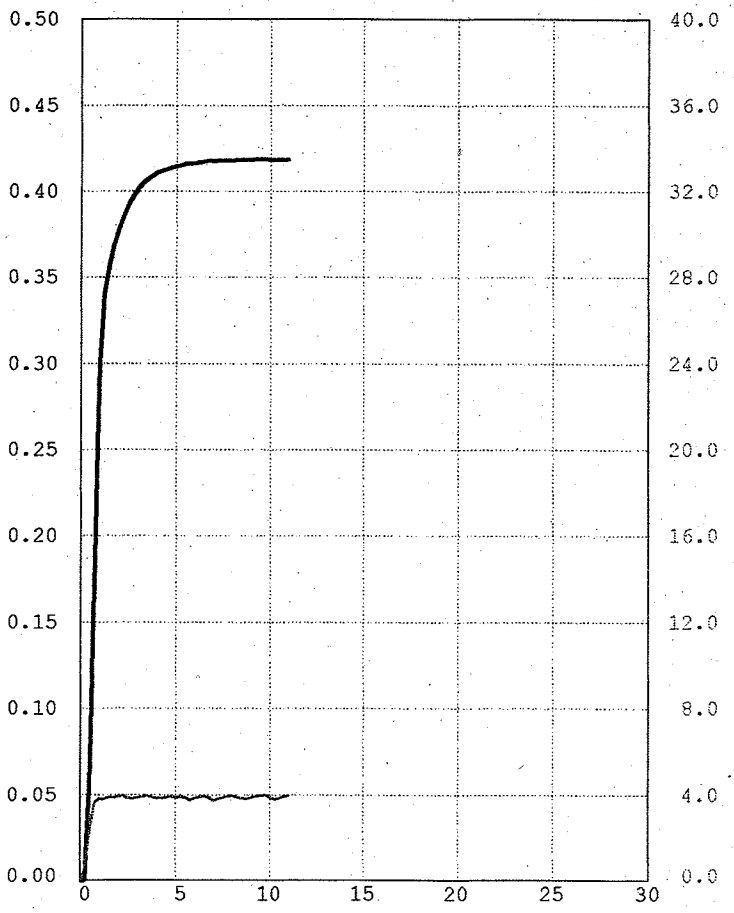
SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	14:20
INTERNAL STANDARD	PASSED	14:20
Xq = 0.1078 (0.00%)		
SIMULATOR VAPOR (33.8°C)	0.414	14:21
X[1] = 0.4149 (0.0066) (0.0033)		
SIMULATOR VAPOR (33.9°C)	0.417	14:22
X[1] = 0.4171 (0.0070) (0.0034)		

STANDARD OUT OF RANGE





10/11/2007 14:23

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

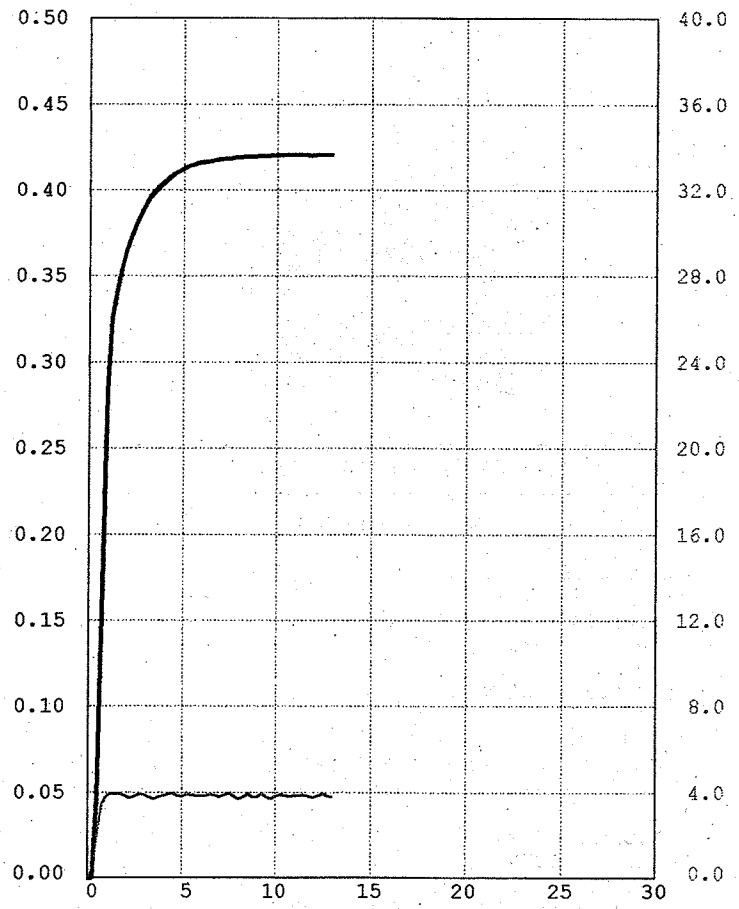
Date: 10/11/2007
Time: 14:23:59

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	14:24
INTERNAL STANDARD	PASSED	14:25
Xq = 0.1070 (0.74%)		
SIMULATOR VAPOR (33.9°C)	0.418	14:25
X[1] = 0.4187 (0.0071) (0.0034)		

STANDARD OUT OF RANGE



10/11/2007 14:25

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

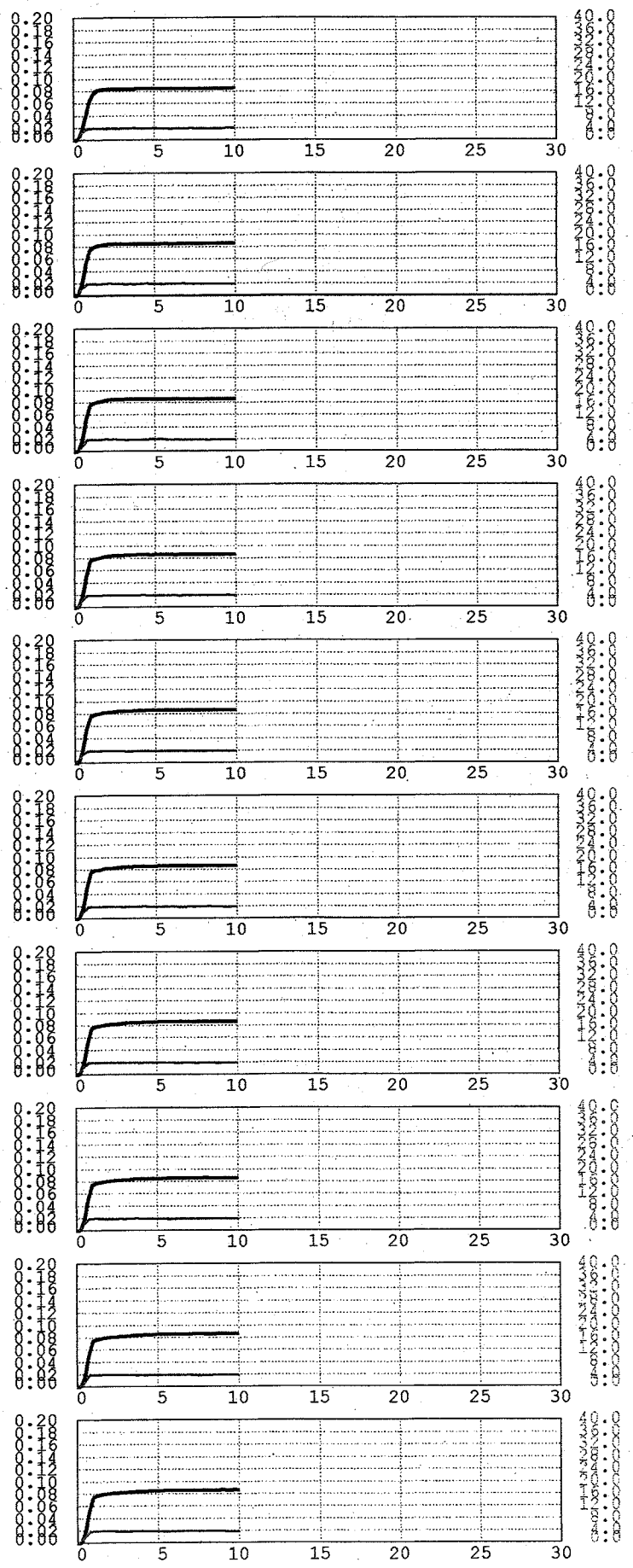
Date: 10/11/2007
Time: 14:29:22

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	14:30
INTERNAL STANDARD		PASSED	14:30
Xq = 0.1071 (0.65%)			
SIMULATOR VAPOR	(33.9°C)	0.085	14:30
X[1] = 0.0850	(0.0000)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.085	14:31
X[1] = 0.0855	(0.0001)	(0.0007)	
SIMULATOR VAPOR	(33.9°C)	0.085	14:32
X[1] = 0.0859	(0.0002)	(0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.086	14:33
X[1] = 0.0862	(0.0002)	(0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.086	14:34
X[1] = 0.0861	(0.0002)	(0.0011)	
SIMULATOR VAPOR	(33.9°C)	0.086	14:35
X[1] = 0.0865	(0.0010)	(0.0011)	
SIMULATOR VAPOR	(33.9°C)	0.086	14:36
X[1] = 0.0862	(0.0009)	(0.0013)	
SIMULATOR VAPOR	(33.9°C)	0.085	14:37
X[1] = 0.0859	(0.0006)	(0.0014)	
SIMULATOR VAPOR	(33.9°C)	0.086	14:38
X[1] = 0.0860	(0.0002)	(0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.086	14:39
X[1] = 0.0862	(0.0000)	(0.0003)	
BLANK TEST		0.000	14:40

Average = 0.0856
Std Dev = 0.0005



10/11/2007 14:40

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

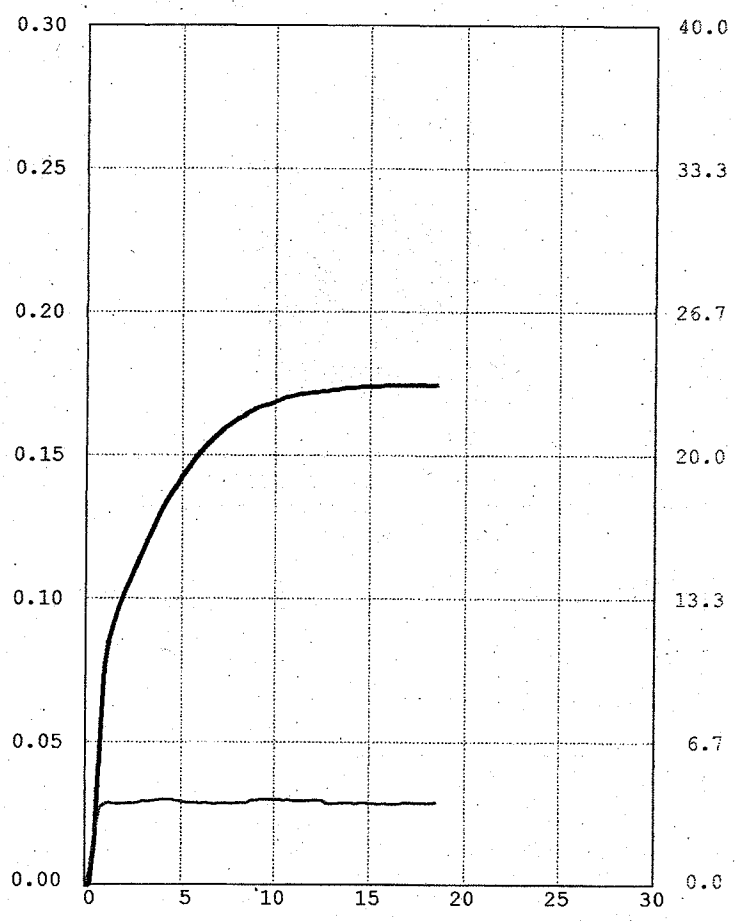
Date: 10/11/2007
Time: 14:42:13

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	14:43
INTERNAL STANDARD	PASSED	14:43
Xq = 0.1077 (0.08%)		
SIMULATOR VAPOR (34.0°C)	0.174	14:43
X[1] = 0.1745 (0.0024) (0.0021)		

STANDARD OUT OF RANGE



10/11/2007 14:44

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806
VDHL
Certification Date: 10/09/2007
Installation Date: 10/09/2007

Date: 10/11/2007
Time: 15:02:50

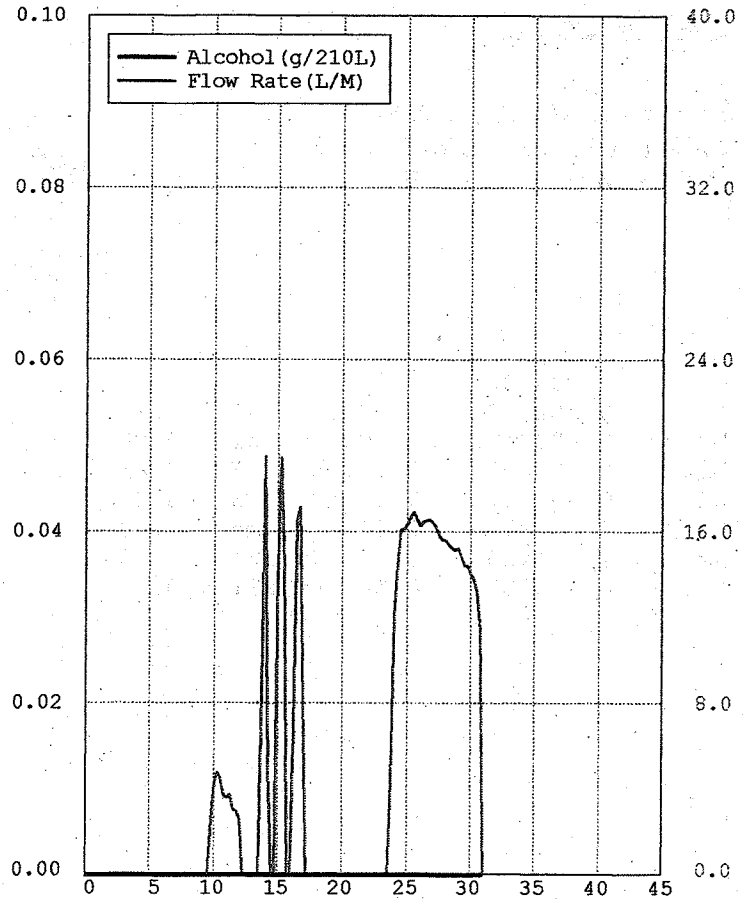
Subject Name: POWER UP TEST
Date of Birth: 10/11/2007 Age: 0
Guardian Present: N
Gender: F
License #: 1 VT

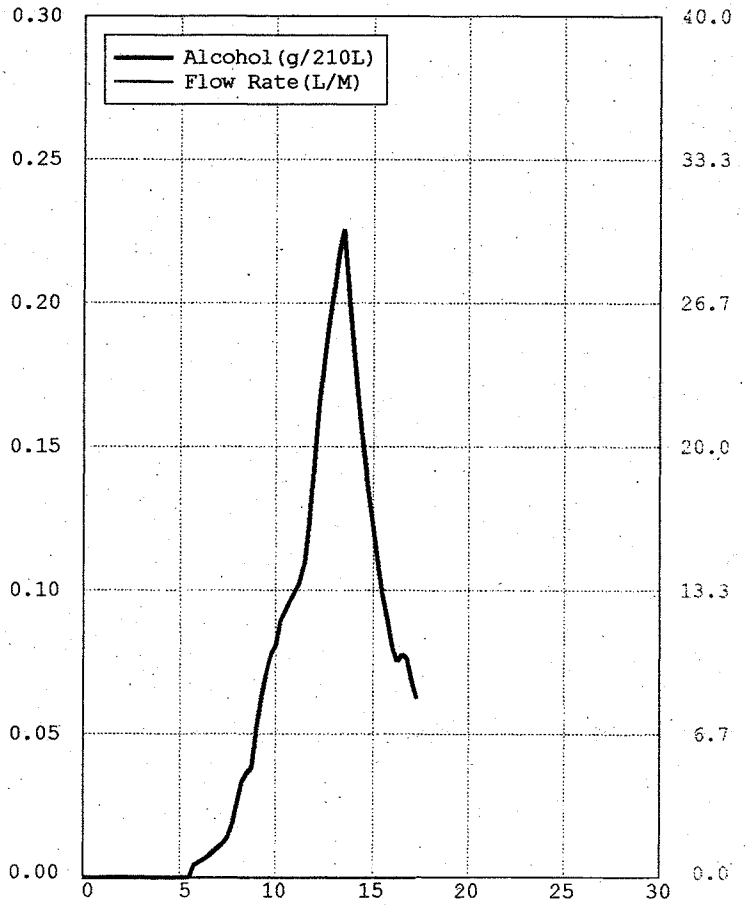
Case #: 1
Time of Operation: 15:00
Location of Incident:
Town: ADDISON
County: ADDISON

Test Operator Name: A L B
Agency: VDHL

Obs. Period Start:		14:45
BLANK TEST	0.000	15:03
INTERNAL STANDARD	PASSED	15:03
Xq = 0.1074 (0.41%)		
SIMULATOR VAPOR	0.083	15:04
X[1] = 0.0838 (0.0007) (0.0015)		
BLANK TEST	0.000	15:04
SUBJECT SAMPLE (Vol=1.7L)	0.000	15:05
X[1] = 0.0000 (-0.0022) (0.0000)		
BLANK TEST	0.000	15:07
INTERNAL STANDARD	PASSED	15:08
Xq = 0.1083 (0.41%)		
SIMULATOR VAPOR	0.085	15:08
X[1] = 0.0853 (0.0021) (0.0021)		
BLANK TEST	0.000	15:09

RFI DETECTED
All alcohol values reported in g/210L
Sim. Vapor Concentration 0.082
Sim. Vapor Range 0.078 - 0.086
Simulator Temp 33.9°C





10/11/2007 15:10

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 10/15/2007
Calibrated by: S E H

VERMONT
DEPARTMENT OF HEALTH

Ca =	0.101000		
CAL =	0.962342	0.800 <= CAL < 1.200	
b1 =	0.000042	0.000 <= b1 < 0.004	
b2 =	0.003867	0.002 <= b2 < 0.013	
b3 =	0.000000	0.000 <= b3 < 0.004	
Xq =	0.107877	0.050 <= Xq < 0.200	
a21 =	1.154425	1.050 <= a21 < 1.300	
a31 =	0.476218	0.300 <= a31 < 0.800	

Performed by _____ **Date** 10/15/2007

10/15/2007 12:20

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 01/29/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.967621    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.003282    0.002 <=  b2 < 0.013
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.121747    0.050 <=  Xq < 0.200
a21 =  1.157856    1.050 <= a21 < 1.300
a31 =  0.484394    0.300 <= a31 < 0.800
```

Performed by x_____ **Date** 01/29/2008

01/29/2008 11:16

CERTIFICATION REPORT

DataMaster DMT: 102806
Calibration Date:
Certification Date: 01/30/2008
Certified by: A L B

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.74°C
Breath Tube = 48.06°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.96 V
Cooler Voltage = 1.93 V
Bias Voltage = 120.5 V
Chopper Freq = 537.4 Hz

PUMP INFO
Flow Rate = 3.612 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0197	0.0203
MIN(V)	0.0171	0.0177

FILTER INFO
Filter 1 0.019 Zero = true
Filter 2 0.494 Zero = true
Filter 3 0.019 Zero = true

INTERNAL STANDARD
Xq = 0.1221 0.36%

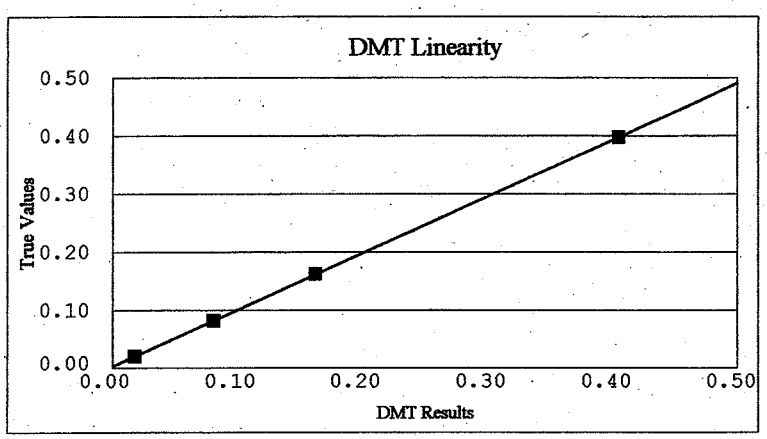
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 10
Tolerance Check: no
Data Collection: yes
Units: g/210L
Simulator Check: no
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Dry Gas PPM: 260.500
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
Calibration PPM: 260.500

Linearity Check Results

True Value	Reported Average	Std Dev
0.020g/210L Lot # 07-15-020	0.018g/210L	0.0005
0.082g/210L Lot # 07-09-080	0.081g/210L	0.0000
0.162g/210L Lot # 07-08-160	0.162g/210L	0.0004
0.397g/210L Lot # 07-12-400	0.404g/210L	0.0011

$R^2 = 1.0000$



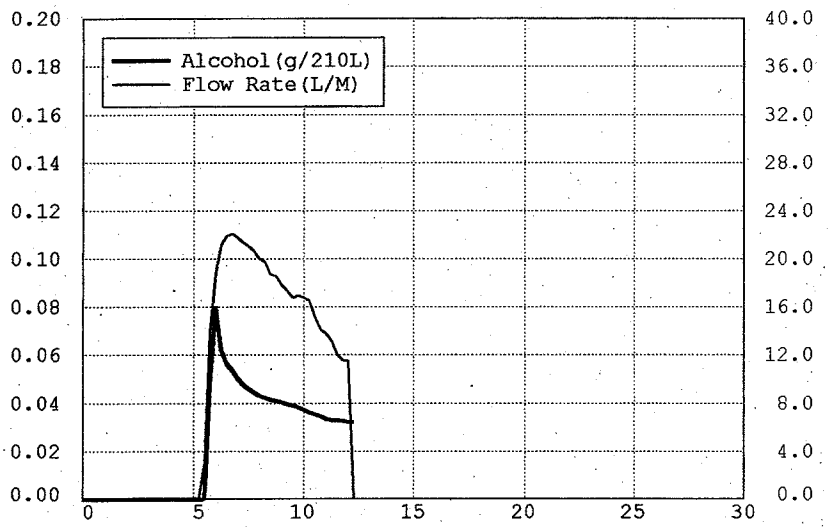
Acetone Interference Test

Lot # 02-02-020

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

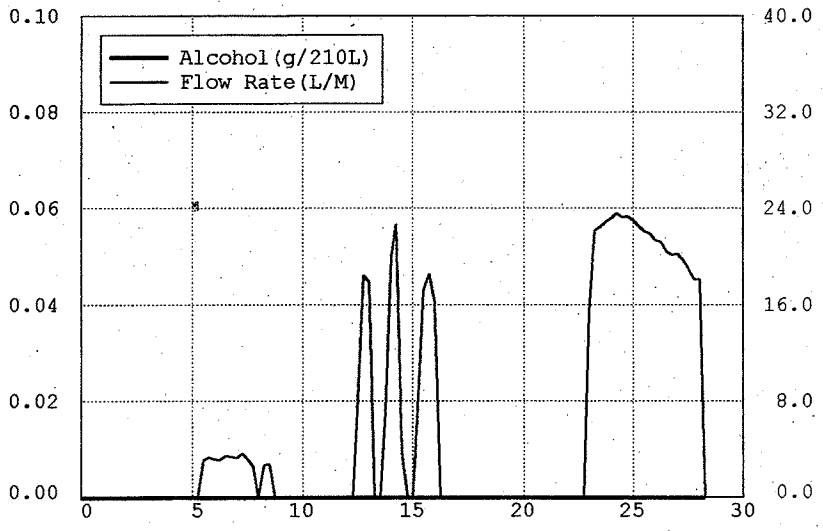


RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by AB **Date** 01/30/2008

Reviewed by _____ **Date** _____

Section 3: Software/Reports Test

This Instrument not tested for this specification

Section 4: Linearity

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/15/2007
Time: 14:37

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube    = 47.9 C
Simulator Hose =  0.0 C
Digital Sim    = 33.9 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.5 V
Chopper Freq   = 532.3 Hz

PUMP INFO
Flow Rate = 5.097 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1191   0.1201
MIN(V)   0.1167   0.1185

FILTER INFO
Filter 1  0.119  Zero = true
Filter 2  0.555  Zero = true
Filter 3  1.506  Zero = true

INTERNAL STANDARD
Xq = 0.1085  0.65%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

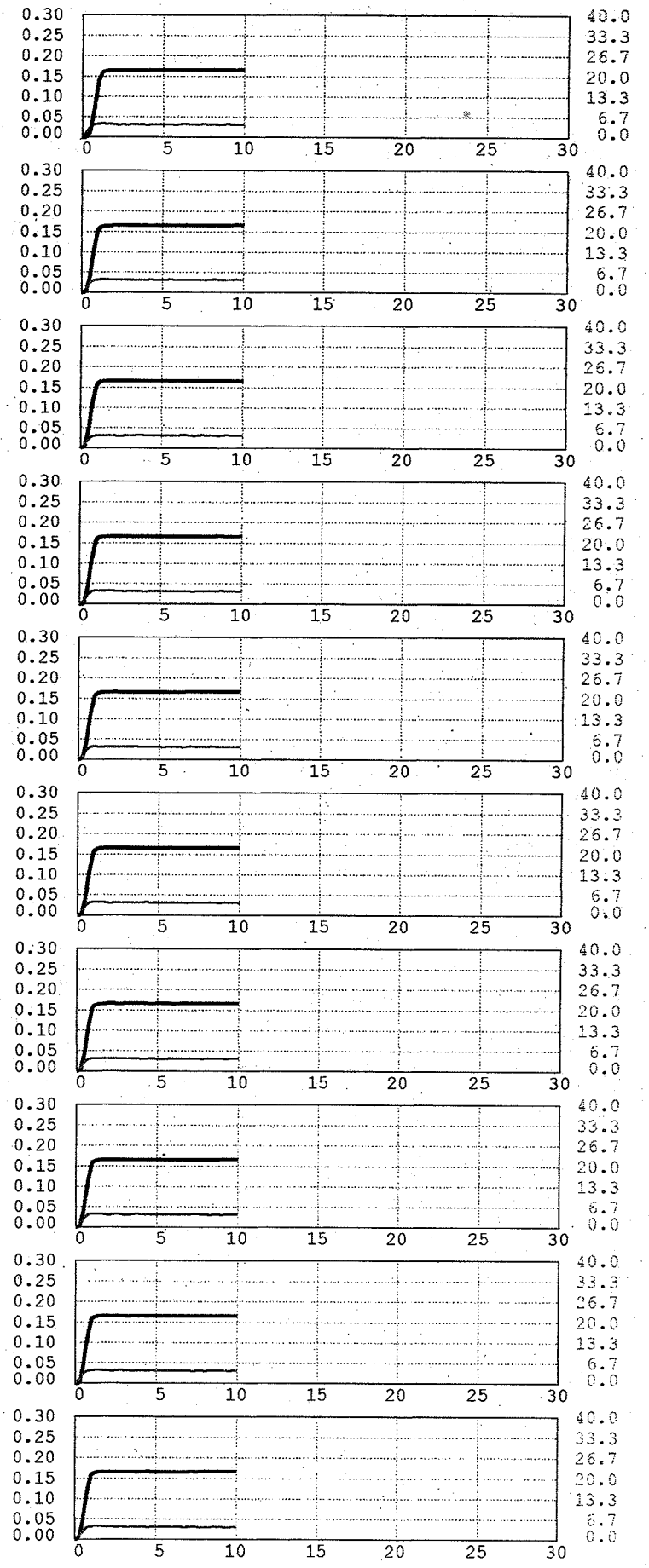
Date: 10/15/2007
Time: 12:00:00

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	12:00
INTERNAL STANDARD		PASSED	12:01
Xq = 0.1072	(0.57%)		
SIMULATOR VAPOR (34.0°C)		0.165	12:01
X[1] = 0.1650	(0.0005)	(0.0005)	
SIMULATOR VAPOR (34.0°C)		0.165	12:02
X[1] = 0.1654	(0.0004)	(-0.0004)	
SIMULATOR VAPOR (34.0°C)		0.165	12:03
X[1] = 0.1650	(-0.0006)	(-0.0005)	
SIMULATOR VAPOR (34.0°C)		0.165	12:04
X[1] = 0.1653	(-0.0005)	(-0.0004)	
SIMULATOR VAPOR (34.0°C)		0.165	12:05
X[1] = 0.1657	(-0.0003)	(0.0005)	
SIMULATOR VAPOR (34.0°C)		0.165	12:06
X[1] = 0.1657	(-0.0006)	(0.0000)	
SIMULATOR VAPOR (34.0°C)		0.166	12:07
X[1] = 0.1660	(0.0001)	(0.0003)	
SIMULATOR VAPOR (34.0°C)		0.165	12:08
X[1] = 0.1656	(-0.0002)	(-0.0005)	
SIMULATOR VAPOR (34.0°C)		0.165	12:09
X[1] = 0.1650	(-0.0010)	(-0.0006)	
SIMULATOR VAPOR (34.0°C)		0.165	12:10
X[1] = 0.1654	(0.0002)	(-0.0003)	
BLANK TEST		0.000	12:10

Average = 0.1651
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

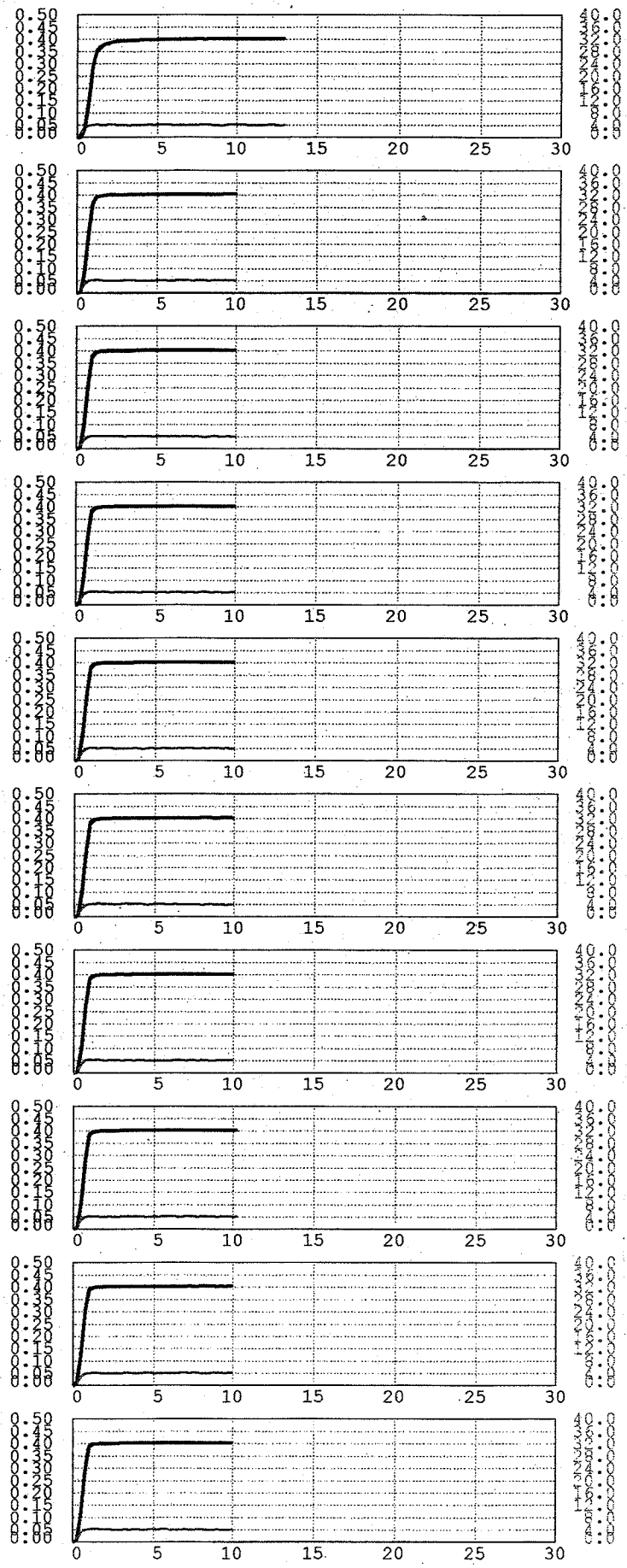
Date: 10/15/2007
Time: 12:21:59

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	12:22
INTERNAL STANDARD		PASSED	12:23
Xq = 0.1078	(0.00%)		
SIMULATOR VAPOR (33.9°C)		0.401	12:23
X[1] = 0.4011	(0.0029)	(0.0016)	
SIMULATOR VAPOR (33.8°C)		0.401	12:24
X[1] = 0.4016	(0.0040)	(0.0021)	
SIMULATOR VAPOR (33.9°C)		0.401	12:25
X[1] = 0.4012	(0.0029)	(0.0016)	
SIMULATOR VAPOR (33.9°C)		0.400	12:26
X[1] = 0.4009	(0.0030)	(0.0010)	
SIMULATOR VAPOR (33.8°C)		0.400	12:27
X[1] = 0.4008	(0.0021)	(0.0015)	
SIMULATOR VAPOR (33.9°C)		0.401	12:28
X[1] = 0.4011	(0.0040)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.401	12:29
X[1] = 0.4012	(0.0033)	(0.0013)	
SIMULATOR VAPOR (33.8°C)		0.400	12:30
X[1] = 0.4009	(0.0043)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.401	12:31
X[1] = 0.4019	(0.0037)	(0.0014)	
SIMULATOR VAPOR (33.9°C)		0.401	12:32
X[1] = 0.4017	(0.0034)	(0.0014)	
BLANK TEST		0.000	12:33

Average = 0.4007
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

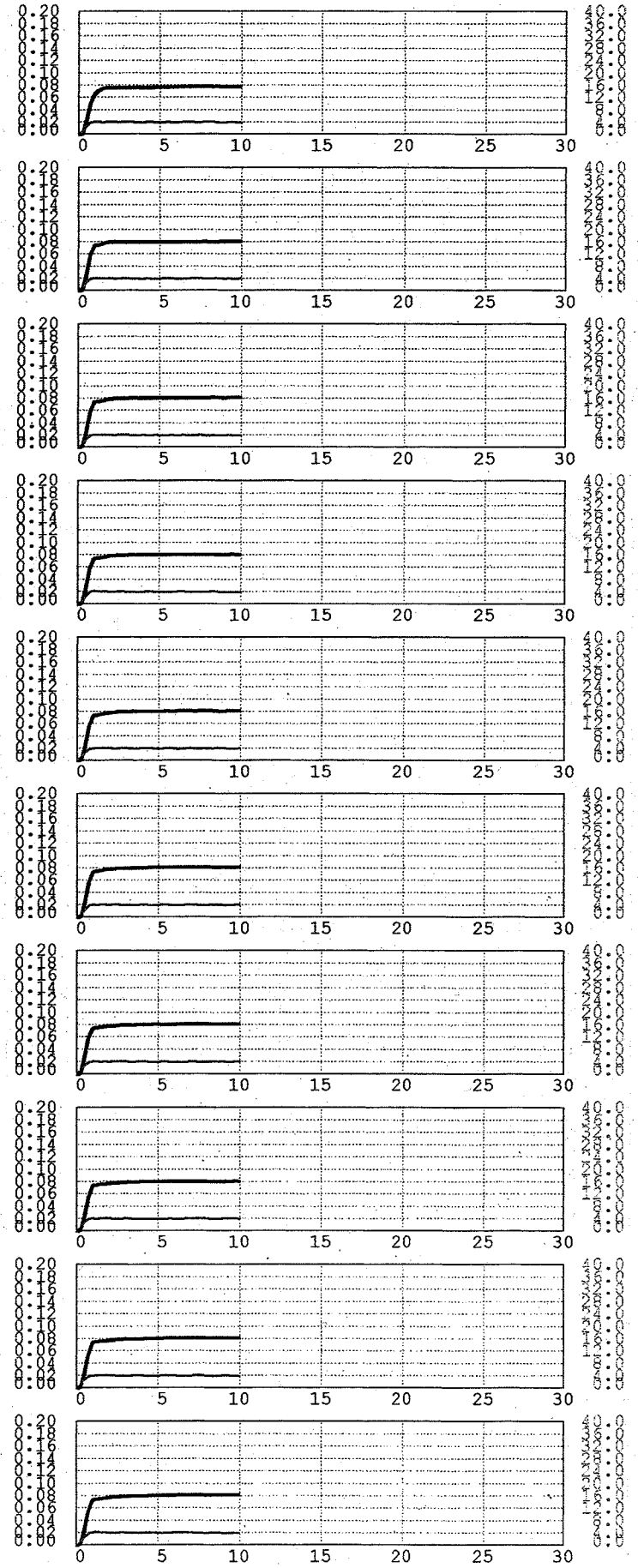
Date: 10/15/2007
Time: 12:49:09

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	12:50
INTERNAL STANDARD		PASSED	12:50
Xq = 0.1071 (0.65%)			
SIMULATOR VAPOR (33.9°C)		0.077	12:50
X[1] = 0.0776	(-0.0022)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.080	12:51
X[1] = 0.0801	(0.0004)	(0.0007)	
SIMULATOR VAPOR (33.8°C)		0.080	12:52
X[1] = 0.0802	(-0.0002)	(0.0004)	
SIMULATOR VAPOR (33.9°C)		0.080	12:53
X[1] = 0.0803	(-0.0004)	(0.0004)	
SIMULATOR VAPOR (33.9°C)		0.080	12:54
X[1] = 0.0803	(-0.0003)	(0.0001)	
SIMULATOR VAPOR (33.9°C)		0.080	12:55
X[1] = 0.0806	(0.0001)	(-0.0004)	
SIMULATOR VAPOR (33.9°C)		0.080	12:56
X[1] = 0.0806	(-0.0005)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.080	12:57
X[1] = 0.0803	(-0.0005)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.080	12:58
X[1] = 0.0807	(0.0003)	(0.0001)	
SIMULATOR VAPOR (33.9°C)		0.080	12:59
X[1] = 0.0805	(-0.0001)	(0.0001)	
BLANK TEST		0.000	12:59

Average = 0.0797
Std Dev = 0.0009



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

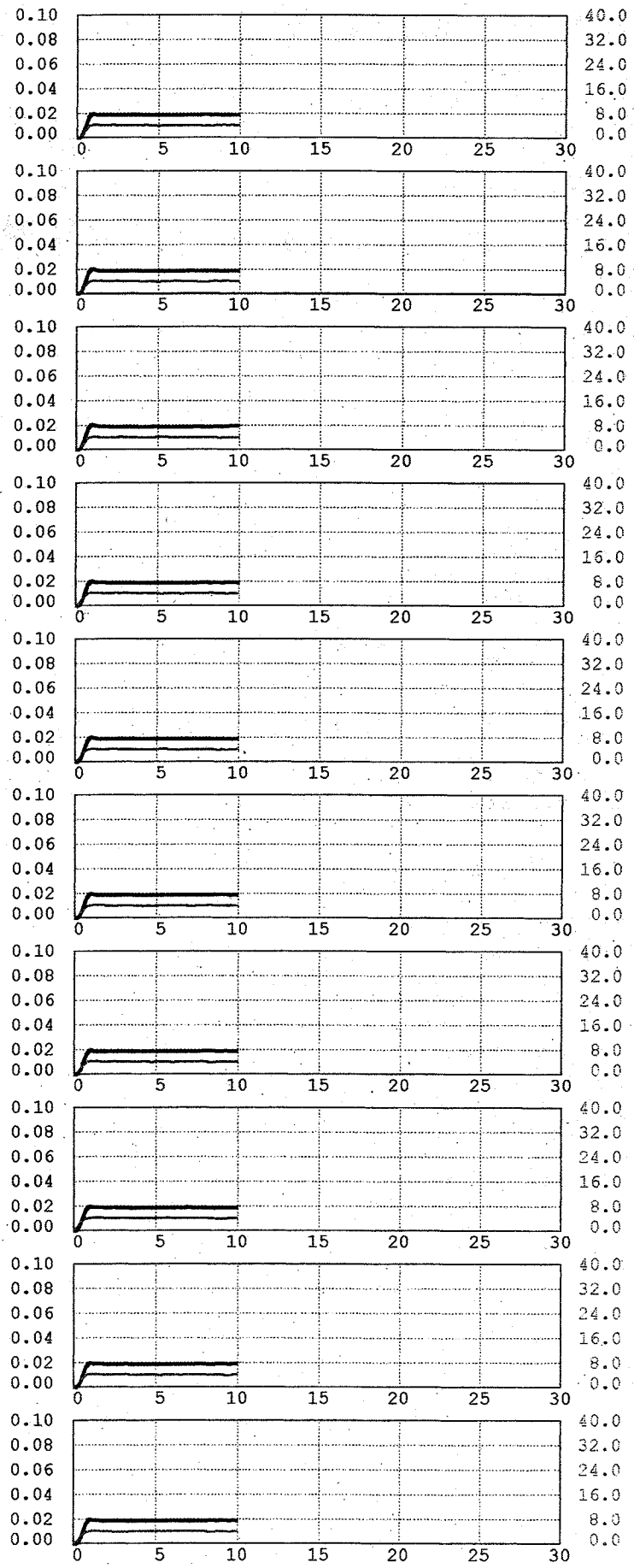
Date: 10/15/2007
Time: 13:08:29

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020 10/25/07 AWB
SOLUTION CONCENTRATION: ~~0.022~~ .0205

BLANK TEST		0.000	13:09
INTERNAL STANDARD		PASSED	13:09
Xq = 0.1073 (0.49%)			
SIMULATOR VAPOR (33.7°C)		0.019	13:09
X[1] = 0.0192	(-0.0013)	(0.0008)	
SIMULATOR VAPOR (33.7°C)		0.019	13:10
X[1] = 0.0190	(-0.0015)	(0.0008)	
SIMULATOR VAPOR (33.8°C)		0.019	13:11
X[1] = 0.0194	(-0.0010)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.019	13:12
X[1] = 0.0192	(-0.0011)	(0.0007)	
SIMULATOR VAPOR (33.7°C)		0.019	13:13
X[1] = 0.0191	(-0.0019)	(0.0002)	
SIMULATOR VAPOR (33.7°C)		0.019	13:14
X[1] = 0.0190	(-0.0018)	(0.0003)	
SIMULATOR VAPOR (33.8°C)		0.019	13:15
X[1] = 0.0192	(-0.0016)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.019	13:16
X[1] = 0.0194	(-0.0012)	(0.0006)	
SIMULATOR VAPOR (33.7°C)		0.019	13:17
X[1] = 0.0192	(-0.0018)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	13:18
X[1] = 0.0188	(-0.0019)	(0.0000)	
BLANK TEST		0.000	13:19

Average = 0.0189
Std Dev = 0.0003



10/15/2007 13:19

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/19/2007
Time: 13:28

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube    = 47.1 C
Simulator Hose =  0.0 C
Digital Sim    = 33.9 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.5 V
Chopper Freq   = 532.9 Hz

PUMP INFO
Flow Rate = 5.051 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1096   0.1110
MIN(V)   0.1073   0.1089

FILTER INFO
Filter 1  0.110  Zero = true
Filter 2  0.555  Zero = true
Filter 3  1.496  Zero = true

INTERNAL STANDARD
Xq = 0.1100  2.04%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

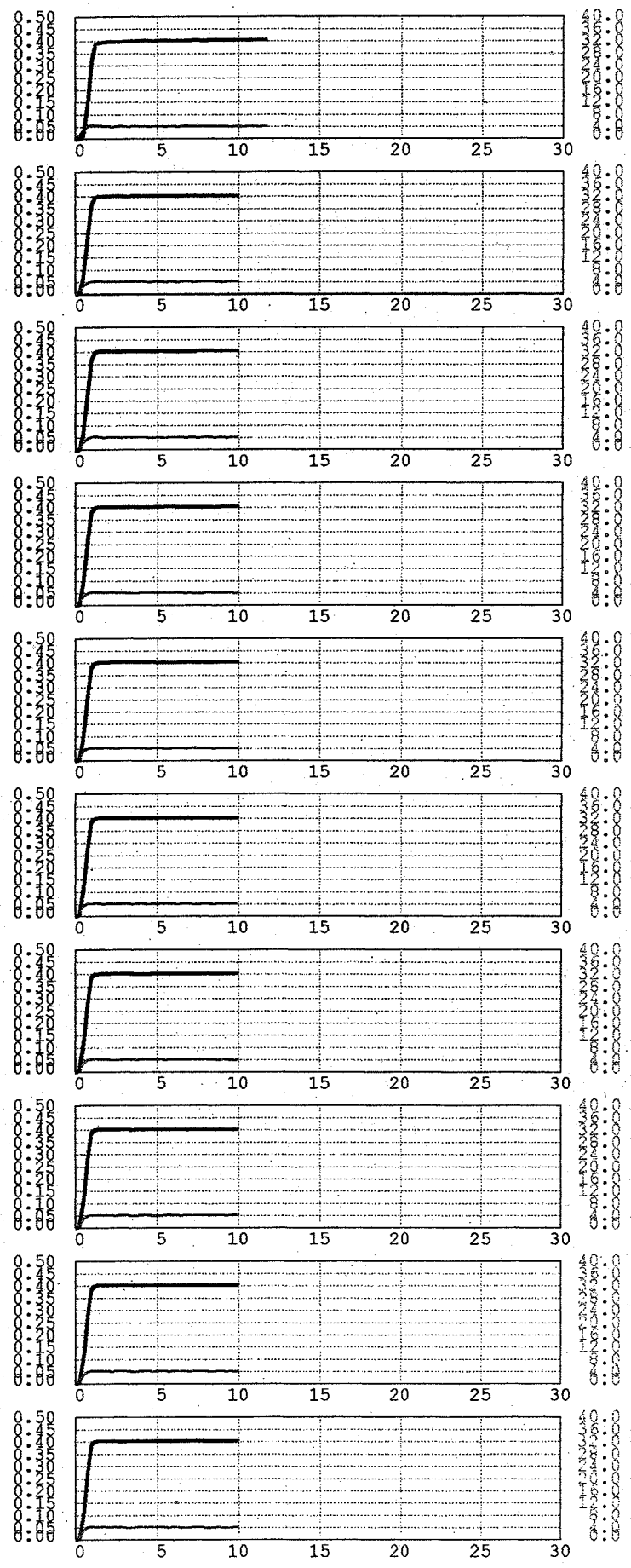
Date: 10/17/2007
Time: 10:06:43

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	10:07
INTERNAL STANDARD	PASSED	10:07
Xq = 0.1076 (0.25%)		
SIMULATOR VAPOR (33.8°C)	0.401	10:08
X[1] = 0.4019 (0.0058) (0.0026)		
SIMULATOR VAPOR (33.8°C)	0.400	10:09
X[1] = 0.4007 (0.0042) (0.0022)		
SIMULATOR VAPOR (33.9°C)	0.401	10:10
X[1] = 0.4017 (0.0037) (0.0024)		
SIMULATOR VAPOR (33.8°C)	0.401	10:12
X[1] = 0.4018 (0.0036) (0.0021)		
SIMULATOR VAPOR (33.9°C)	0.401	10:13
X[1] = 0.4019 (0.0036) (0.0031)		
SIMULATOR VAPOR (33.8°C)	0.399	10:14
X[1] = 0.3995 (0.0032) (0.0023)		
SIMULATOR VAPOR (33.8°C)	0.400	10:15
X[1] = 0.4002 (0.0035) (0.0023)		
SIMULATOR VAPOR (33.9°C)	0.400	10:16
X[1] = 0.4008 (0.0044) (0.0028)		
SIMULATOR VAPOR (33.8°C)	0.400	10:17
X[1] = 0.4006 (0.0037) (0.0025)		
SIMULATOR VAPOR (33.9°C)	0.400	10:18
X[1] = 0.4005 (0.0039) (0.0030)		
BLANK TEST	0.000	10:19

Average = 0.4003
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

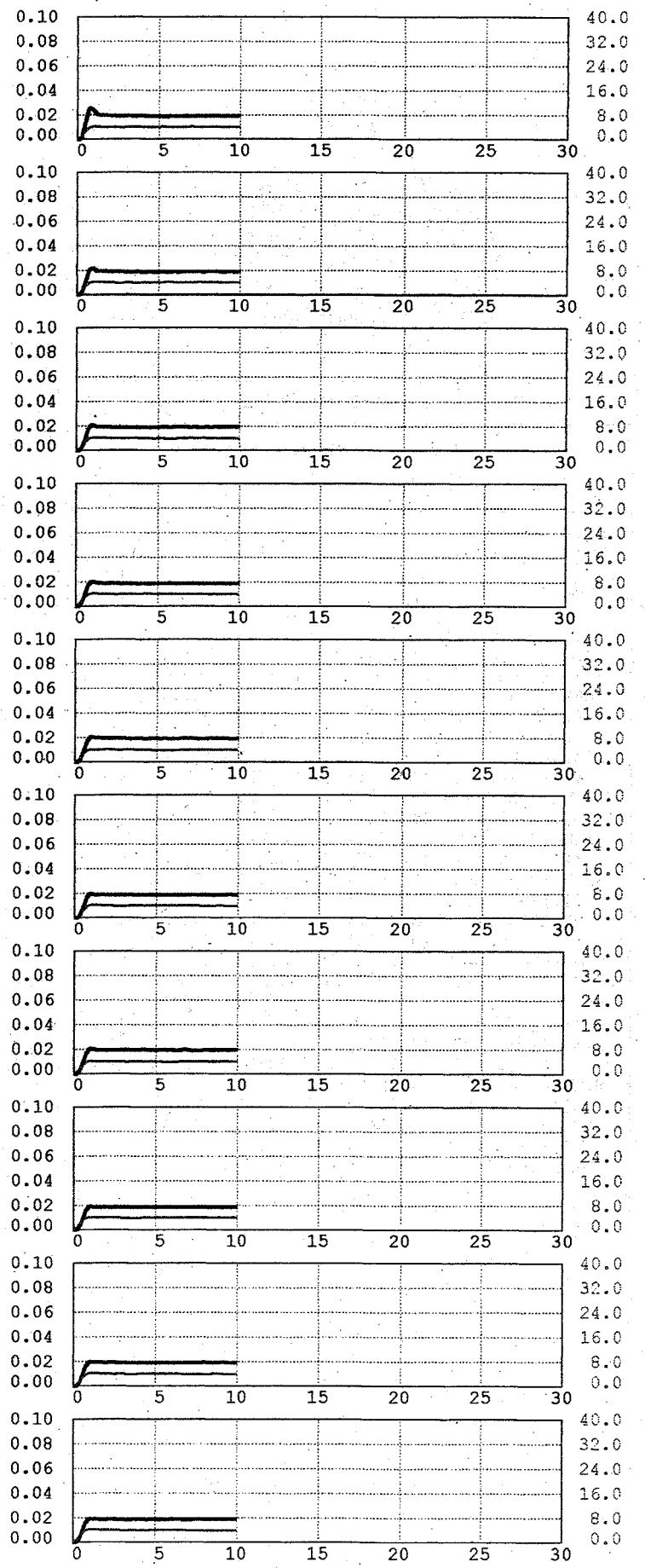
Date: 10/17/2007
Time: 10:43:46

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020 10/25/07 ALB
SOLUTION CONCENTRATION: ~~0.022~~ .0205

BLANK TEST		0.000	10:44
INTERNAL STANDARD		PASSED	10:44
Xq = 0.1072 (0.57%)			
SIMULATOR VAPOR (33.7°C)		0.019	10:45
X[1] = 0.0192	(-0.0017)	(0.0010)	
SIMULATOR VAPOR (33.7°C)		0.019	10:46
X[1] = 0.0192	(-0.0019)	(0.0002)	
SIMULATOR VAPOR (33.6°C)		0.019	10:47
X[1] = 0.0196	(-0.0017)	(0.0005)	
SIMULATOR VAPOR (33.7°C)		0.019	10:47
X[1] = 0.0191	(-0.0024)	(-0.0003)	
SIMULATOR VAPOR (33.7°C)		0.019	10:48
X[1] = 0.0196	(-0.0022)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.019	10:49
X[1] = 0.0192	(-0.0016)	(-0.0004)	
SIMULATOR VAPOR (33.7°C)		0.019	10:50
X[1] = 0.0195	(-0.0014)	(0.0005)	
SIMULATOR VAPOR (33.7°C)		0.018	10:51
X[1] = 0.0189	(-0.0021)	(-0.0003)	
SIMULATOR VAPOR (33.7°C)		0.019	10:52
X[1] = 0.0192	(-0.0018)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.019	10:53
X[1] = 0.0192	(-0.0019)	(0.0001)	
BLANK TEST		0.000	10:54

Average = 0.0189
Std Dev = 0.0003



10/17/2007 13:21

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

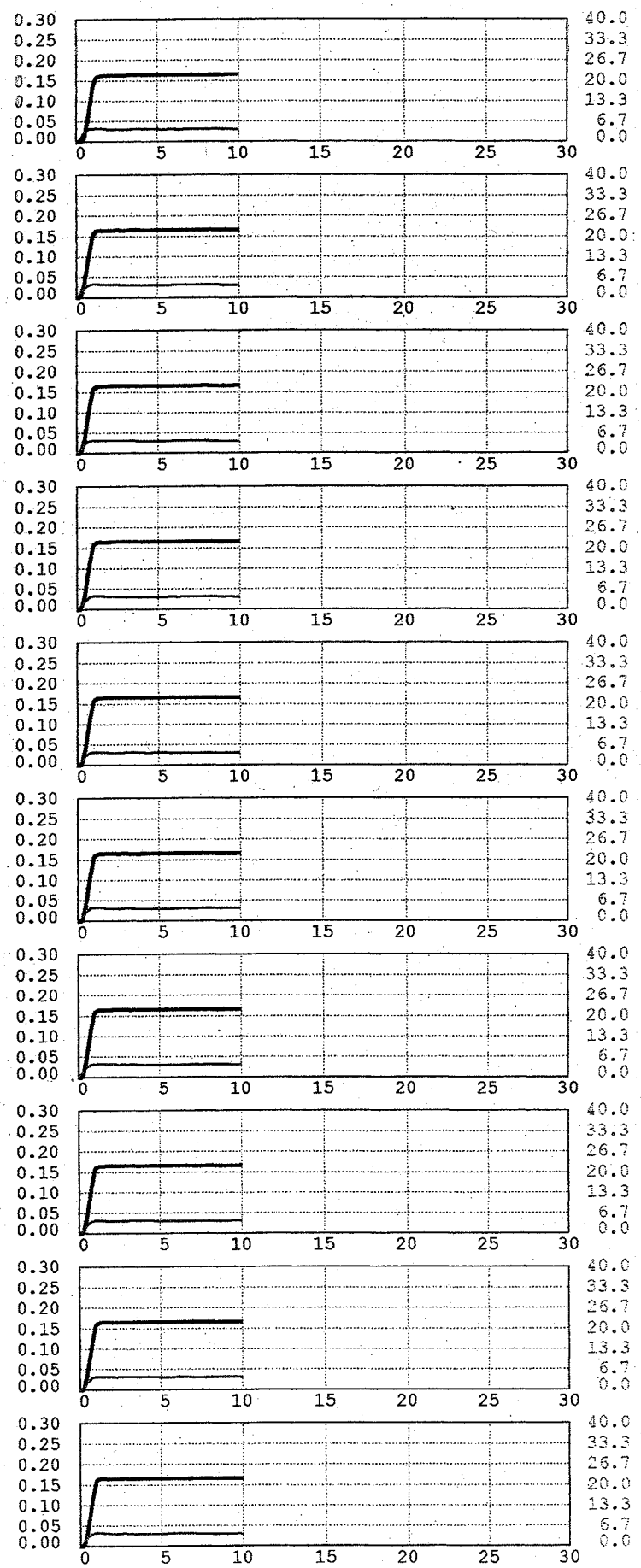
Date: 10/17/2007
Time: 11:01:45

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	11:02
INTERNAL STANDARD	PASSED	11:02
Xq = 0.1077 (0.168)		
SIMULATOR VAPOR (34.0°C)	0.163	11:03
X[1] = 0.1639 (0.0006) (0.0018)		
SIMULATOR VAPOR (34.0°C)	0.165	11:04
X[1] = 0.1652 (0.0015) (0.0031)		
SIMULATOR VAPOR (34.0°C)	0.165	11:05
X[1] = 0.1652 (0.0013) (0.0018)		
SIMULATOR VAPOR (33.9°C)	0.165	11:06
X[1] = 0.1650 (0.0002) (0.0022)		
SIMULATOR VAPOR (34.0°C)	0.165	11:07
X[1] = 0.1650 (0.0009) (0.0020)		
SIMULATOR VAPOR (34.0°C)	0.164	11:08
X[1] = 0.1649 (0.0002) (0.0020)		
SIMULATOR VAPOR (33.9°C)	0.164	11:09
X[1] = 0.1649 (0.0010) (0.0019)		
SIMULATOR VAPOR (33.9°C)	0.165	11:10
X[1] = 0.1653 (0.0008) (0.0023)		
SIMULATOR VAPOR (34.0°C)	0.164	11:10
X[1] = 0.1647 (0.0005) (0.0022)		
SIMULATOR VAPOR (34.0°C)	0.164	11:11
X[1] = 0.1649 (0.0004) (0.0023)		
BLANK TEST	0.000	11:12

Average = 0.1644
Std Dev = 0.0007



10/17/2007 13:21

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

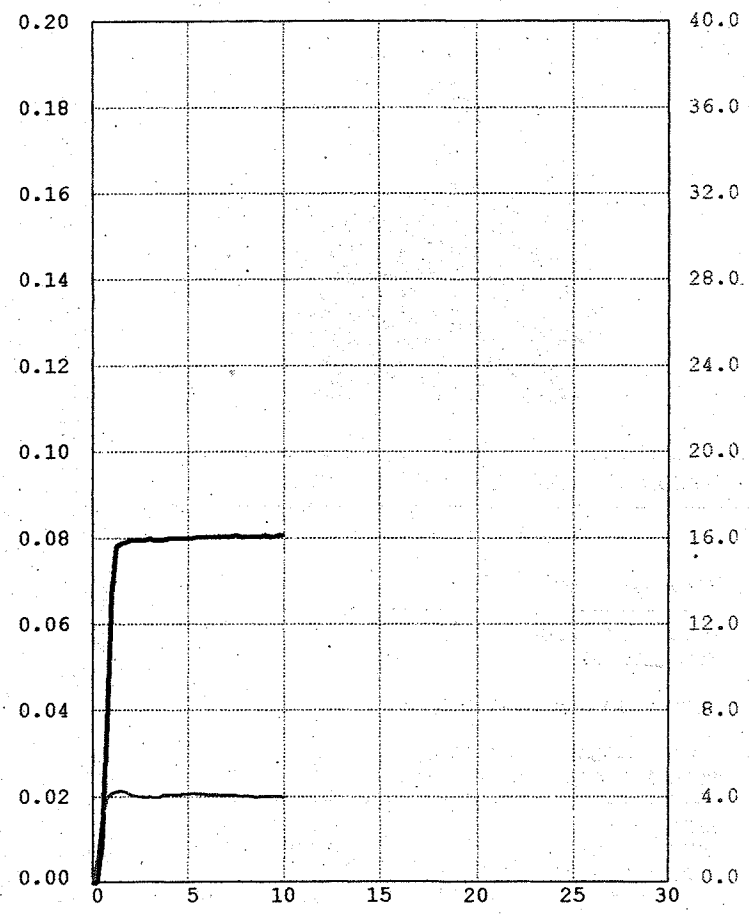
Date: 10/17/2007
Time: 11:17:19

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:18
INTERNAL STANDARD	PASSED	11:18
Xq = 0.1080 (0.16%)		
SIMULATOR VAPOR (33.9°C)	0.080	11:18
X[1] = 0.0801 (-0.0012) (0.0011)		

SIMULATOR TEMPERATURE TOO LOW



Sim T° cable grounded out
rerun 10/17/06 ALB

10/17/2007 13:22

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

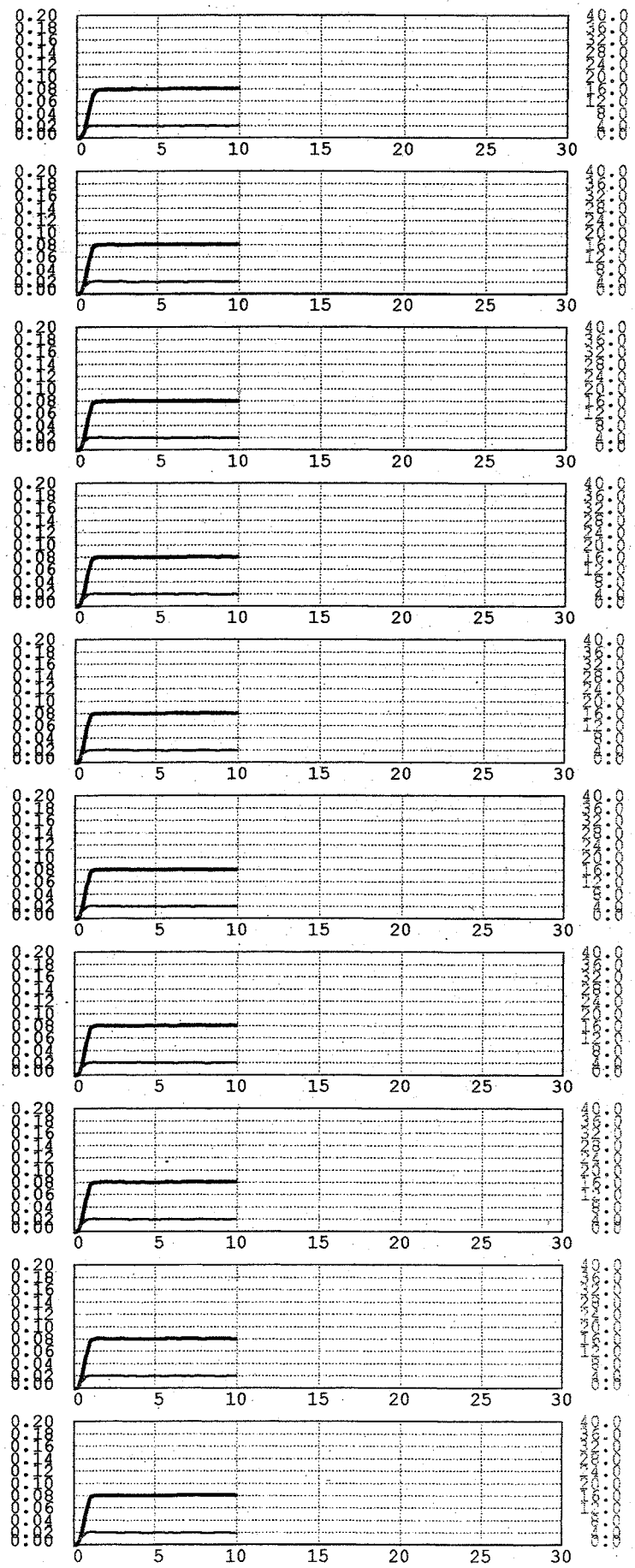
Date: 10/17/2007
Time: 12:03:17

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	12:04
INTERNAL STANDARD		PASSED	12:04
Xq = 0.1077 (0.08%)			
SIMULATOR VAPOR (33.8°C)		0.080	12:04
X[1] = 0.0808	(-0.0009)	(0.0017)	
SIMULATOR VAPOR (33.9°C)		0.080	12:05
X[1] = 0.0808	(-0.0012)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.080	12:06
X[1] = 0.0804	(-0.0018)	(0.0006)	
SIMULATOR VAPOR (33.8°C)		0.080	12:07
X[1] = 0.0805	(-0.0011)	(0.0005)	
SIMULATOR VAPOR (33.9°C)		0.080	12:08
X[1] = 0.0807	(-0.0005)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.080	12:09
X[1] = 0.0802	(-0.0009)	(0.0008)	
SIMULATOR VAPOR (33.8°C)		0.080	12:10
X[1] = 0.0807	(-0.0007)	(0.0003)	
SIMULATOR VAPOR (33.8°C)		0.081	12:11
X[1] = 0.0812	(-0.0001)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.080	12:12
X[1] = 0.0805	(-0.0010)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.080	12:13
X[1] = 0.0806	(-0.0009)	(0.0001)	
BLANK TEST		0.000	12:14

Average = 0.0801
Std Dev = 0.0003



DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/17/2007
Time: 13:23

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 48.0 C
Simulator Hose =  0.0 C
Digital Sim    = 33.8 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.5 V
Chopper Freq   = 529.4 Hz

PUMP INFO
Flow Rate = 5.125 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1209   0.1219
MIN(V)   0.1187   0.1201

FILTER INFO
Filter 1  0.121  Zero = true
Filter 2  0.559  Zero = true
Filter 3  1.512  Zero = true

INTERNAL STANDARD
Xq = 0.1086  0.73%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

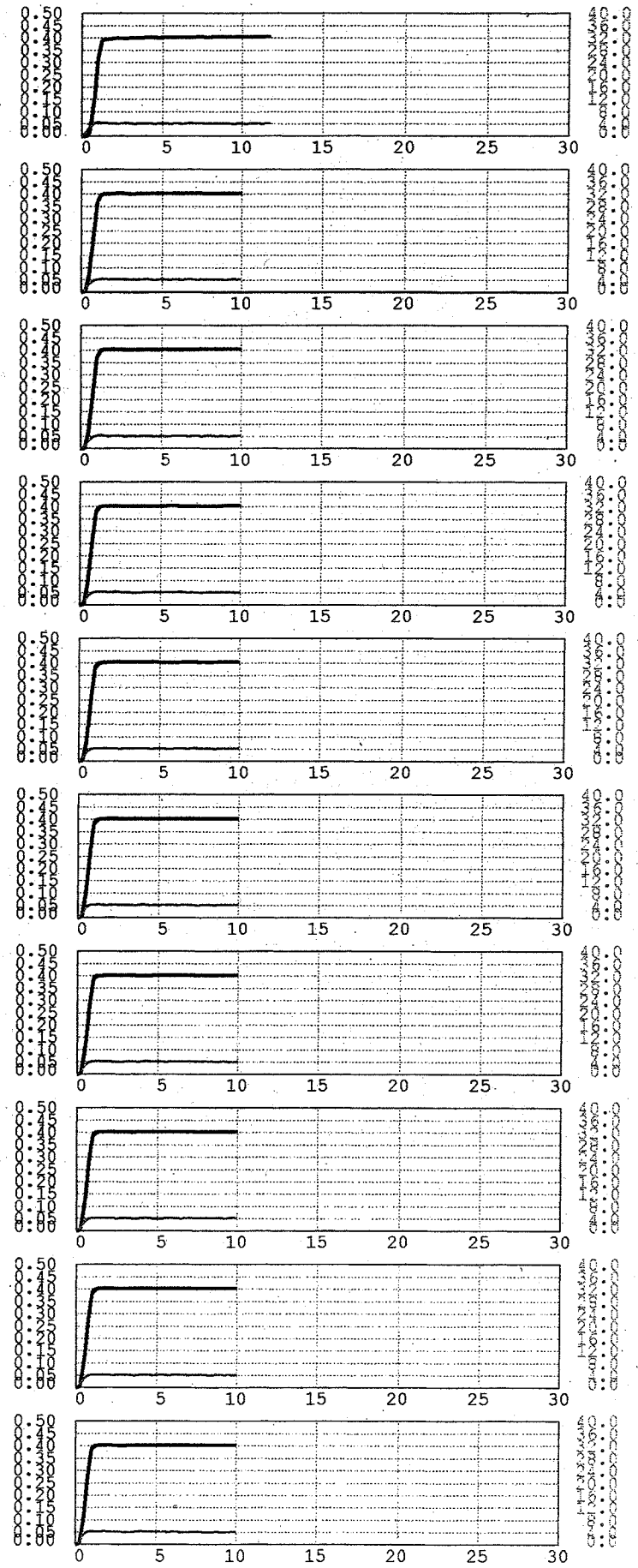
Date: 10/17/2007
Time: 10:06:43

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:07
INTERNAL STANDARD		PASSED	10:07
Xq = 0.1076	(0.258)		
SIMULATOR VAPOR (33.8°C)		0.401	10:08
X[1] = 0.4019	(0.0058)	(0.0026)	
SIMULATOR VAPOR (33.8°C)		0.400	10:09
X[1] = 0.4007	(0.0042)	(0.0022)	
SIMULATOR VAPOR (33.9°C)		0.401	10:10
X[1] = 0.4017	(0.0037)	(0.0024)	
SIMULATOR VAPOR (33.8°C)		0.401	10:12
X[1] = 0.4018	(0.0036)	(0.0021)	
SIMULATOR VAPOR (33.9°C)		0.401	10:13
X[1] = 0.4019	(0.0036)	(0.0031)	
SIMULATOR VAPOR (33.8°C)		0.399	10:14
X[1] = 0.3995	(0.0032)	(0.0023)	
SIMULATOR VAPOR (33.8°C)		0.400	10:15
X[1] = 0.4002	(0.0035)	(0.0023)	
SIMULATOR VAPOR (33.9°C)		0.400	10:16
X[1] = 0.4008	(0.0044)	(0.0028)	
SIMULATOR VAPOR (33.8°C)		0.400	10:17
X[1] = 0.4006	(0.0037)	(0.0025)	
SIMULATOR VAPOR (33.9°C)		0.400	10:18
X[1] = 0.4005	(0.0039)	(0.0030)	
BLANK TEST		0.000	10:19

Average = 0.4003
Std Dev = 0.0007



10/17/2007 13:20

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

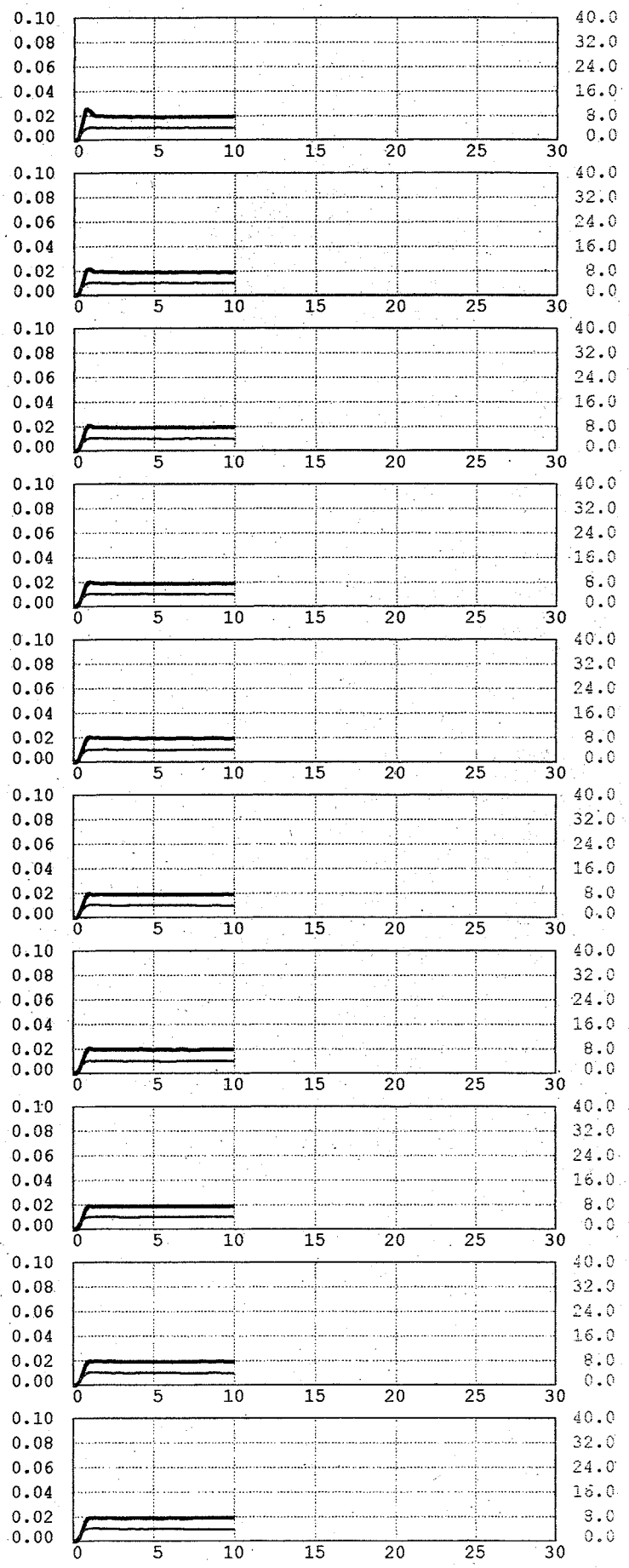
Date: 10/17/2007
Time: 10:43:46

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020 10/25/07 ALB
SOLUTION CONCENTRATION: ~~0.022~~ .0205

BLANK TEST	0.000	10:44
INTERNAL STANDARD	PASSED	10:44
Xq = 0.1072 (0.57%)		
SIMULATOR VAPOR (33.7°C)	0.019	10:45
X[1] = 0.0192 (-0.0017) (0.0010)		
SIMULATOR VAPOR (33.7°C)	0.019	10:46
X[1] = 0.0192 (-0.0019) (0.0002)		
SIMULATOR VAPOR (33.6°C)	0.019	10:47
X[1] = 0.0196 (-0.0017) (0.0005)		
SIMULATOR VAPOR (33.7°C)	0.019	10:47
X[1] = 0.0191 (-0.0024) (-0.0003)		
SIMULATOR VAPOR (33.7°C)	0.019	10:48
X[1] = 0.0196 (-0.0022) (0.0003)		
SIMULATOR VAPOR (33.7°C)	0.019	10:49
X[1] = 0.0192 (-0.0016) (-0.0004)		
SIMULATOR VAPOR (33.7°C)	0.019	10:50
X[1] = 0.0195 (-0.0014) (0.0005)		
SIMULATOR VAPOR (33.7°C)	0.018	10:51
X[1] = 0.0189 (-0.0021) (-0.0003)		
SIMULATOR VAPOR (33.7°C)	0.019	10:52
X[1] = 0.0192 (-0.0018) (0.0001)		
SIMULATOR VAPOR (33.7°C)	0.019	10:53
X[1] = 0.0192 (-0.0019) (0.0001)		
BLANK TEST	0.000	10:54

Average = 0.0189
Std Dev = 0.0003



10/17/2007 13:21

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

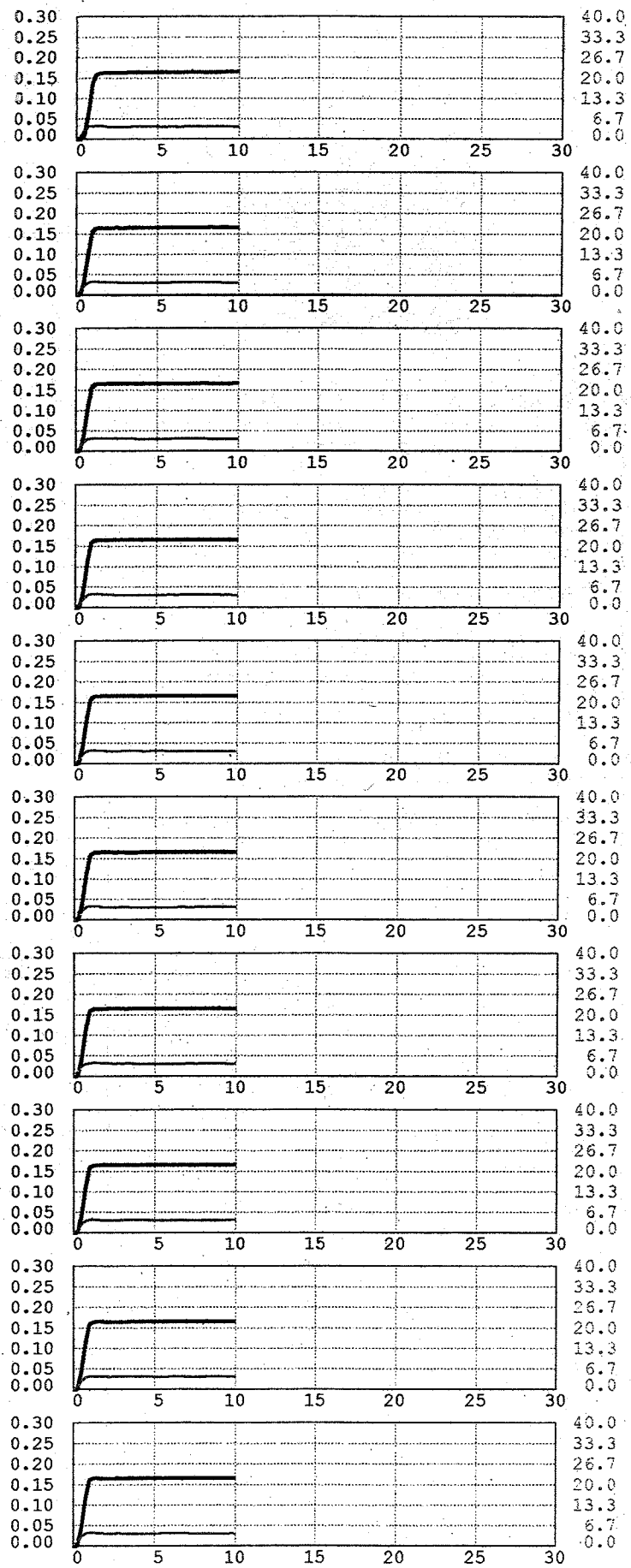
Date: 10/17/2007
Time: 11:01:45

SUPERVISOR NAME: A L B

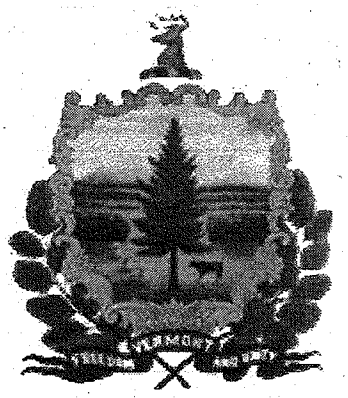
SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

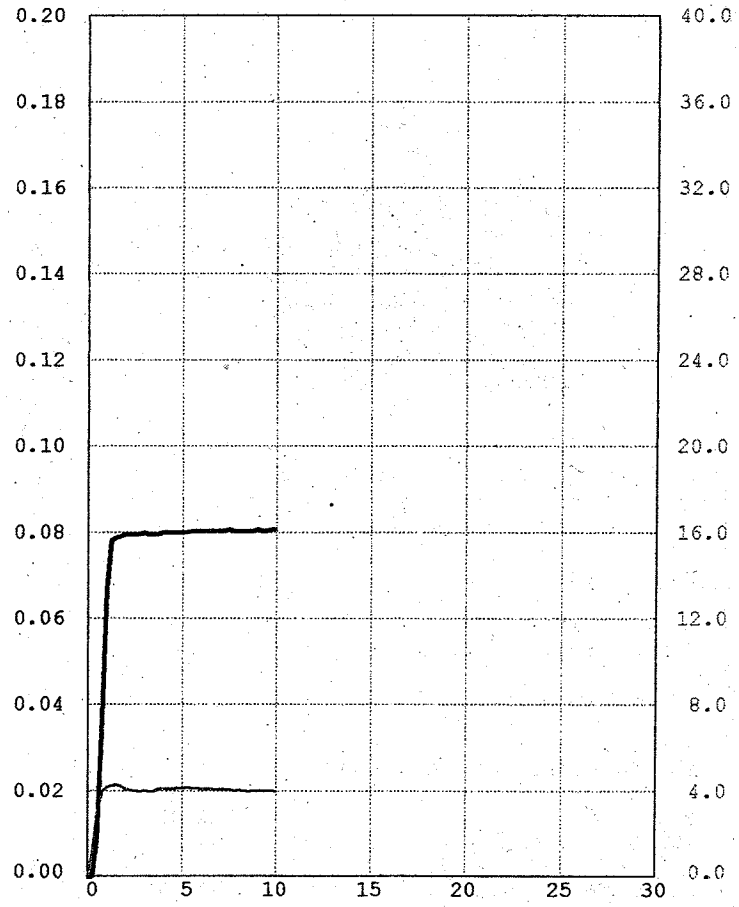
BLANK TEST		0.000	11:02
INTERNAL STANDARD		PASSED	11:02
Xq = 0.1077 (0.16%)			
SIMULATOR VAPOR (34.0°C)		0.163	11:03
X[1] = 0.1639 (0.0006)	(0.0018)		
SIMULATOR VAPOR (34.0°C)		0.165	11:04
X[1] = 0.1652 (0.0015)	(0.0031)		
SIMULATOR VAPOR (34.0°C)		0.165	11:05
X[1] = 0.1652 (0.0013)	(0.0018)		
SIMULATOR VAPOR (33.9°C)		0.165	11:06
X[1] = 0.1650 (0.0002)	(0.0022)		
SIMULATOR VAPOR (34.0°C)		0.165	11:07
X[1] = 0.1650 (0.0009)	(0.0020)		
SIMULATOR VAPOR (34.0°C)		0.164	11:08
X[1] = 0.1649 (0.0002)	(0.0020)		
SIMULATOR VAPOR (33.9°C)		0.164	11:09
X[1] = 0.1649 (0.0010)	(0.0019)		
SIMULATOR VAPOR (33.9°C)		0.165	11:10
X[1] = 0.1653 (0.0008)	(0.0023)		
SIMULATOR VAPOR (34.0°C)		0.164	11:10
X[1] = 0.1647 (0.0005)	(0.0022)		
SIMULATOR VAPOR (34.0°C)		0.164	11:11
X[1] = 0.1649 (0.0004)	(0.0023)		
BLANK TEST		0.000	11:12

Average = 0.1644
Std Dev = 0.0007



10/17/2007 13:21





ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 10/17/2007
Time: 11:17:19

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:18
INTERNAL STANDARD	PASSED	11:18
Xq = 0.1080 (0.16%)		
SIMULATOR VAPOR (33.9°C)	0.080	11:18
X[1] = 0.0801 (-0.0012) (0.0011)		

SIMULATOR TEMPERATURE TOO LOW

Sim T° cable grounded out
rerun 10/17/06 [illegible]

10/17/2007 13:22

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

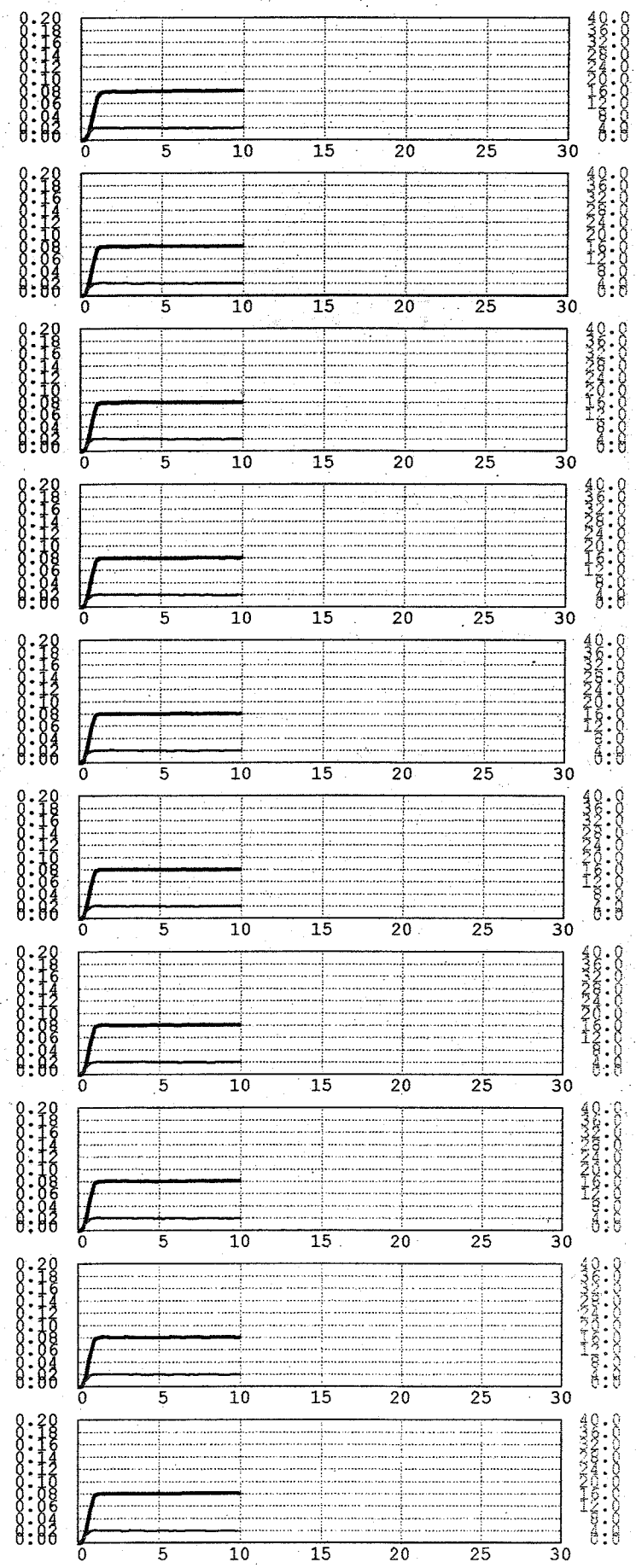
Date: 10/17/2007
Time: 12:03:17

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	12:04
INTERNAL STANDARD		PASSED	12:04
Xq = 0.1077	(0.088)		
SIMULATOR VAPOR (33.8°C)		0.080	12:04
X[1] = 0.0808	(-0.0009)	(0.0017)	
SIMULATOR VAPOR (33.9°C)		0.080	12:05
X[1] = 0.0808	(-0.0012)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.080	12:06
X[1] = 0.0804	(-0.0018)	(0.0006)	
SIMULATOR VAPOR (33.8°C)		0.080	12:07
X[1] = 0.0805	(-0.0011)	(0.0005)	
SIMULATOR VAPOR (33.9°C)		0.080	12:08
X[1] = 0.0807	(-0.0005)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.080	12:09
X[1] = 0.0802	(-0.0009)	(0.0008)	
SIMULATOR VAPOR (33.8°C)		0.080	12:10
X[1] = 0.0807	(-0.0007)	(0.0003)	
SIMULATOR VAPOR (33.8°C)		0.081	12:11
X[1] = 0.0812	(-0.0001)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.080	12:12
X[1] = 0.0805	(-0.0010)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.080	12:13
X[1] = 0.0806	(-0.0009)	(0.0001)	
BLANK TEST		0.000	12:14

Average = 0.0801
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

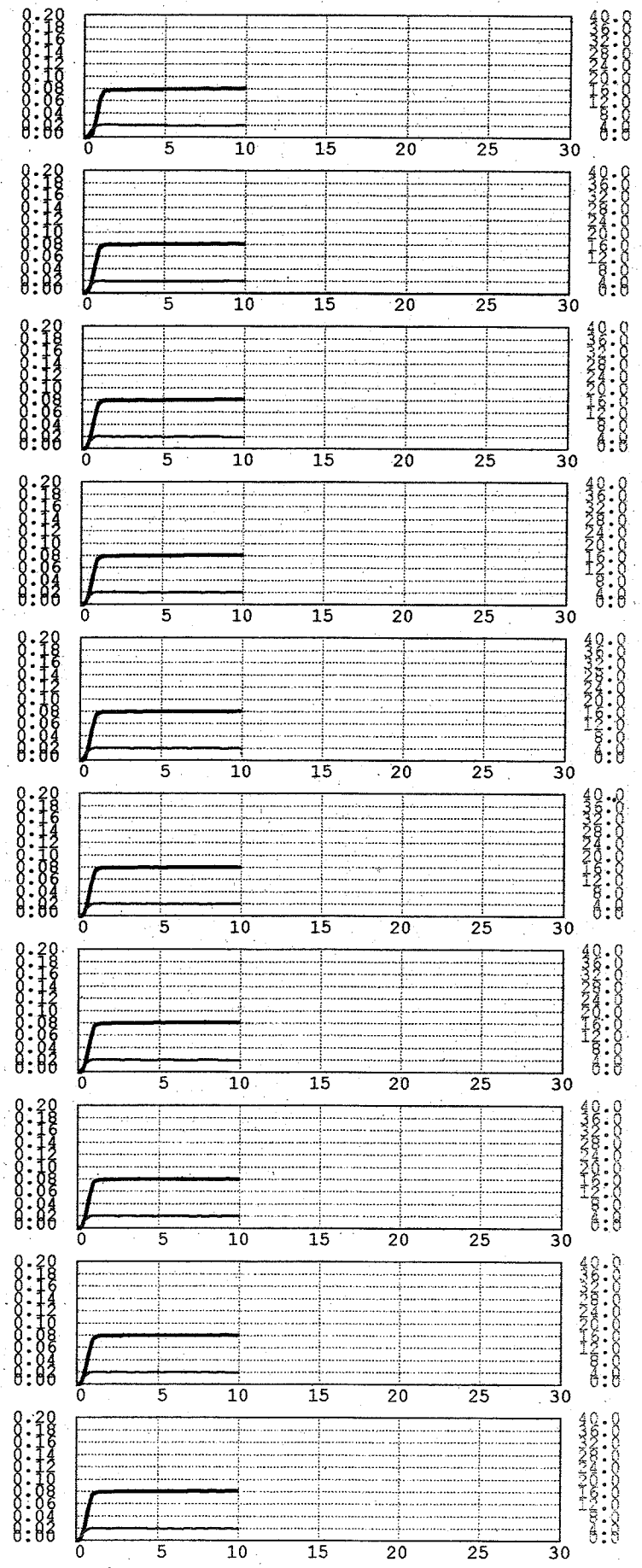
Date: 10/19/2007
Time: 13:55:36

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	13:56
INTERNAL STANDARD		PASSED	13:56
Xq = 0.1070 (0.74%)			
SIMULATOR VAPOR (33.9°C)		0.079	13:56
X[1] = 0.0794	(-0.0008)	(-0.0006)	
SIMULATOR VAPOR (33.9°C)		0.080	13:57
X[1] = 0.0801	(0.0004)	(-0.0002)	
SIMULATOR VAPOR (33.9°C)		0.080	13:58
X[1] = 0.0805	(-0.0002)	(-0.0004)	
SIMULATOR VAPOR (33.9°C)		0.080	14:00
X[1] = 0.0808	(0.0002)	(-0.0008)	
SIMULATOR VAPOR (33.9°C)		0.080	14:01
X[1] = 0.0803	(0.0004)	(-0.0005)	
SIMULATOR VAPOR (33.9°C)		0.080	14:02
X[1] = 0.0803	(0.0001)	(-0.0009)	
SIMULATOR VAPOR (33.9°C)		0.080	14:03
X[1] = 0.0808	(0.0001)	(-0.0012)	
SIMULATOR VAPOR (33.9°C)		0.080	14:04
X[1] = 0.0803	(-0.0003)	(-0.0012)	
SIMULATOR VAPOR (33.9°C)		0.080	14:05
X[1] = 0.0804	(-0.0007)	(-0.0004)	
SIMULATOR VAPOR (33.9°C)		0.080	14:06
X[1] = 0.0806	(0.0000)	(0.0000)	
BLANK TEST		0.000	14:06

Average = 0.0799
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

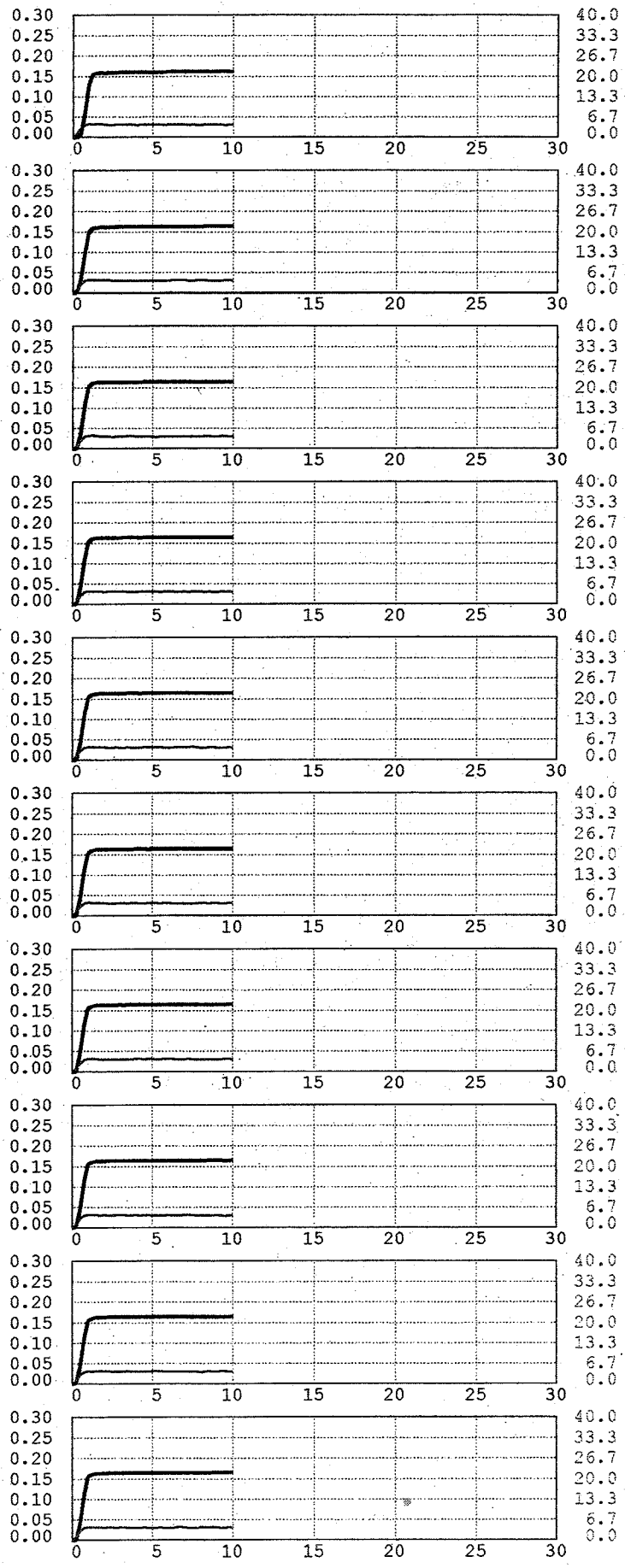
Date: 10/19/2007
Time: 14:21:34

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	14:22
INTERNAL STANDARD		PASSED	14:22
Xq = 0.1072 (0.57%)			
SIMULATOR VAPOR (34.0°C)		0.161	14:22
X[1] = 0.1613	(-0.0008)	(0.0001)	
SIMULATOR VAPOR (34.0°C)		0.163	14:23
X[1] = 0.1630	(0.0014)	(-0.0004)	
SIMULATOR VAPOR (34.0°C)		0.163	14:24
X[1] = 0.1638	(0.0013)	(-0.0004)	
SIMULATOR VAPOR (34.0°C)		0.163	14:25
X[1] = 0.1637	(0.0014)	(-0.0004)	
SIMULATOR VAPOR (34.1°C)		0.163	14:26
X[1] = 0.1636	(0.0009)	(0.0004)	
SIMULATOR VAPOR (34.0°C)		0.164	14:27
X[1] = 0.1641	(0.0014)	(-0.0008)	
SIMULATOR VAPOR (34.1°C)		0.164	14:28
X[1] = 0.1640	(0.0009)	(0.0002)	
SIMULATOR VAPOR (34.0°C)		0.164	14:29
X[1] = 0.1643	(0.0015)	(-0.0002)	
SIMULATOR VAPOR (34.1°C)		0.163	14:30
X[1] = 0.1639	(0.0008)	(-0.0013)	
SIMULATOR VAPOR (34.1°C)		0.164	14:31
X[1] = 0.1645	(0.0016)	(-0.0002)	
BLANK TEST		0.000	14:32

Average = 0.1632
Std Dev = 0.0009



10/19/2007 14:33

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

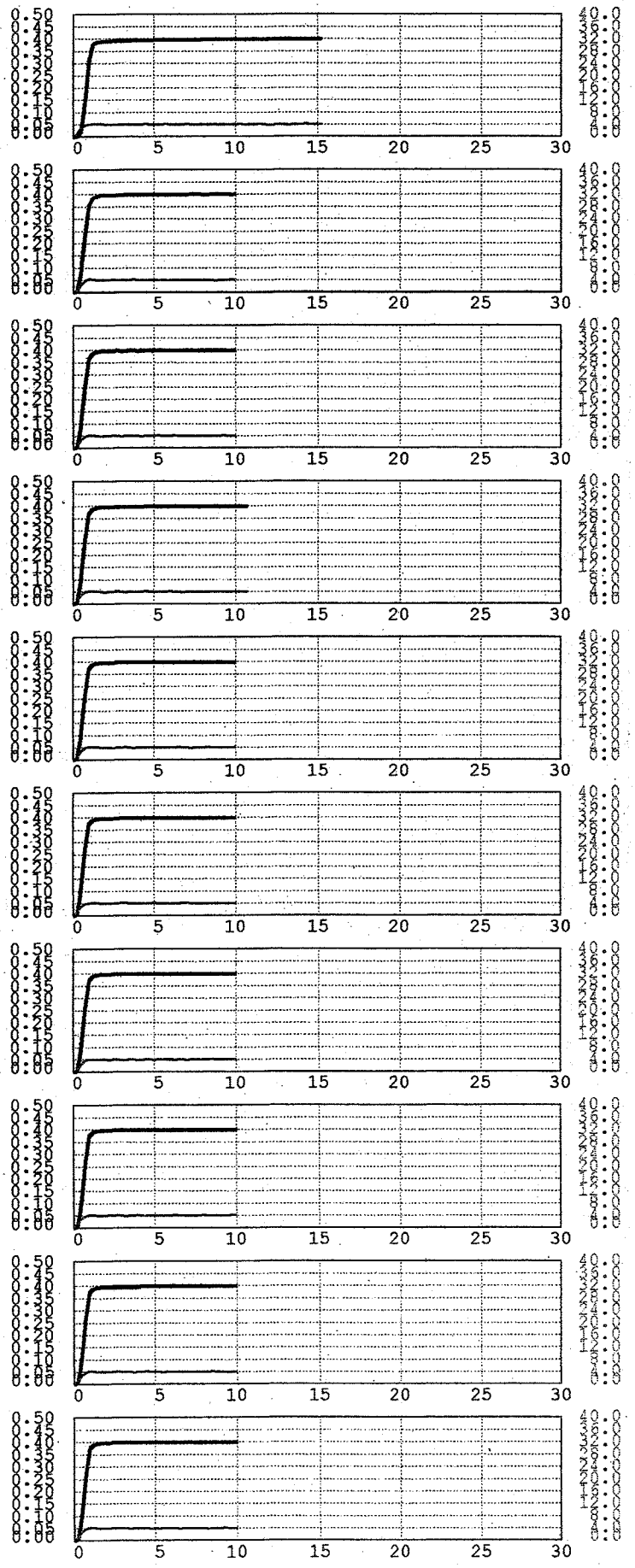
Date: 10/19/2007
Time: 14:36:45

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	14:37
INTERNAL STANDARD		PASSED	14:37
Xq = 0.1077	(0.08%)		
SIMULATOR VAPOR (33.9°C)		0.396	14:38
X[1] = 0.3968	(0.0047)	(0.0012)	
SIMULATOR VAPOR (33.9°C)		0.397	14:39
X[1] = 0.3973	(0.0048)	(0.0022)	
SIMULATOR VAPOR (33.9°C)		0.396	14:40
X[1] = 0.3968	(0.0039)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.396	14:41
X[1] = 0.3965	(0.0044)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.396	14:42
X[1] = 0.3968	(0.0049)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.396	14:43
X[1] = 0.3969	(0.0046)	(0.0011)	
SIMULATOR VAPOR (33.9°C)		0.396	14:44
X[1] = 0.3963	(0.0045)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.397	14:45
X[1] = 0.3976	(0.0042)	(0.0010)	
SIMULATOR VAPOR (33.8°C)		0.396	14:46
X[1] = 0.3966	(0.0031)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.397	14:47
X[1] = 0.3975	(0.0035)	(0.0010)	
BLANK TEST		0.000	14:48

Average = 0.3963
Std Dev = 0.0005



10/19/2007 14:53

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 10/19/2007
Time: 15:03:06

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-15-020 10/25/07 Rec
SOLUTION CONCENTRATION: ~~0.022~~ .0205

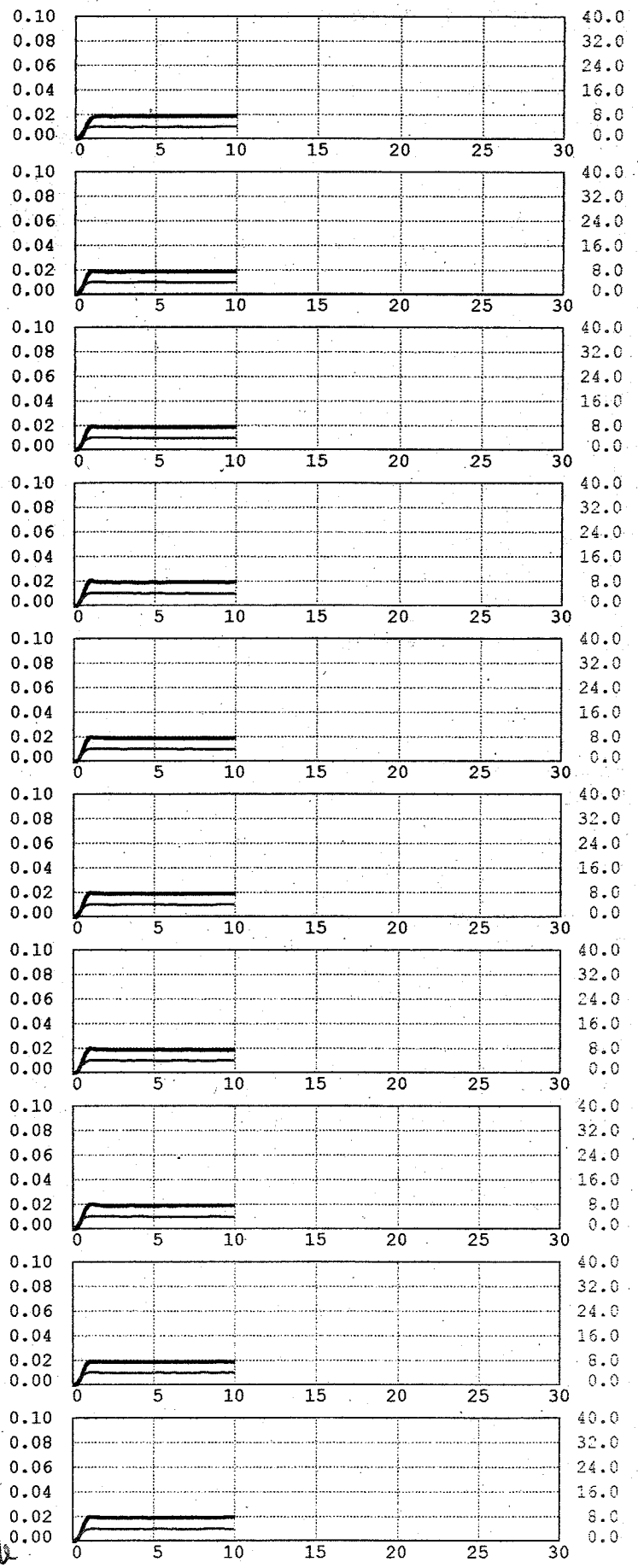
BLANK TEST	0.000	15:04
INTERNAL STANDARD	PASSED	15:04
Xq = 0.1071 (0.658)		
SIMULATOR VAPOR (33.7°C)	0.018	15:04
X[1] = 0.0188 (-0.0003) (0.0005)		
SIMULATOR VAPOR (33.8°C)	0.018	15:05
X[1] = 0.0185 (-0.0005) (0.0004)		
SIMULATOR VAPOR (33.7°C)	0.019	15:06
X[1] = 0.0191 (-0.0004) (0.0000)		
SIMULATOR VAPOR (33.7°C)	0.019	15:07
X[1] = 0.0196 (0.0003) (0.0002)		
SIMULATOR VAPOR (33.7°C)	0.019	15:08
X[1] = 0.0190 (-0.0001) (0.0001)		
SIMULATOR VAPOR (33.7°C)	0.019	15:09
X[1] = 0.0191 (-0.0003) (0.0005)		
SIMULATOR VAPOR (33.8°C)	0.019	15:10
X[1] = 0.0193 (0.0000) (0.0003)		
SIMULATOR VAPOR (33.7°C)	0.019	15:11
X[1] = 0.0194 (0.0003) (0.0002)		
SIMULATOR VAPOR (33.7°C)	0.019	15:12
X[1] = 0.0190 (-0.0006) (0.0003)		
SIMULATOR VAPOR (33.7°C)	0.019	15:13
X[1] = 0.0195 (-0.0004) (0.0004)		
BLANK TEST	0.000	15:13

Average = 0.0188
Std Dev = 0.0004

85% recovery
outside acceptable
range.
10/19/07

TV=.0205 for solution Dmm
Actual concentration recharacterized
91.7% recovery
Solution within acceptable
range 10/25/07 DMR

10/19/2007 15:21



DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/23/2007
Time: 09:46

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.8 C
Breath Tube    = 46.1 C
Simulator Hose =  0.0 C
Digital Sim    = 33.8 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 532.1 Hz

PUMP INFO
Flow Rate = 5.018 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.1053    0.1061
MIN(V)   0.1032    0.1045

FILTER INFO
Filter 1  0.106  Zero = true
Filter 2  0.551  Zero = true
Filter 3  1.485  Zero = true

INTERNAL STANDARD
Xq = 0.1096  1.63%
```

10/23/2007 09:48

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

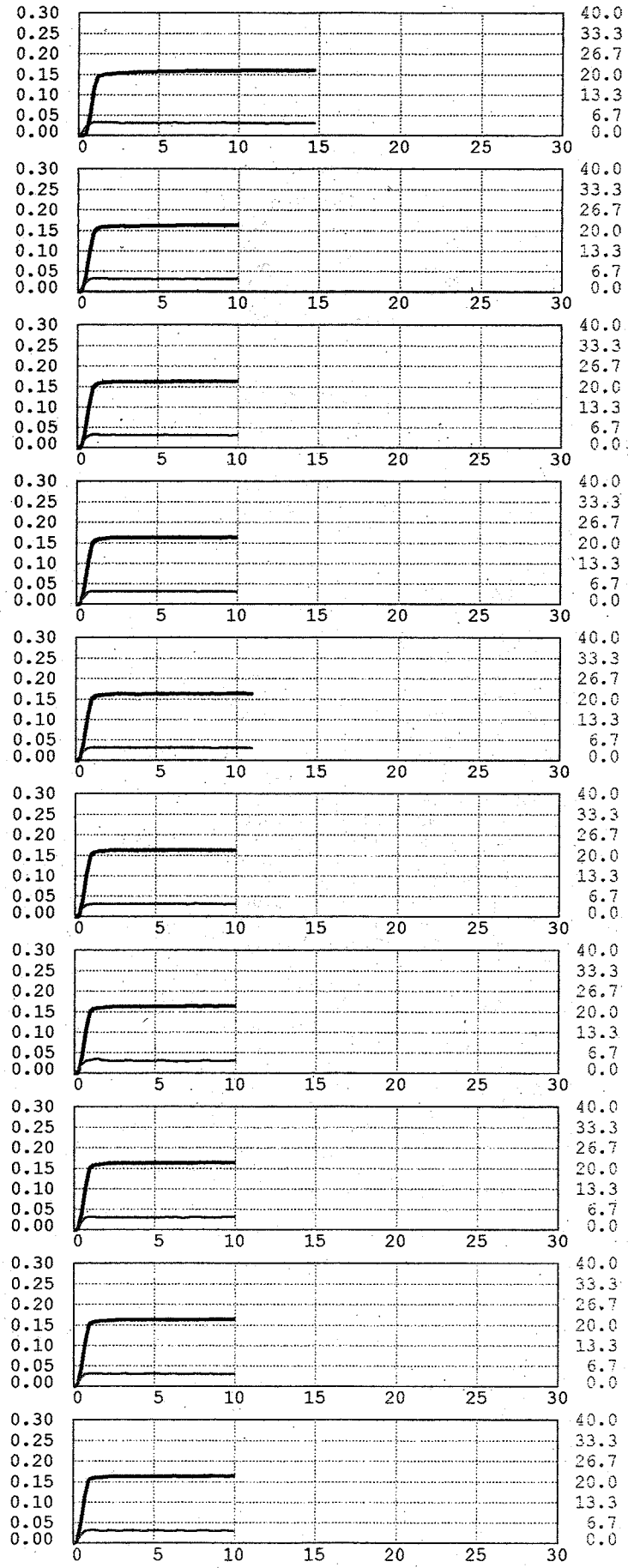
Date: 10/23/2007
Time: 10:08:18

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	10:09
INTERNAL STANDARD		PASSED	10:09
Xq = 0.1076 (0.25%)			
SIMULATOR VAPOR (34.1°C)		0.159	10:09
X[1] = 0.1598	(-0.0004)	(-0.0019)	
SIMULATOR VAPOR (34.0°C)		0.162	10:10
X[1] = 0.1620	(0.0019)	(-0.0008)	
SIMULATOR VAPOR (34.1°C)		0.161	10:11
X[1] = 0.1619	(0.0011)	(-0.0015)	
SIMULATOR VAPOR (34.1°C)		0.162	10:12
X[1] = 0.1624	(0.0010)	(-0.0019)	
SIMULATOR VAPOR (34.0°C)		0.163	10:13
X[1] = 0.1631	(0.0010)	(-0.0010)	
SIMULATOR VAPOR (34.0°C)		0.162	10:14
X[1] = 0.1621	(0.0010)	(-0.0015)	
SIMULATOR VAPOR (34.0°C)		0.162	10:15
X[1] = 0.1628	(0.0012)	(-0.0016)	
SIMULATOR VAPOR (34.0°C)		0.162	10:16
X[1] = 0.1627	(0.0009)	(-0.0012)	
SIMULATOR VAPOR (34.0°C)		0.162	10:17
X[1] = 0.1629	(0.0015)	(-0.0012)	
SIMULATOR VAPOR (34.0°C)		0.163	10:18
X[1] = 0.1631	(0.0022)	(-0.0009)	
BLANK TEST		0.000	10:19

Average = 0.1618
Std Dev = 0.0011



10/23/2007 10:19

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

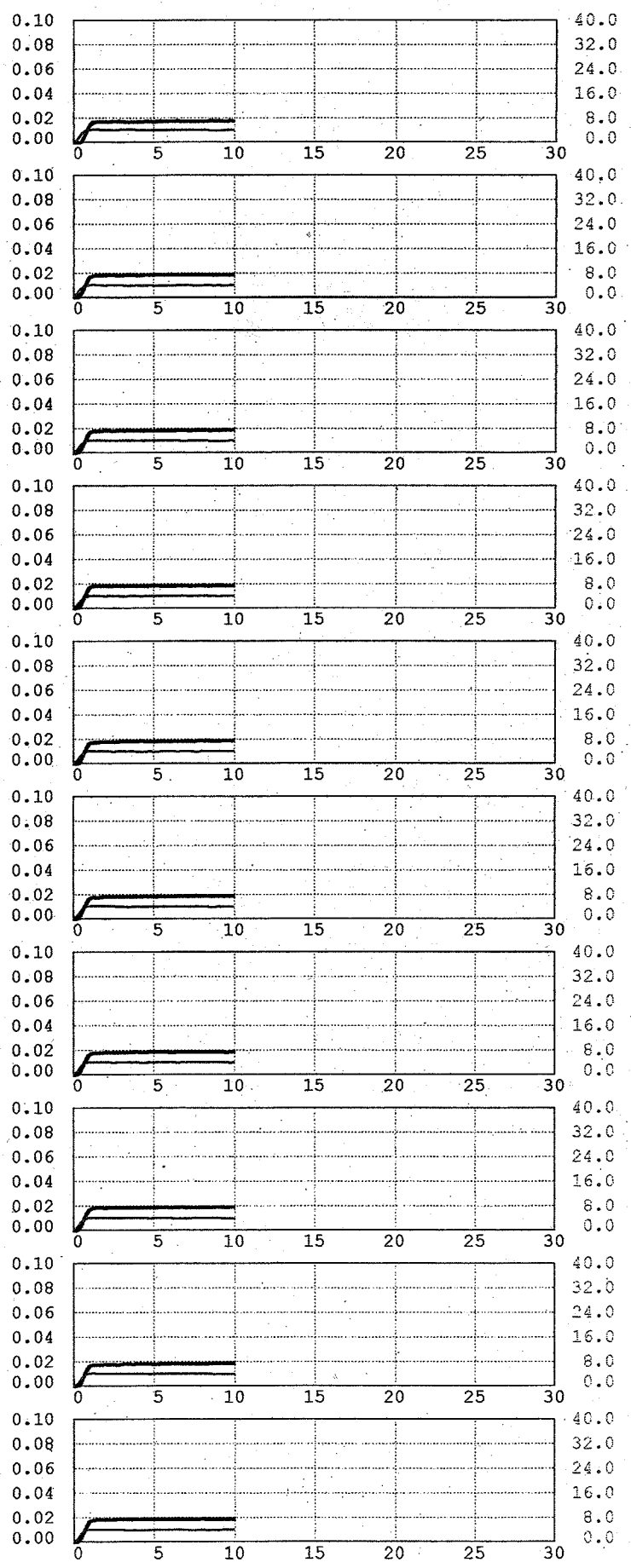
Date: 10/23/2007
Time: 09:53:03

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	09:53
INTERNAL STANDARD		PASSED	09:54
Xq = 0.1076 (0.25%)			
SIMULATOR VAPOR	(33.8°C)	0.018	09:54
X[1] = 0.0182	(-0.0004)	(-0.0001)	
SIMULATOR VAPOR	(33.7°C)	0.019	09:55
X[1] = 0.0190	(0.0003)	(0.0006)	
SIMULATOR VAPOR	(33.8°C)	0.019	09:56
X[1] = 0.0190	(0.0000)	(0.0002)	
SIMULATOR VAPOR	(33.8°C)	0.018	09:57
X[1] = 0.0187	(-0.0006)	(0.0000)	
SIMULATOR VAPOR	(33.8°C)	0.018	09:58
X[1] = 0.0188	(-0.0002)	(-0.0002)	
SIMULATOR VAPOR	(33.7°C)	0.019	09:59
X[1] = 0.0191	(0.0002)	(0.0001)	
SIMULATOR VAPOR	(33.8°C)	0.019	10:00
X[1] = 0.0190	(0.0003)	(-0.0004)	
SIMULATOR VAPOR	(33.8°C)	0.019	10:01
X[1] = 0.0195	(0.0004)	(-0.0001)	
SIMULATOR VAPOR	(33.8°C)	0.018	10:02
X[1] = 0.0188	(-0.0006)	(-0.0001)	
SIMULATOR VAPOR	(33.7°C)	0.019	10:03
X[1] = 0.0191	(-0.0002)	(-0.0002)	
BLANK TEST		0.000	10:03

Average = 0.0186
Std Dev = 0.0005



10/23/2007 10:21

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

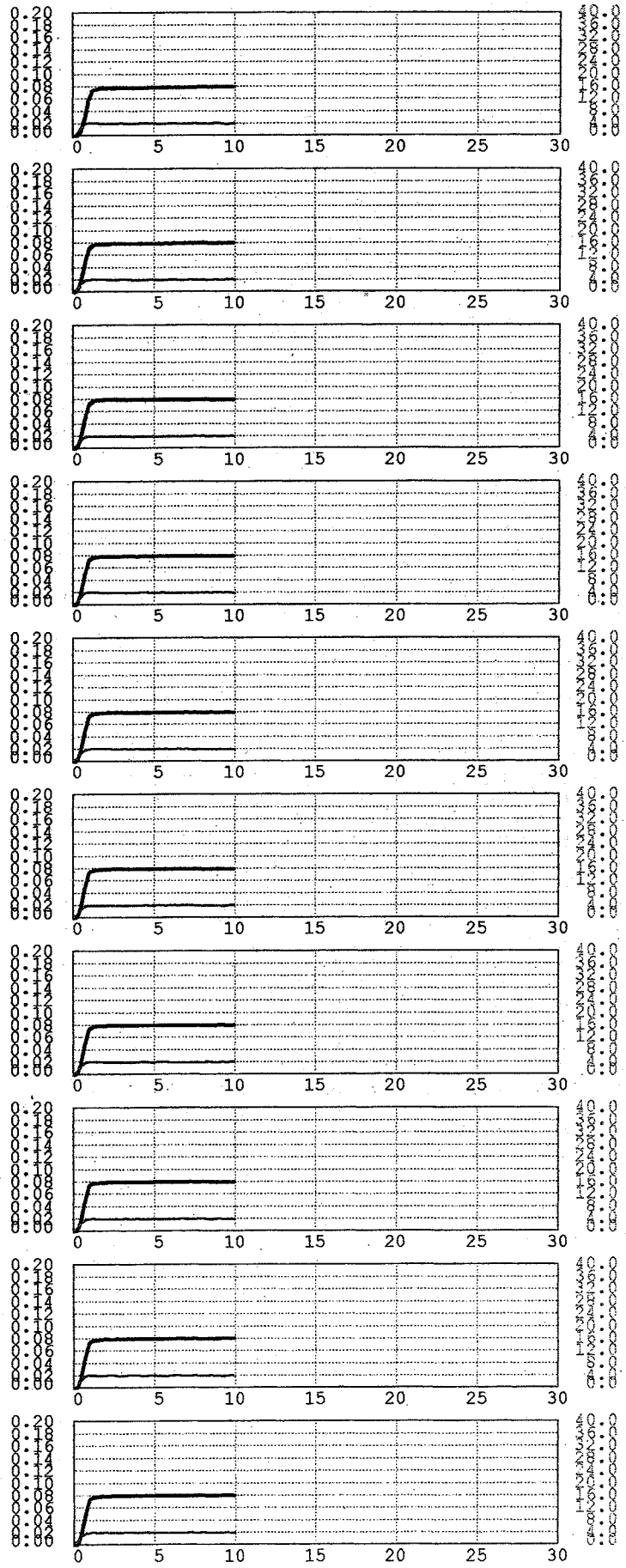
Date: 10/23/2007
Time: 10:45:55

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:46
INTERNAL STANDARD		PASSED	10:46
Xq = 0.1069	(0.82%)		
SIMULATOR VAPOR	(33.9°C)	0.078	10:47
X[1] = 0.0788	(0.0006)	(0.0003)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:48
X[1] = 0.0792	(0.0003)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:49
X[1] = 0.0794	(0.0004)	(-0.0002)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:50
X[1] = 0.0795	(0.0003)	(-0.0002)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:51
X[1] = 0.0799	(0.0006)	(-0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:52
X[1] = 0.0794	(0.0002)	(-0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:53
X[1] = 0.0797	(0.0004)	(-0.0003)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:54
X[1] = 0.0796	(-0.0001)	(-0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:55
X[1] = 0.0797	(0.0001)	(0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:56
X[1] = 0.0796	(0.0001)	(-0.0002)	
BLANK TEST		0.000	10:57

Average = 0.0789
Std Dev = 0.0003



10/23/2007 11:01

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

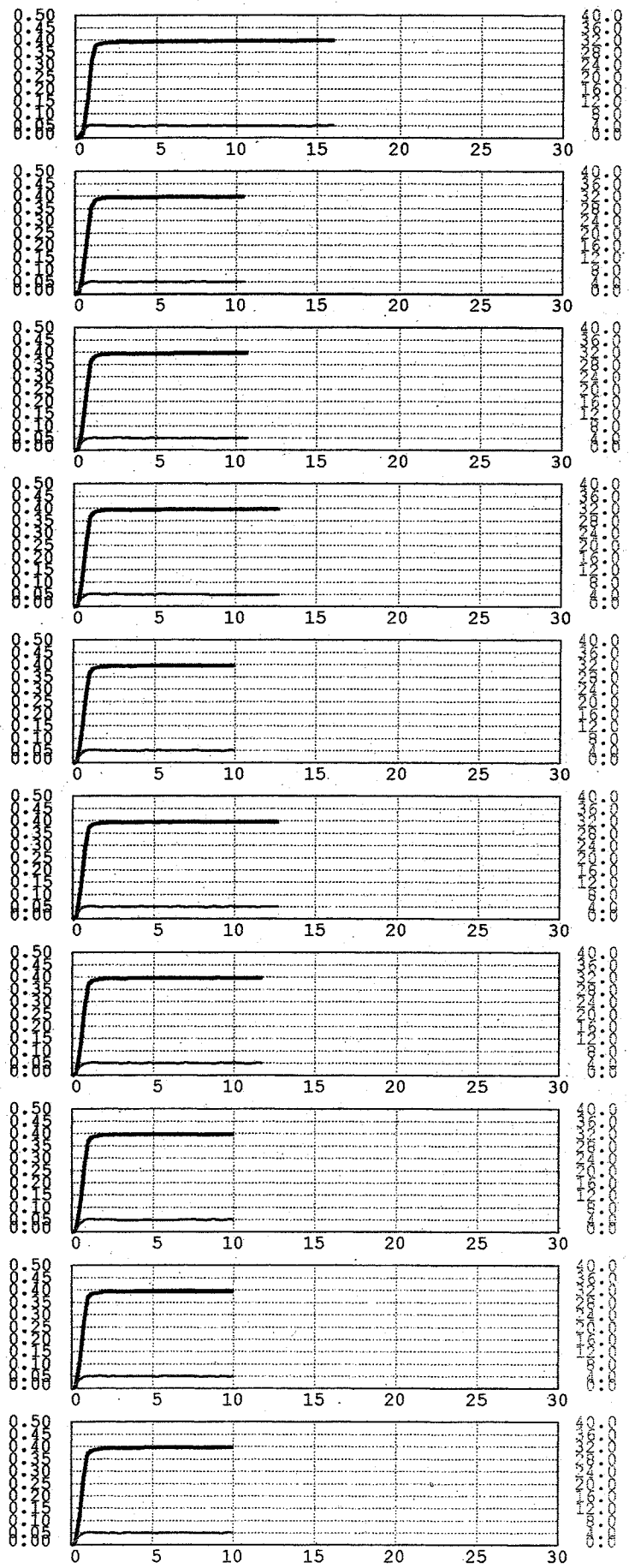
Date: 10/23/2007
Time: 11:20:13

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	11:21
INTERNAL STANDARD		PASSED	11:21
Xq = 0.1081 (0.24%)			
SIMULATOR VAPOR (33.9°C)		0.395	11:21
X[1] = 0.3950 (0.0052)	(0.0021)		
SIMULATOR VAPOR (33.9°C)		0.394	11:22
X[1] = 0.3945 (0.0047)	(0.0009)		
SIMULATOR VAPOR (33.9°C)		0.393	11:23
X[1] = 0.3937 (0.0045)	(-0.0001)		
SIMULATOR VAPOR (33.9°C)		0.394	11:24
X[1] = 0.3942 (0.0045)	(-0.0001)		
SIMULATOR VAPOR (33.8°C)		0.393	11:25
X[1] = 0.3939 (0.0048)	(0.0001)		
SIMULATOR VAPOR (33.8°C)		0.394	11:26
X[1] = 0.3944 (0.0035)	(0.0005)		
SIMULATOR VAPOR (33.9°C)		0.394	11:27
X[1] = 0.3945 (0.0046)	(0.0005)		
SIMULATOR VAPOR (33.9°C)		0.394	11:28
X[1] = 0.3944 (0.0046)	(0.0003)		
SIMULATOR VAPOR (33.8°C)		0.394	11:29
X[1] = 0.3948 (0.0048)	(0.0001)		
SIMULATOR VAPOR (33.9°C)		0.394	11:30
X[1] = 0.3940 (0.0041)	(0.0010)		
BLANK TEST		0.000	11:31

Average = 0.3939
Std Dev = 0.0006



10/23/2007 11:41

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/26/2007
Time: 10:10

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube    = 48.1 C
Simulator Hose =  0.0 C
Digital Sim    = 33.9 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.5 V
Chopper Freq   = 532.4 Hz

PUMP INFO
Flow Rate = 5.100 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.1150    0.1159
MIN(V)   0.1130    0.1138

FILTER INFO
Filter 1  0.115  Zero = true
Filter 2  0.555  Zero = true
Filter 3  1.498  Zero = true

INTERNAL STANDARD
Xq = 0.1075  0.33%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

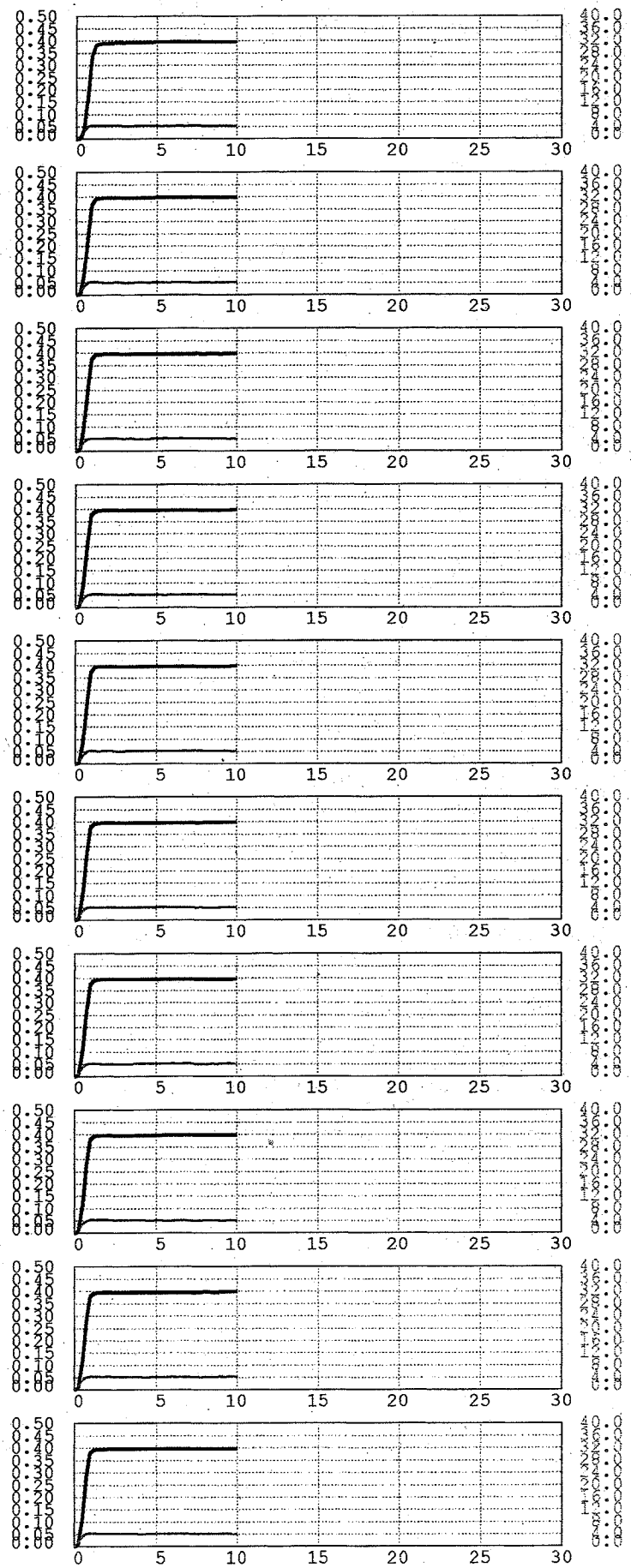
Date: 10/26/2007
Time: 10:11:55

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:12
INTERNAL STANDARD		PASSED	10:12
Xq = 0.1077	(0.08%)		
SIMULATOR VAPOR (33.8°C)		0.393	10:13
X[1] = 0.3937	(0.0026)	(-0.0008)	
SIMULATOR VAPOR (33.8°C)		0.395	10:14
X[1] = 0.3953	(0.0035)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.395	10:15
X[1] = 0.3951	(0.0032)	(-0.0006)	
SIMULATOR VAPOR (33.8°C)		0.395	10:16
X[1] = 0.3953	(0.0030)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.395	10:17
X[1] = 0.3951	(0.0029)	(-0.0003)	
SIMULATOR VAPOR (33.8°C)		0.395	10:18
X[1] = 0.3950	(0.0039)	(-0.0010)	
SIMULATOR VAPOR (33.9°C)		0.393	10:19
X[1] = 0.3939	(0.0013)	(-0.0012)	
SIMULATOR VAPOR (33.8°C)		0.395	10:20
X[1] = 0.3951	(0.0023)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.395	10:21
X[1] = 0.3951	(0.0029)	(-0.0003)	
SIMULATOR VAPOR (33.9°C)		0.394	10:22
X[1] = 0.3944	(0.0030)	(0.0001)	
BLANK TEST		0.000	10:22

Average = 0.3945
Std Dev = 0.0008



10/26/2007 10:23

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

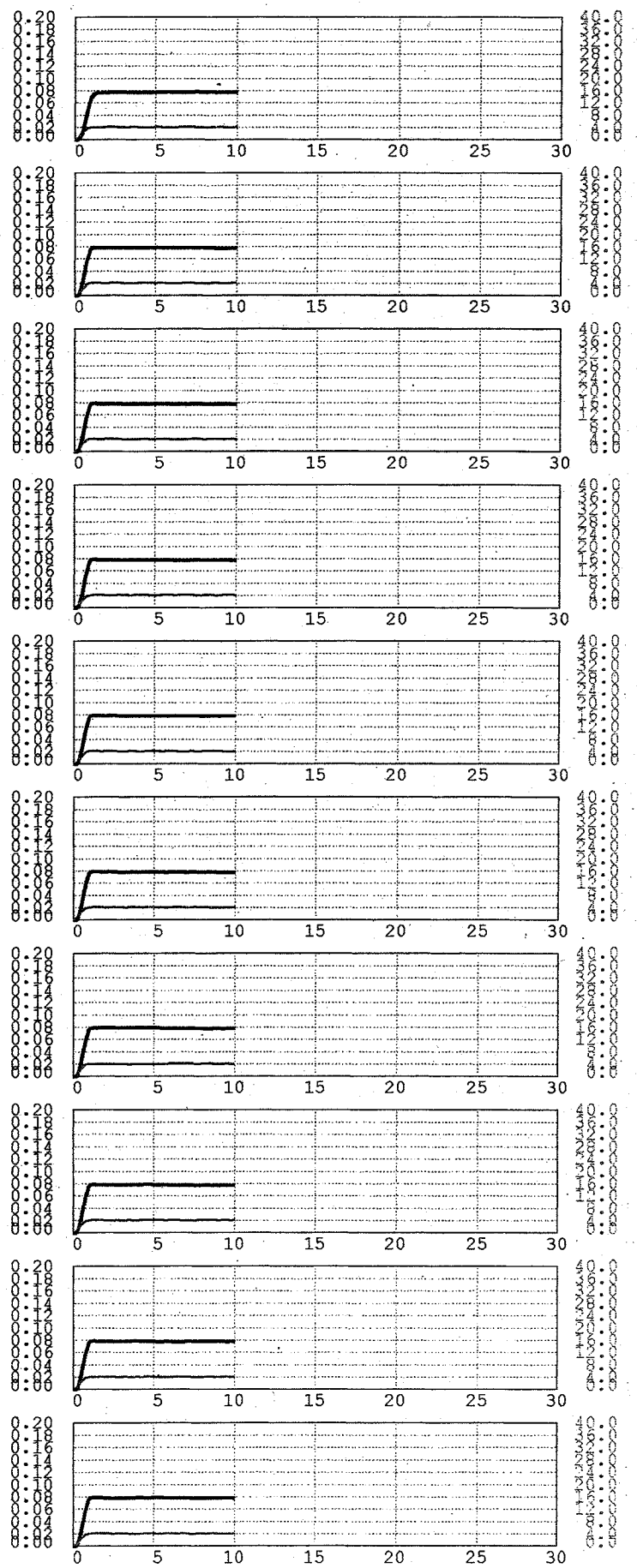
Date: 10/26/2007
Time: 10:27:08

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:28
INTERNAL STANDARD		PASSED	10:28
Xq = 0.1079 (0.08%)			
SIMULATOR VAPOR (33.9°C)		0.077	10:28
X[1] = 0.0778	(-0.0014)	(0.0000)	
SIMULATOR VAPOR (33.9°C)		0.077	10:29
X[1] = 0.0778	(-0.0014)	(-0.0005)	
SIMULATOR VAPOR (33.9°C)		0.078	10:30
X[1] = 0.0780	(-0.0008)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.077	10:31
X[1] = 0.0776	(-0.0012)	(-0.0002)	
SIMULATOR VAPOR (33.9°C)		0.078	10:32
X[1] = 0.0786	(-0.0006)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.078	10:33
X[1] = 0.0783	(-0.0005)	(0.0000)	
SIMULATOR VAPOR (33.9°C)		0.078	10:34
X[1] = 0.0780	(-0.0008)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.077	10:35
X[1] = 0.0779	(-0.0015)	(-0.0004)	
SIMULATOR VAPOR (33.9°C)		0.078	10:36
X[1] = 0.0780	(-0.0014)	(0.0001)	
SIMULATOR VAPOR (33.9°C)		0.077	10:37
X[1] = 0.0773	(-0.0016)	(0.0003)	
BLANK TEST		0.000	10:38

Average = 0.0775
Std Dev = 0.0005



10/26/2007 10:38

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 10/26/2007
Time: 10:42:26

SUPERVISOR NAME: A L B

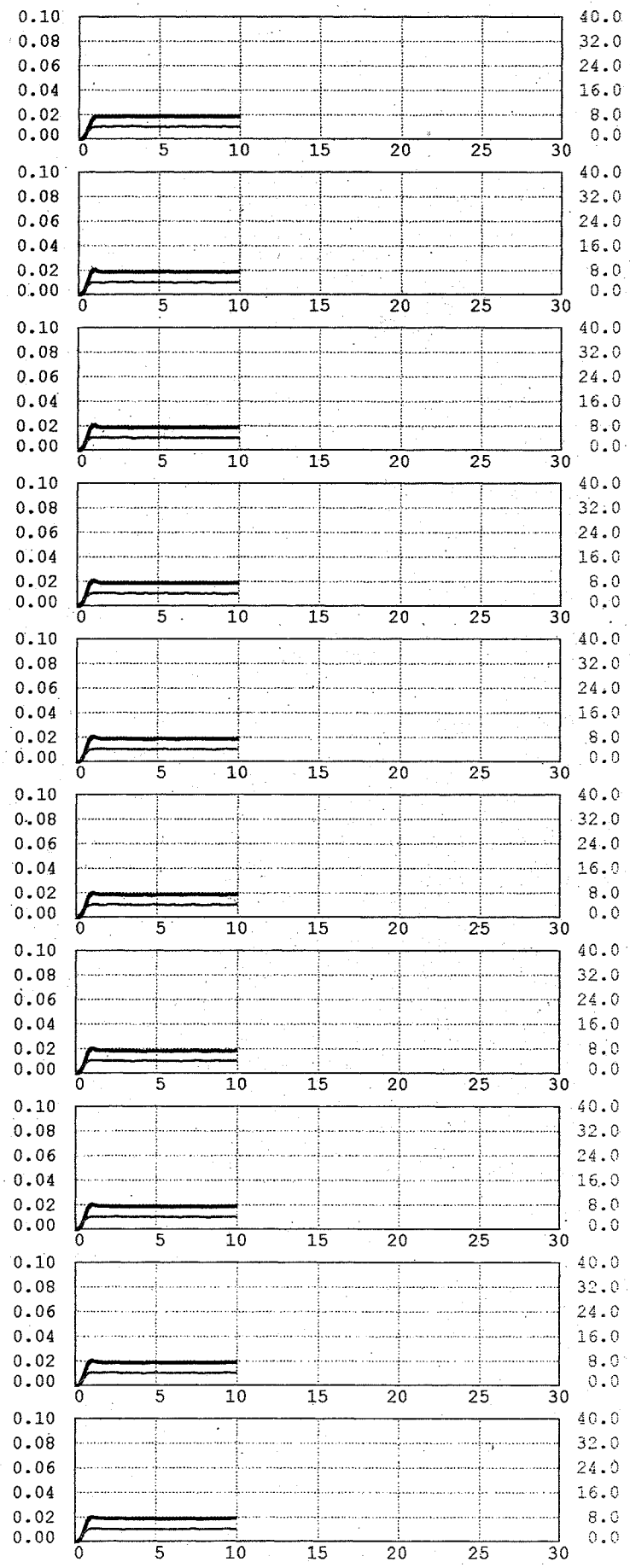
SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	10:43
INTERNAL STANDARD		PASSED	10:43
Xq = 0.1078 (0.00%)			
SIMULATOR VAPOR	(33.7°C)	0.018	10:43
X[1] = 0.0189	(-0.0009)	(-0.0003)	
SIMULATOR VAPOR	(33.7°C)	0.019	10:44
X[1] = 0.0192	(-0.0010)	(-0.0001)	
SIMULATOR VAPOR	(33.7°C)	0.018	10:45
X[1] = 0.0188	(-0.0013)	(-0.0001)	
SIMULATOR VAPOR	(33.7°C)	0.018	10:46
X[1] = 0.0188	(-0.0009)	(0.0001)	
SIMULATOR VAPOR	(33.7°C)	0.018	10:47
X[1] = 0.0187	(-0.0018)	(0.0005)	
SIMULATOR VAPOR	(33.7°C)	0.018	10:48
X[1] = 0.0185	(-0.0016)	(0.0003)	
SIMULATOR VAPOR	(33.6°C)	0.018	10:49
X[1] = 0.0183	(-0.0020)	(0.0002)	
SIMULATOR VAPOR	(33.7°C)	0.018	10:50
X[1] = 0.0189	(-0.0018)	(-0.0002)	
SIMULATOR VAPOR	(33.6°C)	0.019	10:51
X[1] = 0.0190	(-0.0015)	(0.0007)	
SIMULATOR VAPOR	(33.7°C)	0.018	10:52
X[1] = 0.0189	(-0.0014)	(0.0005)	
BLANK TEST		0.000	10:53

Average = 0.0182
Std Dev = 0.0004

88.8% recovery

ALB



10/26/2007 10:55

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

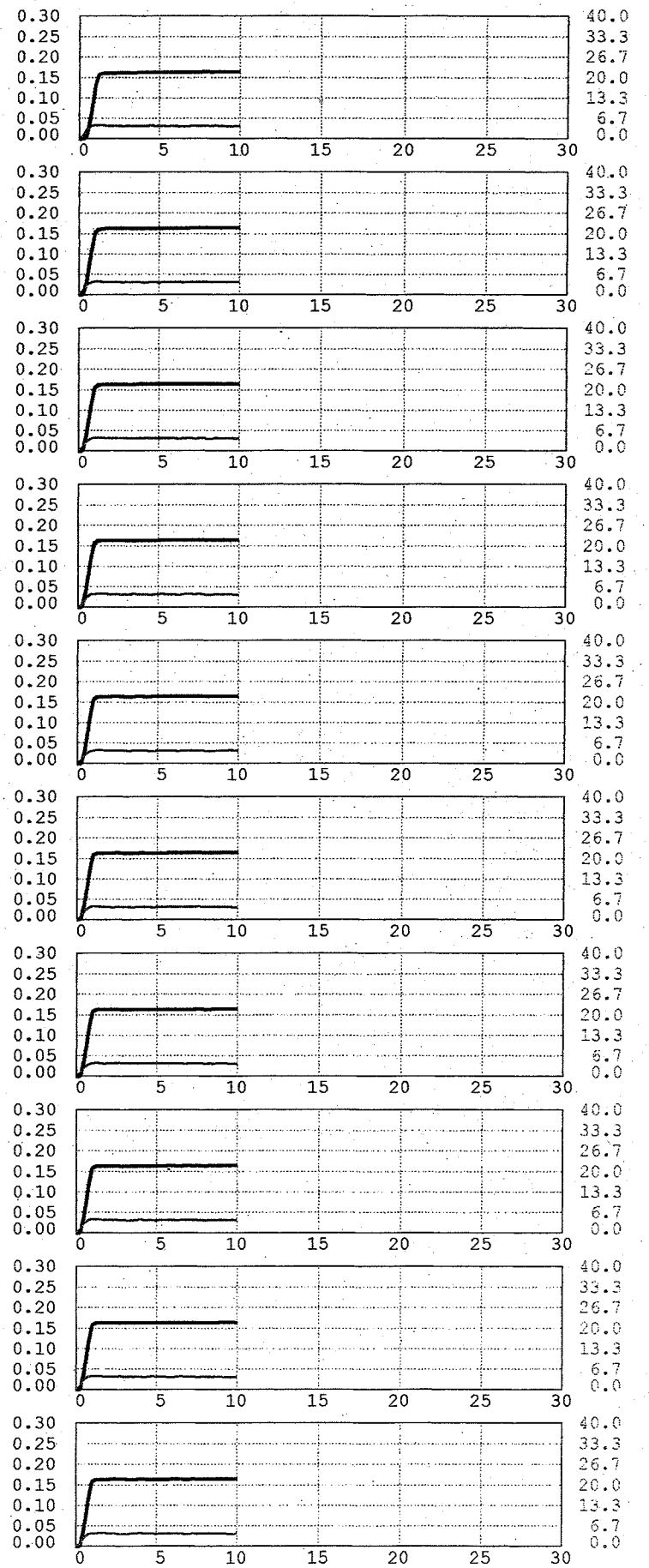
Date: 10/26/2007
Time: 10:58:55

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	10:59
INTERNAL STANDARD		PASSED	10:59
Xq = 0.1083 (0.41%)			
SIMULATOR VAPOR	(34.0°C)	0.162	11:00
X[1] = 0.1624	(0.0008)	(0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.163	11:01
X[1] = 0.1632	(0.0013)	(0.0015)	
SIMULATOR VAPOR	(34.0°C)	0.163	11:02
X[1] = 0.1634	(0.0014)	(0.0015)	
SIMULATOR VAPOR	(34.0°C)	0.163	11:03
X[1] = 0.1633	(0.0006)	(0.0014)	
SIMULATOR VAPOR	(34.0°C)	0.163	11:04
X[1] = 0.1633	(0.0010)	(0.0019)	
SIMULATOR VAPOR	(34.0°C)	0.163	11:05
X[1] = 0.1634	(0.0009)	(0.0020)	
SIMULATOR VAPOR	(34.0°C)	0.162	11:06
X[1] = 0.1629	(0.0004)	(0.0012)	
SIMULATOR VAPOR	(34.0°C)	0.163	11:07
X[1] = 0.1632	(0.0002)	(0.0019)	
SIMULATOR VAPOR	(34.0°C)	0.162	11:08
X[1] = 0.1625	(0.0000)	(0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.163	11:09
X[1] = 0.1630	(0.0004)	(0.0009)	
BLANK TEST		0.000	11:09

Average = 0.1627
Std Dev = 0.0005



10/26/2007 11:09

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/29/2007
Time: 10:15

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.8 C
Breath Tube    = 48.1 C
Simulator Hose =  0.0 C
Digital Sim    = 34.0 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 532.9 Hz

PUMP INFO
Flow Rate = 5.187 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1165   0.1148
MIN(V)   0.1124   0.1130

FILTER INFO
Filter 1  0.114  Zero = true
Filter 2  0.554  Zero = true
Filter 3  1.498  Zero = true

INTERNAL STANDARD
Xq = 0.1072  0.57%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

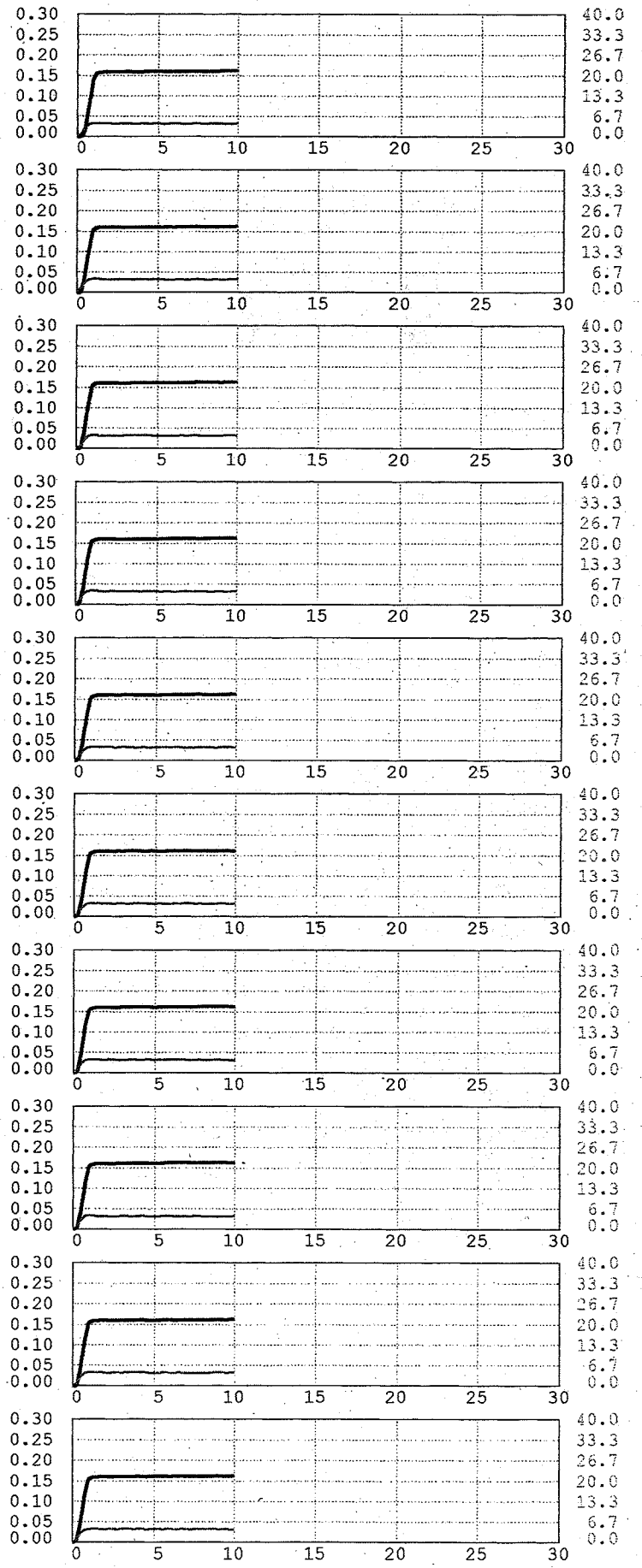
Date: 10/29/2007
Time: 10:18:11

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	10:19
INTERNAL STANDARD		PASSED	10:19
Xq = 0.1075 (0.33%)			
SIMULATOR VAPOR (34.0°C)		0.160	10:19
X[1] = 0.1604	(-0.0006)	(0.0007)	
SIMULATOR VAPOR (34.0°C)		0.161	10:20
X[1] = 0.1610	(0.0001)	(0.0000)	
SIMULATOR VAPOR (34.0°C)		0.161	10:21
X[1] = 0.1613	(-0.0003)	(-0.0007)	
SIMULATOR VAPOR (34.0°C)		0.161	10:22
X[1] = 0.1616	(-0.0003)	(0.0001)	
SIMULATOR VAPOR (34.1°C)		0.161	10:23
X[1] = 0.1615	(-0.0002)	(-0.0003)	
SIMULATOR VAPOR (34.0°C)		0.161	10:24
X[1] = 0.1611	(-0.0008)	(-0.0005)	
SIMULATOR VAPOR (34.0°C)		0.161	10:25
X[1] = 0.1617	(0.0004)	(-0.0004)	
SIMULATOR VAPOR (34.0°C)		0.161	10:26
X[1] = 0.1616	(-0.0003)	(-0.0006)	
SIMULATOR VAPOR (34.0°C)		0.161	10:27
X[1] = 0.1611	(-0.0010)	(0.0000)	
SIMULATOR VAPOR (34.0°C)		0.161	10:28
X[1] = 0.1615	(0.0003)	(0.0001)	
BLANK TEST		0.000	10:29

Average = 0.1609
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

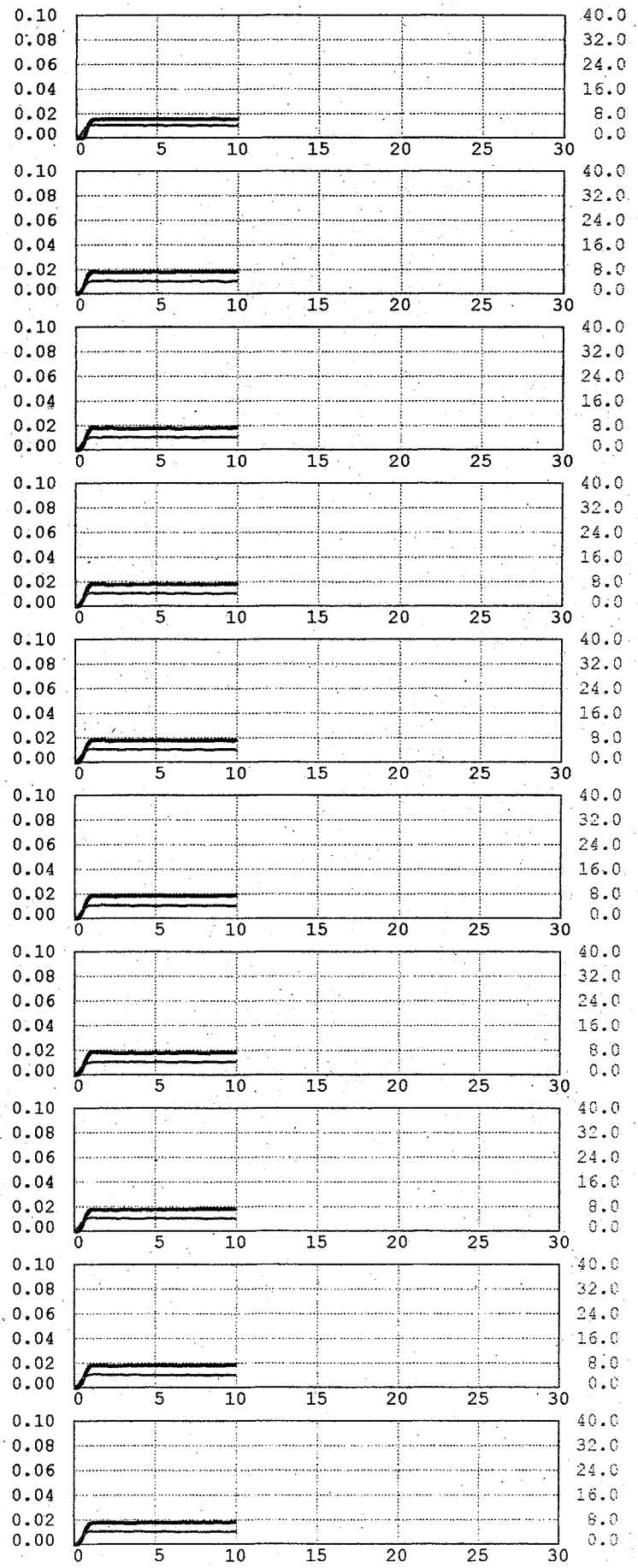
Date: 10/29/2007
Time: 10:37:33

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.021

BLANK TEST		0.000	10:38
INTERNAL STANDARD		PASSED	10:38
Xq = 0.1073 (0.49%)			
SIMULATOR VAPOR (33.7°C)		0.016	10:38
X[1] = 0.0162	(-0.0041)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.018	10:39
X[1] = 0.0184	(-0.0016)	(0.0005)	
SIMULATOR VAPOR (33.7°C)		0.018	10:40
X[1] = 0.0180	(-0.0021)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	10:41
X[1] = 0.0184	(-0.0017)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	10:42
X[1] = 0.0183	(-0.0018)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	10:43
X[1] = 0.0187	(-0.0012)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	10:44
X[1] = 0.0183	(-0.0022)	(-0.0004)	
SIMULATOR VAPOR (33.7°C)		0.018	10:45
X[1] = 0.0183	(-0.0020)	(0.0004)	
SIMULATOR VAPOR (33.7°C)		0.018	10:46
X[1] = 0.0183	(-0.0024)	(0.0007)	
SIMULATOR VAPOR (33.8°C)		0.018	10:47
X[1] = 0.0180	(-0.0021)	(0.0000)	
BLANK TEST		0.000	10:48

Average = 0.0178
Std Dev = 0.0006



10/29/2007 10:48

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

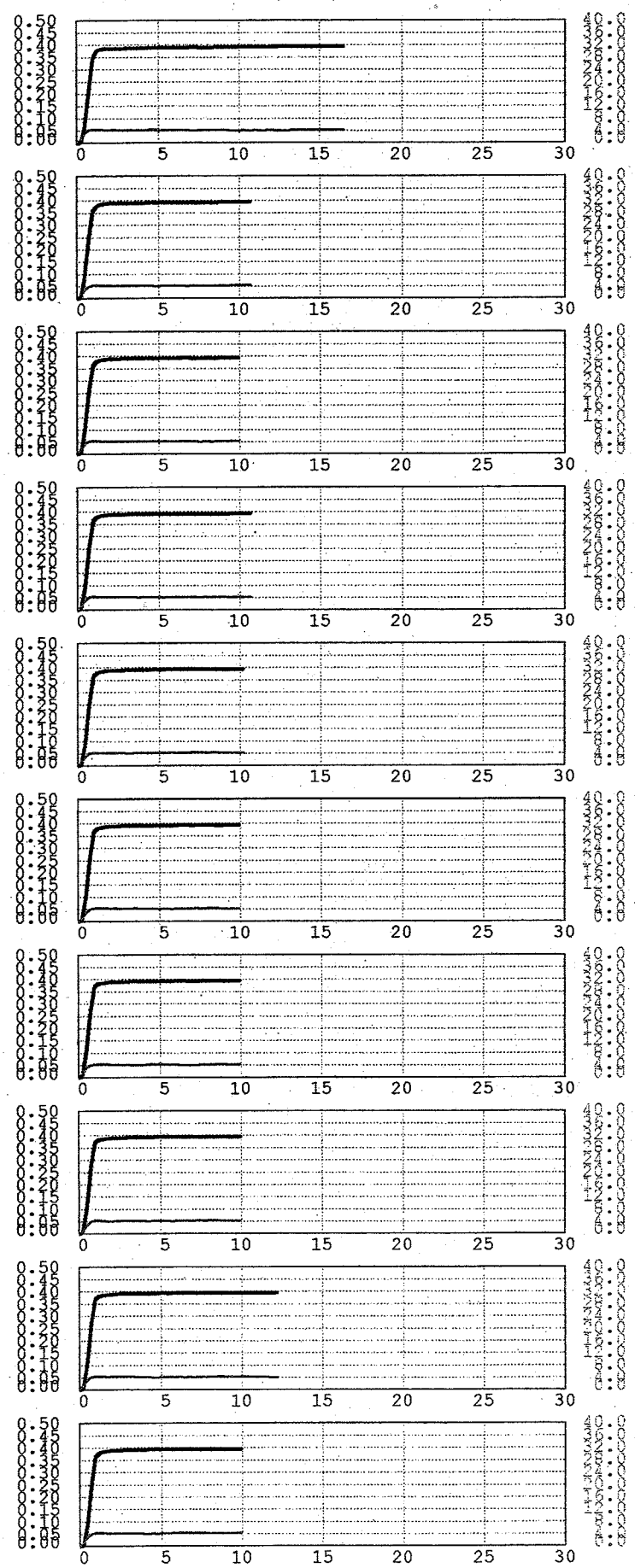
Date: 10/29/2007
Time: 10:54:23

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:55
INTERNAL STANDARD		PASSED	10:55
Xq = 0.1074	(0.41%)		
SIMULATOR VAPOR	(33.8°C)	0.391	10:55
X[1] = 0.3913	(0.0031)	(0.0020)	
SIMULATOR VAPOR	(33.9°C)	0.390	10:56
X[1] = 0.3907	(0.0029)	(0.0013)	
SIMULATOR VAPOR	(33.9°C)	0.390	10:57
X[1] = 0.3907	(0.0026)	(0.0015)	
SIMULATOR VAPOR	(33.8°C)	0.390	10:58
X[1] = 0.3907	(0.0027)	(0.0015)	
SIMULATOR VAPOR	(33.9°C)	0.391	10:59
X[1] = 0.3919	(0.0024)	(0.0024)	
SIMULATOR VAPOR	(33.9°C)	0.390	11:00
X[1] = 0.3909	(0.0036)	(0.0014)	
SIMULATOR VAPOR	(33.9°C)	0.390	11:01
X[1] = 0.3907	(0.0029)	(0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.391	11:02
X[1] = 0.3918	(0.0031)	(0.0021)	
SIMULATOR VAPOR	(33.8°C)	0.392	11:03
X[1] = 0.3925	(0.0028)	(0.0020)	
SIMULATOR VAPOR	(33.9°C)	0.392	11:05
X[1] = 0.3922	(0.0031)	(0.0025)	
BLANK TEST		0.000	11:06

Average = 0.3907
Std Dev = 0.0008



10/29/2007 11:08

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

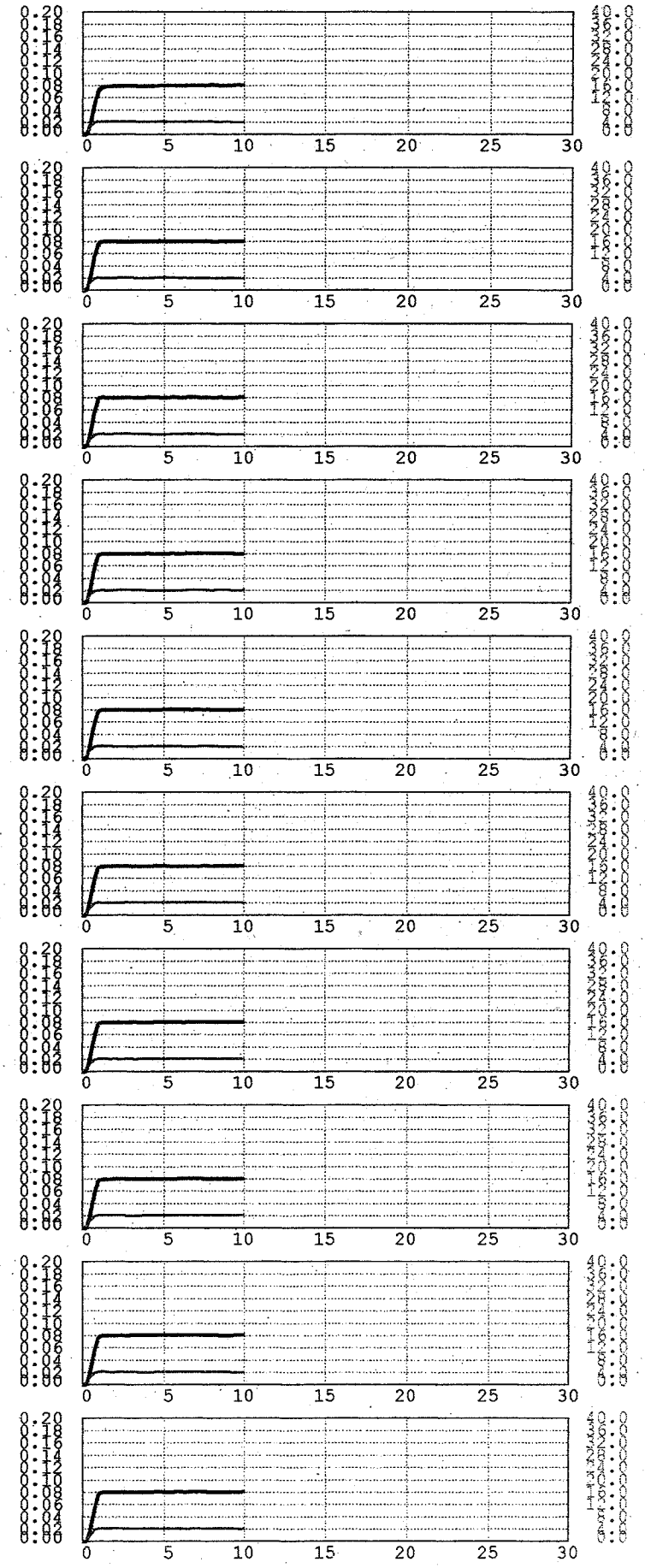
Date: 10/29/2007
Time: 11:13:30

SUPERVISOR NAME: H X B

SOLUTION LOT #: ~~07-08-080~~ 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	11:14
INTERNAL STANDARD		PASSED	11:14
Xq = 0.1074 (0.41%)			
SIMULATOR VAPOR (33.9°C)		0.080	11:14
X[1] = 0.0801	(-0.0007)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.079	11:15
X[1] = 0.0798	(-0.0014)	(-0.0001)	
SIMULATOR VAPOR (33.9°C)		0.081	11:17
X[1] = 0.0811	(-0.0011)	(0.0005)	
SIMULATOR VAPOR (33.9°C)		0.080	11:18
X[1] = 0.0805	(-0.0011)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.080	11:19
X[1] = 0.0808	(-0.0013)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.080	11:20
X[1] = 0.0806	(-0.0014)	(-0.0007)	
SIMULATOR VAPOR (33.9°C)		0.080	11:21
X[1] = 0.0806	(-0.0018)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.080	11:22
X[1] = 0.0803	(-0.0017)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.081	11:23
X[1] = 0.0812	(-0.0011)	(0.0005)	
SIMULATOR VAPOR (34.0°C)		0.080	11:24
X[1] = 0.0802	(-0.0019)	(0.0002)	
BLANK TEST		0.000	11:25

Average = 0.0801
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

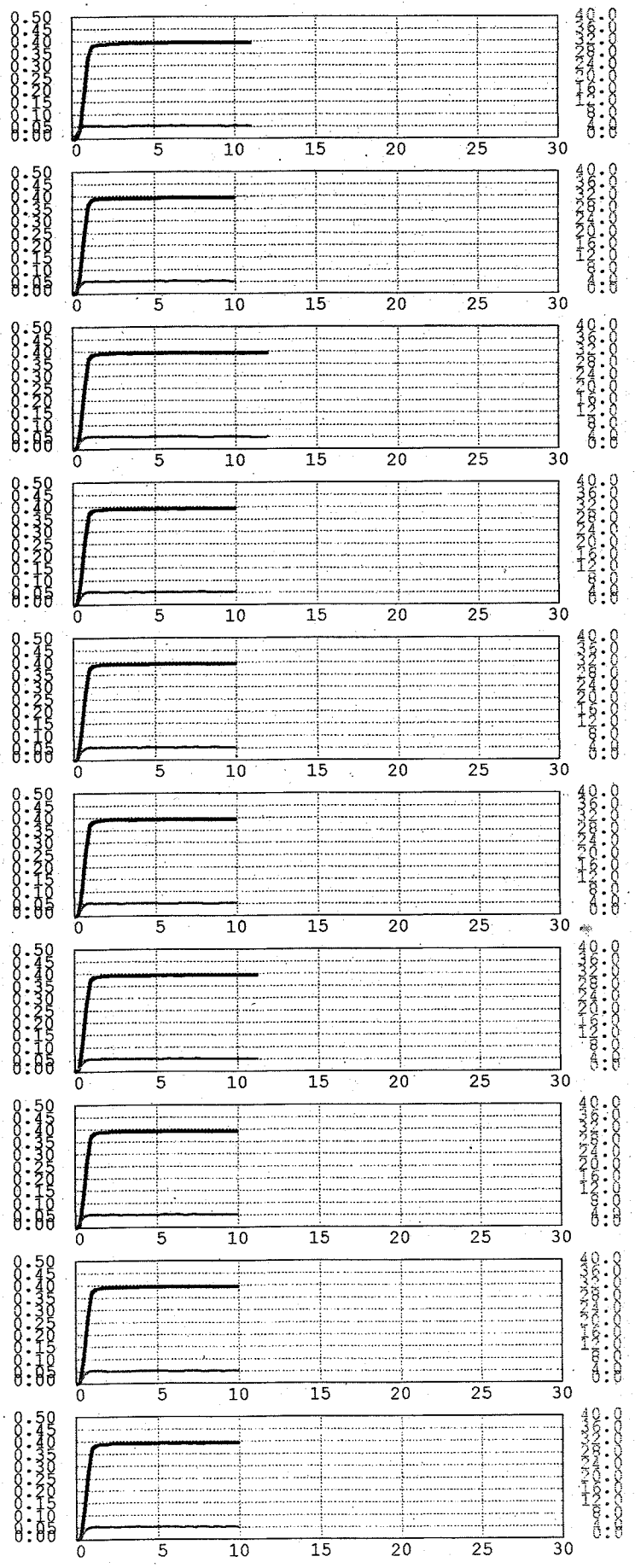
Date: 10/31/2007
Time: 09:03:45

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	09:04
INTERNAL STANDARD		PASSED	09:04
Xq = 0.1076	(0.25%)		
SIMULATOR VAPOR	(33.8°C)	0.391	09:05
X[1] = 0.3916	(0.0048)	(0.0007)	
SIMULATOR VAPOR	(33.9°C)	0.391	09:06
X[1] = 0.3913	(0.0034)	(0.0003)	
SIMULATOR VAPOR	(33.8°C)	0.391	09:07
X[1] = 0.3915	(0.0039)	(0.0002)	
SIMULATOR VAPOR	(33.8°C)	0.391	09:08
X[1] = 0.3913	(0.0039)	(-0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.391	09:09
X[1] = 0.3914	(0.0046)	(-0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.391	09:10
X[1] = 0.3911	(0.0040)	(-0.0002)	
SIMULATOR VAPOR	(33.9°C)	0.391	09:11
X[1] = 0.3914	(0.0037)	(-0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.390	09:12
X[1] = 0.3903	(0.0017)	(-0.0007)	
SIMULATOR VAPOR	(33.9°C)	0.390	09:13
X[1] = 0.3906	(0.0025)	(-0.0003)	
SIMULATOR VAPOR	(33.8°C)	0.391	09:13
X[1] = 0.3917	(0.0034)	(0.0001)	
BLANK TEST		0.000	09:14

Average = 0.3908
Std Dev = 0.0004



10/31/2007 10:58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

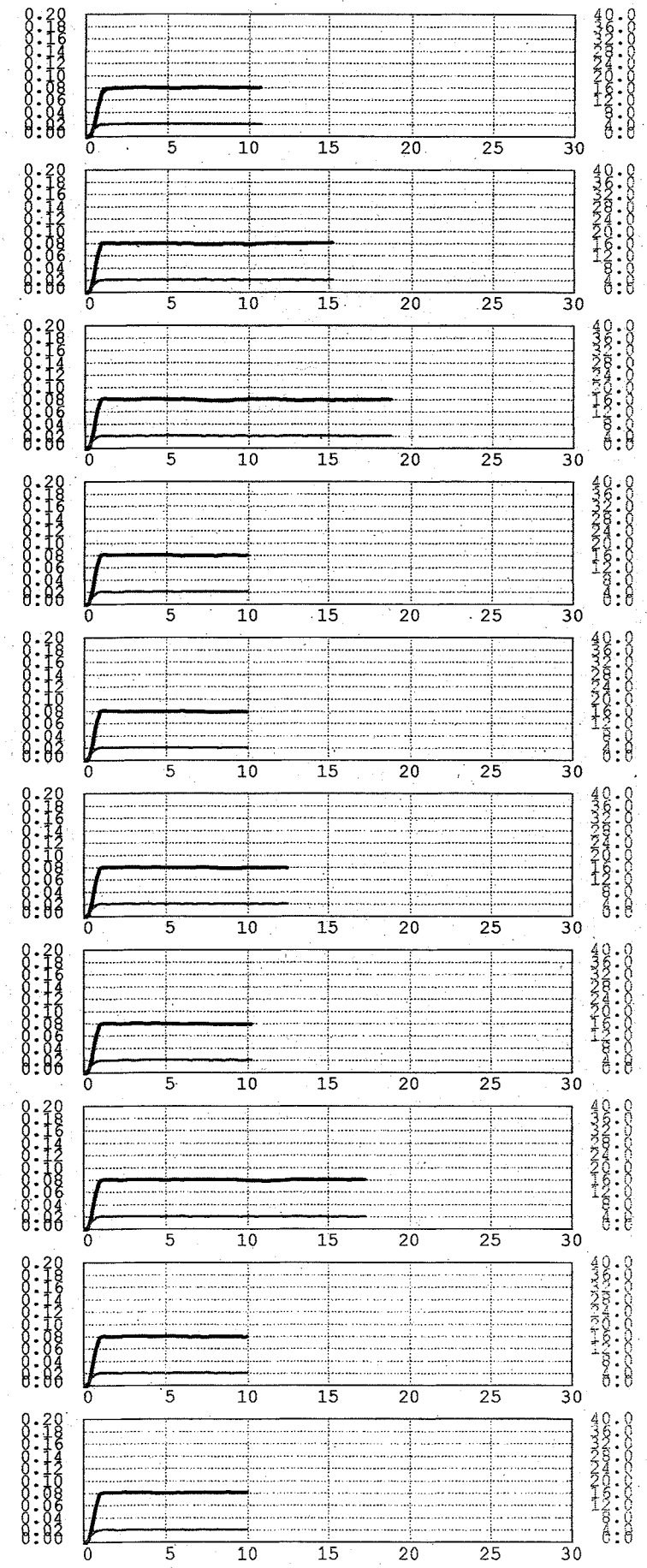
Date: 10/31/2007
Time: 09:21:03

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	09:21
INTERNAL STANDARD	PASSED	09:22
Xq = 0.1076 (0.25%)		
SIMULATOR VAPOR (33.9°C)	0.080	09:22
X[1] = 0.0807 (-0.0002) (0.0006)		
SIMULATOR VAPOR (33.9°C)	0.081	09:23
X[1] = 0.0812 (0.0001) (-0.0001)		
SIMULATOR VAPOR (33.8°C)	0.079	09:24
X[1] = 0.0799 (-0.0010) (-0.0005)		
SIMULATOR VAPOR (33.8°C)	0.081	09:25
X[1] = 0.0812 (-0.0004) (-0.0002)		
SIMULATOR VAPOR (33.9°C)	0.080	09:26
X[1] = 0.0800 (-0.0006) (-0.0004)		
SIMULATOR VAPOR (33.9°C)	0.080	09:27
X[1] = 0.0803 (-0.0005) (-0.0007)		
SIMULATOR VAPOR (33.9°C)	0.080	09:28
X[1] = 0.0803 (-0.0010) (0.0004)		
SIMULATOR VAPOR (33.9°C)	0.080	09:29
X[1] = 0.0807 (-0.0002) (-0.0001)		
SIMULATOR VAPOR (33.9°C)	0.081	09:30
X[1] = 0.0810 (-0.0003) (0.0002)		
SIMULATOR VAPOR (33.9°C)	0.080	09:31
X[1] = 0.0809 (-0.0007) (0.0003)		
BLANK TEST	0.000	09:32

Average = 0.0802
Std Dev = 0.0006



10/31/2007 10:59

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

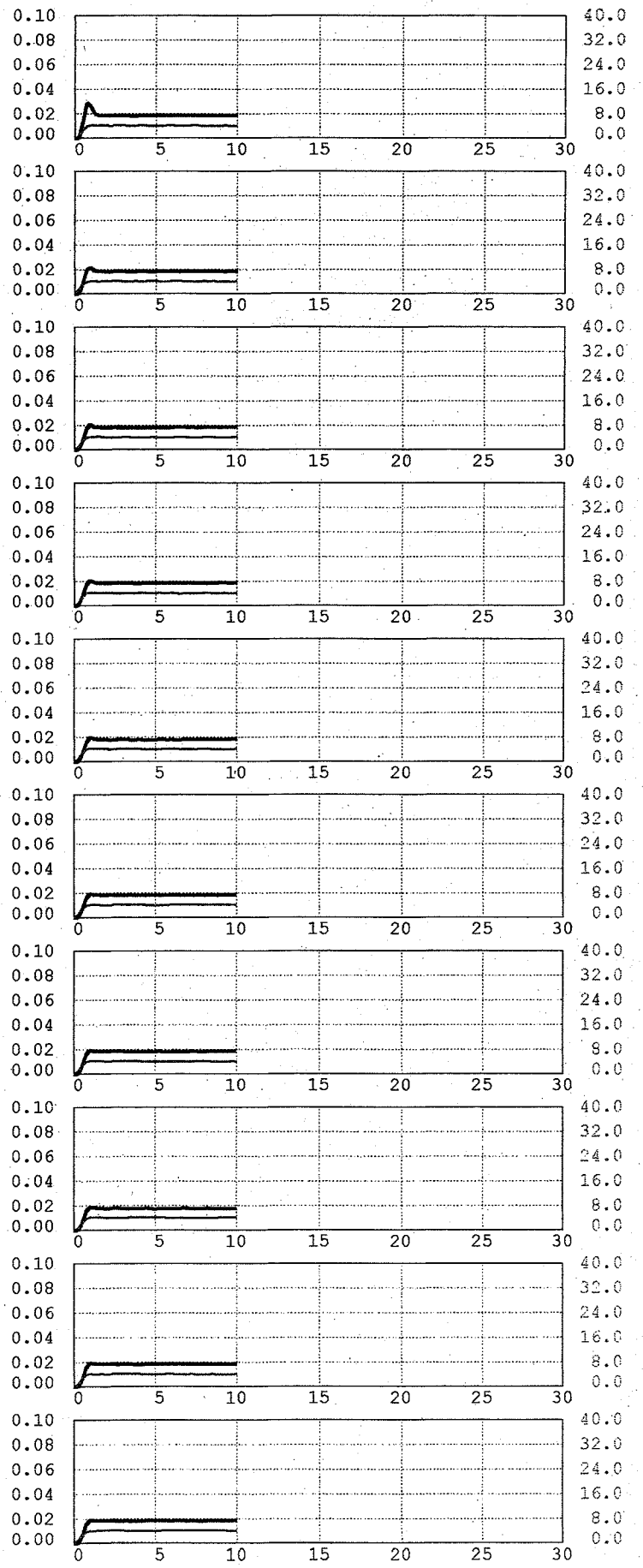
Date: 10/31/2007
Time: 09:55:16

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	09:56
INTERNAL STANDARD		PASSED	09:56
Xq = 0.1074 (0.41%)			
SIMULATOR VAPOR (33.7°C)		0.018	09:56
X[1] = 0.0189	(-0.0014)	(0.0012)	
SIMULATOR VAPOR (33.7°C)		0.018	09:57
X[1] = 0.0187	(-0.0015)	(0.0000)	
SIMULATOR VAPOR (33.7°C)		0.018	09:58
X[1] = 0.0188	(-0.0011)	(0.0007)	
SIMULATOR VAPOR (33.7°C)		0.019	09:59
X[1] = 0.0190	(-0.0008)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.018	10:00
X[1] = 0.0185	(-0.0014)	(-0.0005)	
SIMULATOR VAPOR (33.7°C)		0.018	10:01
X[1] = 0.0187	(-0.0010)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.018	10:02
X[1] = 0.0188	(-0.0016)	(0.0000)	
SIMULATOR VAPOR (33.7°C)		0.018	10:03
X[1] = 0.0181	(-0.0017)	(-0.0002)	
SIMULATOR VAPOR (33.8°C)		0.019	10:04
X[1] = 0.0190	(-0.0010)	(0.0008)	
SIMULATOR VAPOR (33.7°C)		0.018	10:05
X[1] = 0.0187	(-0.0012)	(0.0003)	
BLANK TEST		0.000	10:06

Average = 0.0182
Std Dev = 0.0004



10/31/2007 11:11

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

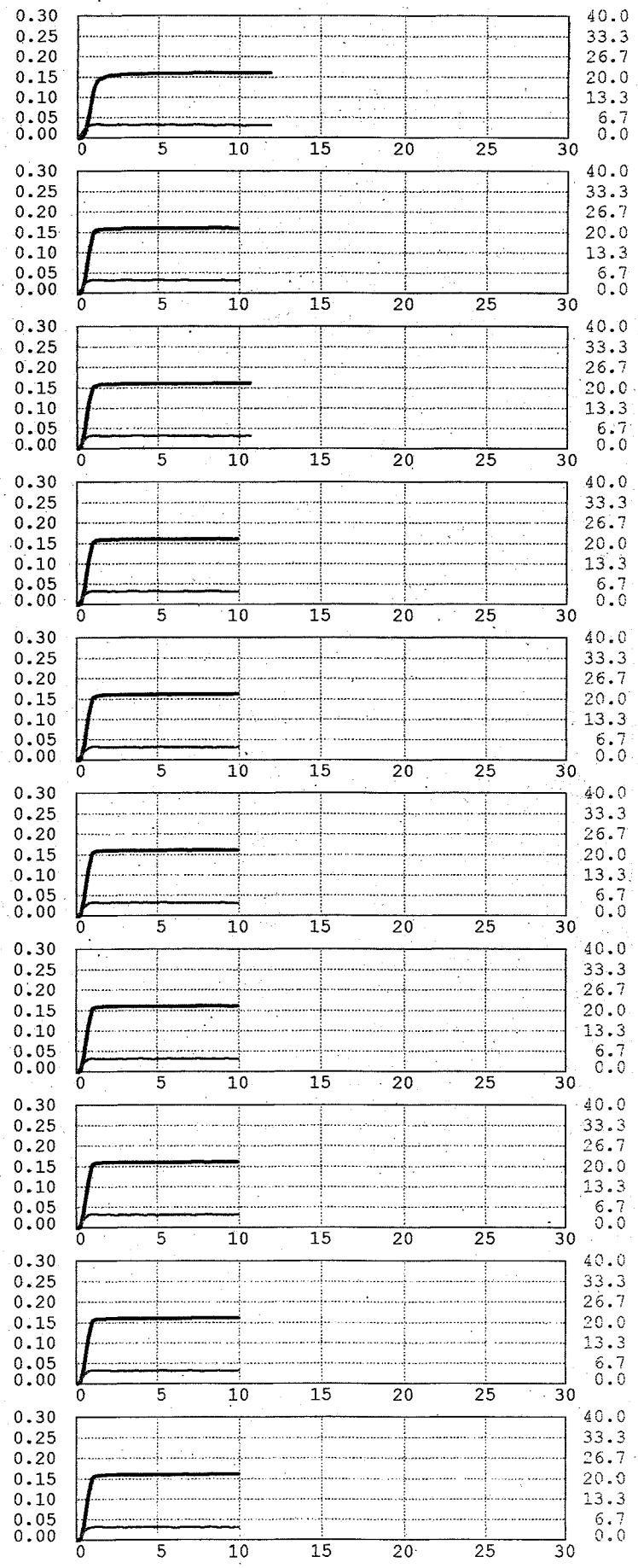
Date: 10/31/2007
Time: 10:25:07

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	10:26
INTERNAL STANDARD		PASSED	10:26
Xq = 0.1070 (0.74%)			
SIMULATOR VAPOR (34.0°C)		0.160	10:26
X[1] = 0.1601 (0.0006)	(0.0009)		
SIMULATOR VAPOR (34.0°C)		0.160	10:27
X[1] = 0.1604 (0.0009)	(0.0004)		
SIMULATOR VAPOR (33.9°C)		0.160	10:28
X[1] = 0.1606 (0.0004)	(0.0003)		
SIMULATOR VAPOR (34.0°C)		0.160	10:29
X[1] = 0.1606 (0.0003)	(0.0000)		
SIMULATOR VAPOR (34.0°C)		0.160	10:30
X[1] = 0.1609 (0.0002)	(0.0004)		
SIMULATOR VAPOR (34.0°C)		0.161	10:31
X[1] = 0.1612 (0.0004)	(0.0002)		
SIMULATOR VAPOR (34.0°C)		0.160	10:32
X[1] = 0.1607 (0.0001)	(0.0004)		
SIMULATOR VAPOR (34.0°C)		0.160	10:33
X[1] = 0.1605 (0.0000)	(0.0003)		
SIMULATOR VAPOR (34.0°C)		0.160	10:34
X[1] = 0.1608 (0.0001)	(0.0002)		
SIMULATOR VAPOR (34.0°C)		0.160	10:35
X[1] = 0.1604 (-0.0002)	(0.0004)		
BLANK TEST		0.000	10:35

Average = 0.1601
Std Dev = 0.0003



10/31/2007 11:12

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/06/2007
Time: 09:56

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 48.1 C
Simulator Hose =  0.0 C
Digital Sim    = 34.0 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 533.5 Hz

PUMP INFO
Flow Rate = 5.076 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.1140    0.1152
MIN(V)   0.1118    0.1130

FILTER INFO
Filter 1  0.115  Zero = true
Filter 2  0.562  Zero = true
Filter 3  1.496  Zero = true

INTERNAL STANDARD
Xq = 0.1085  0.65%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

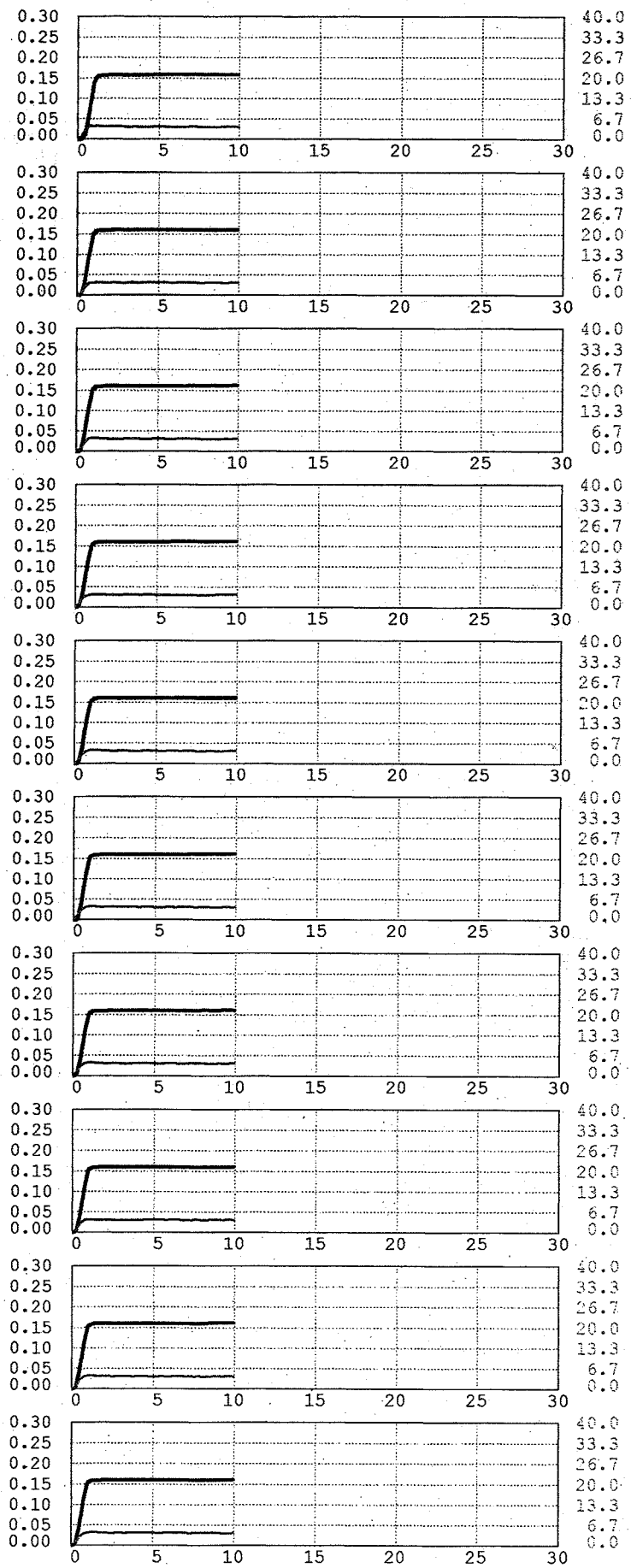
Date: 11/06/2007
Time: 09:57:53

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	09:58
INTERNAL STANDARD		PASSED	09:58
Xq = 0.1069 (0.90%)			
SIMULATOR VAPOR (34.0°C)		0.158	09:59
X[1] = 0.1582	(-0.0024)	(-0.0012)	
SIMULATOR VAPOR (34.0°C)		0.159	10:00
X[1] = 0.1596	(-0.0001)	(-0.0003)	
SIMULATOR VAPOR (34.1°C)		0.161	10:01
X[1] = 0.1610	(0.0003)	(-0.0008)	
SIMULATOR VAPOR (34.0°C)		0.160	10:02
X[1] = 0.1607	(-0.0002)	(-0.0008)	
SIMULATOR VAPOR (34.0°C)		0.161	10:03
X[1] = 0.1610	(0.0005)	(-0.0007)	
SIMULATOR VAPOR (34.0°C)		0.160	10:04
X[1] = 0.1607	(-0.0001)	(-0.0003)	
SIMULATOR VAPOR (34.0°C)		0.160	10:05
X[1] = 0.1606	(0.0000)	(-0.0002)	
SIMULATOR VAPOR (34.0°C)		0.160	10:06
X[1] = 0.1603	(0.0003)	(-0.0009)	
SIMULATOR VAPOR (34.0°C)		0.160	10:06
X[1] = 0.1609	(0.0007)	(-0.0004)	
SIMULATOR VAPOR (34.0°C)		0.160	10:07
X[1] = 0.1604	(-0.0005)	(-0.0001)	
BLANK TEST		0.000	10:08

Average = 0.1599
Std Dev = 0.0009



11/06/2007 10:08

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

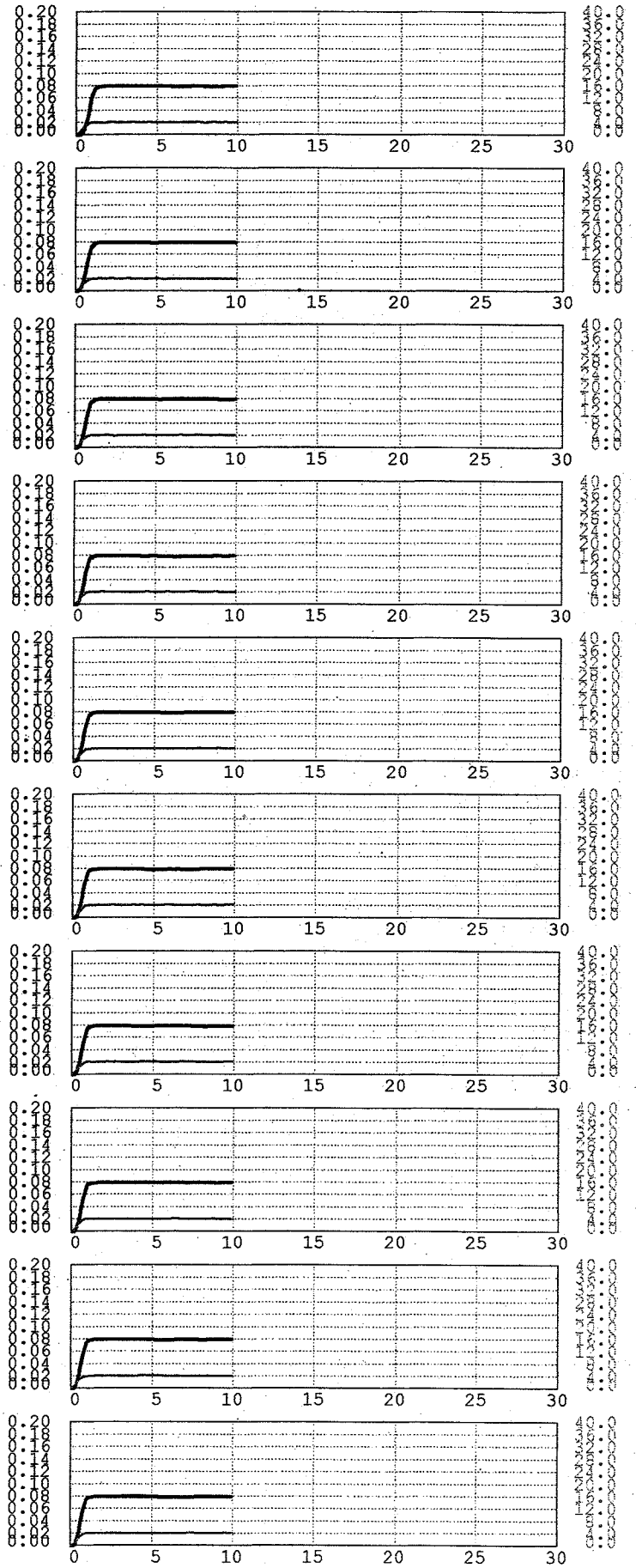
Date: 11/06/2007
Time: 10:17:01

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:17
INTERNAL STANDARD		PASSED	10:18
Xq = 0.1076 (0.25%)			
SIMULATOR VAPOR	(33.9°C)	0.078	10:18
X[1] = 0.0788	(0.0001)	(0.0004)	
SIMULATOR VAPOR	(33.8°C)	0.078	10:19
X[1] = 0.0785	(-0.0004)	(-0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:20
X[1] = 0.0790	(-0.0005)	(-0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:21
X[1] = 0.0791	(-0.0011)	(-0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:22
X[1] = 0.0787	(-0.0008)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:23
X[1] = 0.0783	(-0.0013)	(-0.0002)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:24
X[1] = 0.0785	(-0.0012)	(-0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:25
X[1] = 0.0789	(-0.0011)	(-0.0002)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:26
X[1] = 0.0790	(-0.0002)	(0.0000)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:27
X[1] = 0.0793	(-0.0006)	(0.0001)	
BLANK TEST		0.000	10:27

Average = 0.0784
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

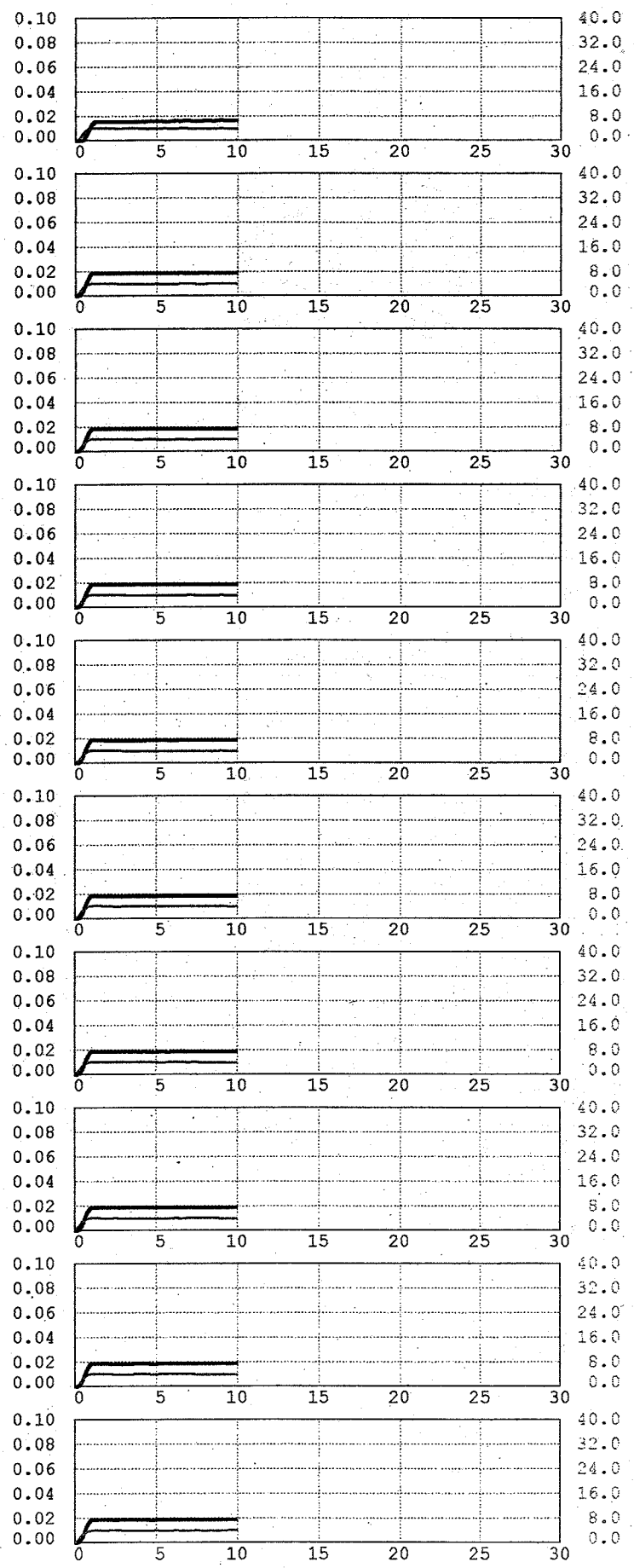
Date: 11/06/2007
Time: 10:36:49

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	10:37
INTERNAL STANDARD		PASSED	10:37
Xq = 0.1073 (0.49%)			
SIMULATOR VAPOR (33.8°C)		0.016	10:38
X[1] = 0.0162	(-0.0031)	(-0.0011)	
SIMULATOR VAPOR (33.8°C)		0.018	10:39
X[1] = 0.0189	(-0.0008)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	10:40
X[1] = 0.0188	(-0.0010)	(-0.0005)	
SIMULATOR VAPOR (33.7°C)		0.018	10:41
X[1] = 0.0189	(-0.0006)	(0.0007)	
SIMULATOR VAPOR (33.7°C)		0.018	10:42
X[1] = 0.0185	(-0.0010)	(0.0005)	
SIMULATOR VAPOR (33.8°C)		0.018	10:43
X[1] = 0.0185	(-0.0013)	(0.0002)	
SIMULATOR VAPOR (33.7°C)		0.018	10:44
X[1] = 0.0185	(-0.0015)	(0.0000)	
SIMULATOR VAPOR (33.7°C)		0.018	10:44
X[1] = 0.0187	(-0.0012)	(0.0002)	
SIMULATOR VAPOR (33.7°C)		0.018	10:45
X[1] = 0.0187	(-0.0015)	(0.0007)	
SIMULATOR VAPOR (33.7°C)		0.018	10:46
X[1] = 0.0185	(-0.0016)	(-0.0003)	
BLANK TEST		0.000	10:47

Average = 0.0178
Std Dev = 0.0006



11/06/2007 10:47

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

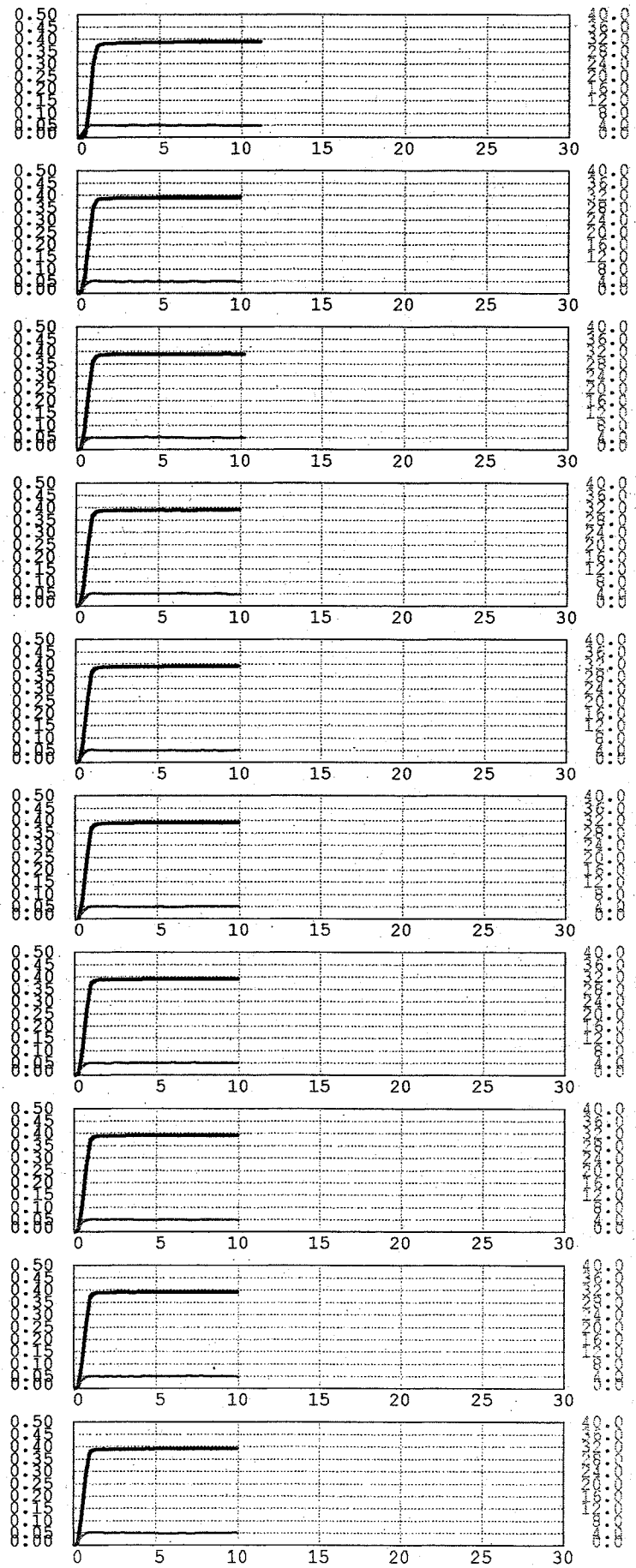
Date: 11/06/2007
Time: 10:54:32

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:55
INTERNAL STANDARD		PASSED	10:55
Xq = 0.1077	(0.16%)		
SIMULATOR VAPOR (33.8°C)		0.388	10:55
X[1] = 0.3881	(0.0044)	(0.0045)	
SIMULATOR VAPOR (33.8°C)		0.389	10:57
X[1] = 0.3892	(0.0042)	(0.0047)	
SIMULATOR VAPOR (33.8°C)		0.388	10:58
X[1] = 0.3888	(0.0046)	(0.0047)	
SIMULATOR VAPOR (33.9°C)		0.389	10:59
X[1] = 0.3898	(0.0051)	(0.0050)	
SIMULATOR VAPOR (33.8°C)		0.390	11:00
X[1] = 0.3900	(0.0049)	(0.0051)	
SIMULATOR VAPOR (33.8°C)		0.390	11:00
X[1] = 0.3901	(0.0036)	(0.0046)	
SIMULATOR VAPOR (33.8°C)		0.390	11:01
X[1] = 0.3900	(0.0045)	(0.0051)	
SIMULATOR VAPOR (33.9°C)		0.390	11:02
X[1] = 0.3900	(0.0047)	(0.0052)	
SIMULATOR VAPOR (33.8°C)		0.390	11:03
X[1] = 0.3902	(0.0053)	(0.0048)	
SIMULATOR VAPOR (33.8°C)		0.390	11:04
X[1] = 0.3901	(0.0032)	(0.0048)	
BLANK TEST		0.000	11:05

Average = 0.3894
Std Dev = 0.0008



11/06/2007 11:05

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

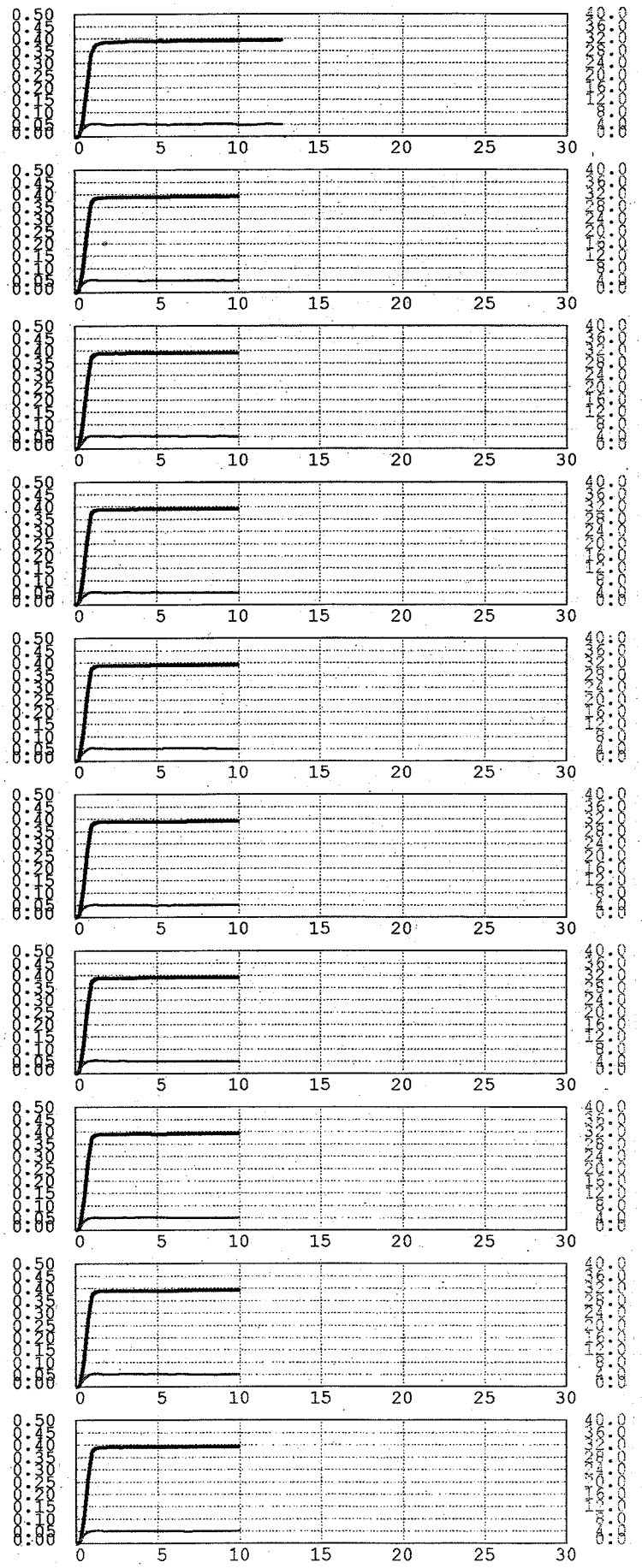
Date: 11/06/2007
Time: 11:25:17

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	11:26
INTERNAL STANDARD		PASSED	11:26
Xq = 0.1073	(0.49%)		
SIMULATOR VAPOR (33.9°C)		0.390	11:26
X[1] = 0.3905	(0.0040)	(0.0052)	
SIMULATOR VAPOR (33.9°C)		0.389	11:27
X[1] = 0.3891	(0.0034)	(0.0041)	
SIMULATOR VAPOR (33.8°C)		0.390	11:28
X[1] = 0.3901	(0.0048)	(0.0038)	
SIMULATOR VAPOR (33.8°C)		0.389	11:29
X[1] = 0.3897	(0.0041)	(0.0042)	
SIMULATOR VAPOR (33.9°C)		0.389	11:30
X[1] = 0.3896	(0.0039)	(0.0039)	
SIMULATOR VAPOR (33.9°C)		0.389	11:31
X[1] = 0.3893	(0.0033)	(0.0041)	
SIMULATOR VAPOR (33.9°C)		0.390	11:32
X[1] = 0.3900	(0.0035)	(0.0037)	
SIMULATOR VAPOR (33.8°C)		0.389	11:33
X[1] = 0.3894	(0.0038)	(0.0024)	
SIMULATOR VAPOR (33.8°C)		0.389	11:34
X[1] = 0.3895	(0.0038)	(0.0038)	
SIMULATOR VAPOR (33.9°C)		0.389	11:35
X[1] = 0.3899	(0.0038)	(0.0039)	
BLANK TEST		0.000	11:36

Average = 0.3893
Std Dev = 0.0005



11/06/2007 11:40

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 11/06/2007
Time: 11:51:54

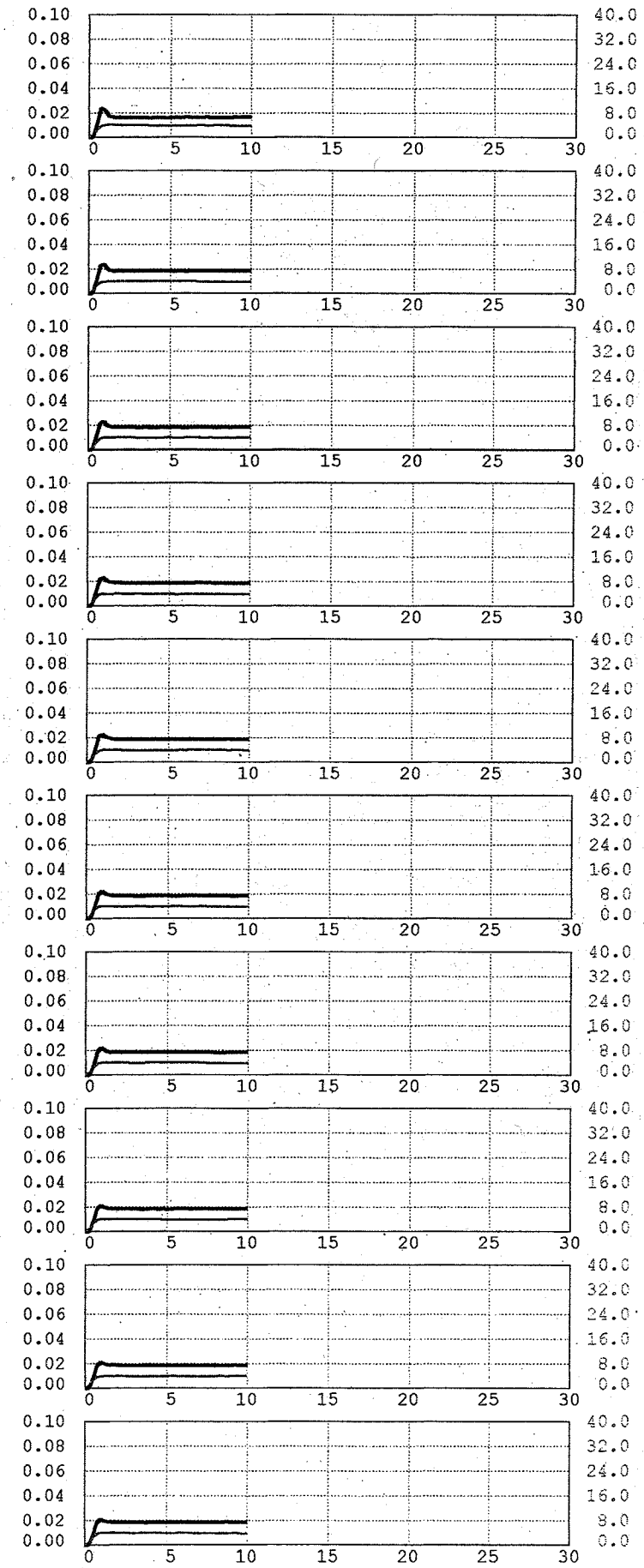
SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	11:52
INTERNAL STANDARD		PASSED	11:52
Xq = 0.1079 (0.08%)			
SIMULATOR VAPOR (33.7°C)		0.017	11:53
X[1] = 0.0170	(-0.0029)	(-0.0005)	
SIMULATOR VAPOR (33.7°C)		0.018	11:54
X[1] = 0.0188	(-0.0014)	(0.0002)	
SIMULATOR VAPOR (33.7°C)		0.018	11:55
X[1] = 0.0187	(-0.0016)	(0.0002)	
SIMULATOR VAPOR (33.7°C)		0.019	11:56
X[1] = 0.0191	(-0.0009)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.019	11:57
X[1] = 0.0192	(-0.0006)	(-0.0002)	
SIMULATOR VAPOR (33.7°C)		0.018	11:58
X[1] = 0.0185	(-0.0020)	(0.0000)	
SIMULATOR VAPOR (33.7°C)		0.018	11:59
X[1] = 0.0188	(-0.0012)	(0.0001)	
SIMULATOR VAPOR (33.7°C)		0.018	12:00
X[1] = 0.0187	(-0.0016)	(0.0003)	
SIMULATOR VAPOR (33.7°C)		0.019	12:00
X[1] = 0.0192	(-0.0009)	(-0.0001)	
SIMULATOR VAPOR (33.7°C)		0.018	12:01
X[1] = 0.0189	(-0.0015)	(0.0000)	
BLANK TEST		0.000	12:02

Average = 0.0182
Std Dev = 0.0006

89% recovery
DMR 11/6/07



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

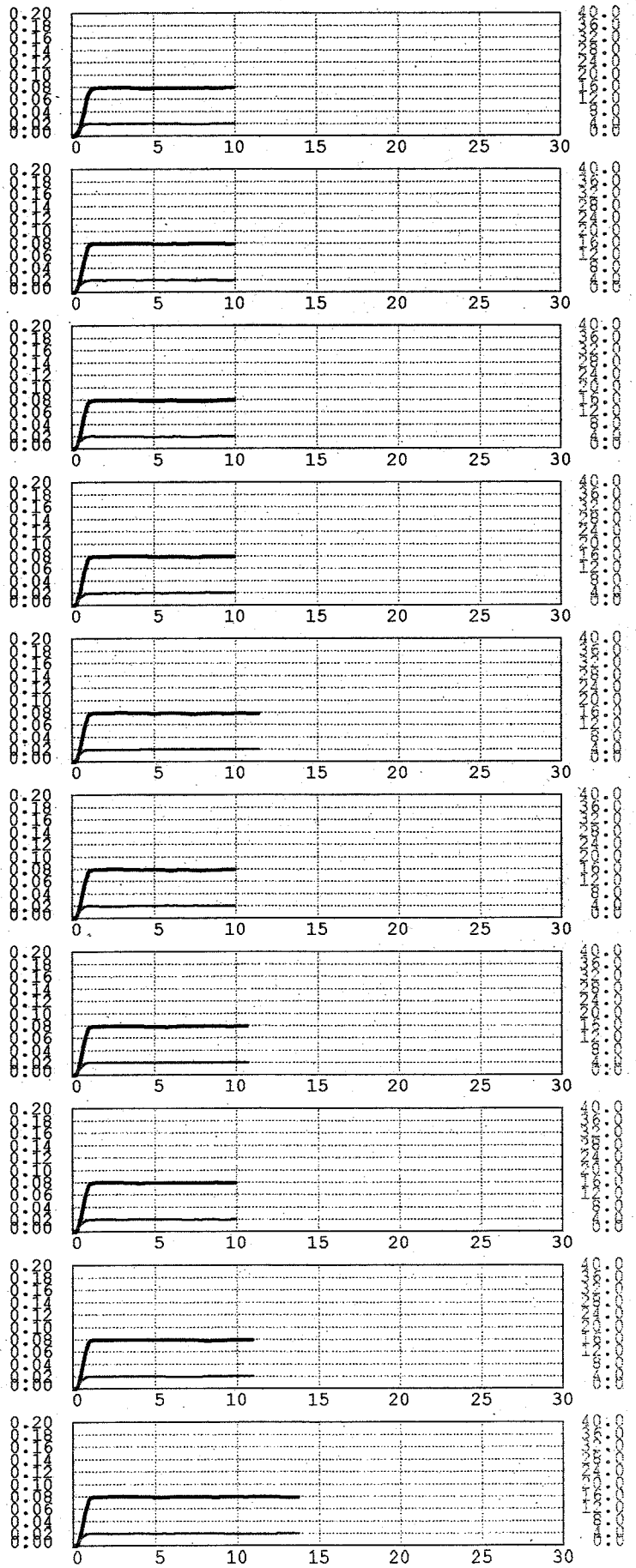
Date: 11/06/2007
Time: 12:10:07

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	12:11
INTERNAL STANDARD		PASSED	12:11
Xq = 0.1074 (0.41%)			
SIMULATOR VAPOR (33.9°C)		0.078	12:11
X[1] = 0.0788	(-0.0011)	(0.0015)	
SIMULATOR VAPOR (33.9°C)		0.078	12:12
X[1] = 0.0785	(-0.0012)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.078	12:13
X[1] = 0.0784	(-0.0016)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.077	12:14
X[1] = 0.0779	(-0.0008)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.078	12:15
X[1] = 0.0780	(-0.0007)	(0.0009)	
SIMULATOR VAPOR (33.8°C)		0.078	12:16
X[1] = 0.0783	(-0.0008)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.078	12:17
X[1] = 0.0786	(-0.0012)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.079	12:18
X[1] = 0.0790	(-0.0010)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.078	12:19
X[1] = 0.0784	(-0.0008)	(0.0007)	
SIMULATOR VAPOR (33.8°C)		0.077	12:20
X[1] = 0.0778	(-0.0007)	(0.0005)	
BLANK TEST		0.000	12:21

Average = 0.0779
Std Dev = 0.0006



11/06/2007 12:21

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

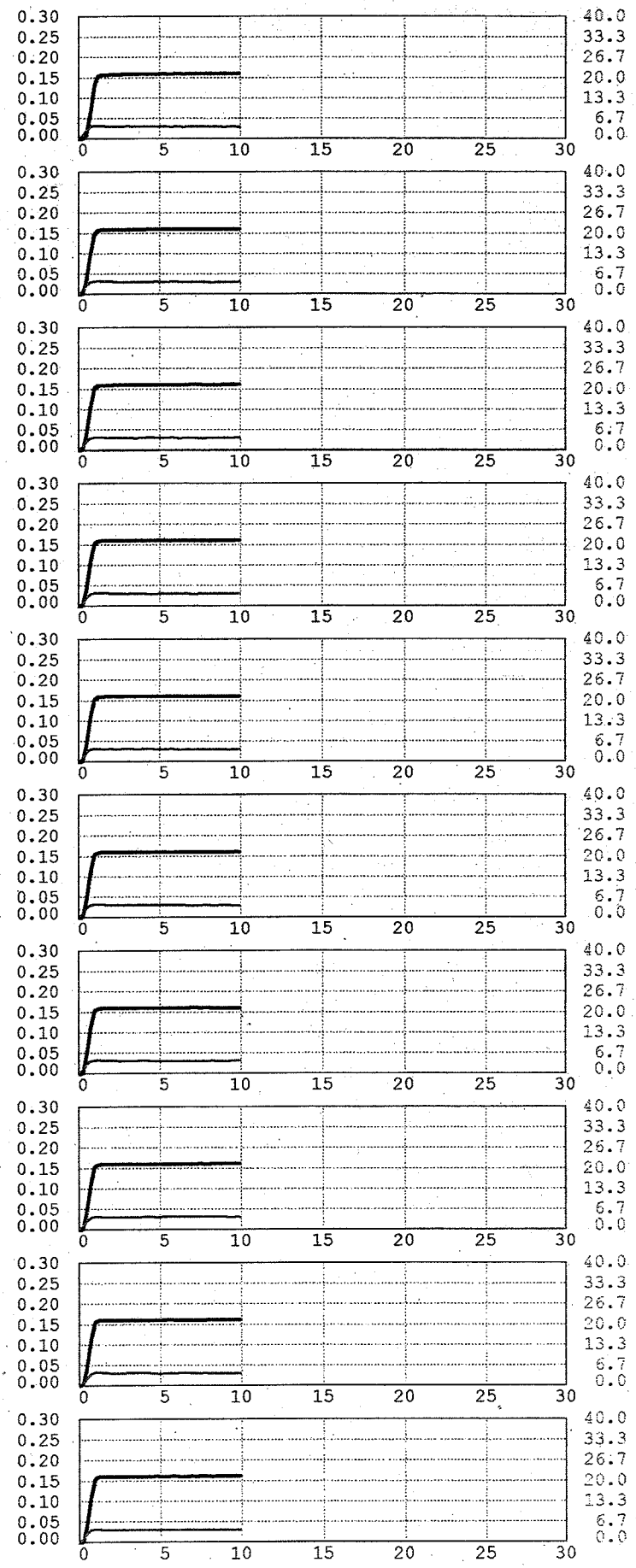
Date: 11/06/2007
Time: 12:28:53

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	12:29
INTERNAL STANDARD		PASSED	12:29
Xq = 0.1074 (0.41%)			
SIMULATOR VAPOR (34.0°C)		0.159	12:30
X[1] = 0.1596	(0.0012)	(0.0022)	
SIMULATOR VAPOR (34.0°C)		0.159	12:31
X[1] = 0.1597	(0.0001)	(0.0018)	
SIMULATOR VAPOR (33.9°C)		0.160	12:32
X[1] = 0.1600	(0.0006)	(0.0016)	
SIMULATOR VAPOR (34.0°C)		0.160	12:33
X[1] = 0.1603	(0.0003)	(0.0017)	
SIMULATOR VAPOR (34.0°C)		0.160	12:34
X[1] = 0.1600	(-0.0007)	(0.0015)	
SIMULATOR VAPOR (34.0°C)		0.160	12:35
X[1] = 0.1601	(-0.0001)	(0.0016)	
SIMULATOR VAPOR (34.0°C)		0.160	12:36
X[1] = 0.1602	(0.0003)	(0.0018)	
SIMULATOR VAPOR (34.0°C)		0.160	12:37
X[1] = 0.1606	(0.0003)	(0.0015)	
SIMULATOR VAPOR (34.0°C)		0.160	12:38
X[1] = 0.1606	(0.0003)	(0.0016)	
SIMULATOR VAPOR (34.0°C)		0.160	12:39
X[1] = 0.1607	(-0.0001)	(0.0022)	
BLANK TEST		0.000	12:39

Average = 0.1598
Std Dev = 0.0004



11/06/2007 12:41

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/07/2007
Time: 07:33

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube    = 47.8 C
Simulator Hose =  0.0 C
Digital Sim    = 34.0 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 533.1 Hz

PUMP INFO
Flow Rate = 5.127 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1140   0.1150
MIN(V)   0.1122   0.1130

FILTER INFO
Filter 1  0.114  Zero = true
Filter 2  0.559  Zero = true
Filter 3  1.490  Zero = true

INTERNAL STANDARD
Xq = 0.1078  0.00%
```

11/07/2007 07:44

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

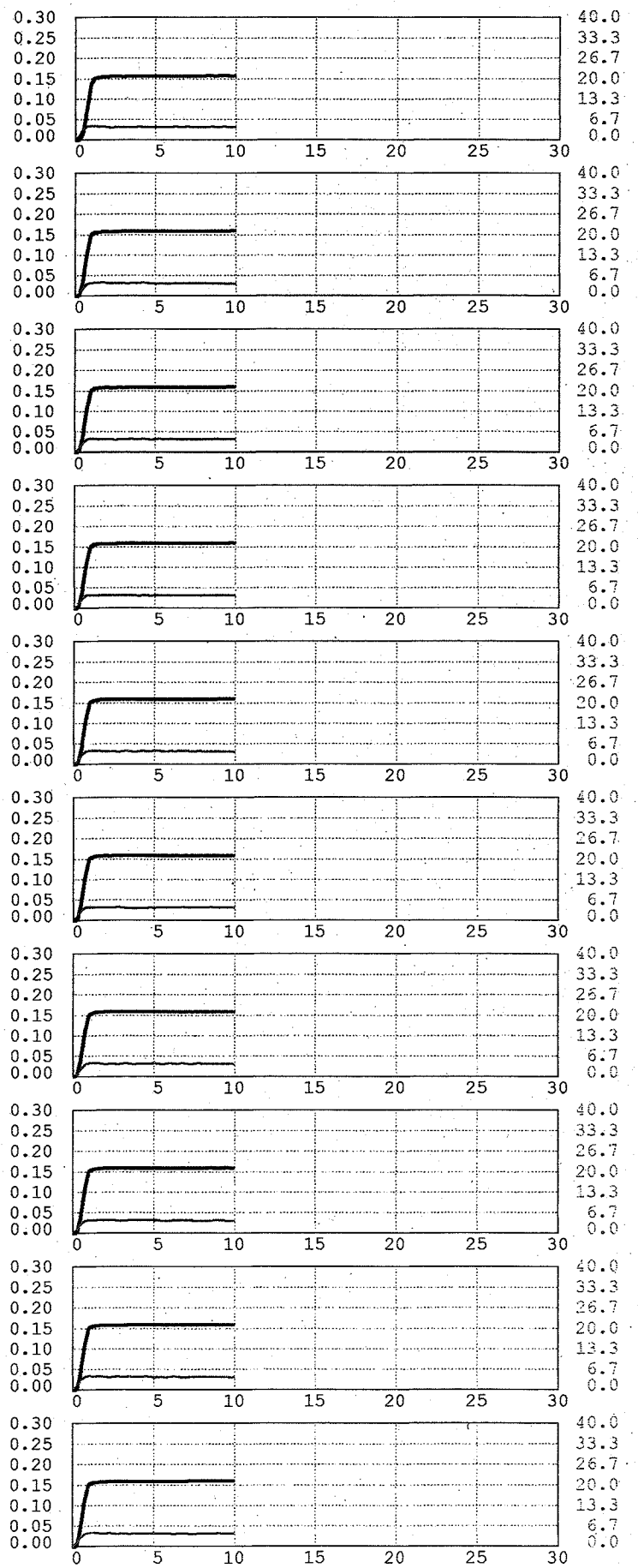
Date: 11/07/2007
Time: 08:24:02

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	08:24
INTERNAL STANDARD		PASSED	08:25
Xq = 0.1077 (0.16%)			
SIMULATOR VAPOR	(34.0°C)	0.156	08:25
X[1] = 0.1560	(-0.0022)	(-0.0013)	
SIMULATOR VAPOR	(34.0°C)	0.158	08:26
X[1] = 0.1585	(-0.0002)	(-0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.159	08:27
X[1] = 0.1590	(0.0004)	(-0.0012)	
SIMULATOR VAPOR	(34.0°C)	0.158	08:28
X[1] = 0.1589	(-0.0004)	(-0.0004)	
SIMULATOR VAPOR	(34.0°C)	0.159	08:29
X[1] = 0.1590	(-0.0001)	(-0.0011)	
SIMULATOR VAPOR	(34.0°C)	0.158	08:30
X[1] = 0.1588	(0.0000)	(-0.0014)	
SIMULATOR VAPOR	(33.9°C)	0.158	08:31
X[1] = 0.1588	(-0.0002)	(-0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.158	08:32
X[1] = 0.1587	(-0.0007)	(-0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.158	08:33
X[1] = 0.1587	(-0.0002)	(-0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.159	08:34
X[1] = 0.1596	(0.0000)	(-0.0006)	
BLANK TEST		0.000	08:35

Average = 0.1581
Std Dev = 0.0009



11/07/2007 08:35

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

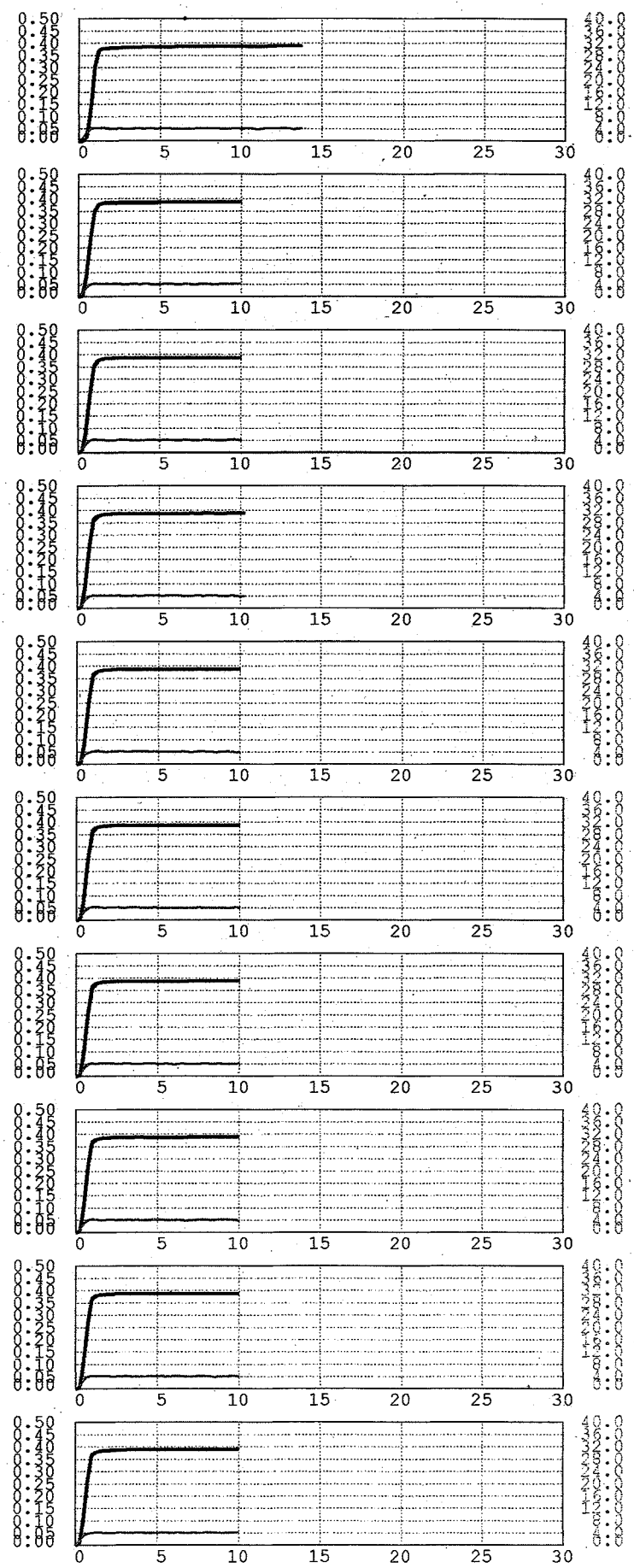
Date: 11/07/2007
Time: 08:44:39

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	08:45
INTERNAL STANDARD		PASSED	08:45
Xq = 0.1083 (0.41%)			
SIMULATOR VAPOR (33.9°C)		0.386	08:46
X[1] = 0.3860	(0.0041)	(0.0006)	
SIMULATOR VAPOR (33.8°C)		0.384	08:47
X[1] = 0.3847	(0.0032)	(-0.0006)	
SIMULATOR VAPOR (33.9°C)		0.384	08:47
X[1] = 0.3849	(0.0028)	(-0.0005)	
SIMULATOR VAPOR (33.9°C)		0.386	08:48
X[1] = 0.3863	(0.0032)	(0.0001)	
SIMULATOR VAPOR (33.9°C)		0.386	08:49
X[1] = 0.3860	(0.0034)	(-0.0001)	
SIMULATOR VAPOR (33.9°C)		0.385	08:50
X[1] = 0.3857	(0.0020)	(-0.0003)	
SIMULATOR VAPOR (33.8°C)		0.386	08:51
X[1] = 0.3861	(0.0031)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.386	08:52
X[1] = 0.3867	(0.0033)	(0.0004)	
SIMULATOR VAPOR (33.8°C)		0.385	08:53
X[1] = 0.3859	(0.0016)	(-0.0002)	
SIMULATOR VAPOR (33.9°C)		0.387	08:54
X[1] = 0.3875	(0.0035)	(0.0004)	
BLANK TEST		0.001	08:55

Average = 0.3855
Std Dev = 0.0010



11/07/2007 08:56

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

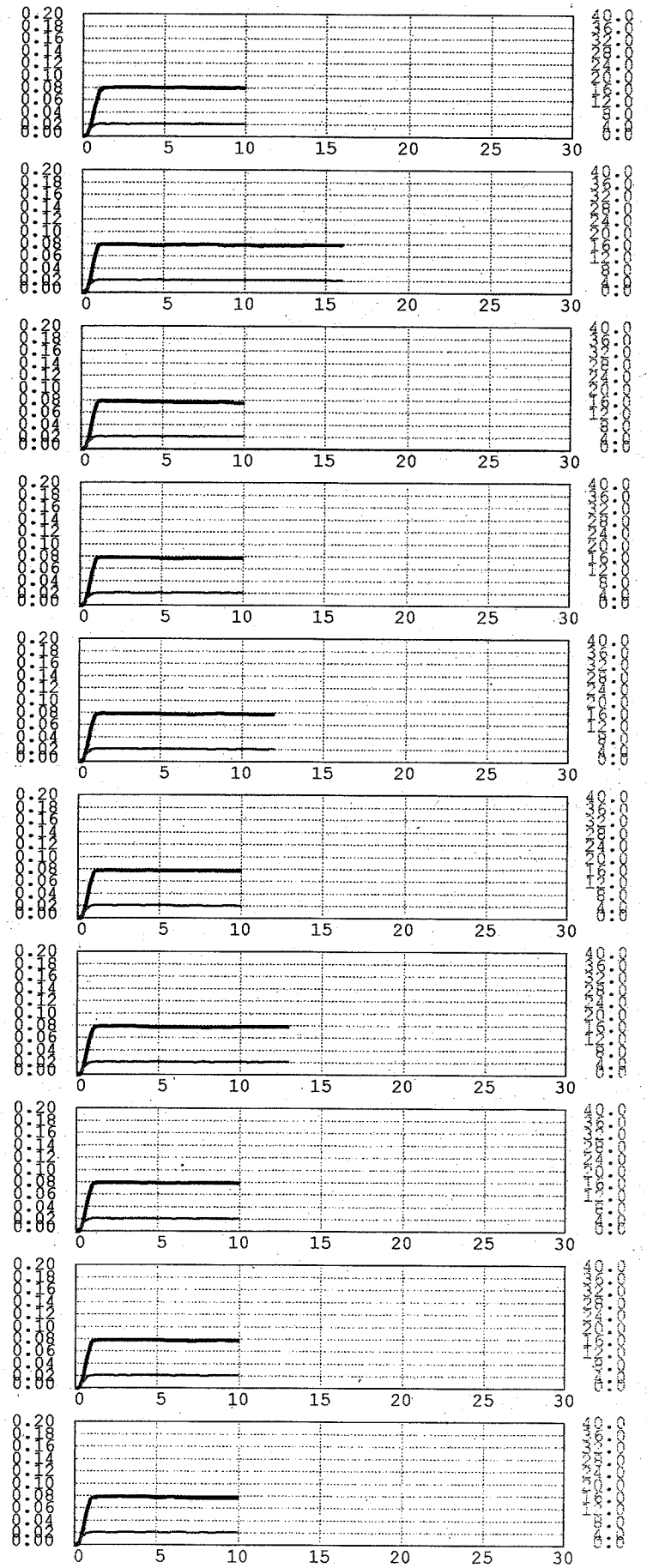
Date: 11/07/2007
Time: 09:47:13

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	09:48
INTERNAL STANDARD		PASSED	09:48
Xq = 0.1098 (1.79%)			
SIMULATOR VAPOR (33.9°C)		0.080	09:48
X[1] = 0.0805 (0.0025)	(0.0014)		
SIMULATOR VAPOR (33.9°C)		0.078	09:50
X[1] = 0.0789 (-0.0014)	(0.0000)		
SIMULATOR VAPOR (33.9°C)		0.077	09:51
X[1] = 0.0775 (-0.0013)	(-0.0001)		
SIMULATOR VAPOR (33.9°C)		0.077	09:52
X[1] = 0.0771 (-0.0016)	(-0.0001)		
SIMULATOR VAPOR (33.9°C)		0.077	09:53
X[1] = 0.0773 (-0.0013)	(-0.0001)		
SIMULATOR VAPOR (33.9°C)		0.077	09:54
X[1] = 0.0777 (-0.0012)	(0.0003)		
SIMULATOR VAPOR (33.8°C)		0.078	09:55
X[1] = 0.0784 (-0.0011)	(-0.0006)		
SIMULATOR VAPOR (33.9°C)		0.078	09:56
X[1] = 0.0784 (-0.0011)	(-0.0002)		
SIMULATOR VAPOR (33.9°C)		0.078	09:57
X[1] = 0.0783 (-0.0009)	(-0.0001)		
SIMULATOR VAPOR (33.9°C)		0.077	09:58
X[1] = 0.0778 (-0.0012)	(0.0002)		
BLANK TEST		0.000	09:59

Average = 0.0777
Std Dev = 0.0009



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

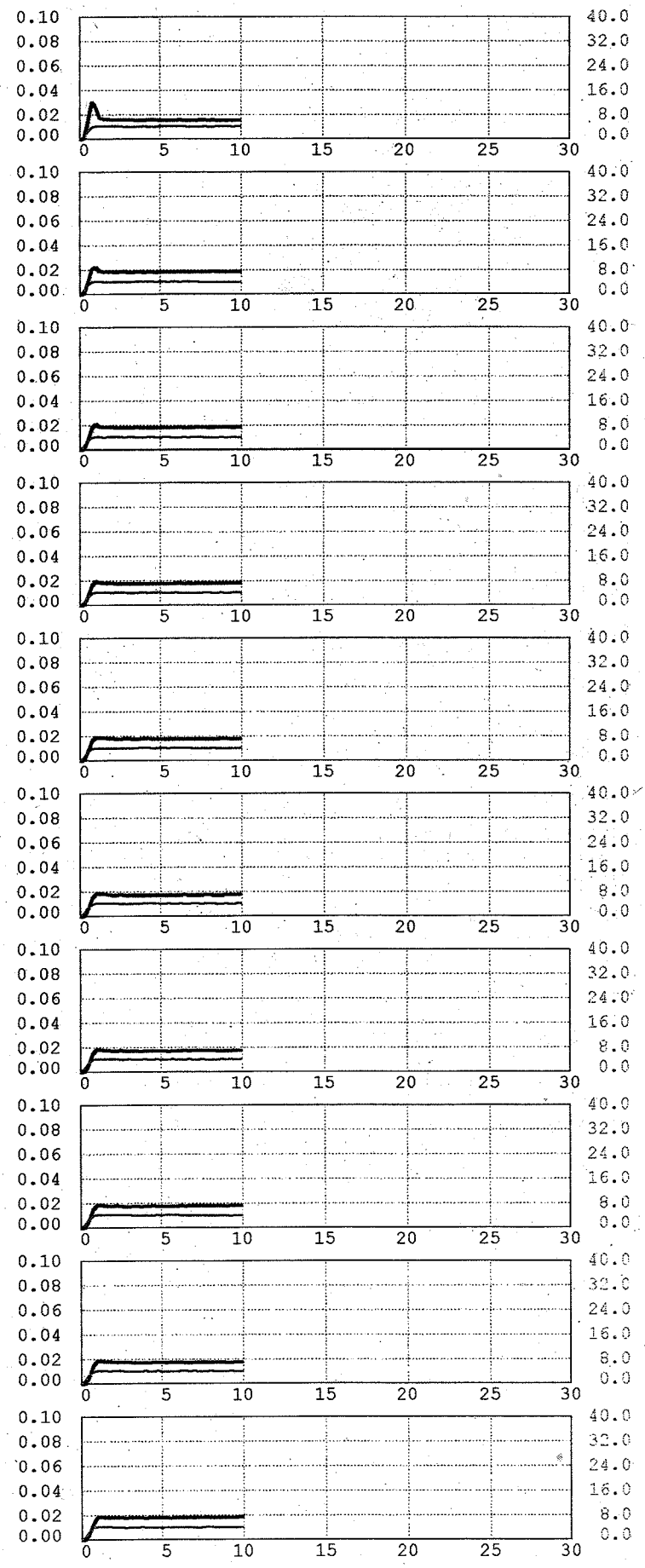
Date: 11/07/2007
Time: 11:08:25

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	11:09
INTERNAL STANDARD		PASSED	11:09
Xq = 0.1073 (0.49%)			
SIMULATOR VAPOR (33.8°C)		0.016	11:09
X[1] = 0.0167	(-0.0038)	(-0.0004)	
SIMULATOR VAPOR (33.7°C)		0.019	11:10
X[1] = 0.0192	(-0.0010)	(0.0004)	
SIMULATOR VAPOR (33.8°C)		0.018	11:11
X[1] = 0.0189	(-0.0003)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.018	11:12
X[1] = 0.0187	(-0.0013)	(0.0004)	
SIMULATOR VAPOR (33.7°C)		0.018	11:13
X[1] = 0.0183	(-0.0026)	(0.0000)	
SIMULATOR VAPOR (33.7°C)		0.018	11:14
X[1] = 0.0181	(-0.0021)	(0.0002)	
SIMULATOR VAPOR (33.7°C)		0.018	11:15
X[1] = 0.0183	(-0.0015)	(0.0003)	
SIMULATOR VAPOR (33.8°C)		0.018	11:16
X[1] = 0.0185	(-0.0017)	(-0.0003)	
SIMULATOR VAPOR (33.7°C)		0.018	11:17
X[1] = 0.0184	(-0.0018)	(0.0000)	
SIMULATOR VAPOR (33.8°C)		0.018	11:18
X[1] = 0.0185	(-0.0014)	(-0.0003)	
BLANK TEST		0.000	11:19

Average = 0.0179
Std Dev = 0.0007



11/07/2007 11:19

Section 5: Interference

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/30/2007
Time: 12:05

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 43.8 C
Simulator Hose =  0.0 C
Digital Sim    = 33.8 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 532.5 Hz

PUMP INFO
Flow Rate = 5.061 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.1378    0.1392
MIN(V)   0.1352    0.1370

FILTER INFO
Filter 1  0.138  Zero = true
Filter 2  0.589  Zero = true
Filter 3  1.492  Zero = true

INTERNAL STANDARD
Xq = 0.1075  0.33%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

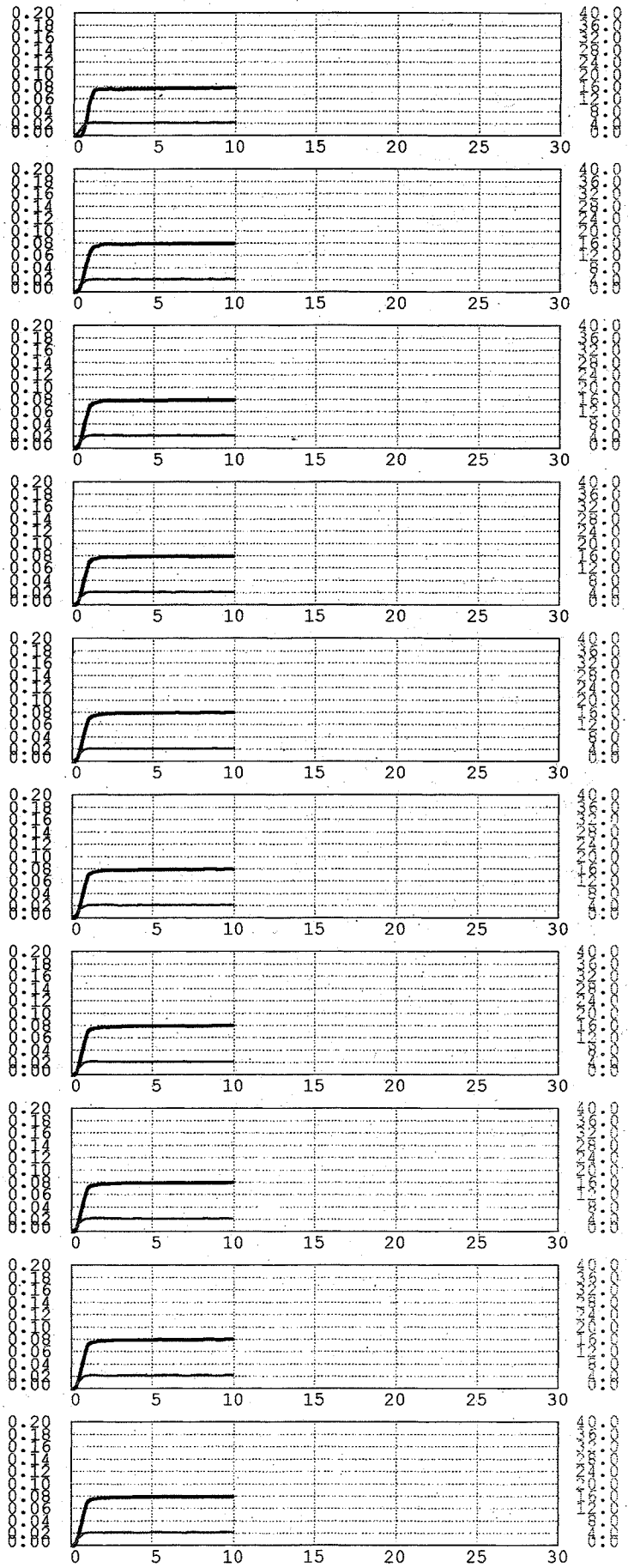
DataMaster DMT: 102806

Date: 11/30/2007
Time: 11:53:18

SUPERVISOR NAME: HXB 0.01 ACETONE 0.08ETOH

SOLUTION LOT #: 07-09-080A1
SOLUTION CONCENTRATION: 0.000

BLANK TEST	0.000	11:54
INTERNAL STANDARD	PASSED	11:54
Xq = 0.1069 (0.90%)		
SIMULATOR VAPOR	INTERFERENCE	11:54
X[1] = 0.0782 (-0.0056) (-0.0008)		
SIMULATOR VAPOR	INTERFERENCE	11:55
X[1] = 0.0796 (-0.0052) (-0.0011)		
SIMULATOR VAPOR	INTERFERENCE	11:56
X[1] = 0.0795 (-0.0053) (-0.0016)		
SIMULATOR VAPOR (33.7°C)	0.079	11:57
X[1] = 0.0798 (-0.0048) (-0.0009)		
SIMULATOR VAPOR (33.8°C)	0.079	11:58
X[1] = 0.0796 (-0.0044) (-0.0009)		
SIMULATOR VAPOR	INTERFERENCE	11:59
X[1] = 0.0797 (-0.0055) (-0.0008)		
SIMULATOR VAPOR	INTERFERENCE	12:00
X[1] = 0.0800 (-0.0055) (-0.0008)		
SIMULATOR VAPOR (33.7°C)	0.080	12:01
X[1] = 0.0802 (-0.0038) (-0.0008)		
SIMULATOR VAPOR (33.8°C)	0.080	12:02
X[1] = 0.0801 (-0.0050) (-0.0009)		
SIMULATOR VAPOR	INTERFERENCE	12:03
X[1] = 0.0799 (-0.0056) (-0.0004)		
BLANK TEST	0.000	12:04



11/30/2007 12:04

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/27/2007
Time: 15:53

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.8 C
Breath Tube = 47.7 C
Simulator Hose = 0.0 C
Digital Sim = 0.0 C

SETTINGS
Lamp Voltage = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage = 120.4 V
Chopper Freq = 533.8 Hz

PUMP INFO
Flow Rate = 5.041 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1465	0.1476
MIN(V)	0.1449	0.1453

FILTER INFO
Filter 1 0.146 Zero = true
Filter 2 0.596 Zero = true
Filter 3 1.518 Zero = true

INTERNAL STANDARD
Xq = 0.1088 0.90%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

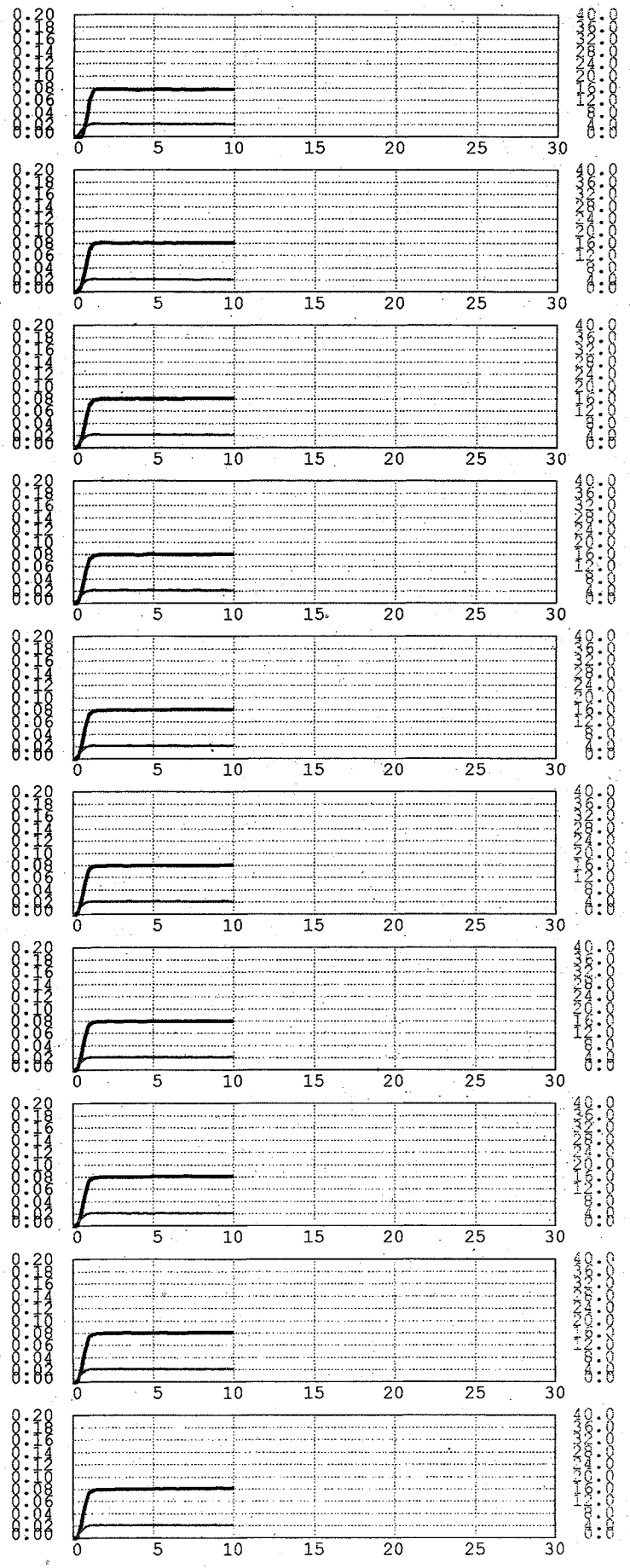
DataMaster DMT: 102806

Date: 11/27/2007
Time: 15:08:23

SUPERVISOR NAME: ALB .01 ACETONE IN .08ETOH

SOLUTION LOT #: 07-09-080A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	15:09
INTERNAL STANDARD		PASSED	15:09
Xq = 0.1077 (0.08%)			
SIMULATOR VAPOR	INTERFERENCE		15:09
X[1] = 0.0787	(-0.0073)	(-0.0004)	
SIMULATOR VAPOR (33.8°C)		0.081	15:10
X[1] = 0.0810	(-0.0049)	(0.0004)	
SIMULATOR VAPOR	INTERFERENCE		15:12
X[1] = 0.0808	(-0.0059)	(-0.0005)	
SIMULATOR VAPOR	INTERFERENCE		15:13
X[1] = 0.0811	(-0.0052)	(0.0004)	
SIMULATOR VAPOR (33.8°C)		0.081	15:14
X[1] = 0.0811	(-0.0046)	(0.0001)	
SIMULATOR VAPOR (33.8°C)		0.080	15:15
X[1] = 0.0809	(-0.0050)	(-0.0007)	
SIMULATOR VAPOR	INTERFERENCE		15:16
X[1] = 0.0804	(-0.0055)	(-0.0006)	
SIMULATOR VAPOR	INTERFERENCE		15:16
X[1] = 0.0808	(-0.0055)	(0.0000)	
SIMULATOR VAPOR	INTERFERENCE		15:17
X[1] = 0.0809	(-0.0056)	(-0.0003)	
SIMULATOR VAPOR	INTERFERENCE		15:18
X[1] = 0.0815	(-0.0052)	(-0.0003)	
BLANK TEST		0.000	15:19



11/27/2007 15:22

ACCURACY AND PRECISION TEST

STATE OF VERMONT

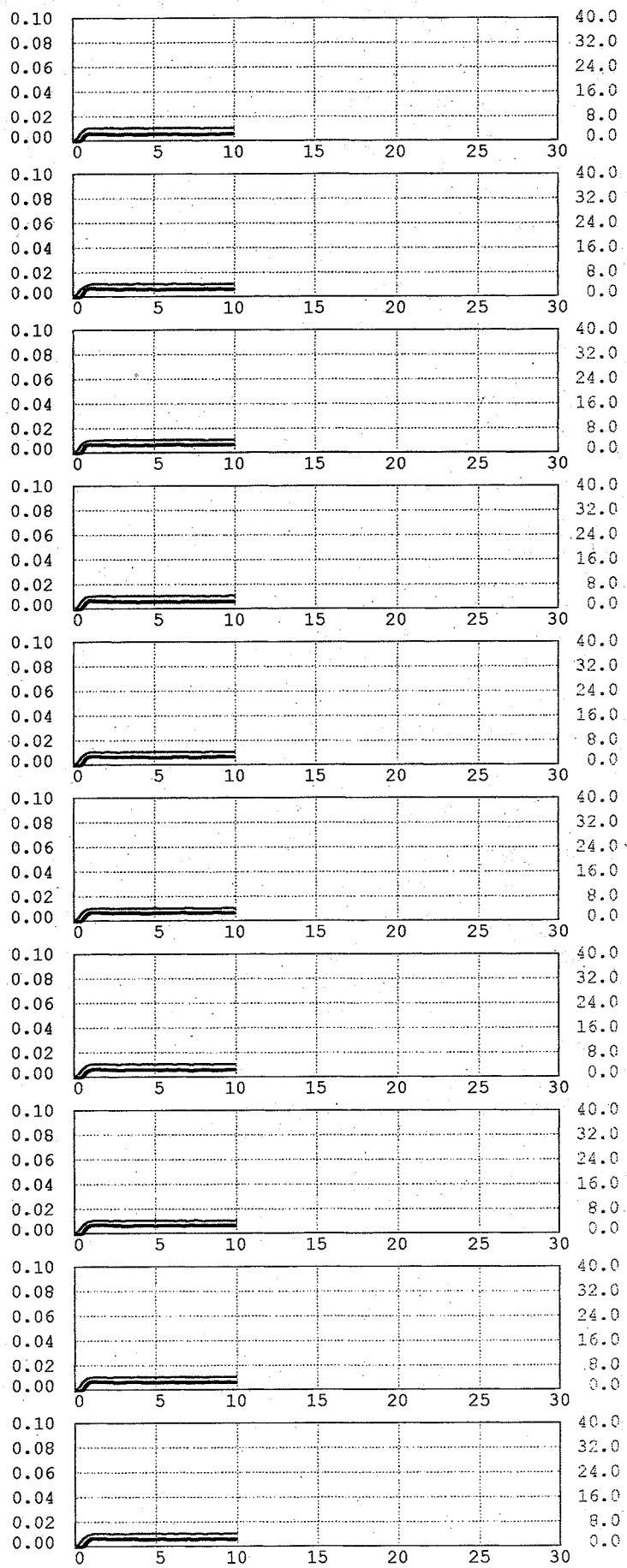
DataMaster DMT: 102806

Date: 11/27/2007
Time: 15:37:47

SUPERVISOR NAME: ALB .02 ACETONE IN H2O

SOLUTION LOT #: 09-20-070A2
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	15:38
INTERNAL STANDARD	PASSED	15:38
Xq = 0.1076 (0.25%)		
SIMULATOR VAPOR	INTERFERENCE	15:39
X[1] = 0.0066 (-0.0081) (0.0002)		
SIMULATOR VAPOR	INTERFERENCE	15:40
X[1] = 0.0071 (-0.0084) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	15:41
X[1] = 0.0068 (-0.0084) (0.0002)		
SIMULATOR VAPOR	INTERFERENCE	15:42
X[1] = 0.0064 (-0.0079) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	15:42
X[1] = 0.0071 (-0.0084) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	15:43
X[1] = 0.0070 (-0.0080) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	15:44
X[1] = 0.0067 (-0.0077) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	15:45
X[1] = 0.0072 (-0.0076) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	15:47
X[1] = 0.0069 (-0.0087) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	15:48
X[1] = 0.0065 (-0.0096) (-0.0004)		
BLANK TEST	0.000	15:49



11/27/2007 15:51

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/28/2007
Time: 08:57

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube    = 47.6 C
Simulator Hose =  0.0 C
Digital Sim    = 33.9 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 532.0 Hz

PUMP INFO
Flow Rate = 5.225 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.1295   0.1315
MIN(V)   0.1272   0.1299

FILTER INFO
Filter 1  0.131  Zero = true
Filter 2  0.578  Zero = true
Filter 3  1.485  Zero = true

INTERNAL STANDARD
Xq = 0.1072  0.57%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

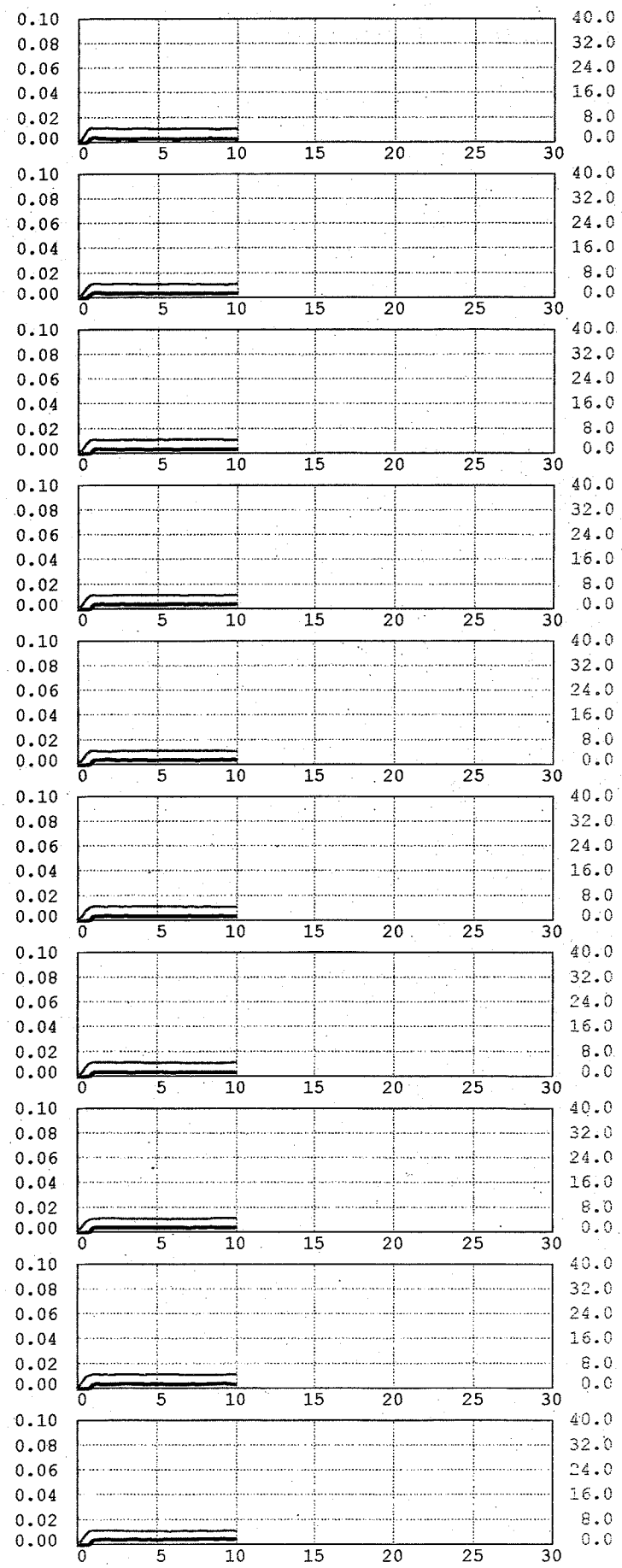
DataMaster DMT: 102806

Date: 11/28/2007
Time: 09:01:47

SUPERVISOR NAME: SEH 0.01ACETONEINH2O

SOLUTION LOT #: 09-20-071C A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	09:02
INTERNAL STANDARD		PASSED	09:02
Xq = 0.1071 (0.65%)			
SIMULATOR VAPOR		INTERFERENCE	09:03
X[1] = 0.0041	(-0.0062)	(0.0006)	
SIMULATOR VAPOR		INTERFERENCE	09:04
X[1] = 0.0046	(-0.0062)	(0.0005)	
SIMULATOR VAPOR		INTERFERENCE	09:05
X[1] = 0.0047	(-0.0060)	(0.0007)	
SIMULATOR VAPOR		INTERFERENCE	09:06
X[1] = 0.0051	(-0.0054)	(0.0010)	
SIMULATOR VAPOR		INTERFERENCE	09:06
X[1] = 0.0049	(-0.0052)	(0.0009)	
SIMULATOR VAPOR		INTERFERENCE	09:07
X[1] = 0.0046	(-0.0060)	(0.0006)	
SIMULATOR VAPOR		INTERFERENCE	09:08
X[1] = 0.0043	(-0.0063)	(0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.004	09:09
X[1] = 0.0049	(-0.0045)	(0.0006)	
SIMULATOR VAPOR		INTERFERENCE	09:10
X[1] = 0.0049	(-0.0056)	(0.0008)	
SIMULATOR VAPOR		INTERFERENCE	09:12
X[1] = 0.0055	(-0.0056)	(0.0012)	
BLANK TEST		0.000	09:13



05/06/2008 13:17

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 12/06/2007
Time: 08:07

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube    = 46.0 C
Simulator Hose =  0.0 C
Digital Sim    = 33.8 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.5 V
Chopper Freq   = 534.5 Hz

PUMP INFO
Flow Rate = 5.123 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.1476    0.1500
MIN(V)   0.1457    0.1484

FILTER INFO
Filter 1  0.148  Zero = true
Filter 2  0.599  Zero = true
Filter 3  1.499  Zero = true

INTERNAL STANDARD
Xq = 0.1073  0.49%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

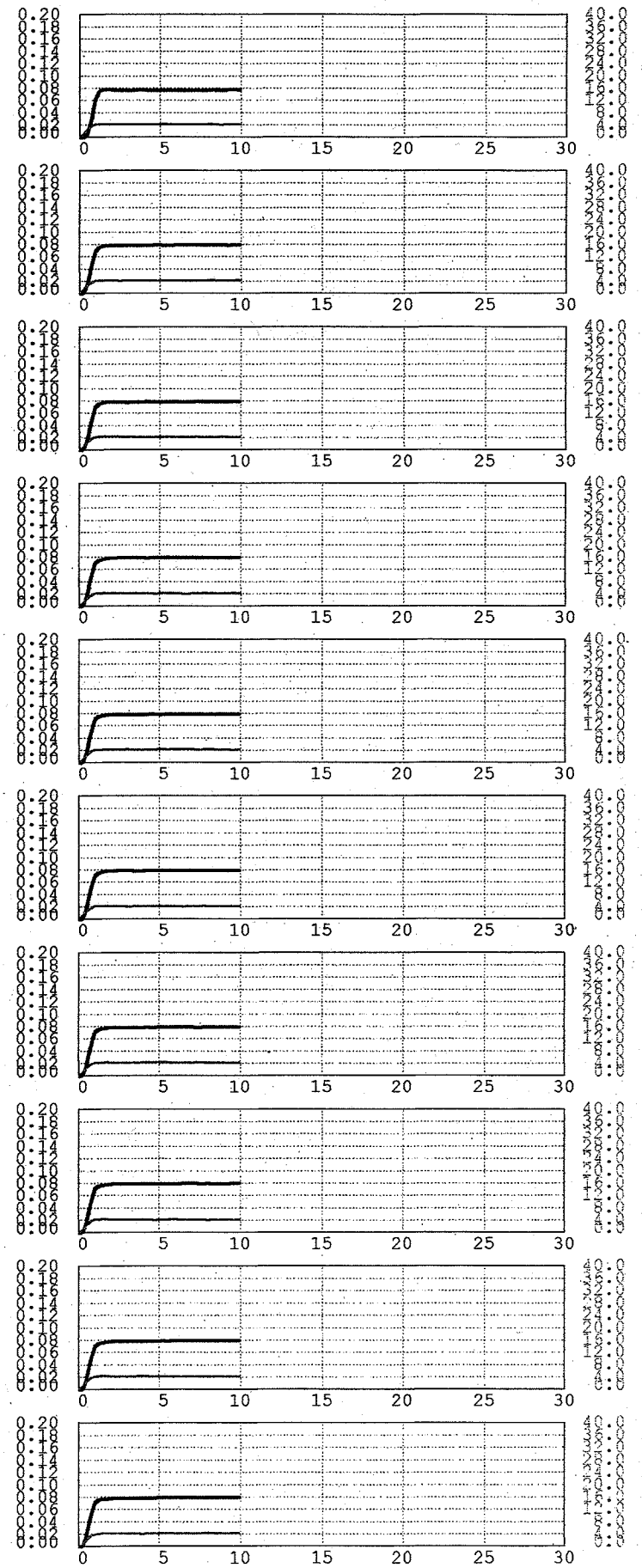
DataMaster DMT: 102806

Date: 12/06/2007
Time: 08:27:27

SUPERVISOR NAME: RJD .01ACETONE IN .08ETOH

SOLUTION LOT #: 07-09-080A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	08:28
INTERNAL STANDARD		PASSED	08:28
Xq = 0.1073 (0.49%)			
SIMULATOR VAPOR		INTERFERENCE	08:28
X[1] = 0.0773	(-0.0060)	(-0.0005)	
SIMULATOR VAPOR	(33.8°C)	0.079	08:29
X[1] = 0.0796	(-0.0045)	(0.0000)	
SIMULATOR VAPOR	(33.8°C)	0.079	08:30
X[1] = 0.0794	(-0.0044)	(0.0000)	
SIMULATOR VAPOR	(33.8°C)	0.079	08:31
X[1] = 0.0793	(-0.0047)	(-0.0012)	
SIMULATOR VAPOR		INTERFERENCE	08:32
X[1] = 0.0793	(-0.0051)	(-0.0004)	
SIMULATOR VAPOR	(33.8°C)	0.079	08:33
X[1] = 0.0796	(-0.0035)	(-0.0003)	
SIMULATOR VAPOR	(33.8°C)	0.079	08:35
X[1] = 0.0796	(-0.0050)	(-0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.080	08:36
X[1] = 0.0800	(-0.0045)	(0.0001)	
SIMULATOR VAPOR		INTERFERENCE	08:37
X[1] = 0.0793	(-0.0051)	(-0.0002)	
SIMULATOR VAPOR		INTERFERENCE	08:38
X[1] = 0.0794	(-0.0051)	(-0.0008)	
BLANK TEST		0.000	08:39



12/06/2007 08:42

ACCURACY AND PRECISION TEST

STATE OF VERMONT

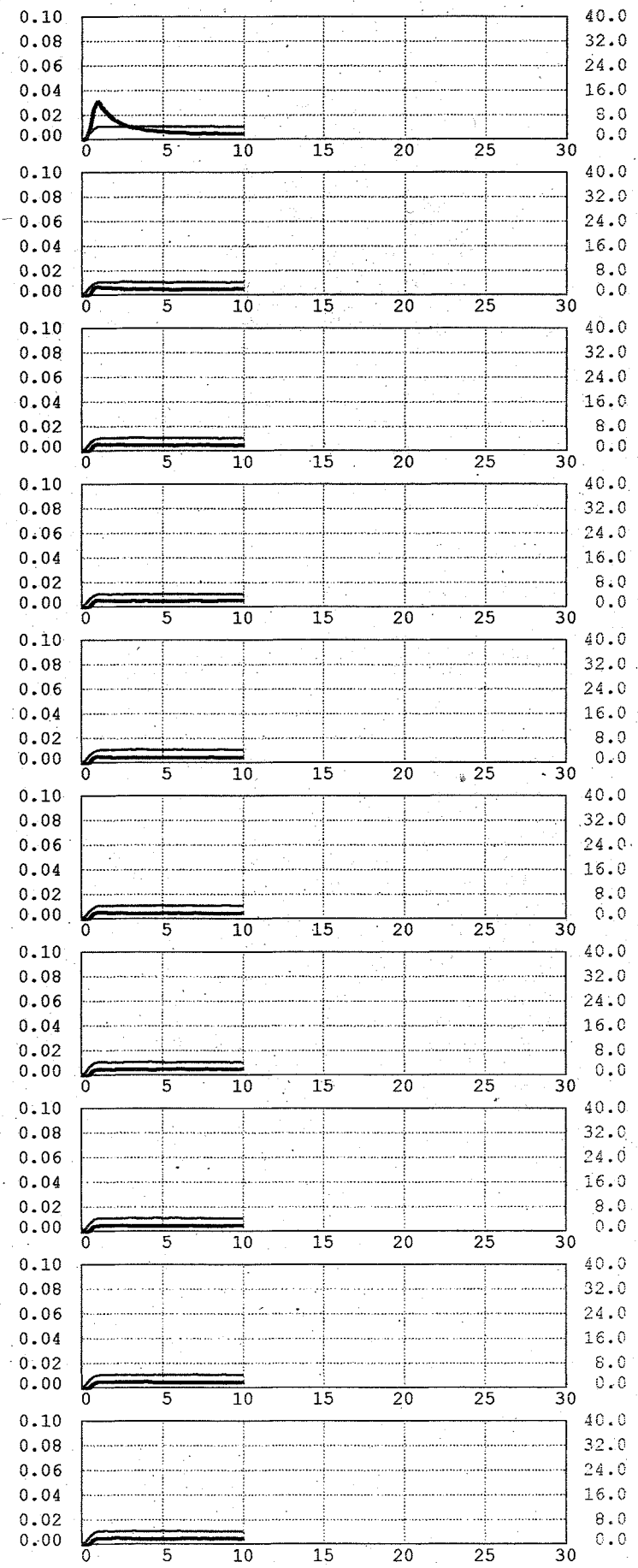
DataMaster DMT: 102806

Date: 12/06/2007
Time: 09:13:32

SUPERVISOR NAME: RJD .02 ACETONE IN H2O

SOLUTION LOT #: 09-20-07 A2
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	09:14
INTERNAL STANDARD	PASSED	09:14
Xq = 0.1074 (0.41%)		
SIMULATOR VAPOR	INTERFERENCE	09:14
X[1] = 0.0054 (-0.0079) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	09:15
X[1] = 0.0058 (-0.0077) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	09:16
X[1] = 0.0060 (-0.0070) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	09:17
X[1] = 0.0062 (-0.0073) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	09:18
X[1] = 0.0056 (-0.0079) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	09:19
X[1] = 0.0057 (-0.0080) (0.0001)		
SIMULATOR VAPOR	INTERFERENCE	09:20
X[1] = 0.0058 (-0.0062) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	09:21
X[1] = 0.0057 (-0.0075) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	09:22
X[1] = 0.0058 (-0.0080) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	09:23
X[1] = 0.0058 (-0.0076) (0.0004)		
BLANK TEST	0.000	09:24



12/06/2007 09:24

ACCURACY AND PRECISION TEST

STATE OF VERMONT

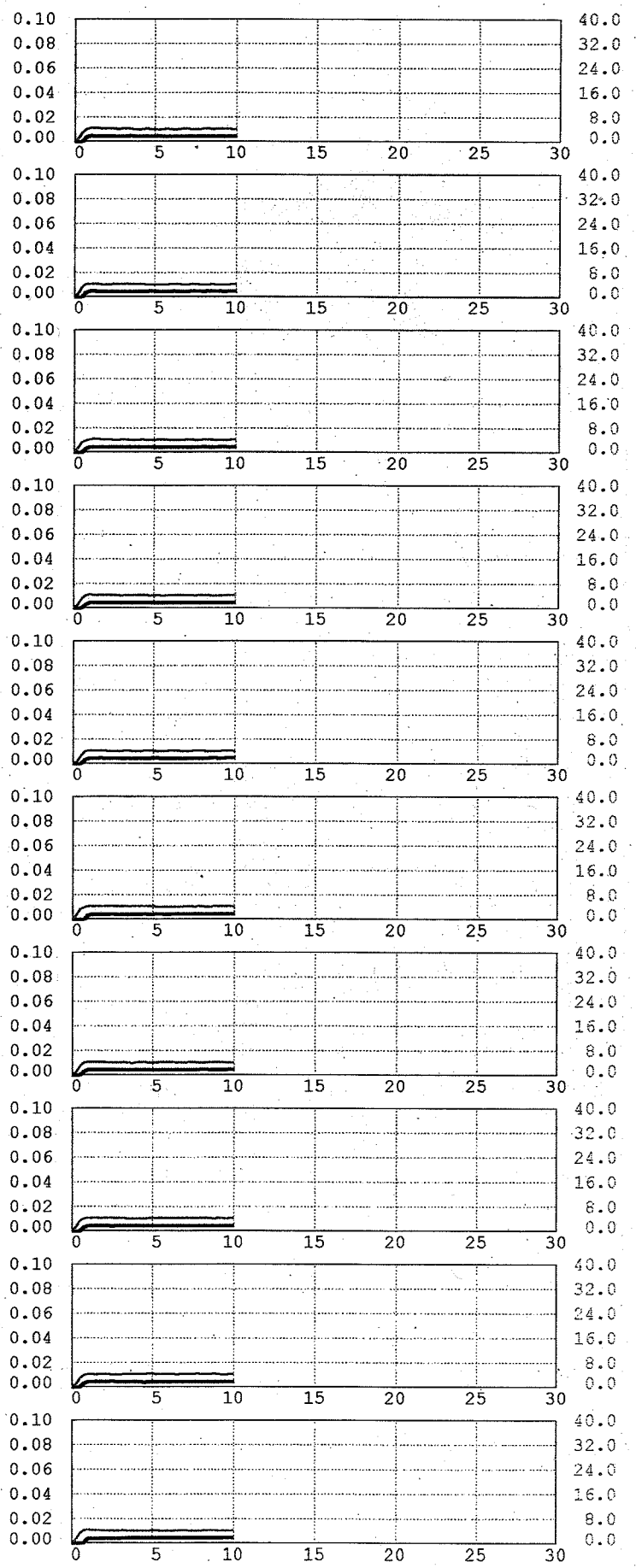
DataMaster DMT: 102806

Date: 12/07/2007
Time: 08:21:30

SUPERVISOR NAME: RJD .01 ACETONE H2O

SOLUTION LOT #: 09-20-07A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	08:22
INTERNAL STANDARD	PASSED	08:22
Xq = 0.1073 (0.49%)		
SIMULATOR VAPOR	INTERFERENCE	08:22
X[1] = 0.0052 (-0.0057) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	08:23
X[1] = 0.0058 (-0.0051) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	08:24
X[1] = 0.0056 (-0.0051) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	08:25
X[1] = 0.0054 (-0.0057) (0.0004)		
SIMULATOR VAPOR (33.9°C)	0.005	08:26
X[1] = 0.0057 (-0.0050) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	08:27
X[1] = 0.0049 (-0.0051) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	08:28
X[1] = 0.0054 (-0.0053) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	08:30
X[1] = 0.0056 (-0.0055) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	08:31
X[1] = 0.0053 (-0.0056) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	08:31
X[1] = 0.0051 (-0.0061) (0.0004)		
BLANK TEST	0.000	08:32



12/07/2007 08:32

ACCURACY AND PRECISION TEST

STATE OF VERMONT

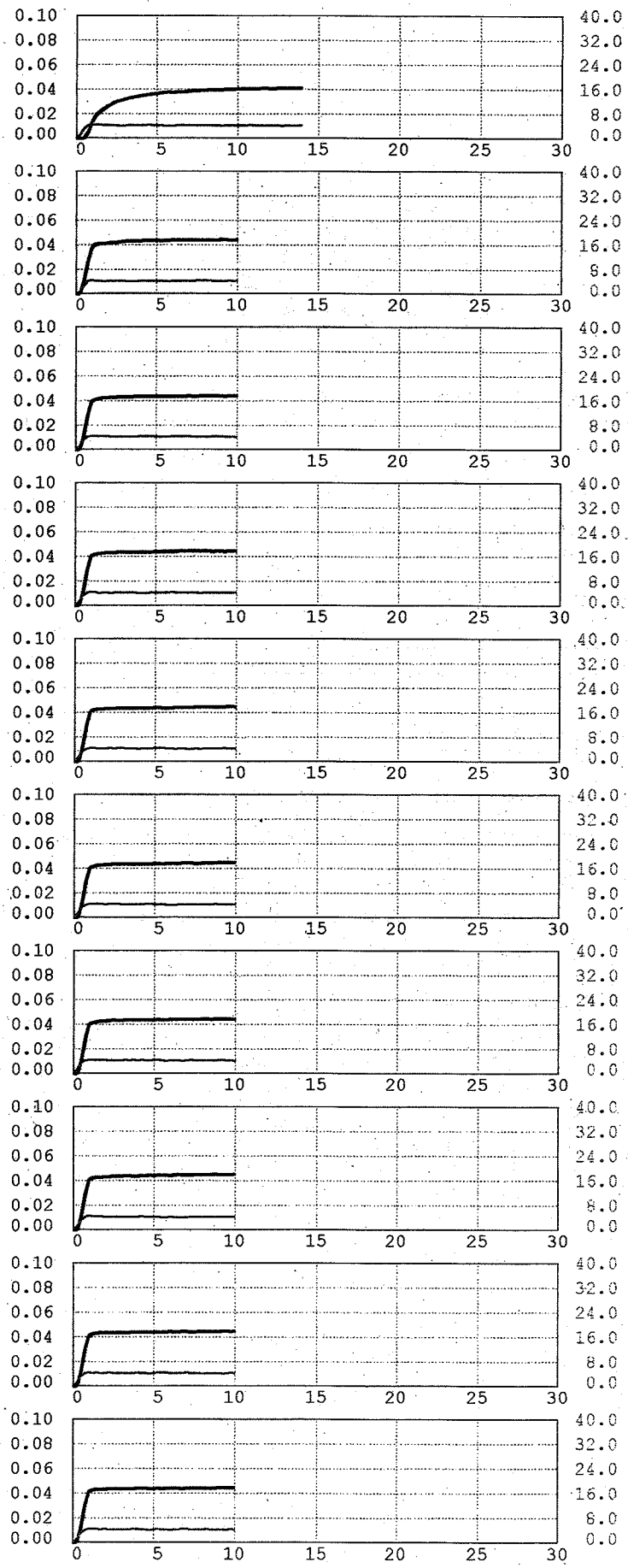
DataMaster DMT: 102806

Date: 12/07/2007
Time: 08:45:25

SUPERVISOR NAME: RJD .01 ACETONE IN .04ETOH

SOLUTION LOT #: 07-14-040A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	08:46
INTERNAL STANDARD		PASSED	08:46
Xq = 0.1069 (0.90%)			
SIMULATOR VAPOR	INTERFERENCE		08:46
X[1] = 0.0413 (-0.0081) (-0.0006)			
SIMULATOR VAPOR	INTERFERENCE		08:47
X[1] = 0.0443 (-0.0059) (0.0006)			
SIMULATOR VAPOR	INTERFERENCE		08:48
X[1] = 0.0447 (-0.0053) (0.0004)			
SIMULATOR VAPOR	INTERFERENCE		08:49
X[1] = 0.0445 (-0.0063) (-0.0001)			
SIMULATOR VAPOR	INTERFERENCE		08:50
X[1] = 0.0450 (-0.0059) (0.0002)			
SIMULATOR VAPOR (34.1°C)		0.045	08:51
X[1] = 0.0451 (-0.0045) (-0.0005)			
SIMULATOR VAPOR	INTERFERENCE		08:53
X[1] = 0.0446 (-0.0053) (-0.0001)			
SIMULATOR VAPOR	INTERFERENCE		08:54
X[1] = 0.0452 (-0.0055) (0.0002)			
SIMULATOR VAPOR	INTERFERENCE		08:55
X[1] = 0.0454 (-0.0053) (-0.0003)			
SIMULATOR VAPOR	INTERFERENCE		08:56
X[1] = 0.0447 (-0.0063) (-0.0003)			
BLANK TEST		0.000	08:57



12/07/2007 08:57

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/02/2008
Time: 11:02

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 45.5 C
Simulator Hose =  0.0 C

SETTINGS
Lamp Voltage   = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage   = 120.4 V
Chopper Freq   = 533.5 Hz

PUMP INFO
Flow Rate = 5.042 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.2187   0.2193
MIN(V)   0.2169   0.2177

FILTER INFO
Filter 1  0.219  Zero = true
Filter 2  0.669  Zero = true
Filter 3  1.559  Zero = true

INTERNAL STANDARD
Xq = 0.1074  0.41%
```

01/02/2008 11:03

ACCURACY AND PRECISION TEST

STATE OF VERMONT

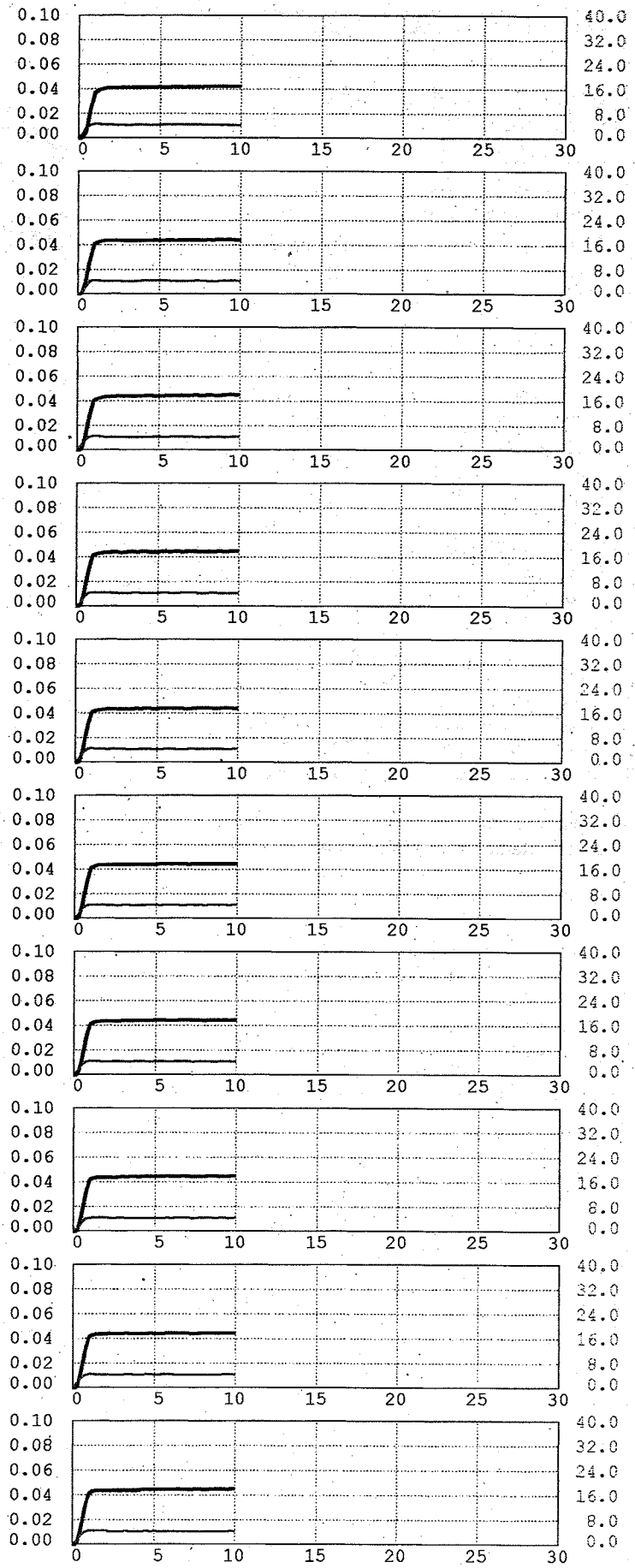
DataMaster DMT: 102806

Date: 01/02/2008
Time: 10:21:46

SUPERVISOR NAME: D M R .01 Acetone .04 EtOH

SOLUTION LOT #: 07-14-04A1
SOLUTION CONCENTRATION: 0.044

BLANK TEST		0.000	10:22
INTERNAL STANDARD		PASSED	10:22
Xq = 0.1067 (1.06%)			
SIMULATOR VAPOR	INTERFERENCE		10:23
X[1] = 0.0425	(-0.0081)	(-0.0009)	
SIMULATOR VAPOR	INTERFERENCE		10:24
X[1] = 0.0446	(-0.0059)	(0.0001)	
SIMULATOR VAPOR	INTERFERENCE		10:25
X[1] = 0.0451	(-0.0056)	(0.0003)	
SIMULATOR VAPOR	INTERFERENCE		10:26
X[1] = 0.0452	(-0.0058)	(-0.0002)	
SIMULATOR VAPOR	INTERFERENCE		10:27
X[1] = 0.0447	(-0.0061)	(-0.0008)	
SIMULATOR VAPOR	INTERFERENCE		10:28
X[1] = 0.0452	(-0.0051)	(0.0004)	
SIMULATOR VAPOR	INTERFERENCE		10:29
X[1] = 0.0449	(-0.0057)	(-0.0002)	
SIMULATOR VAPOR	INTERFERENCE		10:30
X[1] = 0.0453	(-0.0053)	(0.0000)	
SIMULATOR VAPOR	INTERFERENCE		10:31
X[1] = 0.0450	(-0.0063)	(0.0001)	
SIMULATOR VAPOR	INTERFERENCE		10:32
X[1] = 0.0452	(-0.0061)	(-0.0001)	
BLANK TEST		0.000	10:33



01/02/2008 11:04

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

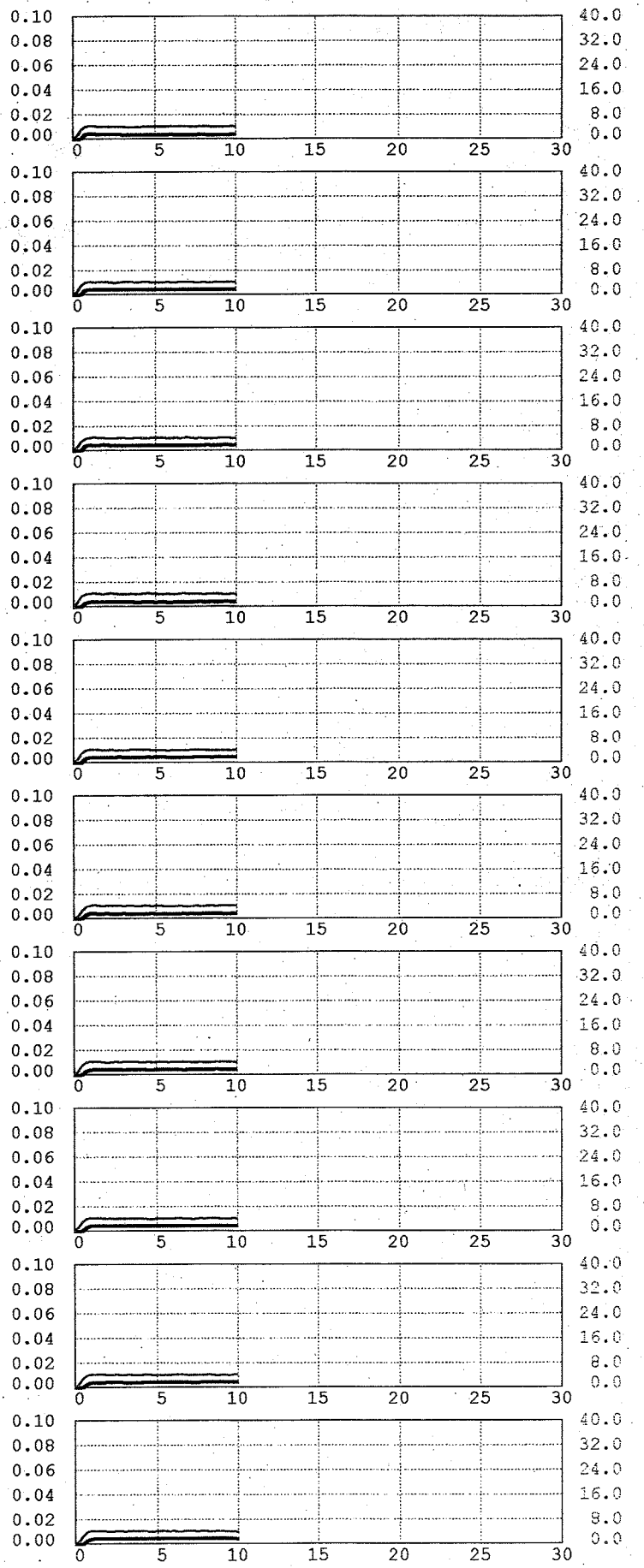
Date: 01/02/2008
Time: 10:49:05

Acetone

SUPERVISOR NAME: DMR 0.01 IN H20

SOLUTION LOT #: ~~09-07-01~~ 09-20-07-A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	10:50
INTERNAL STANDARD		PASSED	10:50
Xq = 0.1073 (0.49%)			
SIMULATOR VAPOR	INTERFERENCE		10:50
X[1] = 0.0042	(-0.0068)	(0.0003)	
SIMULATOR VAPOR	INTERFERENCE		10:51
X[1] = 0.0051	(-0.0060)	(0.0002)	
SIMULATOR VAPOR	INTERFERENCE		10:52
X[1] = 0.0055	(-0.0051)	(0.0001)	
SIMULATOR VAPOR	INTERFERENCE		10:53
X[1] = 0.0048	(-0.0057)	(-0.0004)	
SIMULATOR VAPOR	INTERFERENCE		10:54
X[1] = 0.0054	(-0.0053)	(0.0005)	
SIMULATOR VAPOR	INTERFERENCE		10:55
X[1] = 0.0045	(-0.0059)	(0.0001)	
SIMULATOR VAPOR	INTERFERENCE		10:56
X[1] = 0.0052	(-0.0054)	(0.0004)	
SIMULATOR VAPOR	INTERFERENCE		10:57
X[1] = 0.0049	(-0.0057)	(0.0005)	
SIMULATOR VAPOR	INTERFERENCE		10:58
X[1] = 0.0047	(-0.0061)	(0.0002)	
SIMULATOR VAPOR	INTERFERENCE		10:59
X[1] = 0.0050	(-0.0056)	(-0.0002)	
BLANK TEST		0.000	11:00



01/02/2008 11:01

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date: 01/30/2008
Installation Date: 01/30/2008
Test Date: 03/05/2008
Time: 09:24

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube = 47.94°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.96 V
Cooler Voltage = 1.97 V
Bias Voltage = 120.6 V
Chopper Freq = 536.7 Hz

PUMP INFO
Flow Rate = 3.601 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0343	0.0343
MIN(V)	0.0321	0.0323

FILTER INFO
Filter 1 0.033 Zero = true
Filter 2 0.510 Zero = true
Filter 3 0.033 Zero = true

INTERNAL STANDARD
Xq = 0.1216 0.07%

03/05/2008 09:25

ACCURACY AND PRECISION TEST

STATE OF VERMONT

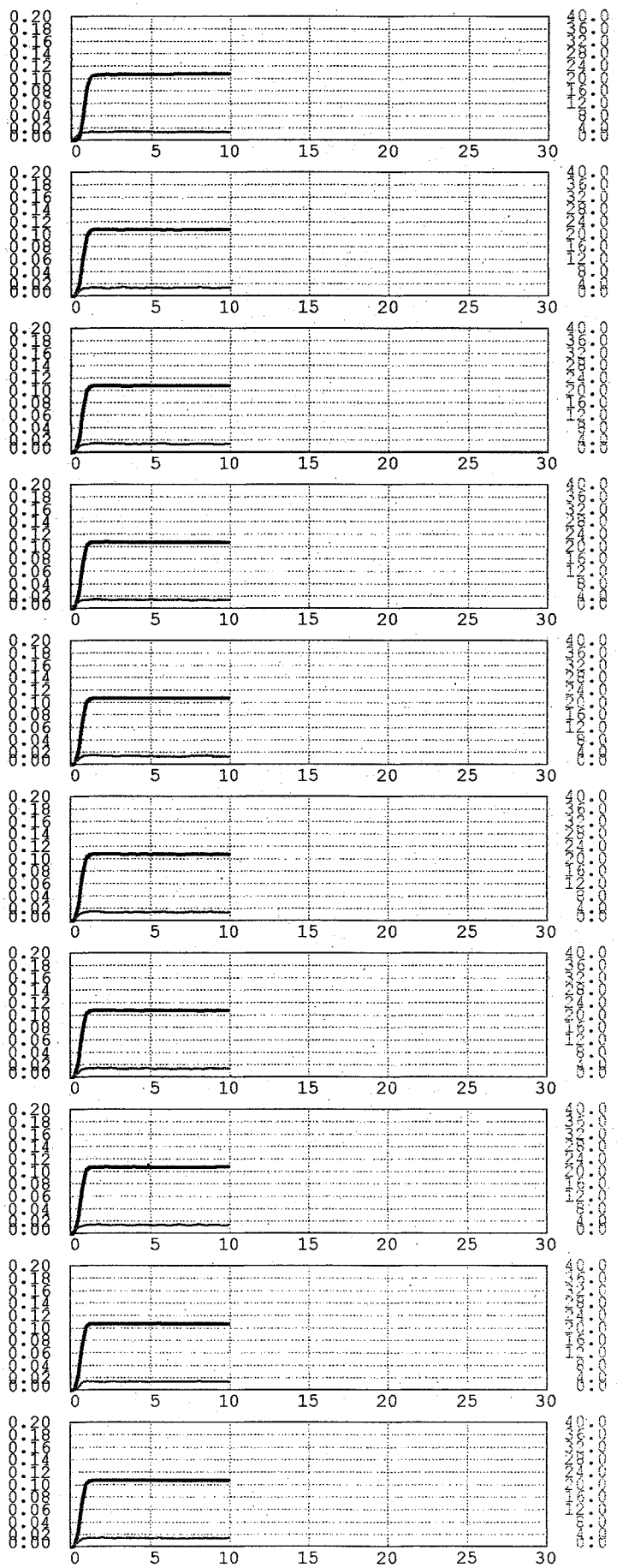
DataMaster DMT: 102806

Date: 03/05/2008
Time: 09:28:26

SUPERVISOR NAME: ALB 04MEOH 08ETOH

SOLUTION LOT #: 07-09-080M4
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	09:29
INTERNAL STANDARD	PASSED	09:29
Xq = 0.1213 (0.37%)		
SIMULATOR VAPOR	INTERFERENCE	09:29
X[1] = 0.1068 (-0.0062) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:30
X[1] = 0.1070 (-0.0065) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:31
X[1] = 0.1074 (-0.0059) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:32
X[1] = 0.1066 (-0.0063) (-0.0050)		
SIMULATOR VAPOR	INTERFERENCE	09:33
X[1] = 0.1066 (-0.0067) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:34
X[1] = 0.1071 (-0.0058) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	09:35
X[1] = 0.1071 (-0.0062) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:36
X[1] = 0.1068 (-0.0063) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:37
X[1] = 0.1065 (-0.0066) (-0.0043)		
SIMULATOR VAPOR	INTERFERENCE	09:38
X[1] = 0.1063 (-0.0070) (-0.0050)		
BLANK TEST	0.000	09:39



03/05/2008 09:40

ACCURACY AND PRECISION TEST

STATE OF VERMONT

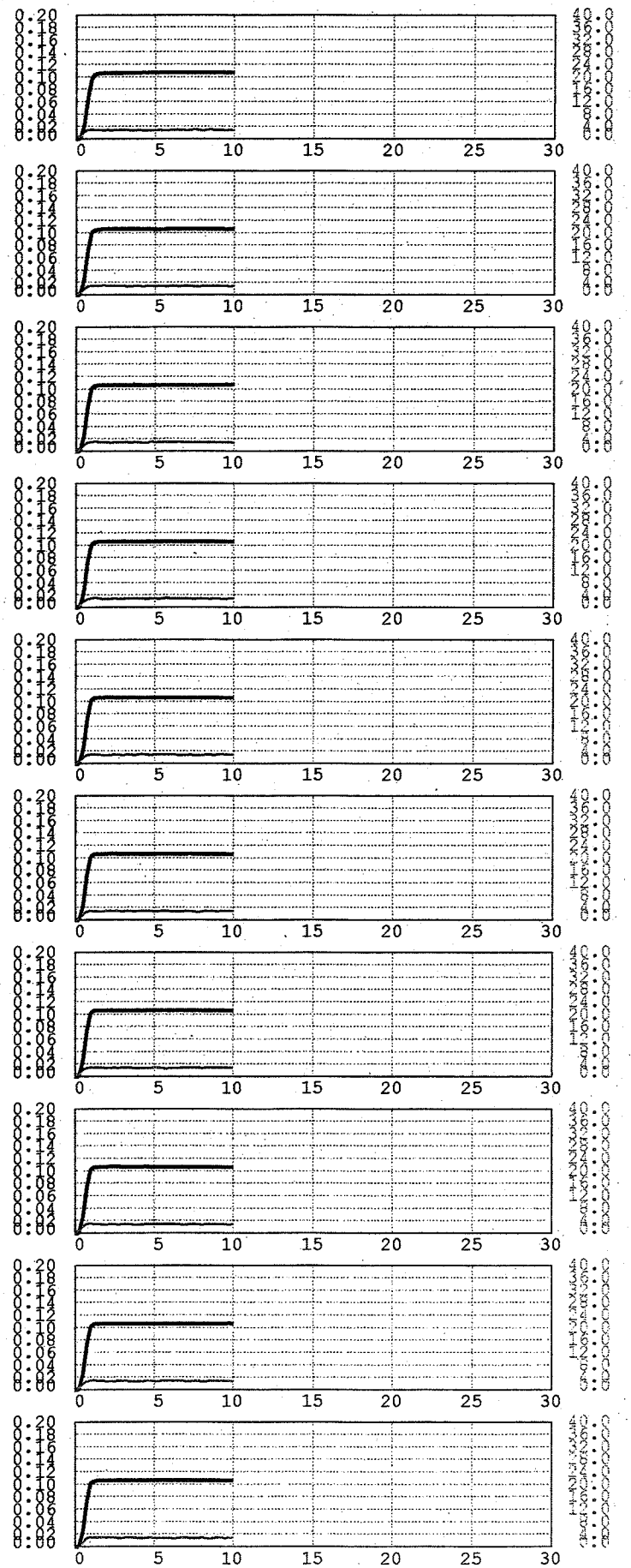
DataMaster DMT: 102806

Date: 03/05/2008
Time: 09:42:10

SUPERVISOR NAME: DMR 0.04 MEOH IN 0.08 ETOH

SOLUTION LOT #: 07-09-080 MH
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	09:43
INTERNAL STANDARD	PASSED	09:43
Xq = 0.1220 (0.29%)		
SIMULATOR VAPOR	INTERFERENCE	09:43
X[1] = 0.1071 (-0.0052) (-0.0035)		
SIMULATOR VAPOR	INTERFERENCE	09:44
X[1] = 0.1060 (-0.0067) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	09:45
X[1] = 0.1066 (-0.0063) (-0.0043)		
SIMULATOR VAPOR	INTERFERENCE	09:46
X[1] = 0.1062 (-0.0065) (-0.0040)		
SIMULATOR VAPOR	INTERFERENCE	09:47
X[1] = 0.1064 (-0.0056) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	09:48
X[1] = 0.1064 (-0.0058) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	09:49
X[1] = 0.1062 (-0.0059) (-0.0044)		
SIMULATOR VAPOR	INTERFERENCE	09:50
X[1] = 0.1065 (-0.0065) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	09:51
X[1] = 0.1067 (-0.0056) (-0.0041)		
SIMULATOR VAPOR	INTERFERENCE	09:52
X[1] = 0.1065 (-0.0058) (-0.0041)		
BLANK TEST	0.000	09:53



05/06/2008 13:19

ACCURACY AND PRECISION TEST

STATE OF VERMONT

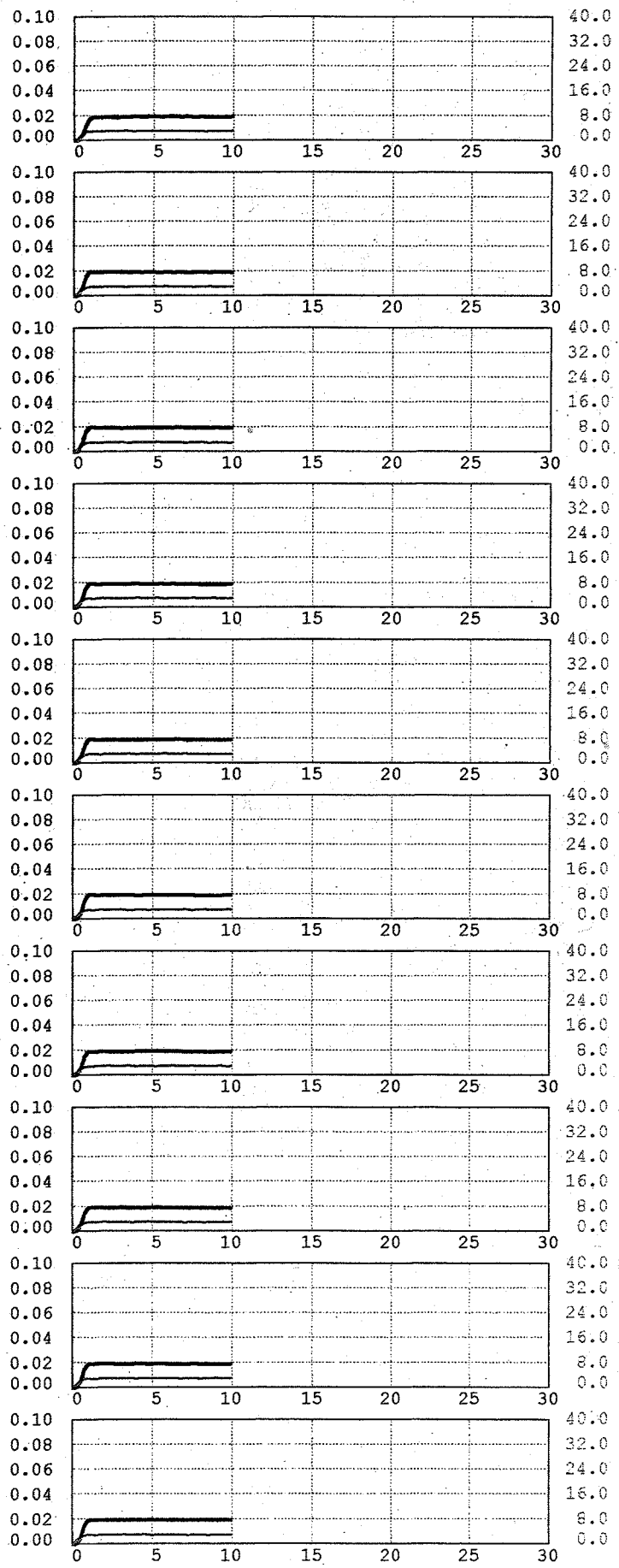
DataMaster DMT: 102806

Date: 03/05/2008
Time: 09:56:38

SUPERVISOR NAME: ALB 04MEOH

SOLUTION LOT #: 08-12-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:57
INTERNAL STANDARD	PASSED	09:57
Xq = 0.1219 (0.14%)		
SIMULATOR VAPOR	INTERFERENCE	09:57
X[1] = 0.0190 (-0.0062) (-0.0046)		
SIMULATOR VAPOR	INTERFERENCE	09:58
X[1] = 0.0191 (-0.0070) (-0.0050)		
SIMULATOR VAPOR	INTERFERENCE	09:59
X[1] = 0.0189 (-0.0065) (-0.0042)		
SIMULATOR VAPOR	INTERFERENCE	10:00
X[1] = 0.0189 (-0.0067) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	10:01
X[1] = 0.0186 (-0.0070) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	10:02
X[1] = 0.0190 (-0.0064) (-0.0044)		
SIMULATOR VAPOR	INTERFERENCE	10:03
X[1] = 0.0190 (-0.0059) (-0.0039)		
SIMULATOR VAPOR	INTERFERENCE	10:04
X[1] = 0.0189 (-0.0065) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	10:05
X[1] = 0.0190 (-0.0065) (-0.0041)		
SIMULATOR VAPOR	INTERFERENCE	10:06
X[1] = 0.0194 (-0.0060) (-0.0042)		
BLANK TEST	0.000	10:08



05/06/2008 13:21

ACCURACY AND PRECISION TEST

STATE OF VERMONT

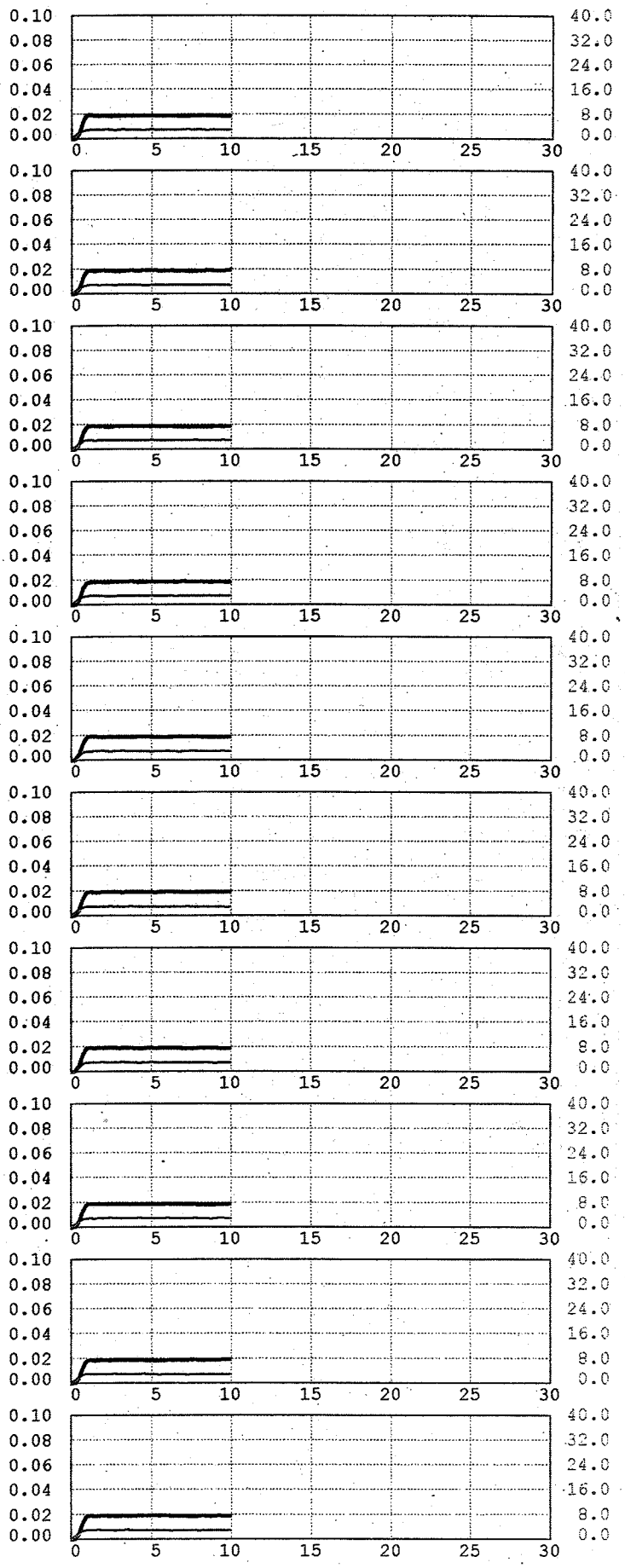
DataMaster DMT: 102806

Date: 03/05/2008
Time: 10:24:43

SUPERVISOR NAME: HXB 0.040 MEOH

SOLUTION LOT #: ~~08 14 040~~ DML 08-12-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:25
INTERNAL STANDARD	PASSED	10:25
Xq = 0.1219 (0.14%)		
SIMULATOR VAPOR	INTERFERENCE	10:26
X[1] = 0.0188 (-0.0069) (-0.0035)		
SIMULATOR VAPOR	INTERFERENCE	10:27
X[1] = 0.0188 (-0.0067) (-0.0039)		
SIMULATOR VAPOR	INTERFERENCE	10:28
X[1] = 0.0184 (-0.0061) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	10:29
X[1] = 0.0184 (-0.0072) (-0.0046)		
SIMULATOR VAPOR	INTERFERENCE	10:30
X[1] = 0.0189 (-0.0068) (-0.0044)		
SIMULATOR VAPOR	INTERFERENCE	10:31
X[1] = 0.0190 (-0.0060) (-0.0043)		
SIMULATOR VAPOR	INTERFERENCE	10:32
X[1] = 0.0189 (-0.0061) (-0.0050)		
SIMULATOR VAPOR	INTERFERENCE	10:33
X[1] = 0.0189 (-0.0070) (-0.0043)		
SIMULATOR VAPOR	INTERFERENCE	10:34
X[1] = 0.0186 (-0.0070) (-0.0053)		
SIMULATOR VAPOR	INTERFERENCE	10:35
X[1] = 0.0190 (-0.0061) (-0.0047)		
BLANK TEST	0.000	10:36



05/06/2008 13:22

ACCURACY AND PRECISION TEST

STATE OF VERMONT

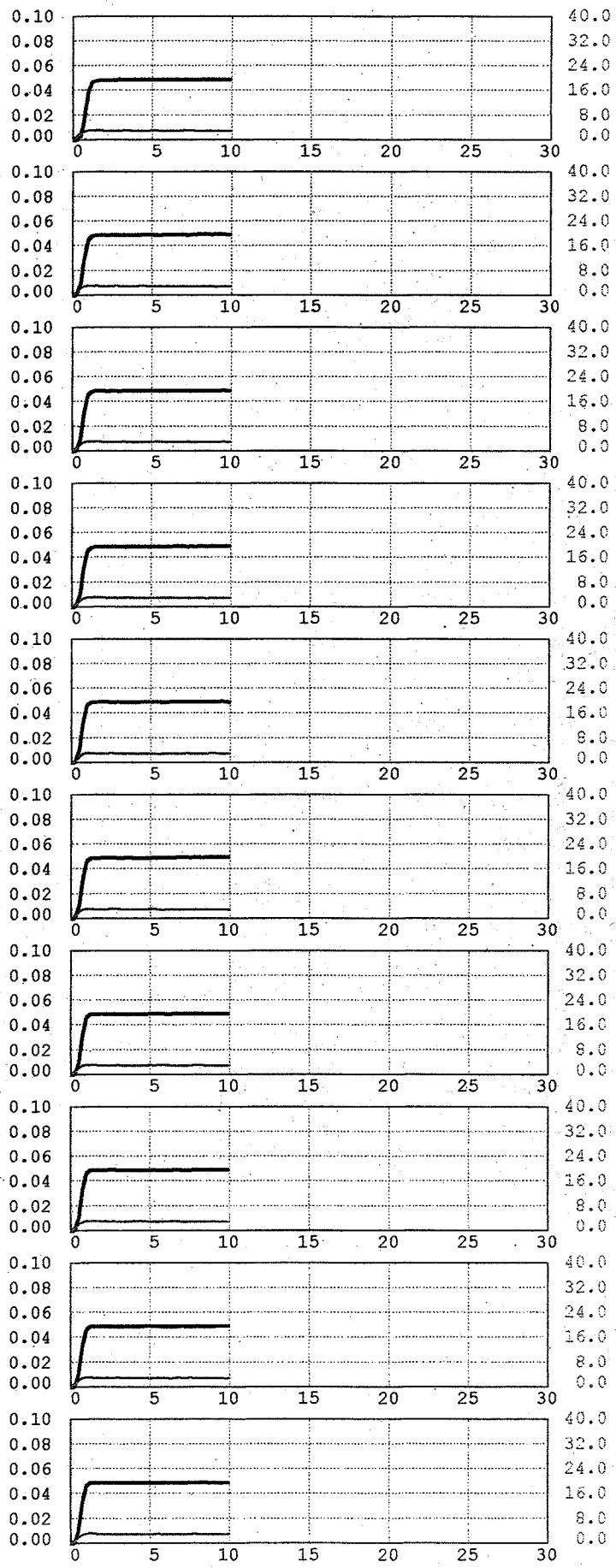
DataMaster DMT: 102806

Date: 03/05/2008
Time: 10:42:38

SUPERVISOR NAME: ALB 02ACETONE 04ETOH

SOLUTION LOT #: 07-14-040B
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:43
INTERNAL STANDARD	PASSED	10:43
Xq = 0.1219 (0.14%)		
SIMULATOR VAPOR	INTERFERENCE	10:44
X[1] = 0.0489 (-0.0103) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	10:45
X[1] = 0.0494 (-0.0101) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	10:46
X[1] = 0.0491 (-0.0104) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	10:47
X[1] = 0.0488 (-0.0107) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:48
X[1] = 0.0492 (-0.0104) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	10:49
X[1] = 0.0494 (-0.0101) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	10:50
X[1] = 0.0494 (-0.0100) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:52
X[1] = 0.0493 (-0.0099) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:53
X[1] = 0.0490 (-0.0113) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	10:54
X[1] = 0.0491 (-0.0103) (0.0016)		
BLANK TEST	0.000	10:54



05/06/2008 13:23

ACCURACY AND PRECISION TEST

STATE OF VERMONT

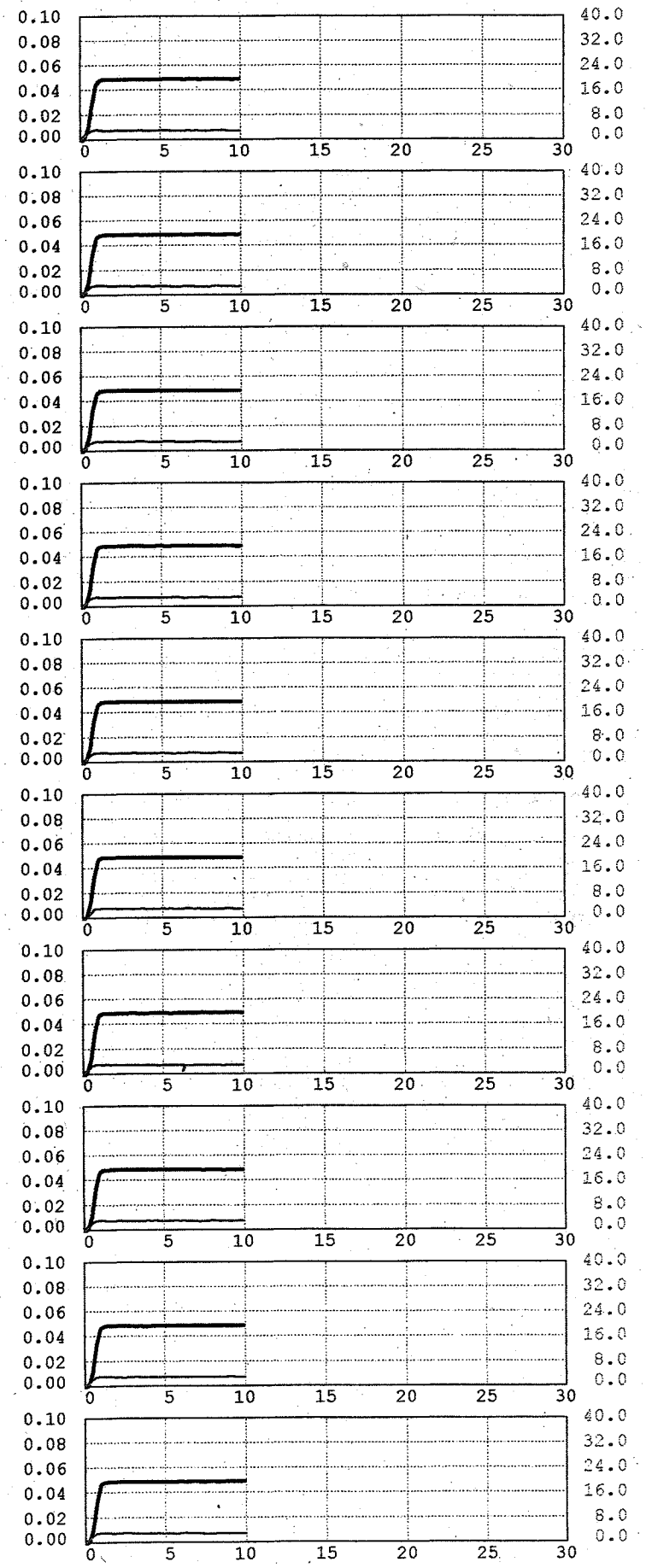
DataMaster DMT: 102806

Date: 03/05/2008
Time: 11:02:26

SUPERVISOR NAME: SEH .02ACETONE .0427 ETOH

SOLUTION LOT #: 07-14-0403
SOLUTION CONCENTRATION: 0.002

BLANK TEST	0.000	11:03
INTERNAL STANDARD	PASSED	11:03
Xq = 0.1222 (0.44%)		
SIMULATOR VAPOR	INTERFERENCE	11:03
X[1] = 0.0491 (-0.0101) (0.0030)		
SIMULATOR VAPOR	INTERFERENCE	11:04
X[1] = 0.0488 (-0.0108) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	11:05
X[1] = 0.0490 (-0.0101) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	11:06
X[1] = 0.0492 (-0.0094) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	11:07
X[1] = 0.0489 (-0.0105) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	11:08
X[1] = 0.0490 (-0.0103) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	11:09
X[1] = 0.0493 (-0.0103) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	11:10
X[1] = 0.0488 (-0.0113) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	11:11
X[1] = 0.0488 (-0.0105) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	11:12
X[1] = 0.0491 (-0.0108) (0.0010)		
BLANK TEST	0.000	11:13



05/06/2008 13:23

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date: 01/30/2008
Installation Date: 01/30/2008
Test Date: 03/06/2008
Time: 13:13

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.68°C
Breath Tube = 45.75°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.96 V
Cooler Voltage = 1.97 V
Bias Voltage = 120.5 V
Chopper Freq = 534.0 Hz

PUMP INFO
Flow Rate = 3.718 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0224	0.0234
MIN(V)	0.0205	0.0213

FILTER INFO
Filter 1 0.022 Zero = true
Filter 2 0.499 Zero = true
Filter 3 0.021 Zero = true

INTERNAL STANDARD
Xq = 0.1217 0.00%

03/06/2008 13:14

ACCURACY AND PRECISION TEST

STATE OF VERMONT

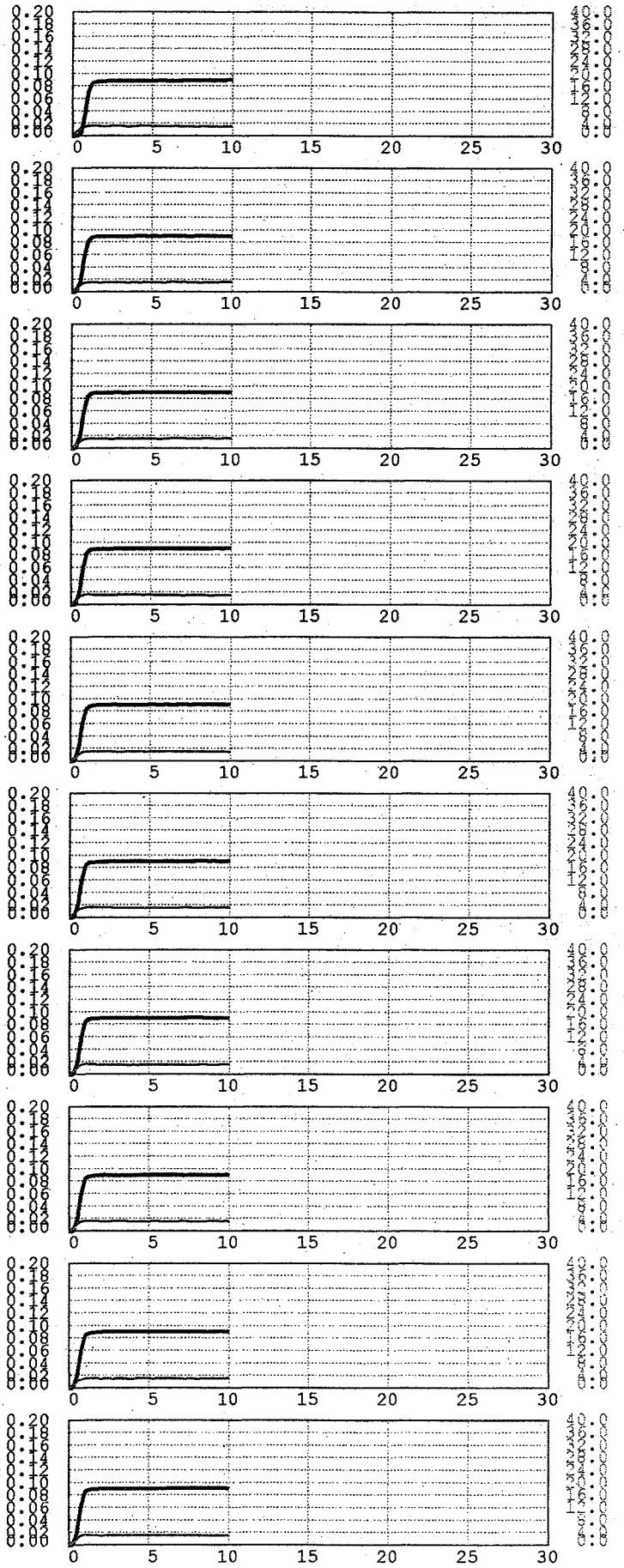
DataMaster DMT: 102806

Date: 03/06/2008
Time: 13:18:29

SUPERVISOR NAME: RJD .02 ACETONE .08 ETOH

SOLUTION LOT #: 07-09-080A2
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:19
INTERNAL STANDARD	PASSED	13:19
Xq = 0.1204 (1.09%)		
SIMULATOR VAPOR	INTERFERENCE	13:19
X[1] = 0.0897 (-0.0114) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	13:20
X[1] = 0.0904 (-0.0112) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	13:21
X[1] = 0.0907 (-0.0108) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	13:22
X[1] = 0.0907 (-0.0106) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	13:23
X[1] = 0.0912 (-0.0106) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	13:24
X[1] = 0.0911 (-0.0108) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	13:25
X[1] = 0.0911 (-0.0108) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	13:26
X[1] = 0.0908 (-0.0104) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	13:27
X[1] = 0.0911 (-0.0108) (0.0001)		
SIMULATOR VAPOR	INTERFERENCE	13:28
X[1] = 0.0913 (-0.0113) (0.0011)		
BLANK TEST	0.000	13:29



05/06/2008 13:24

ACCURACY AND PRECISION TEST

STATE OF VERMONT

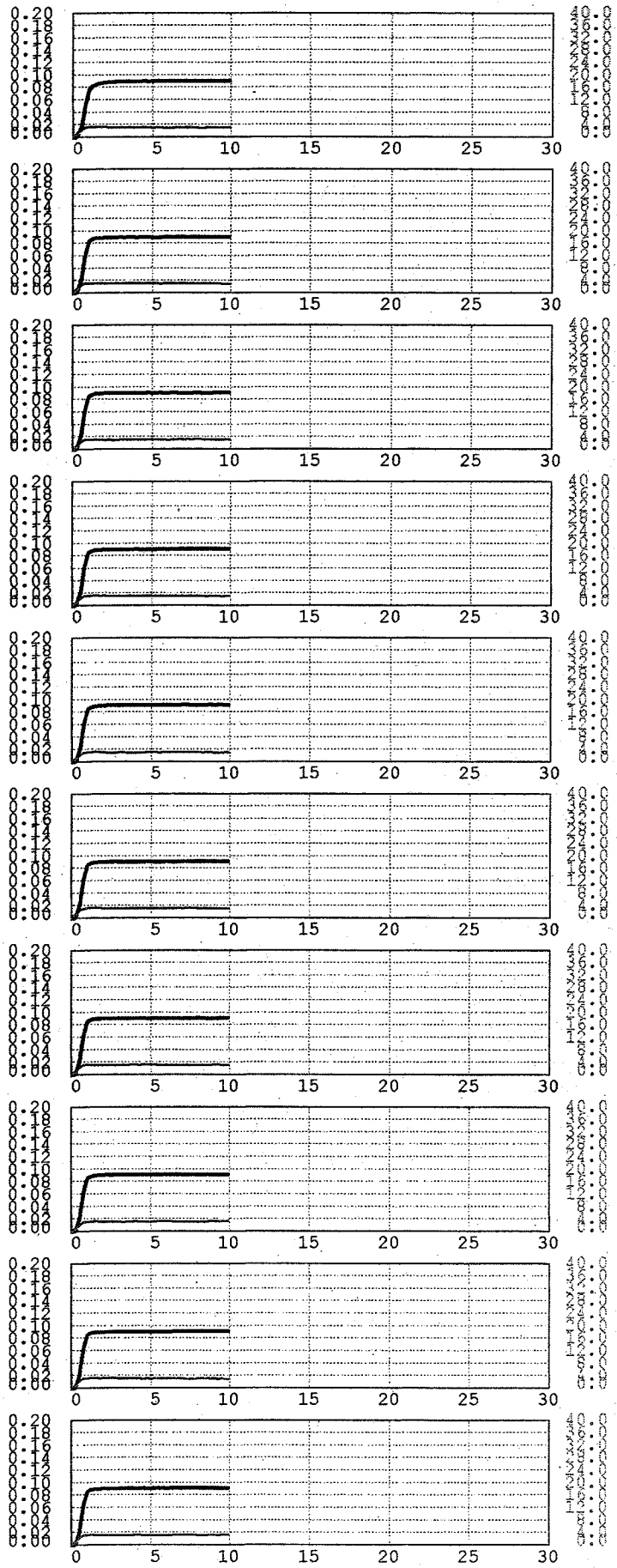
DataMaster DMT: 102806

Date: 03/06/2008
Time: 13:42:22

SUPERVISOR NAME: ALB 02ACETONE 08ETOH

SOLUTION LOT #: 07-09-08042
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:43
INTERNAL STANDARD	PASSED	13:43
Xq = 0.1217 (0.00%)		
SIMULATOR VAPOR	INTERFERENCE	13:43
X[1] = 0.0904 (-0.0106) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	13:44
X[1] = 0.0907 (-0.0114) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	13:45
X[1] = 0.0909 (-0.0112) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	13:46
X[1] = 0.0914 (-0.0106) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	13:47
X[1] = 0.0914 (-0.0107) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	13:48
X[1] = 0.0914 (-0.0110) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	13:49
X[1] = 0.0912 (-0.0110) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	13:50
X[1] = 0.0912 (-0.0111) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	13:51
X[1] = 0.0913 (-0.0107) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	13:52
X[1] = 0.0911 (-0.0108) (0.0009)		
BLANK TEST	0.000	13:53



05/06/2008 13:25

ACCURACY AND PRECISION TEST

STATE OF VERMONT

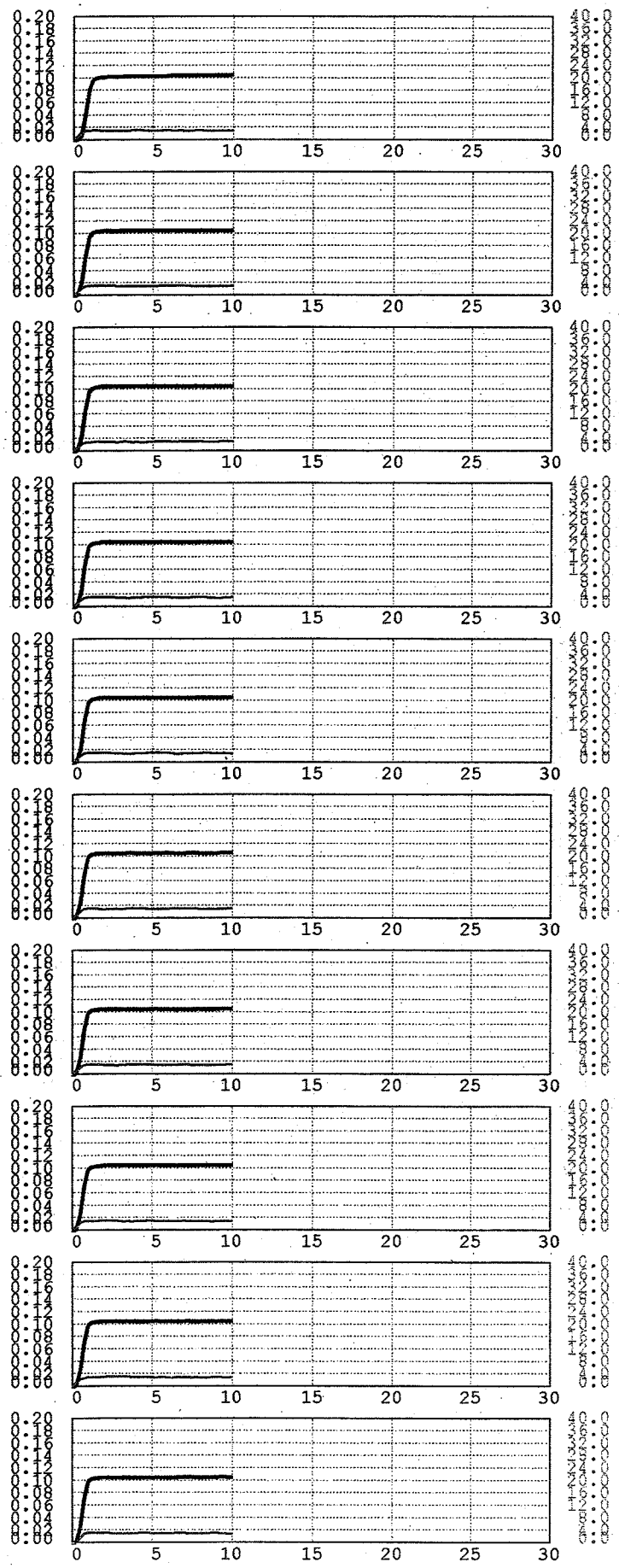
DataMaster DMT: 102806

Date: 03/06/2008
Time: 13:59:37

SUPERVISOR NAME: ALB 04IPA 08ETOH

SOLUTION LOT #: 07-09-080I4
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	14:00
INTERNAL STANDARD	PASSED	14:00
Xq = 0.1212 (0.44%)		
SIMULATOR VAPOR	INTERFERENCE	14:00
X[1] = 0.1042 (-0.0250) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	14:01
X[1] = 0.1046 (-0.0253) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	14:02
X[1] = 0.1041 (-0.0257) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	14:03
X[1] = 0.1042 (-0.0257) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	14:04
X[1] = 0.1048 (-0.0252) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:05
X[1] = 0.1051 (-0.0249) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	14:06
X[1] = 0.1049 (-0.0252) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:07
X[1] = 0.1044 (-0.0262) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	14:08
X[1] = 0.1047 (-0.0258) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	14:09
X[1] = 0.1049 (-0.0260) (0.0021)		
BLANK TEST	0.000	14:10



05/06/2008 13:26

ACCURACY AND PRECISION TEST

STATE OF VERMONT

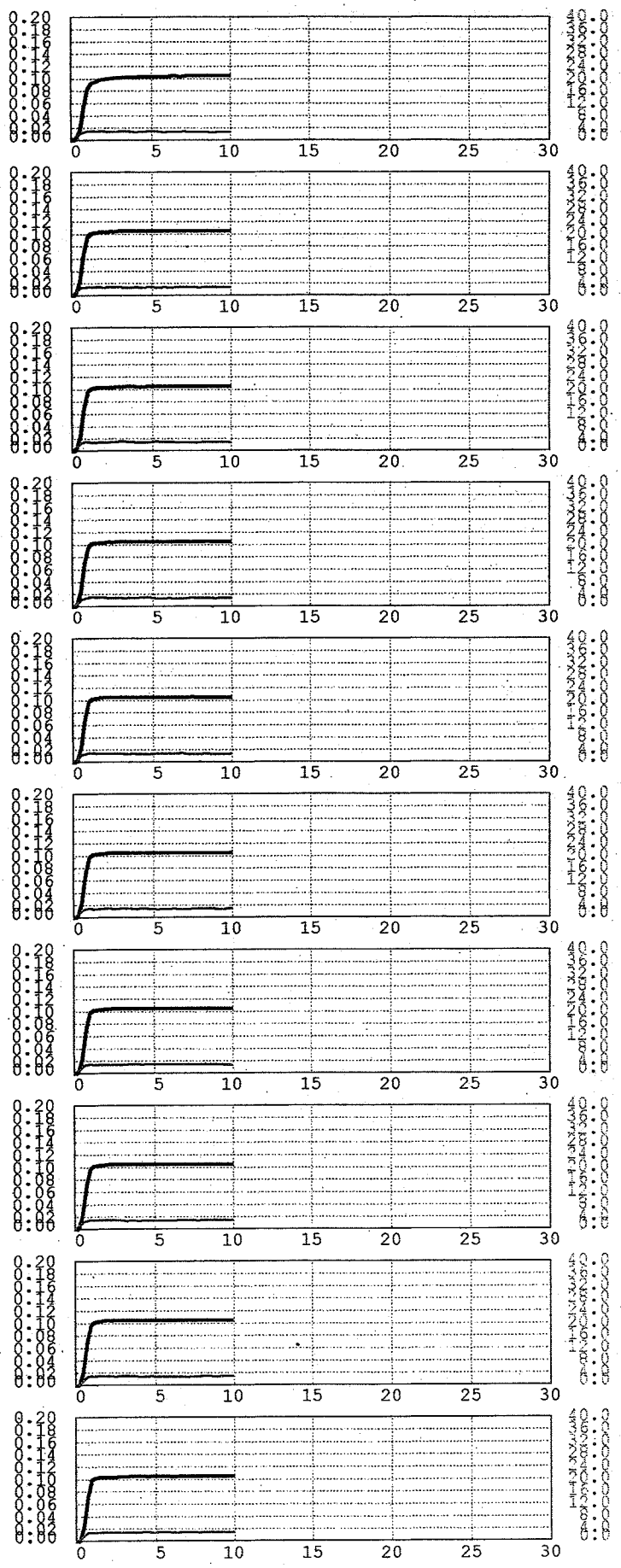
DataMaster DMT: 102806

Date: 03/06/2008
Time: 15:30:39

SUPERVISOR NAME: DMR 04 IPA IN 08 ETOH

SOLUTION LOT #: 07-09-08 I
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	15:31
INTERNAL STANDARD	PASSED	15:31
Xq = 0.1216 (0.078)		
SIMULATOR VAPOR	INTERFERENCE	15:32
X[1] = 0.1041 (-0.0249) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	15:33
X[1] = 0.1041 (-0.0258) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	15:34
X[1] = 0.1047 (-0.0257) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	15:34
X[1] = 0.1048 (-0.0259) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	15:35
X[1] = 0.1052 (-0.0253) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	15:36
X[1] = 0.1049 (-0.0259) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	15:37
X[1] = 0.1045 (-0.0261) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	15:38
X[1] = 0.1049 (-0.0256) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	15:39
X[1] = 0.1048 (-0.0255) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	15:40
X[1] = 0.1044 (-0.0261) (0.0008)		
BLANK TEST	0.000	15:41



03/06/2008 15:45

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date: 01/30/2008
Installation Date: 01/30/2008
Test Date: 03/07/2008
Time: 08:54

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube = 46.42°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.96 V
Cooler Voltage = 1.97 V
Bias Voltage = 120.6 V
Chopper Freq = 535.1 Hz

PUMP INFO
Flow Rate = 3.818 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0264	0.0266
MIN(V)	0.0248	0.0246

FILTER INFO
Filter 1 0.025 Zero = true
Filter 2 0.503 Zero = true
Filter 3 0.023 Zero = true

INTERNAL STANDARD
Xq = 0.1219 0.14%

03/07/2008 08:55

ACCURACY AND PRECISION TEST

STATE OF VERMONT

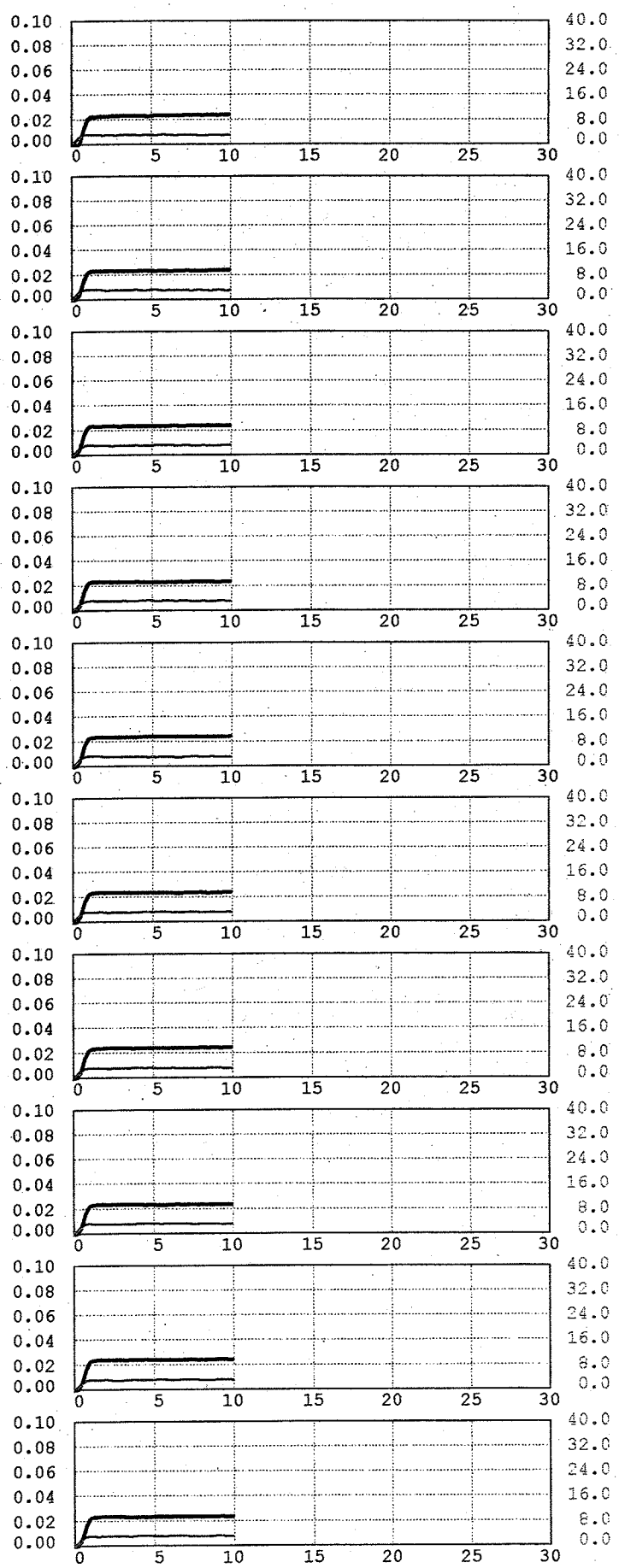
DataMaster DMT: 102806

Date: 03/07/2008
Time: 08:36:48

SUPERVISOR NAME: ALB 04IPA

SOLUTION LOT #: 08-13-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	08:37
INTERNAL STANDARD	PASSED	08:37
Xq = 0.1213 (0.37%)		
SIMULATOR VAPOR	INTERFERENCE	08:38
X[1] = 0.0247 (-0.0261) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	08:39
X[1] = 0.0245 (-0.0269) (-0.0002)		
SIMULATOR VAPOR	INTERFERENCE	08:40
X[1] = 0.0247 (-0.0268) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	08:41
X[1] = 0.0246 (-0.0270) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	08:42
X[1] = 0.0245 (-0.0271) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	08:43
X[1] = 0.0245 (-0.0280) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	08:44
X[1] = 0.0248 (-0.0272) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	08:45
X[1] = 0.0244 (-0.0272) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	08:46
X[1] = 0.0249 (-0.0274) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	08:47
X[1] = 0.0244 (-0.0276) (0.0007)		
BLANK TEST	0.000	08:47



05/06/2008 13:27

ACCURACY AND PRECISION TEST

STATE OF VERMONT

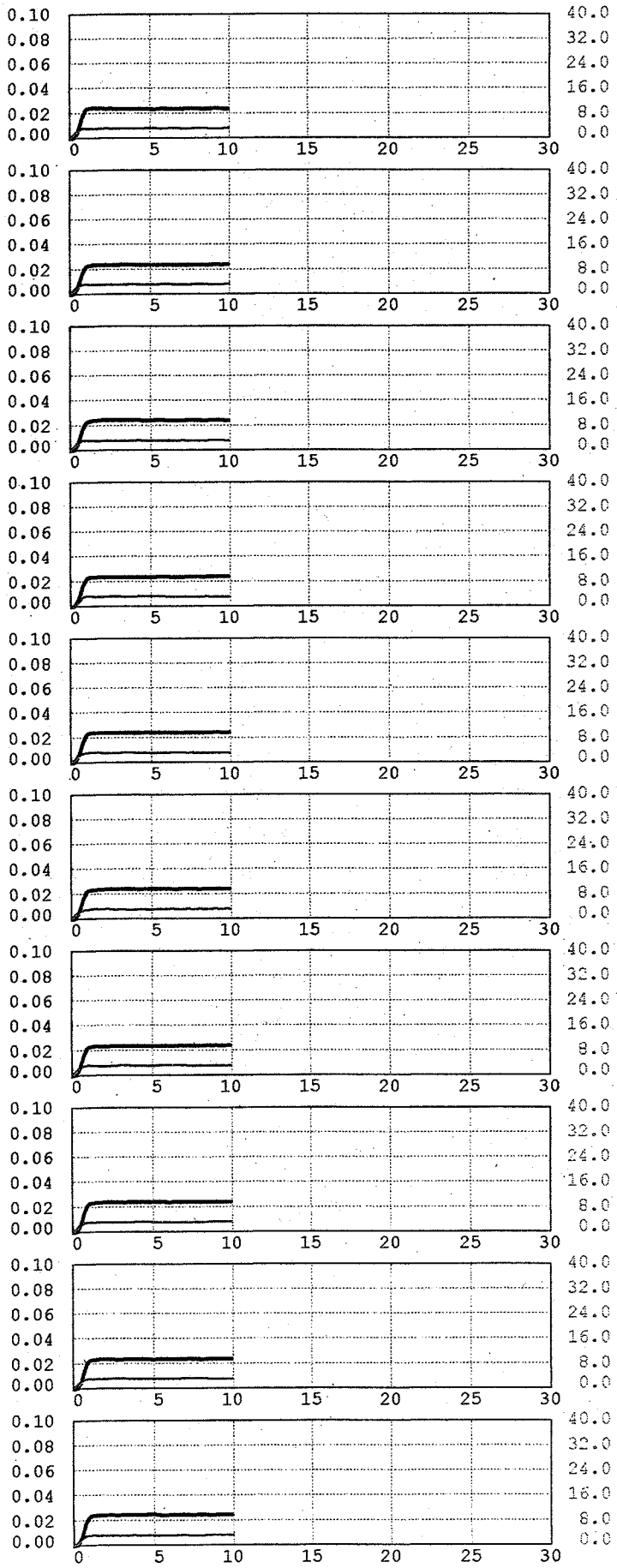
DataMaster DMT: 102806

Date: 03/07/2008
Time: 09:00:01

SUPERVISOR NAME: SEH .04IPA

SOLUTION LOT #: 08-13-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:00
INTERNAL STANDARD	PASSED	09:01
Xq = 0.1213 (0.37%)		
SIMULATOR VAPOR	INTERFERENCE	09:01
X[1] = 0.0242 (-0.0268) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	09:02
X[1] = 0.0242 (-0.0276) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	09:03
X[1] = 0.0244 (-0.0272) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	09:04
X[1] = 0.0243 (-0.0274) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	09:05
X[1] = 0.0247 (-0.0275) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	09:06
X[1] = 0.0245 (-0.0277) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	09:07
X[1] = 0.0242 (-0.0287) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	09:08
X[1] = 0.0244 (-0.0276) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	09:09
X[1] = 0.0241 (-0.0283) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	09:10
X[1] = 0.0247 (-0.0273) (0.0011)		
BLANK TEST	0.000	09:11



05/06/2008 13:28

Section 6: Mouth Alcohol

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

Date: 10/29/2007
Time: 09:22:48

Subject Name: 07-09-080 - TEST

Test Operator Name: R J D
Comment: MOUTH ALCOHOL 0.40 TYGON 0.0821 SIM

Obs. Period Start: 14:45

AMBIENT FAIL

Sim connected during purge. (RJD) 10/29/07

10/29/2007 09:23

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

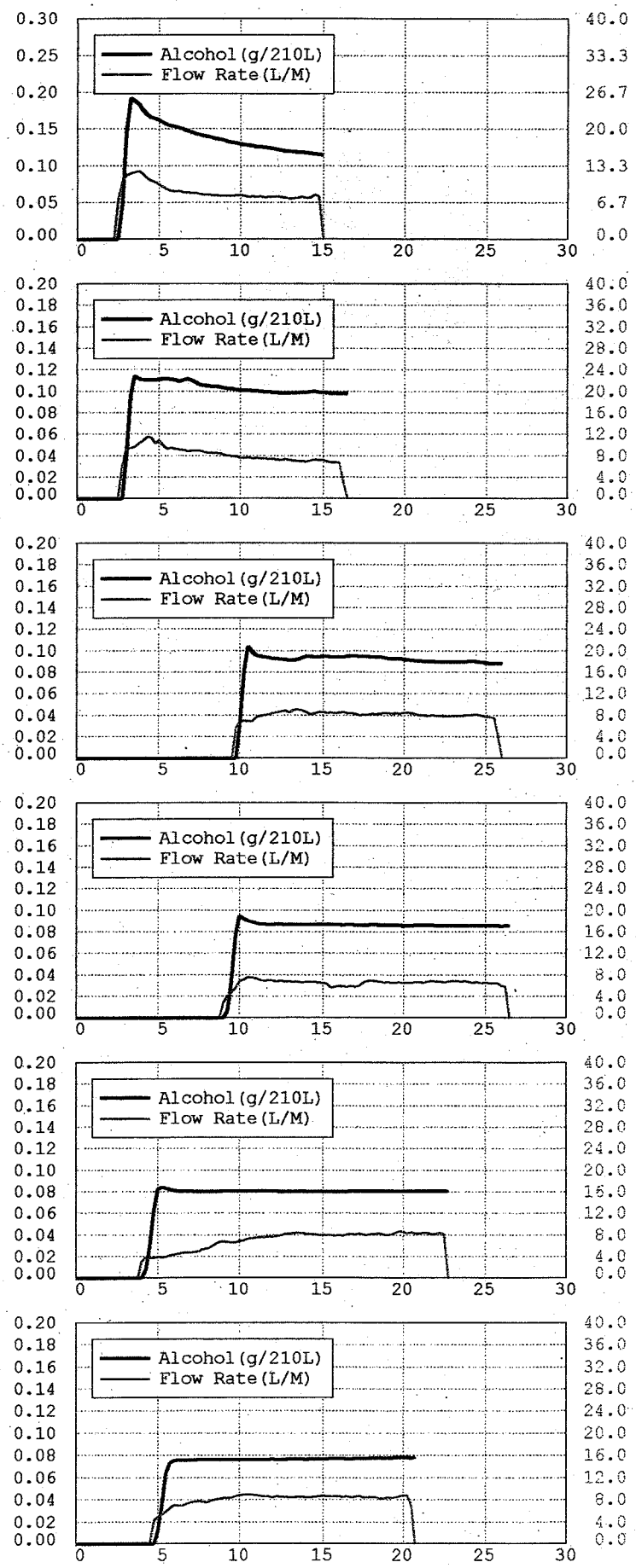
Installation Date:

Date: 10/29/2007
Time: 09:41:04

Subject Name: 07-09-080 TEST

Test Operator Name: R J D
Comment: MOUTH ALCOHOL TEST 0.040 TYGON 0.0821

BLANK TEST	0.000	09:42
INTERNAL STANDARD	PASSED	09:42
Xq = 0.1075 (0.33%)		
SUBJECT SAMPLE (Vol=1.7L)	INVALID	09:42
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:43
SUBJECT SAMPLE (Vol=1.8L)	INVALID	09:43
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:44
SUBJECT SAMPLE (Vol=2.1L)	INVALID	09:45
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:45
SUBJECT SAMPLE (Vol=1.8L)	INVALID	09:46
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:47
SUBJECT SAMPLE (Vol=2.1L)	0.081	09:47
X[1] = 0.0816 (-0.0031) (-0.0002)		
BLANK TEST	0.000	09:48
SUBJECT SAMPLE (Vol=2.1L)	0.078	09:48
X[1] = 0.0783 (-0.0026) (-0.0005)		



10/29/2007 09:49

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

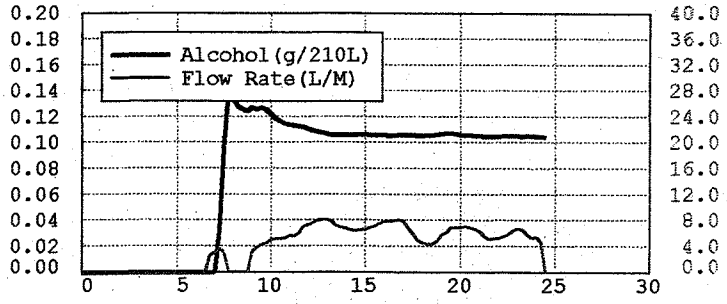
Certification Date:
Installation Date:

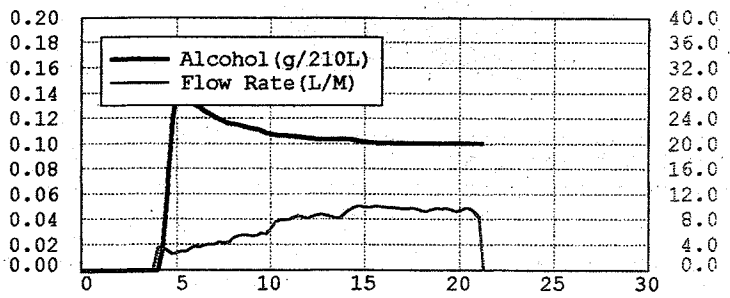
Date: 10/29/2007
Time: 14:40:52

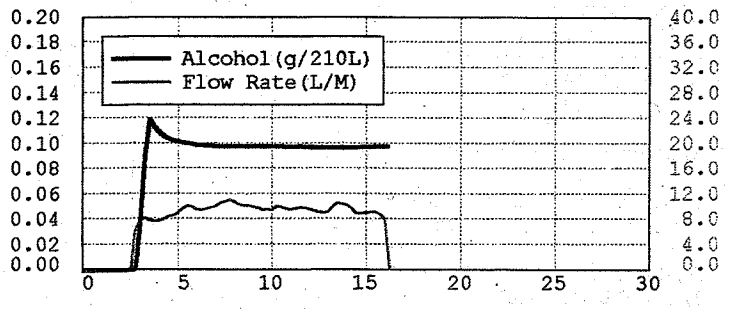
Subject Name: 07-09-080 MOUTH ALC

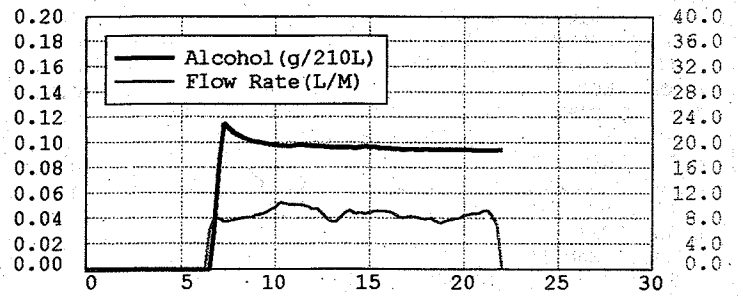
Test Operator Name: H X B
Comment: .4 TYGON 10MIN .0821 SIM

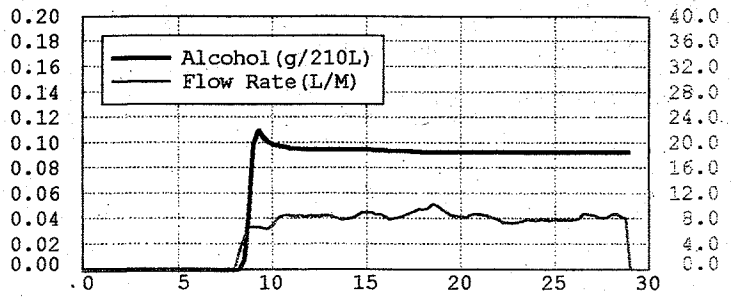
BLANK TEST	0.000	14:41
INTERNAL STANDARD	PASSED	14:41
Xq = 0.1069 (0.90%)		
SUBJECT SAMPLE (Vol=1.5L)	INVALID	14:42
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:43
SUBJECT SAMPLE (Vol=2.1L)	INVALID	14:43
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:44
SUBJECT SAMPLE (Vol=2.0L)	INVALID	14:44
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:45
SUBJECT SAMPLE (Vol=2.2L)	INVALID	14:45
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:46
SUBJECT SAMPLE (Vol=2.7L)	INVALID	14:46
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:47
SUBJECT SAMPLE (Vol=1.7L)	INVALID	14:47
X[1] = 0.0000 (0.0000) (0.0000)		

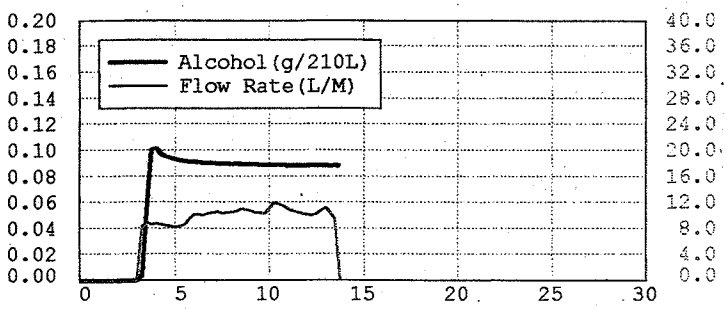












05/06/2008 13:29

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

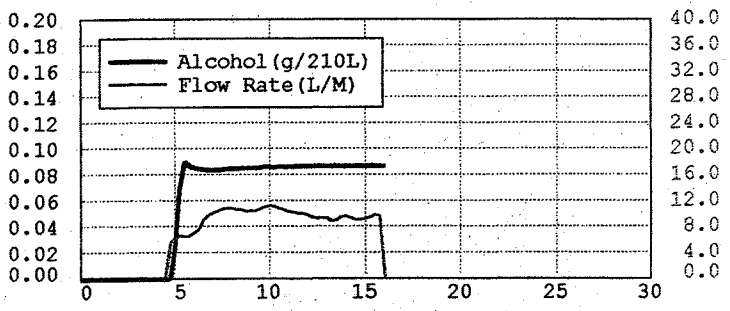
Certification Date:
Installation Date:

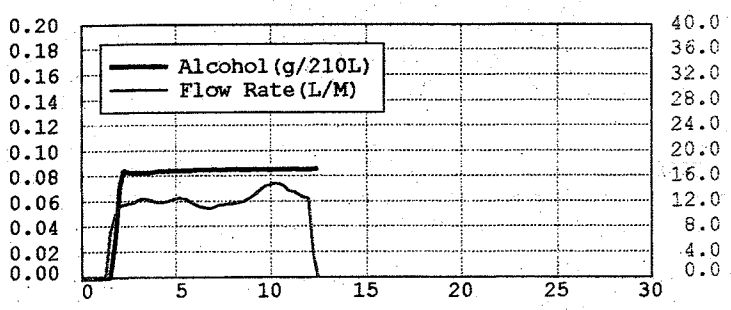
Date: 10/29/2007
Time: 14:49:00

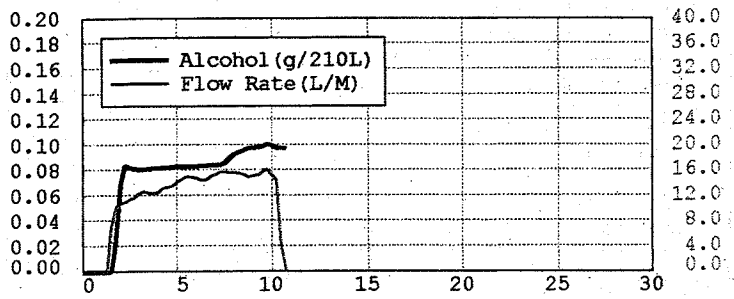
Subject Name: 07-09-080 MOUTH ALC

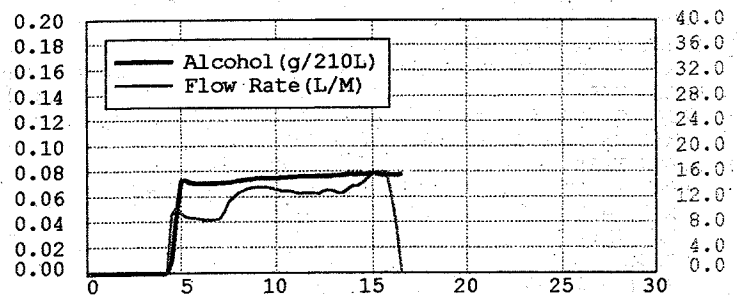
Test Operator Name: H X B
Comment: .4 TYGON 10MIN .0821 SIM CONTINUED

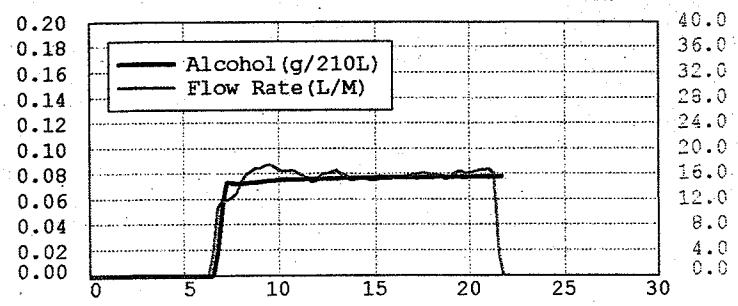
BLANK TEST	0.000	14:49
INTERNAL STANDARD	PASSED	14:50
Xq = 0.1071 (0.65%)		
SUBJECT SAMPLE (Vol=1.7L)	0.087	14:50
X[1] = 0.0878 (0.0005) (-0.0004)		
BLANK TEST	0.000	14:51
SUBJECT SAMPLE (Vol=2.1L)	0.086	14:51
X[1] = 0.0864 (0.0000) (-0.0010)		
BLANK TEST	0.000	14:52
SUBJECT SAMPLE (Vol=2.0L)	0.098	14:53
X[1] = 0.0982 (-0.0008) (-0.0018)		
BLANK TEST	0.000	14:54
SUBJECT SAMPLE (Vol=2.4L)	0.078	14:54
X[1] = 0.0787 (0.0007) (-0.0013)		
BLANK TEST	0.000	14:55
SUBJECT SAMPLE (Vol=3.8L)	0.078	14:55
X[1] = 0.0785 (0.0004) (-0.0020)		
BLANK TEST	0.000	14:56
SUBJECT SAMPLE (Vol=4.2L)	0.076	14:57
X[1] = 0.0761 (0.0005) (-0.0019)		

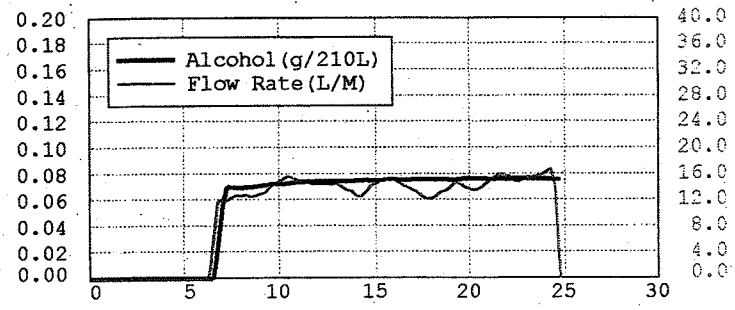












05/06/2008 13:29

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

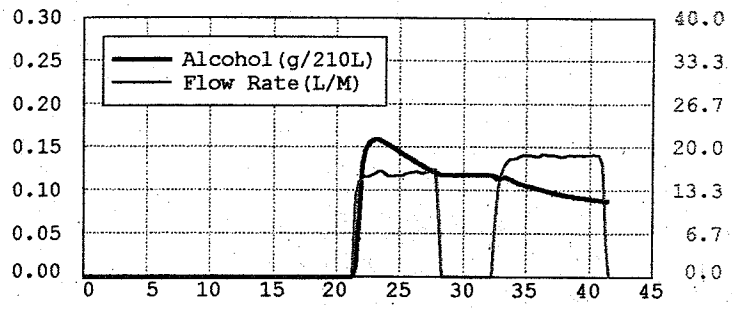
Certification Date:
Installation Date:

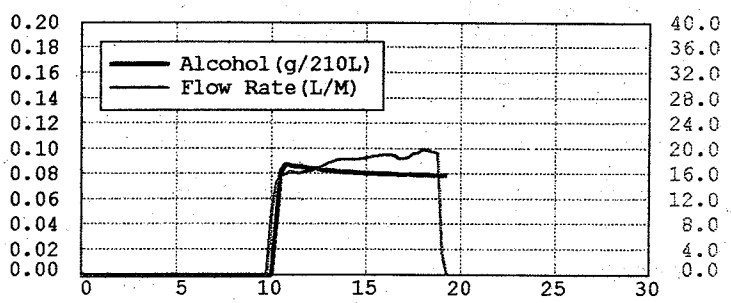
Date: 11/01/2007
Time: 11:17:18

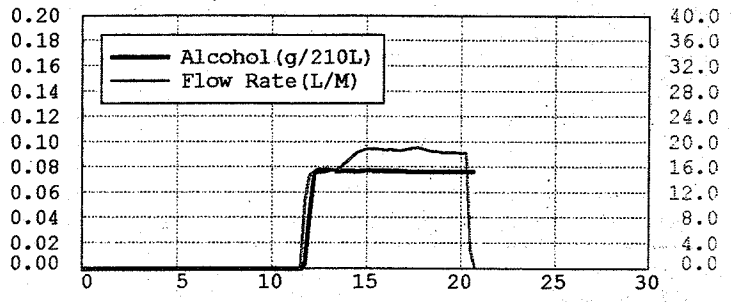
Subject Name: 07-09-080 TEST

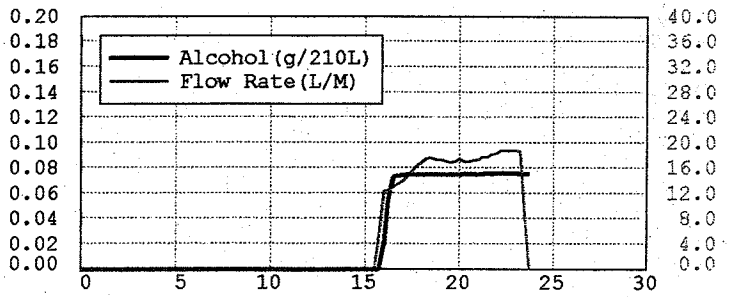
Test Operator Name: S E H
Comment: .40TYGON .0821SIM

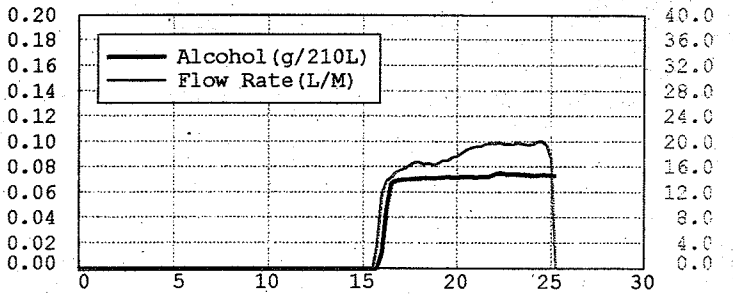
BLANK TEST	0.000	11:18
INTERNAL STANDARD	PASSED	11:18
Xq = 0.1076 (0.25%)		
SUBJECT SAMPLE (Vol=2.6L)	INVALID	11:19
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	11:19
SUBJECT SAMPLE (Vol=2.6L)	INVALID	11:20
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	11:21
SUBJECT SAMPLE (Vol=2.5L)	0.077	11:21
X[1] = 0.0775 (0.0002) (-0.0008)		
BLANK TEST	0.000	11:22
SUBJECT SAMPLE (Vol=2.1L)	0.076	11:23
X[1] = 0.0766 (-0.0002) (-0.0008)		
BLANK TEST	0.000	11:24
SUBJECT SAMPLE (Vol=2.7L)	0.074	11:24
X[1] = 0.0746 (-0.0006) (-0.0013)		
BLANK TEST	0.000	11:25
SUBJECT SAMPLE (Vol=3.3L)	0.072	11:26
X[1] = 0.0721 (0.0008) (-0.0015)		

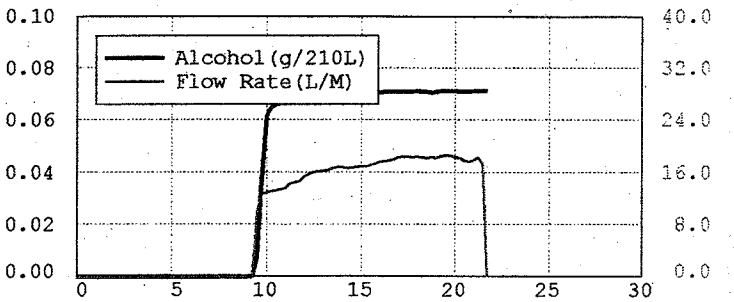












05/06/2008 13:31

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

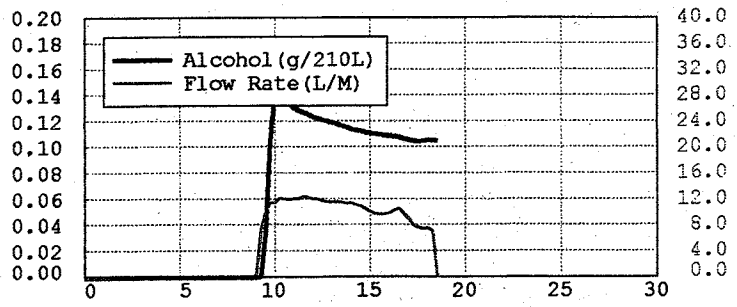
Certification Date:
Installation Date:

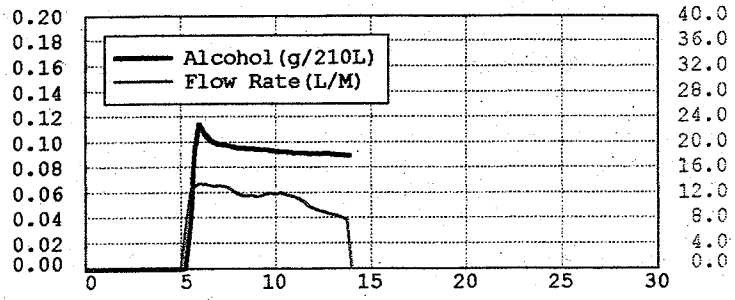
Date: 11/05/2007
Time: 10:23:33

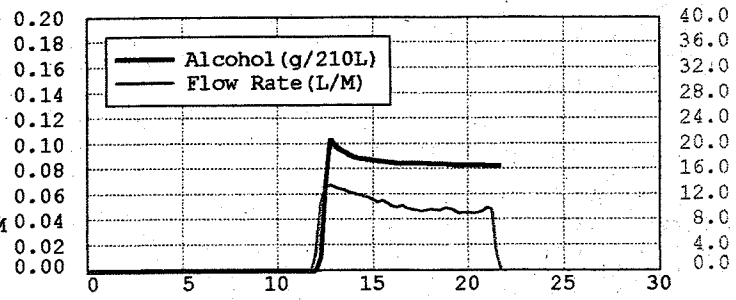
Subject Name: 07-09-080 TEST

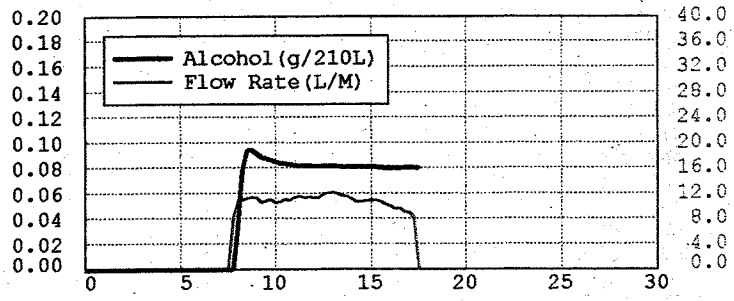
Test Operator Name: A L B
Comment: .40TYGON 10MIN FILL/30MIN WAIT .0821SIM

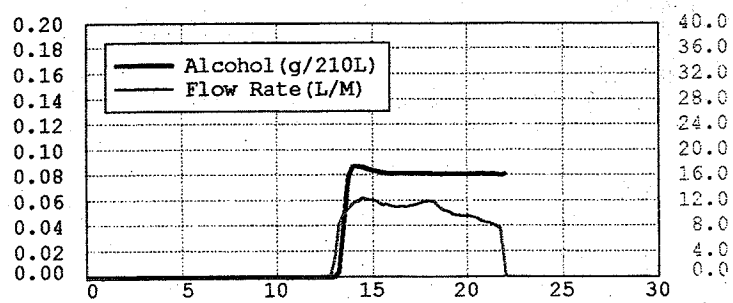
BLANK TEST	0.000	10:24
INTERNAL STANDARD	PASSED	10:24
Xq = 0.1077 (0.16%)		
SUBJECT SAMPLE (Vol=1.6L)	INVALID	10:25
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:25
SUBJECT SAMPLE (Vol=1.6L)	INVALID	10:25
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:26
SUBJECT SAMPLE (Vol=1.6L)	INVALID	10:27
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:27
SUBJECT SAMPLE (Vol=1.7L)	INVALID	10:27
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:28
SUBJECT SAMPLE (Vol=1.5L)	INVALID	10:29
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:29
SUBJECT SAMPLE (Vol=1.7L)	INVALID	10:30
X[1] = 0.0000 (0.0000) (0.0000)		

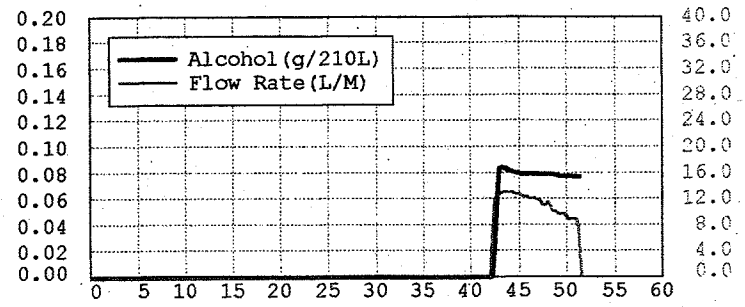












05/06/2008 13:32

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

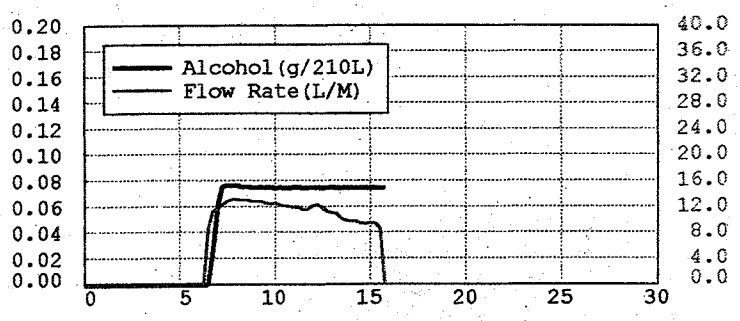
Certification Date:
Installation Date:

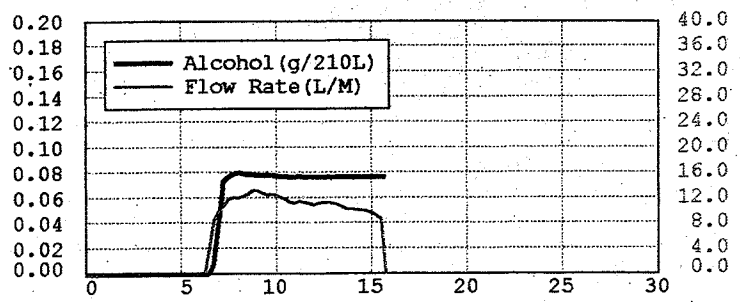
Date: 11/05/2007
Time: 10:32:01

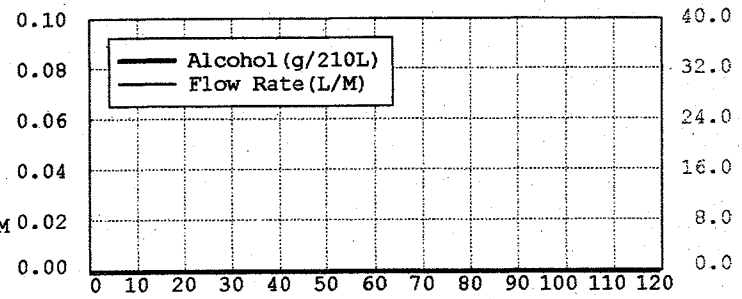
Subject Name: 07-09-080 TEST/CONTINUED

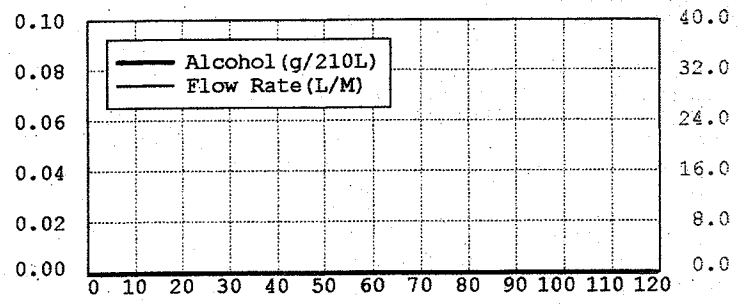
Test Operator Name: A L B
Comment: .40TYGON 10MIN FILL/30MIN WAIT .0821SIM

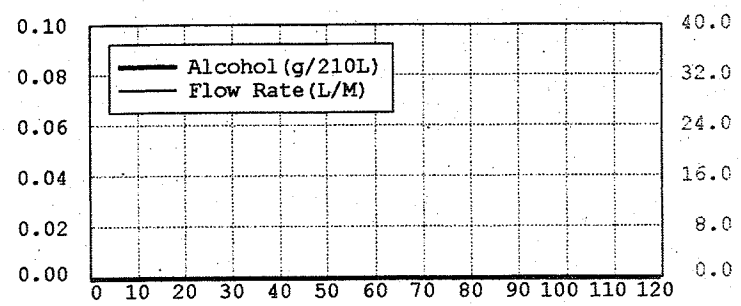
BLANK TEST	0.000	10:32
INTERNAL STANDARD	PASSED	10:33
Xq = 0.1067 (1.06%)		
SUBJECT SAMPLE (Vol=1.7L)	0.075	10:33
X[1] = 0.0755 (-0.0017) (-0.0024)		
BLANK TEST	0.000	10:34
SUBJECT SAMPLE (Vol=1.6L)	0.077	10:34
X[1] = 0.0773 (0.0003) (-0.0006)		
BLANK TEST	0.000	10:35
SUBJECT SAMPLE	REFUSED	10:37
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:38
SUBJECT SAMPLE	REFUSED	10:40
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:40
SUBJECT SAMPLE	REFUSED	10:42
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:43
SUBJECT SAMPLE	REFUSED	10:45
X[1] = 0.0000 (0.0000) (0.0000)		

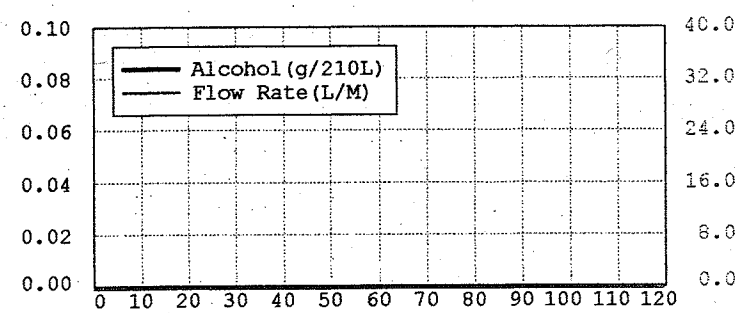












05/06/2008 13:33

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

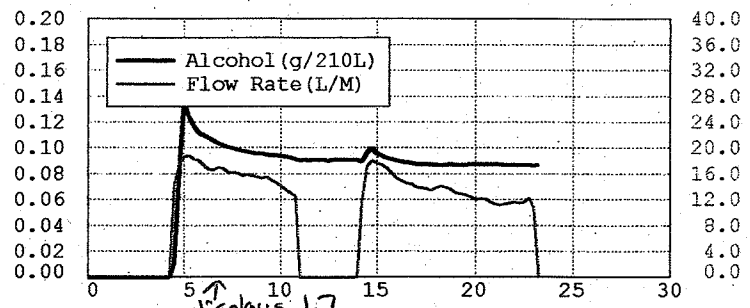
Installation Date:

Date: 11/06/2007
Time: 17:06:02

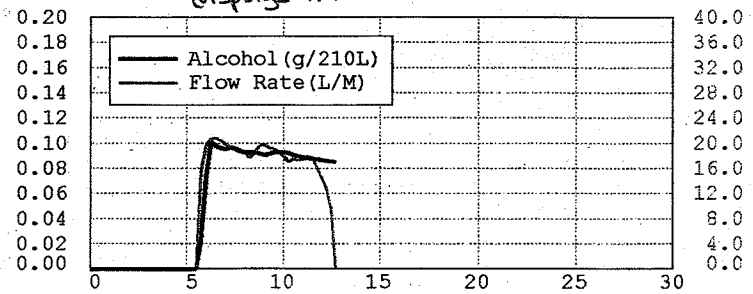
Subject Name: D M R

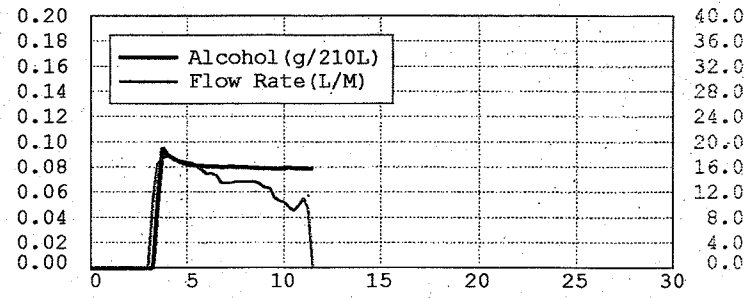
Test Operator Name: D M R
Comment: MOUTH ALCOHOL TESTING

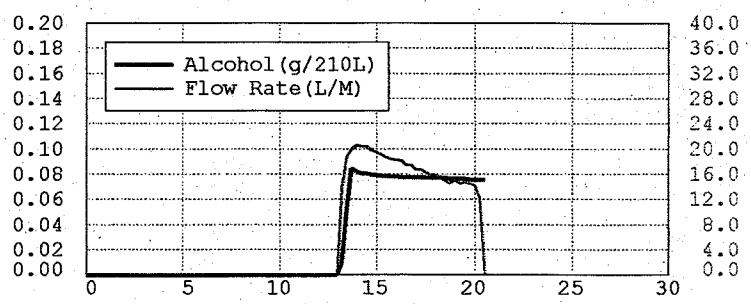
BLANK TEST	0.000	17:06
INTERNAL STANDARD	PASSED	17:07
Xq = 0.1077 (0.08%)		
SUBJECT SAMPLE (Vol=2.0L)	INVALID	17:07
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:08
SUBJECT SAMPLE (Vol=2.0L)	INVALID	17:08
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:09
SUBJECT SAMPLE (Vol=1.8L)	INVALID	17:10
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:10
SUBJECT SAMPLE (Vol=2.0L)	INVALID	17:11
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:11
SUBJECT SAMPLE (Vol=1.8L)	INVALID	17:12
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:12
SUBJECT SAMPLE (Vol=1.8L)	INVALID	17:13
X[1] = 0.0000 (0.0000) (0.0000)		

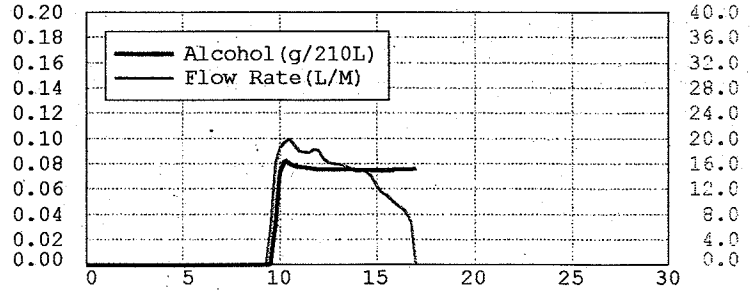


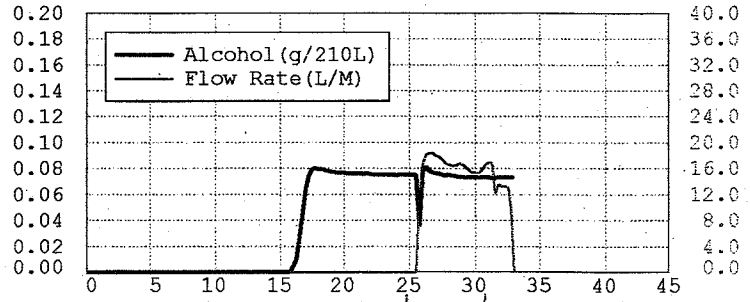
displays 1.7











tubing kinked, volume not registering although alcohol reads consistent. unkinked tubing.

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

Date: 11/06/2007
Time: 17:24:40

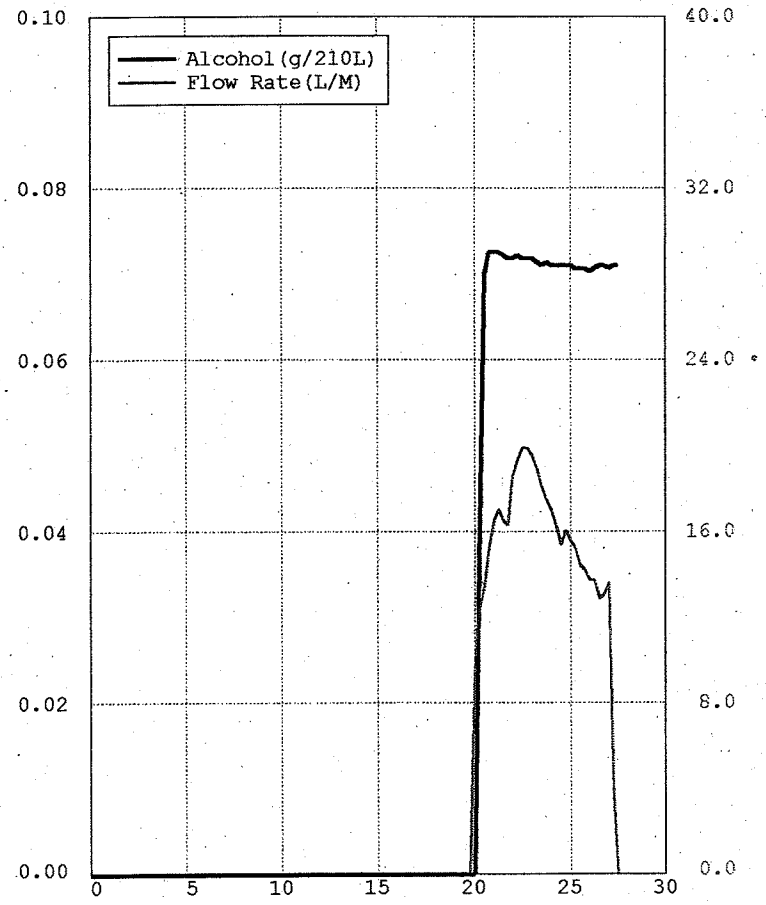
Subject Name: D M R

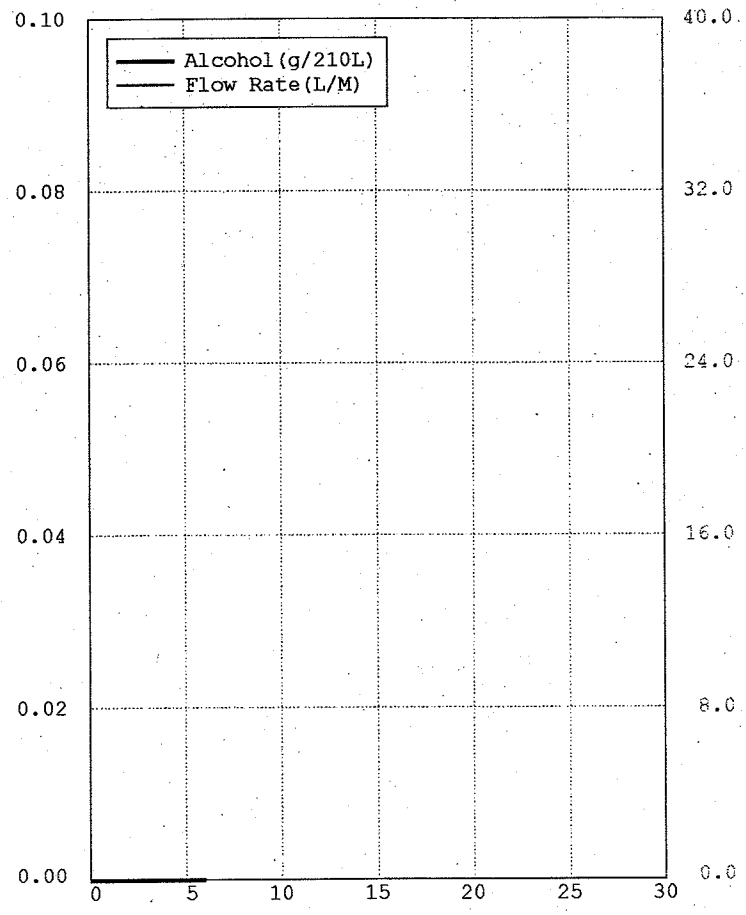
Test Operator Name: D M R
Comment: MOUTH ALCOHOL TESTING

BLANK TEST	0.000	17:25
INTERNAL STANDARD	PASSED	17:25
Xq = 0.1073 (0.49%)		
SUBJECT SAMPLE (Vol=1.9L)	0.071	17:26
X[1] = 0.0716 (-0.0011)	(-0.0001)	
BLANK TEST	0.000	17:27

USER ABORT

Continued from previous





11/06/2007 17:27

Section 7: Temperature Monitoring

This Instrument not tested for this specification

Section 8: Breath Volume

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

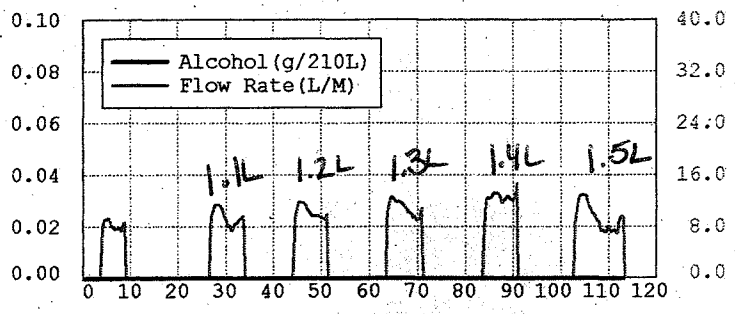
Installation Date:

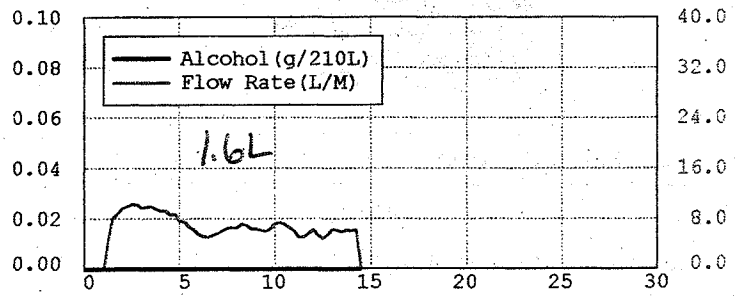
Date: 10/17/2007
Time: 14:05:15

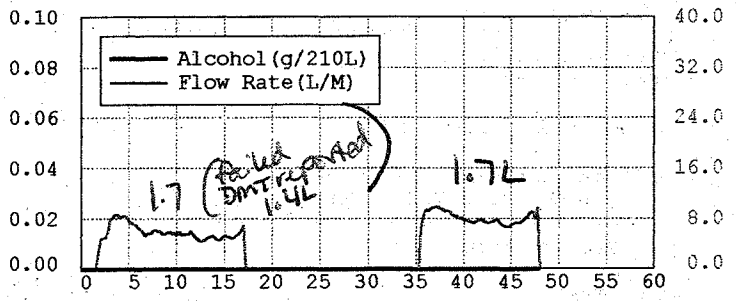
Subject Name: TEST TEST

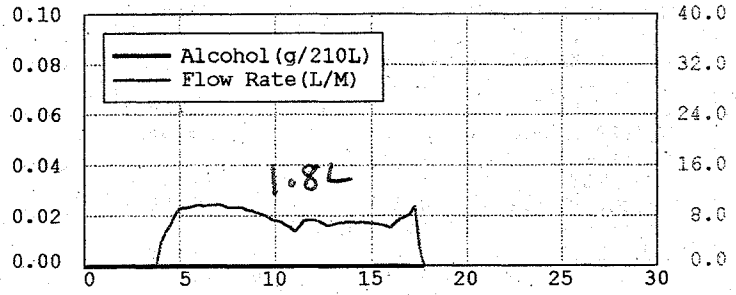
Test Operator Name: A L B
Comment: VOLUME TEST

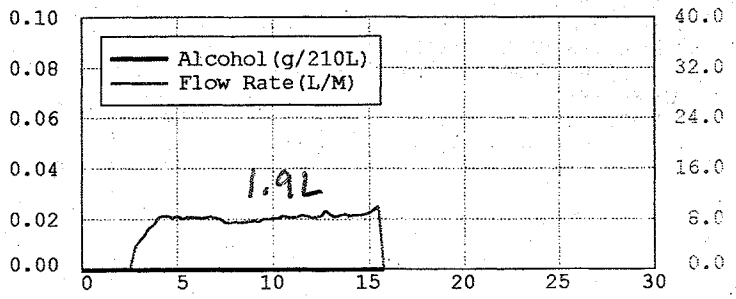
Obs. Period Start:		14:45
BLANK TEST	0.000	14:06
INTERNAL STANDARD	PASSED	14:06
SUBJECT SAMPLE (Vol=1.6L)	0.000	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE (Vol=1.5L)	0.000	14:09
BLANK TEST	0.000	14:10
SUBJECT SAMPLE (Vol=1.6L)	0.000	14:11
BLANK TEST	0.000	14:11
SUBJECT SAMPLE (Vol=1.7L)	0.000	14:12
BLANK TEST	0.000	14:13
SUBJECT SAMPLE (Vol=1.7L)	0.000	14:13
BLANK TEST	0.000	14:14
SUBJECT SAMPLE (Vol=1.8L)	0.000	14:14

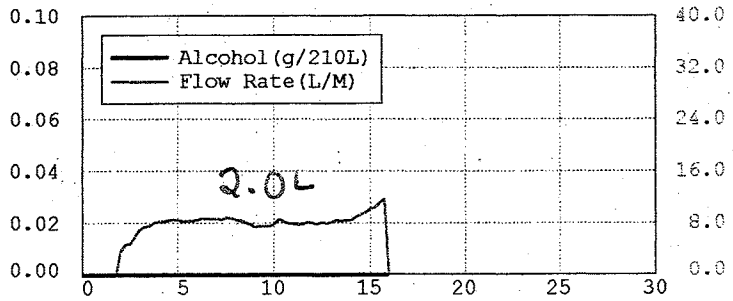












10/17/2007 14:15

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

Date: 10/24/2007
Time: 08:53:39

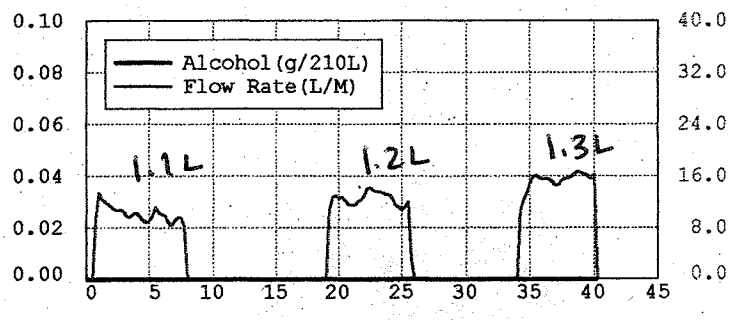
Subject Name: 1.1L - 2.0L

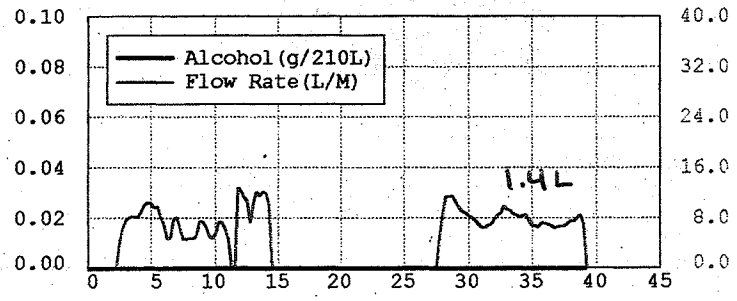
Test Operator Name: R J D
Comment: BREATH VOLUME ACCURACY TEST

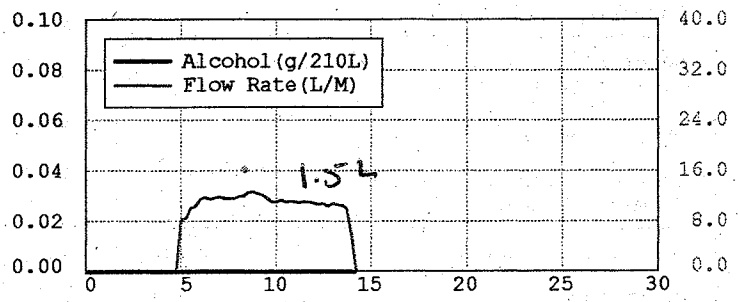
Obs. Period Start:		14:45
BLANK TEST	0.000	08:54
INTERNAL STANDARD	PASSED	08:54
Xq = 0.1072 (0.57%)		
SUBJECT SAMPLE (Vol=1.5L)	0.000	08:55
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	08:56
SUBJECT SAMPLE (Vol=1.5L)	0.000	08:56
X[1] = 0.0002 (0.0002) (0.0001)		
BLANK TEST	0.000	08:57
SUBJECT SAMPLE (Vol=1.6L)	0.000	08:58
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	08:58
SUBJECT SAMPLE (Vol=1.8L)	0.000	08:59
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	08:59
SUBJECT SAMPLE (Vol=1.9L)	0.000	09:00
X[1] = 0.0000 (0.0000) (-0.0004)		
BLANK TEST	0.000	09:00
SUBJECT SAMPLE (Vol=2.0L)	0.000	09:01
X[1] = 0.0000 (0.0000) (0.0000)		

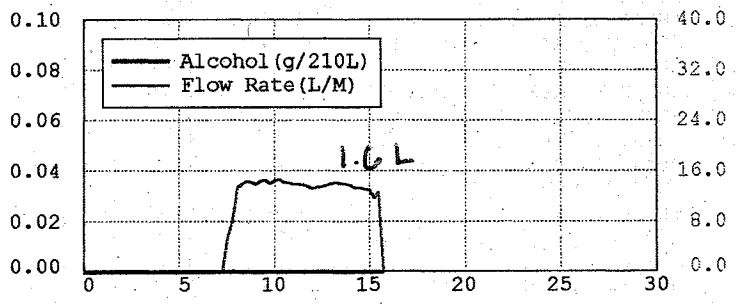
10/24/07

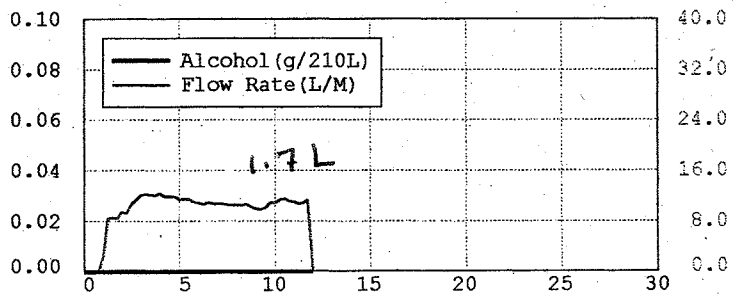
RJD

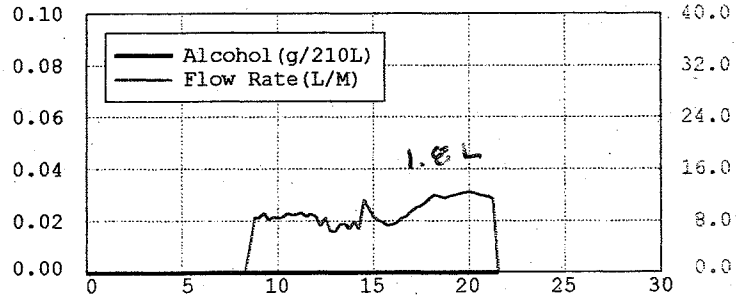












DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

Date: 10/24/2007
Time: 09:02:58

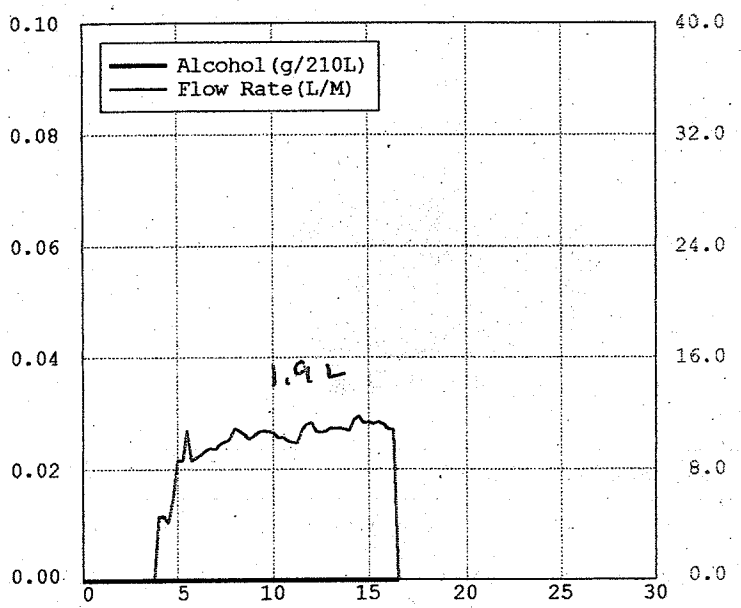
Subject Name: 1.1L - 2.0L

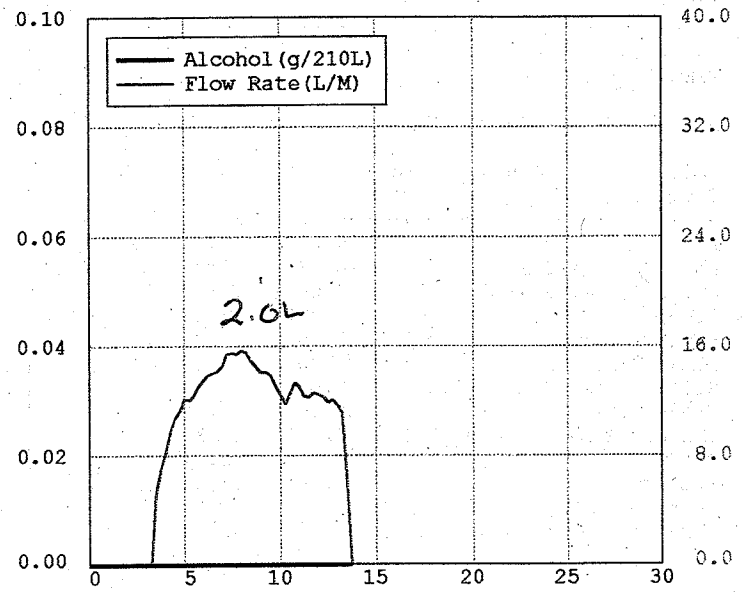
Test Operator Name: R J D
Comment: BREATH VOLUME ACCURACY TEST

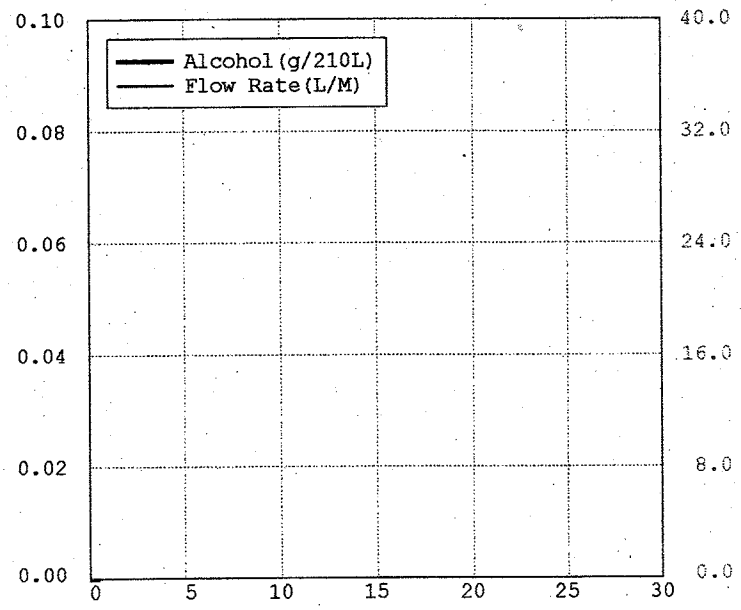
Obs. Period Start:		14:45
BLANK TEST	0.000	09:03
INTERNAL STANDARD	PASSED	09:04
Xq = 0.1096 (1.63%)		
SUBJECT SAMPLE (Vol=2.0L)	0.000	09:04
X[1] = 0.0023 (0.0026) (0.0010)		
BLANK TEST	0.000	09:05
SUBJECT SAMPLE (Vol=2.1L)	0.000	09:05
X[1] = 0.0000 (0.0000) (-0.0004)		
BLANK TEST	0.000	09:06

USER ABORT

10/24/07
RJD







DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

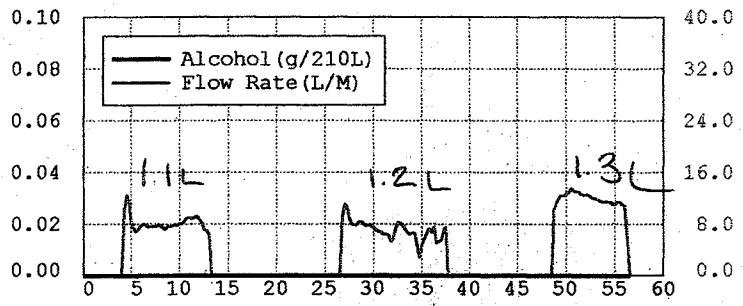
Installation Date:

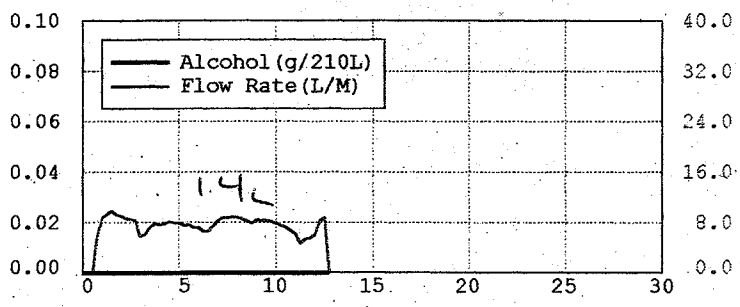
Date: 10/29/2007
Time: 13:25:30

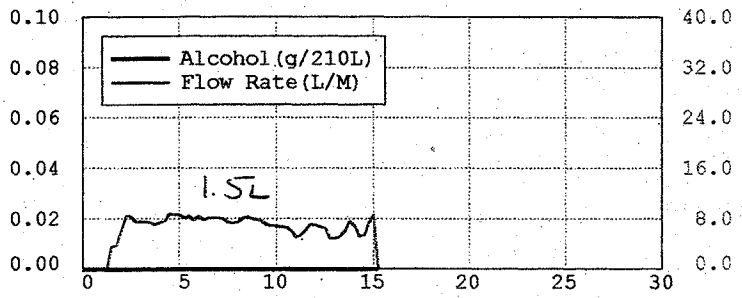
Subject Name: VOLUME TEST

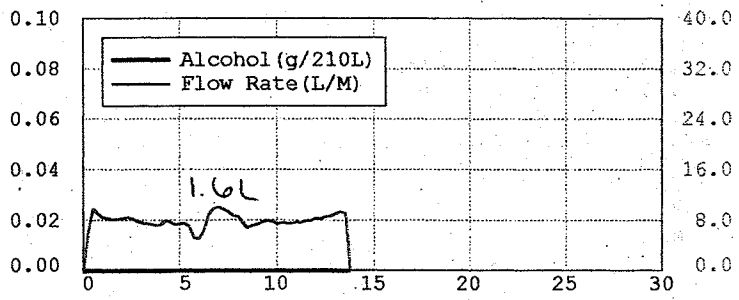
Test Operator Name: H X B
Comment:

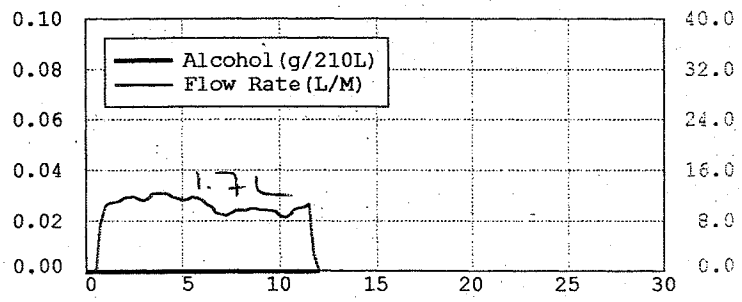
BLANK TEST	0.000	13:26
INTERNAL STANDARD	PASSED	13:26
SUBJECT SAMPLE (Vol=1.5L)	0.000	13:27
BLANK TEST	0.000	13:28
SUBJECT SAMPLE (Vol=1.5L)	0.000	13:28
BLANK TEST	0.000	13:29
SUBJECT SAMPLE (Vol=1.6L)	0.000	13:29
BLANK TEST	0.000	13:30
SUBJECT SAMPLE (Vol=1.7L)	0.000	13:30
BLANK TEST	0.000	13:31
SUBJECT SAMPLE (Vol=1.9L)	0.000	13:31
BLANK TEST	0.000	13:32
SUBJECT SAMPLE (Vol=2.0L)	0.000	13:32

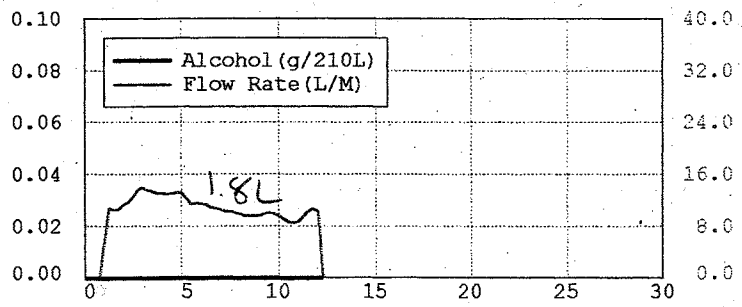












DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

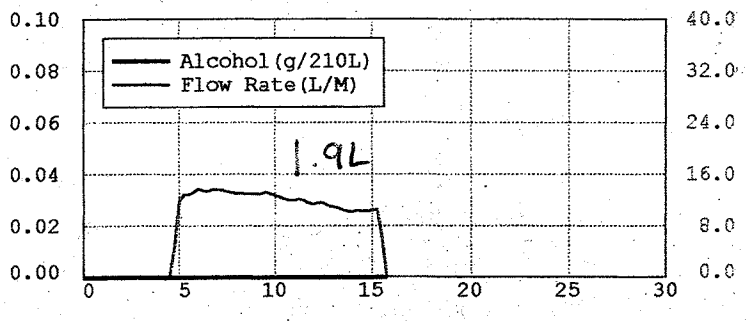
Installation Date:

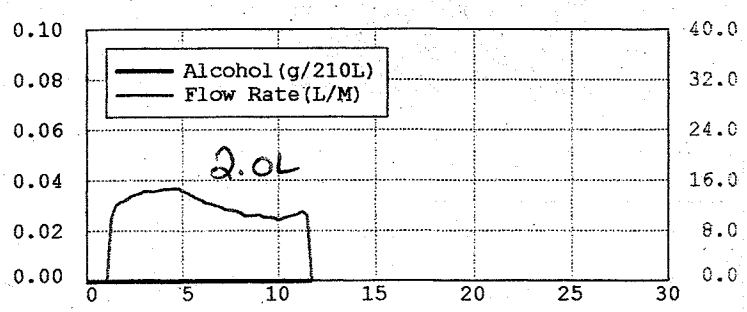
Date: 10/29/2007
Time: 13:34:39

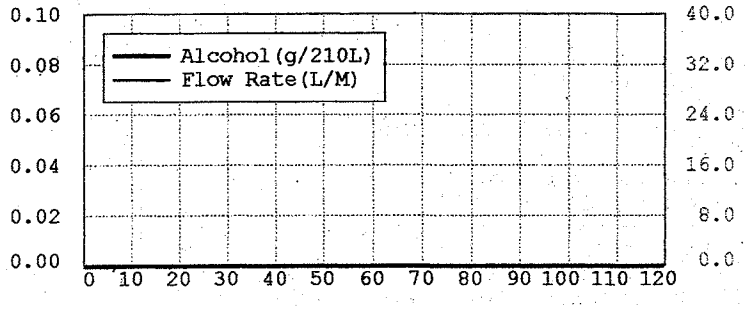
Subject Name: VOLUME TEST

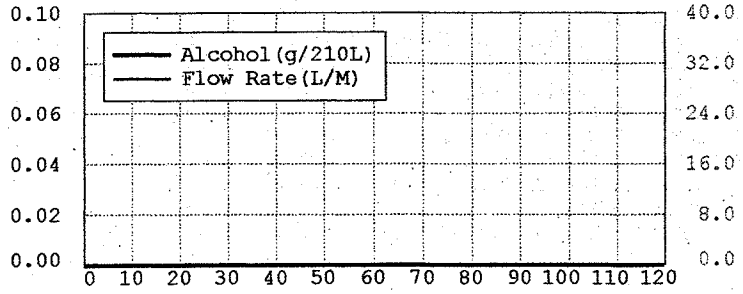
Test Operator Name: H X B
Comment:

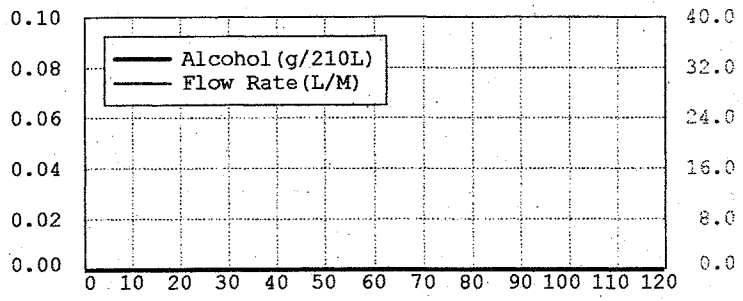
BLANK TEST	0.000	13:35
INTERNAL STANDARD	PASSED	13:35
SUBJECT SAMPLE (Vol=2.1L)	0.000	13:36
BLANK TEST	0.000	13:36
SUBJECT SAMPLE (Vol=2.1L)	0.000	13:37
BLANK TEST	0.000	13:37
SUBJECT SAMPLE	INCOMPLETE	13:39
BLANK TEST	0.000	13:40
SUBJECT SAMPLE	INCOMPLETE	13:42
BLANK TEST	0.000	13:43
SUBJECT SAMPLE	INCOMPLETE	13:45
BLANK TEST	0.000	13:45
SUBJECT SAMPLE	INCOMPLETE	13:47

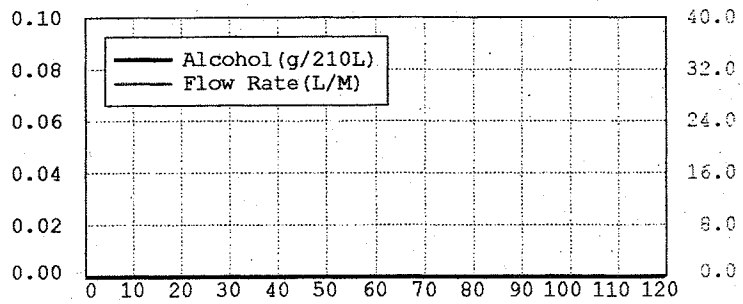












10/29/2007 13:48

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

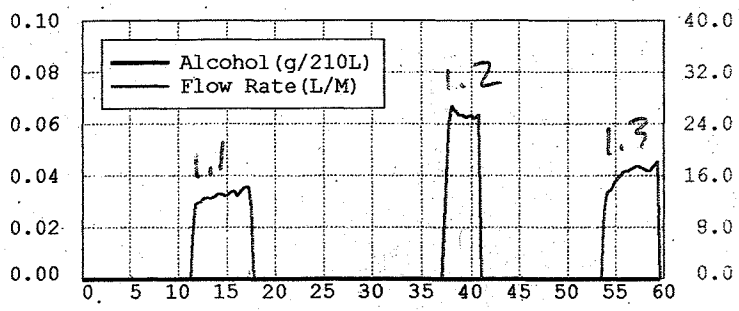
Installation Date:

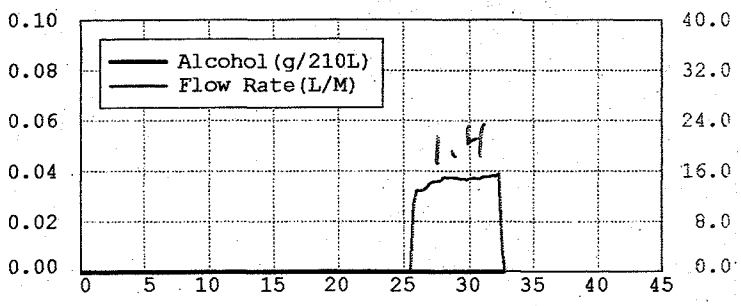
Date: 10/30/2007
Time: 10:29:45

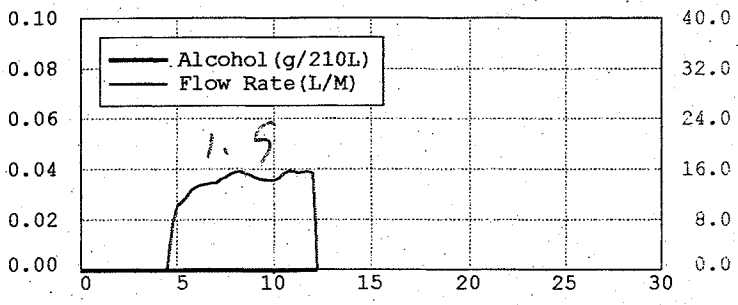
Subject Name: VOLUME A TEST

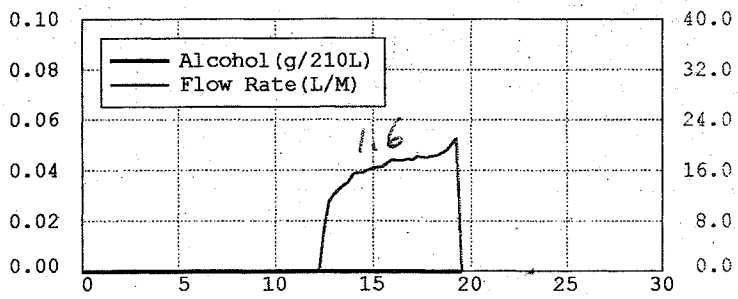
Test Operator Name: S E H
Comment: BREATH VAOLUME TEST

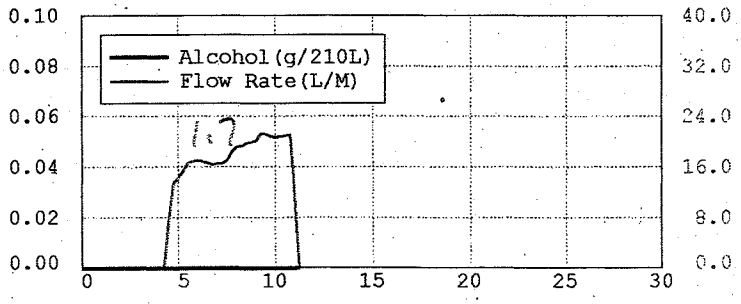
BLANK TEST	0.000	10:30
INTERNAL STANDARD	PASSED	10:30
SUBJECT SAMPLE (Vol=1.5L)	0.000	10:31
BLANK TEST	0.000	10:32
SUBJECT SAMPLE (Vol=1.6L)	0.000	10:33
BLANK TEST	0.000	10:34
SUBJECT SAMPLE (Vol=1.7L)	0.000	10:34
BLANK TEST	0.000	10:35
SUBJECT SAMPLE (Vol=1.9L)	0.000	10:35
BLANK TEST	0.000	10:36
SUBJECT SAMPLE (Vol=1.9L)	0.000	10:36
BLANK TEST	0.000	10:37
SUBJECT SAMPLE (Vol=2.0L)	0.000	10:37

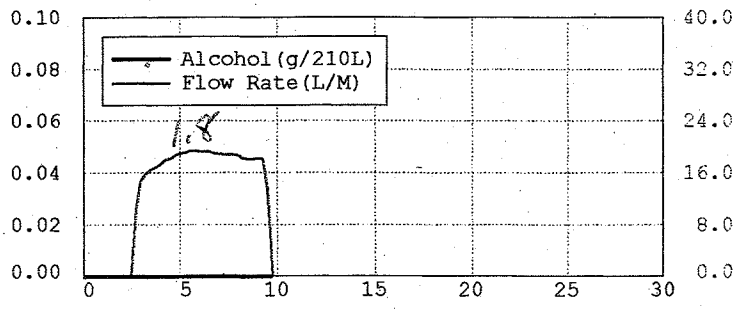












10/30/2007 10:37

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

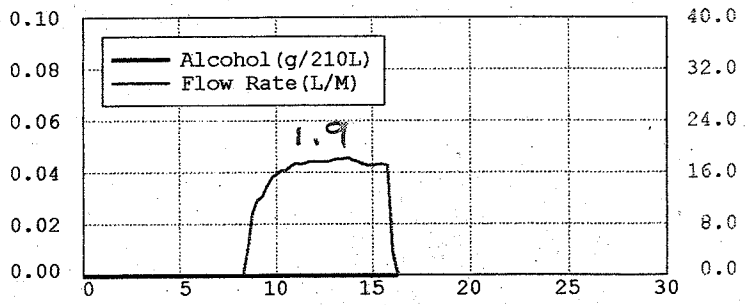
Installation Date:

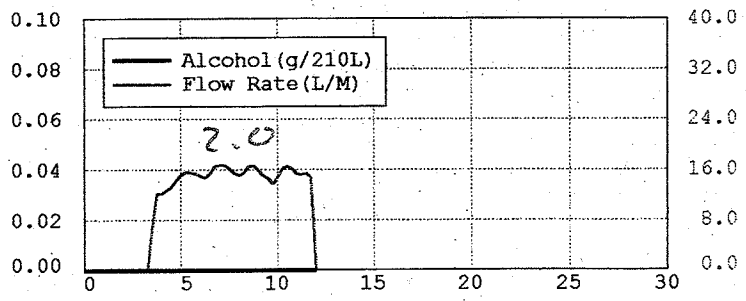
Date: 10/30/2007
Time: 10:39:08

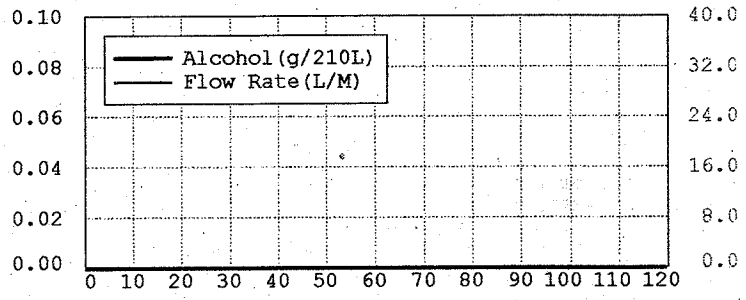
Subject Name: VOLUME B TEST

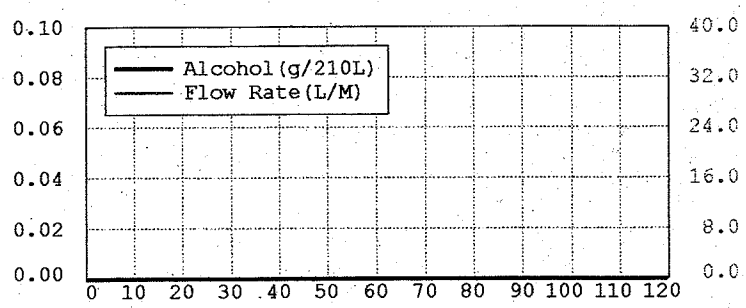
Test Operator Name: S E H
Comment: BREATH VOLUME TEST

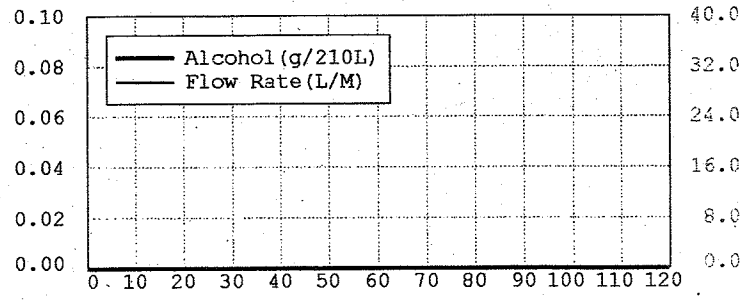
BLANK TEST	0.000	10:40
INTERNAL STANDARD	PASSED	10:40
SUBJECT SAMPLE (Vol=2.0L)	0.000	10:40
BLANK TEST	0.000	10:41
SUBJECT SAMPLE (Vol=2.1L)	0.000	10:41
BLANK TEST	0.000	10:42
SUBJECT SAMPLE	REFUSED	10:44
BLANK TEST	0.000	11:12
SUBJECT SAMPLE	REFUSED	11:14
BLANK TEST	0.000	11:14
SUBJECT SAMPLE	REFUSED	11:16
BLANK TEST	0.000	11:17
SUBJECT SAMPLE	REFUSED	11:19

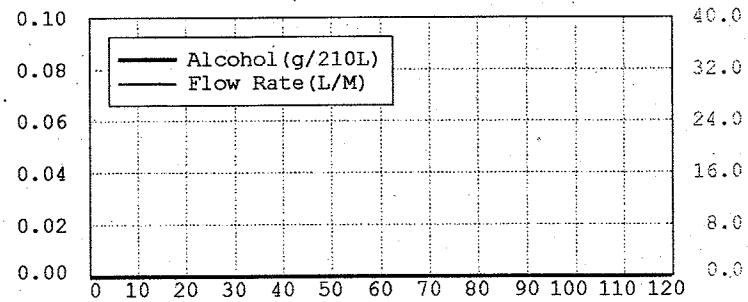












10/30/2007 11:21

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

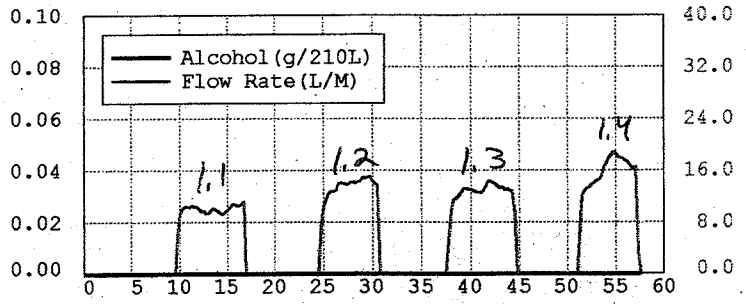
Installation Date:

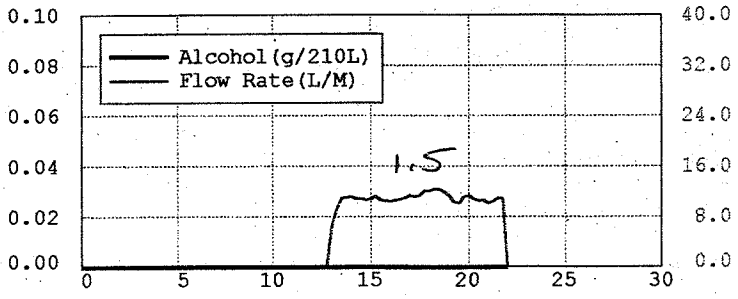
Date: 11/06/2007
Time: 15:54:32

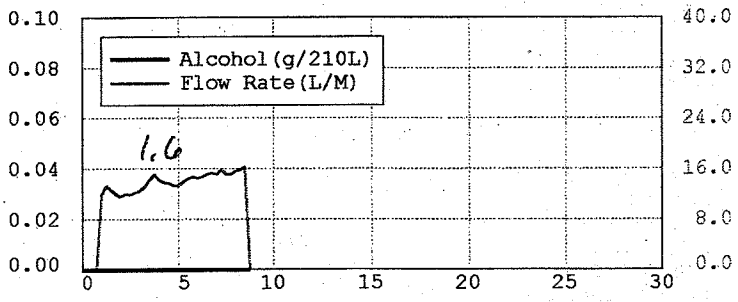
Subject Name: D M R

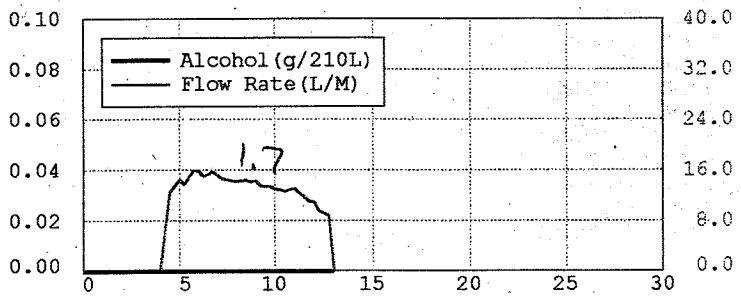
Test Operator Name: D M R
Comment: BREATH VOLUME TESTING

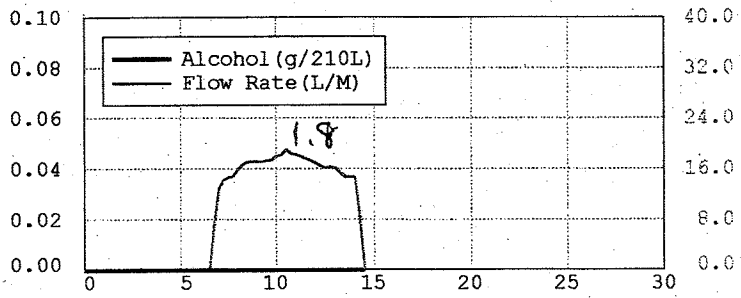
BLANK TEST	0.000	15:55
INTERNAL STANDARD	PASSED	15:55
Xq = 0.1071 (0.65%)		
SUBJECT SAMPLE (Vol=1.5L)	0.000	15:56
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:57
SUBJECT SAMPLE (Vol=1.6L)	0.000	15:57
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:58
SUBJECT SAMPLE (Vol=1.7L)	0.000	15:58
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:59
SUBJECT SAMPLE (Vol=1.9L)	0.000	15:59
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	16:00
SUBJECT SAMPLE (Vol=2.0L)	0.000	16:00
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	16:01
SUBJECT SAMPLE (Vol=2.0L)	0.000	16:02
X[1] = 0.0000 (0.0000) (0.0000)		

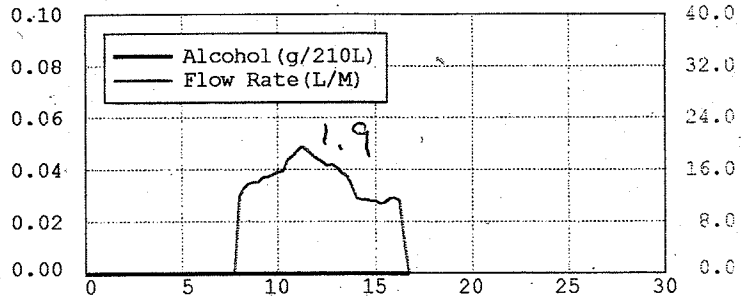












11/06/2007 16:03

Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

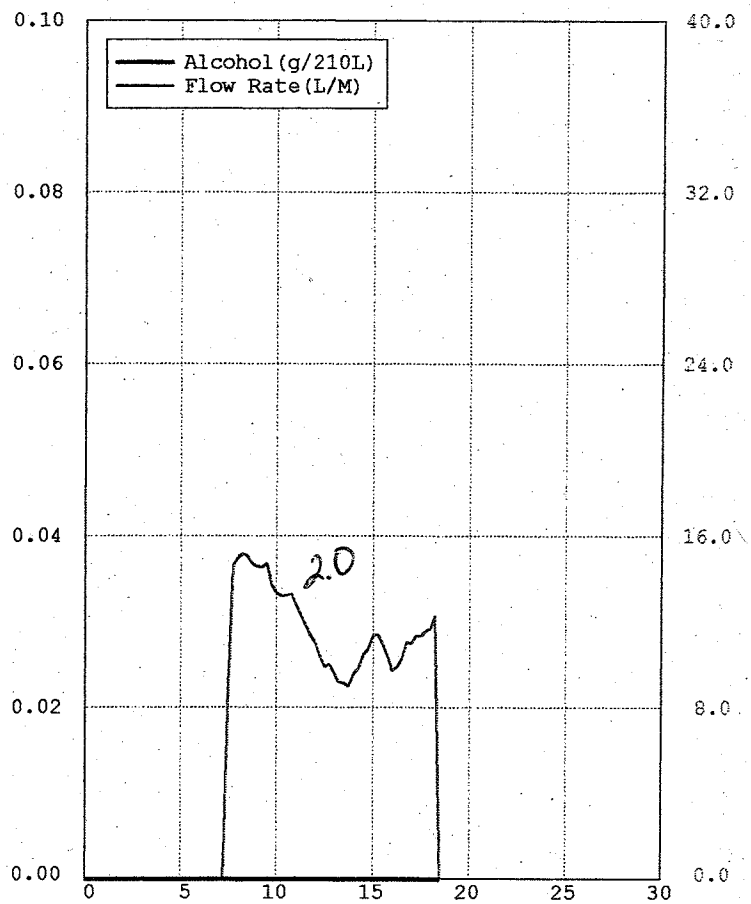
Date: 11/06/2007
Time: 16:04:47

Subject Name: BREATH VOLUME TESTING
Date of Birth: 11/06/2007 Age: 0
Guardian Present: Y
Gender: F
License #: NA VT

Test Operator Name: D M R
Agency: VDHL

BLANK TEST	0.000	16:05
INTERNAL STANDARD	PASSED	16:05
Xq = 0.1096 (1.63%)		
SIMULATOR VAPOR	0.161	16:06
X[1] = 0.1615 (0.0021) (0.0010)		
BLANK TEST	0.000	16:07
SUBJECT SAMPLE (Vol=2.1L)	0.000	16:07
X[1] = 0.0000 (0.0000) (0.0000)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.162
Sim. Vapor Range 0.154 - 0.170
Simulator Temp 34.0°C



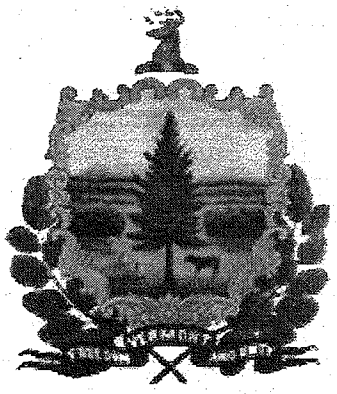
11/06/2007 16:08

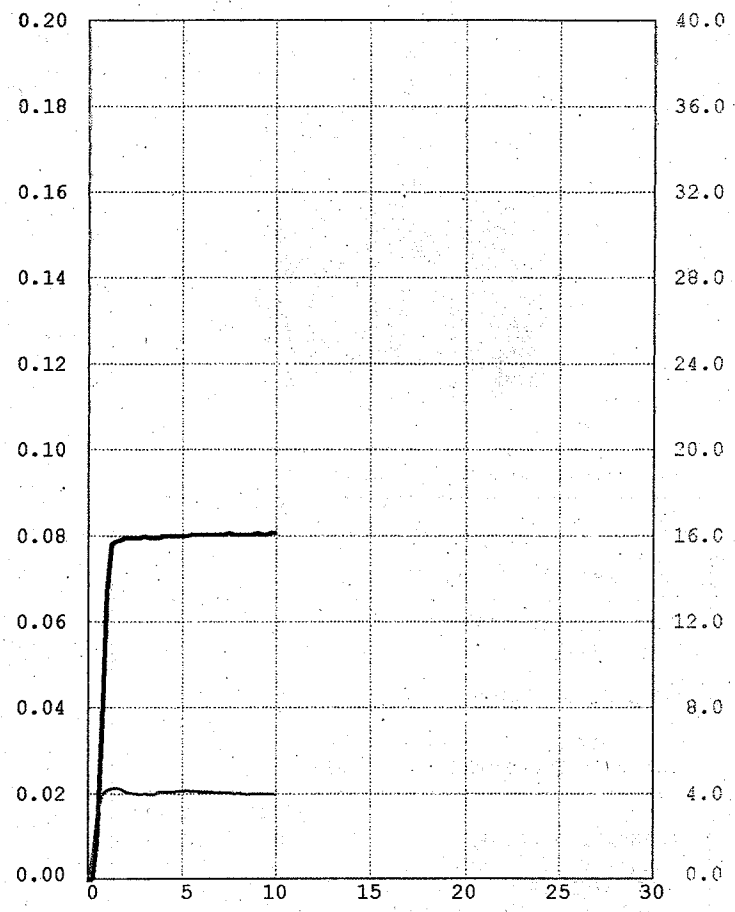
Section 9: Low Level Accuracy

This Instrument not tested for this specification

Section 10: Calibration Stability

Section 11: Error Reports





ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 10/17/2007
Time: 11:17:19

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:18
INTERNAL STANDARD	PASSED	11:18
Xq = 0.1080 (0.16%)		
SIMULATOR VAPOR (33.9°C)	0.080	11:18
X[1] = 0.0801 (-0.0012) (0.0011)		

SIMULATOR TEMPERATURE TOO LOW

Sim T cable grounded out
made larger opening for BNC port

10/17/2007 13:22

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 01/16/2008
Time: 08:26:30

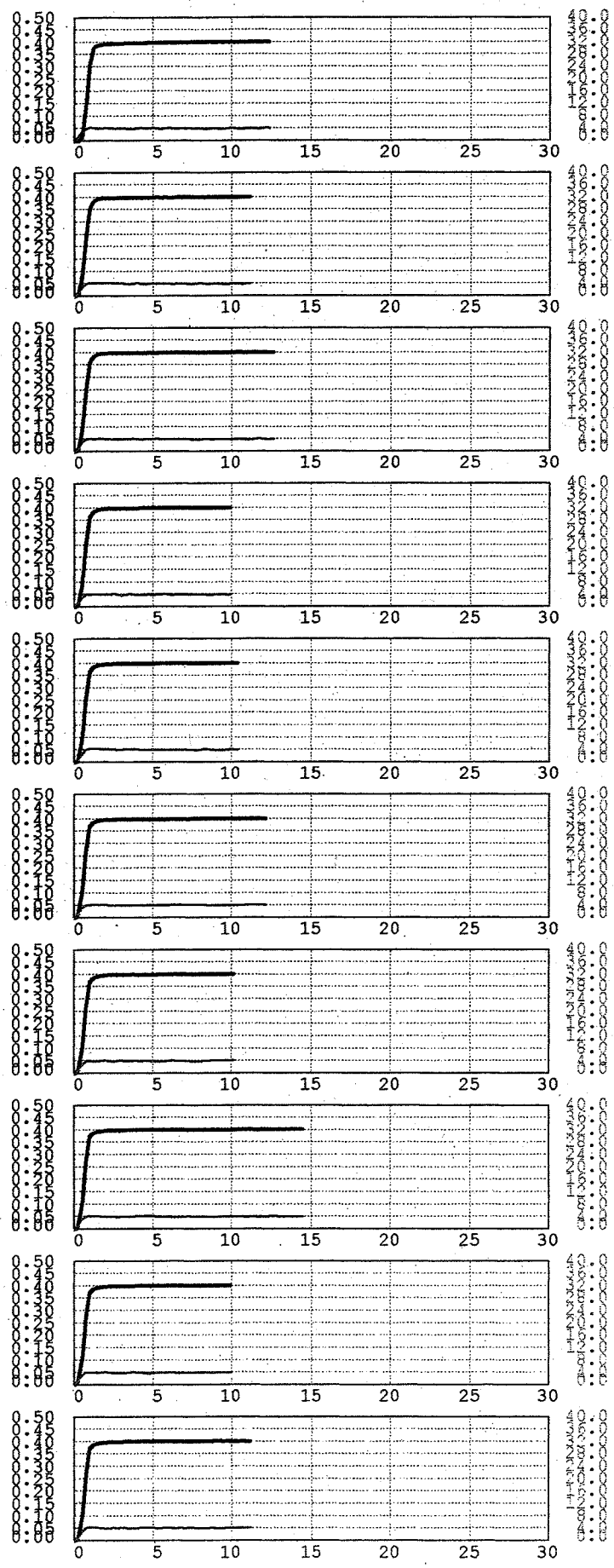
SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	08:27
INTERNAL STANDARD		PASSED	08:27
Xq = 0.1213	(0.14%)		
SIMULATOR VAPOR	(34.0°C)	0.397	08:27
X[1] = 0.3973	(0.0050)	(-0.0015)	
SIMULATOR VAPOR	(34.0°C)	0.397	08:28
X[1] = 0.3978	(0.0047)	(-0.0014)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:30
X[1] = 0.3988	(0.0061)	(-0.0010)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:31
X[1] = 0.3985	(0.0062)	(-0.0013)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:32
X[1] = 0.3985	(0.0050)	(-0.0010)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:33
X[1] = 0.3984	(0.0042)	(-0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.397	08:34
X[1] = 0.3979	(0.0039)	(-0.0018)	
SIMULATOR VAPOR	(34.0°C)	0.399	08:35
X[1] = 0.3998	(0.0051)	(-0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.399	08:36
X[1] = 0.3990	(0.0052)	(-0.0015)	
SIMULATOR VAPOR	(34.0°C)	0.399	08:37
X[1] = 0.3996	(0.0054)	(-0.0007)	
BLANK TEST		0.000	08:37

Average = 0.3980
Std Dev = 0.0008

① Good Cal detector offset to 0.187



05/06/2008 13:35

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/16/2008
Time: 08:38

VERMONT
DEPARTMENT OF HEALTH

1

Good cal
Detector offset to
.187

VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube = 45.20°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.93 V
Cooler Voltage = 1.93 V
Bias Voltage = 120.5 V
Chopper Freq = 534.4 Hz

PUMP INFO
Flow Rate = 4.959 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1878	0.1862
MIN(V)	0.1829	0.1837

FILTER INFO
Filter 1 0.187 Zero = true
Filter 2 0.649 Zero = true
Filter 3 0.187 Zero = true

INTERNAL STANDARD
Xq = 0.1221 0.51%

01/16/2008 08:40

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 01/16/2008
Time: 08:43:15

SUPERVISOR NAME: A L B

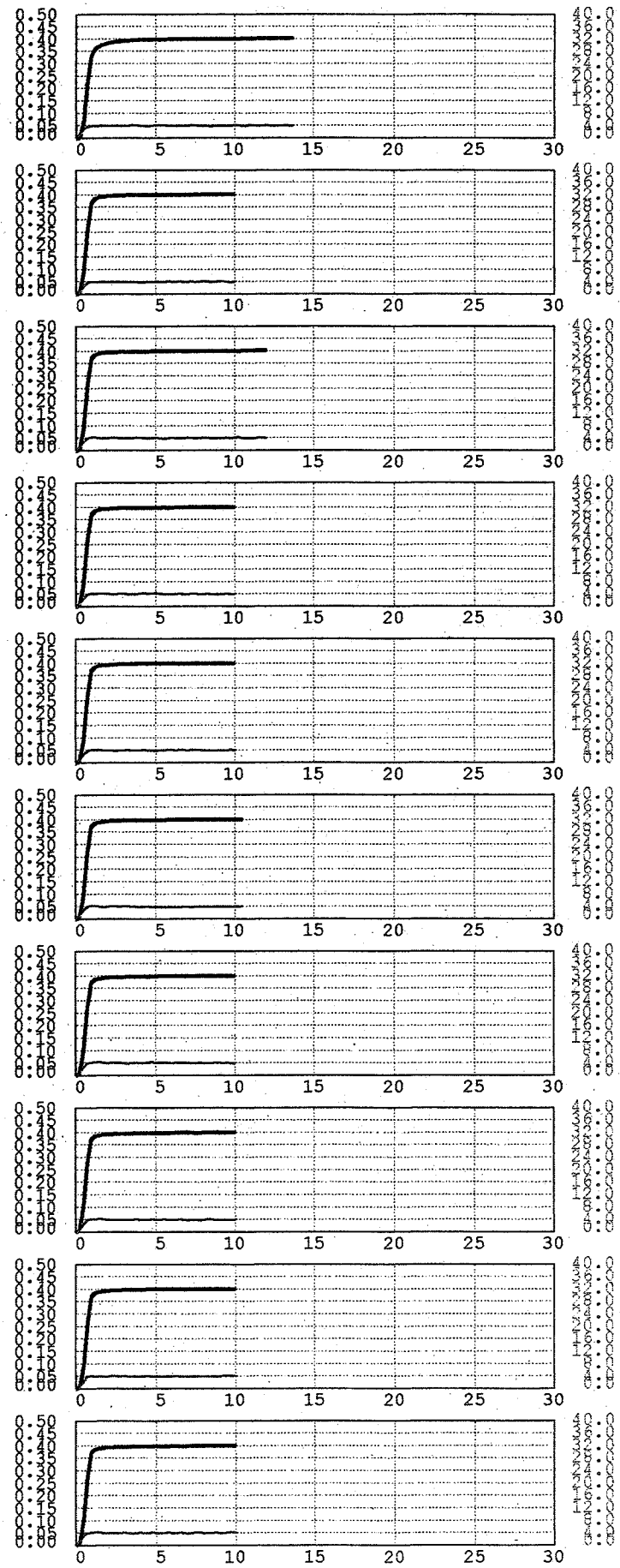
SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	08:44
INTERNAL STANDARD		PASSED	08:44
Xq = 0.1219	(0.29%)		
SIMULATOR VAPOR	(34.0°C)	0.400	08:44
X[1] = 0.4004	(0.0054)	(0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.399	08:45
X[1] = 0.3993	(0.0067)	(0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.399	08:46
X[1] = 0.3997	(0.0053)	(-0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:47
X[1] = 0.3988	(0.0049)	(0.0004)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:48
X[1] = 0.3981	(0.0047)	(-0.0003)	
SIMULATOR VAPOR	(34.1°C)	0.398	08:49
X[1] = 0.3985	(0.0050)	(-0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:50
X[1] = 0.3985	(0.0040)	(0.0000)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:51
X[1] = 0.3985	(0.0050)	(0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:52
X[1] = 0.3980	(0.0046)	(0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.398	08:53
X[1] = 0.3987	(0.0054)	(0.0008)	
BLANK TEST		0.000	08:54

Average = 0.3984
Std Dev = 0.0007

2

Good calibration
detector offset
to 0.353



05/06/2008 13:36

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/16/2008
Time: 08:41

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.97°C
Breath Tube = 45.44°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.90 V
Cooler Voltage = 1.93 V
Bias Voltage = 120.5 V
Chopper Freq = 534.4 Hz

PUMP INFO
Flow Rate = 4.964 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.3543	0.3543
MIN(V)	0.3508	0.3522

FILTER INFO
Filter 1 0.353 Zero = true
Filter 2 0.802 Zero = true
Filter 3 0.354 Zero = true

INTERNAL STANDARD
Xq = 0.1221 0.51%

(2) Good cal
detector offset
to .353

01/16/2008 08:42

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/16/2008
Time: 09:15

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.91°C
Breath Tube = 45.80°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.91 V
Cooler Voltage = 1.93 V
Bias Voltage = 120.5 V
Chopper Freq = 535.0 Hz

PUMP INFO
Flow Rate = 4.969 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.3597	0.3591
MIN(V)	0.3557	0.3569

FILTER INFO
Filter 1 0.358 Zero = true
Filter 2 0.802 Zero = true
Filter 3 0.357 Zero = true

INTERNAL STANDARD
Xq = 0.1220 0.44%

forgot to purge Sim ports

01/16/2008 09:16

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/16/2008
Time: 09:21

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube = 44.12°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.91 V
Cooler Voltage = 1.93 V
Bias Voltage = 120.5 V
Chopper Freq = 535.1 Hz

PUMP INFO
Flow Rate = 4.868 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.3569	0.3575
MIN(V)	0.3541	0.3553

FILTER INFO
Filter 1 0.356 Zero = true
Filter 2 0.800 Zero = true
Filter 3 0.356 Zero = true

INTERNAL STANDARD
Xq = 0.1218 0.22%

after sim purge

detector settings before recal offset to .356

01/16/2008 09:22

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 01/16/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.958352    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.001860    0.002 <=  b2 < 0.013
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.122453    0.050 <=  Xq < 0.200
a21 =  1.173784    1.050 <= a21 < 1.300
a31 =  0.486421    0.300 <= a31 < 0.800
```

CALIBRATION ERROR

Performed by **Date** _____

01/16/2008 09:25

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 01/16/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

Ca =	0.100000		
CAL =	0.948958	0.800 <= CAL < 1.200	
b1 =	0.000000	0.000 <= b1 < 0.004	
b2 =	0.002466	0.002 <= b2 < 0.013	
b3 =	0.000000	0.000 <= b3 < 0.004	
Xq =	0.121655	0.050 <= Xq < 0.200	
a21 =	1.177064	1.050 <= a21 < 1.300	
a31 =	0.475458	0.300 <= a31 < 0.800	

Recalibrated w/ "Bad" detector voltages

.356

Performed by _____ **Date** 01/16/2008

01/16/2008 09:29

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 01/16/2008
Time: 09:30:33

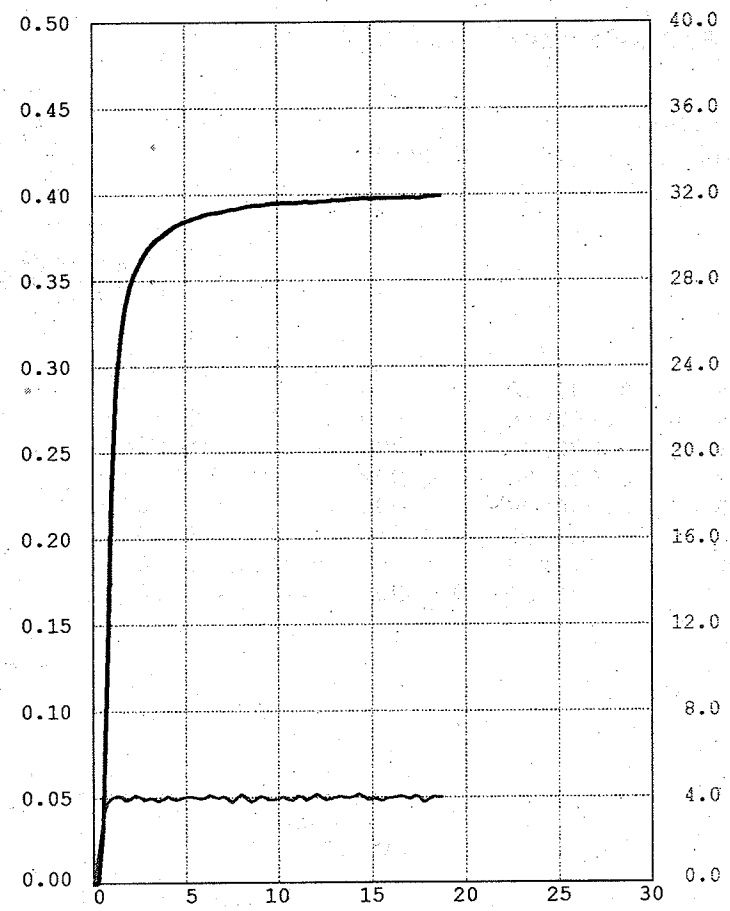
SUPERVISOR NAME: A L B

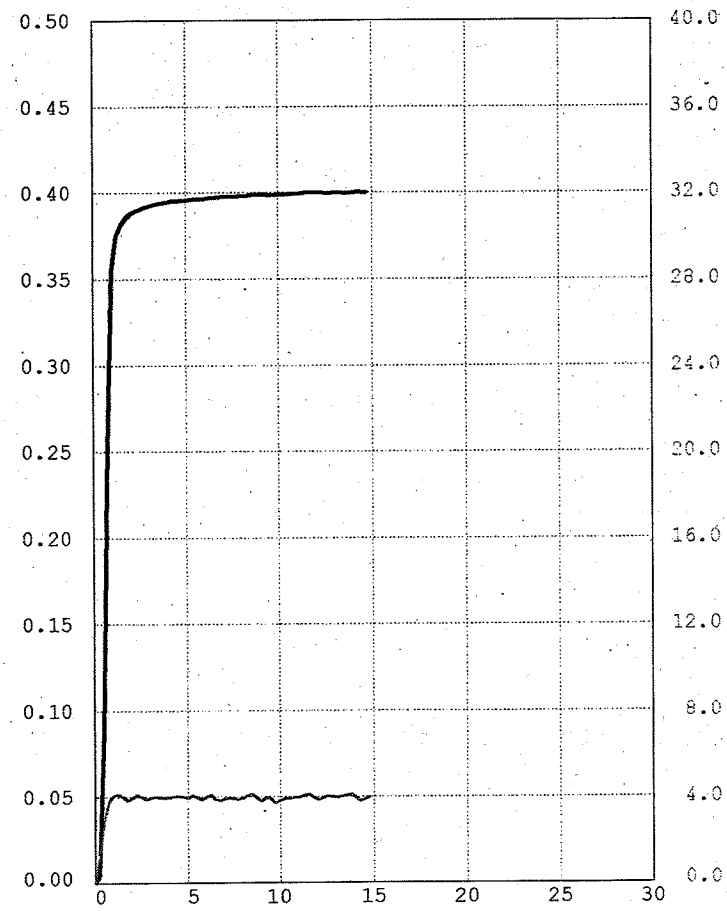
SOLUTION LOT #: 07-12-40
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	09:31
INTERNAL STANDARD	PASSED	09:31
SIMULATOR VAPOR (34.0°C)	0.395	09:32
SIMULATOR VAPOR (34.0°C)	0.397	09:33

USER ABORT

After recal
w/ "Bad" voltages.





01/16/2008 09:33

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 01/16/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.104000				
CAL	=	0.990325	0.800	<=	CAL	< 1.200
b1	=	0.000000	0.000	<=	b1	< 0.004
b2	=	0.002320	0.002	<=	b2	< 0.013
b3	=	0.000000	0.000	<=	b3	< 0.004
Xq	=	0.121923	0.050	<=	Xq	< 0.200
a21	=	1.168252	1.050	<=	a21	< 1.300
a31	=	0.471395	0.300	<=	a31	< 0.800

Calibrated @ .104 w/ .1008 solution
w/ "Bad" voltages

Performed by _____ **Date** 01/16/2008

01/16/2008 09:39

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 01/16/2008
Time: 09:41:03

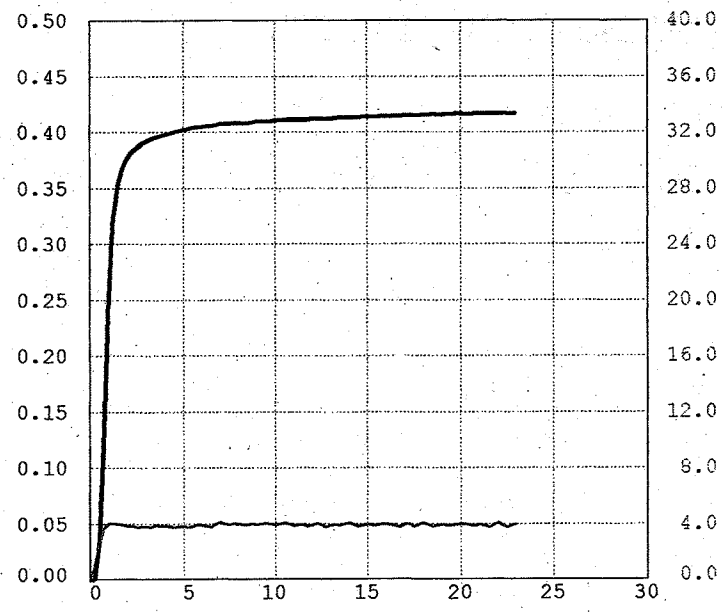
SUPERVISOR NAME: A L B

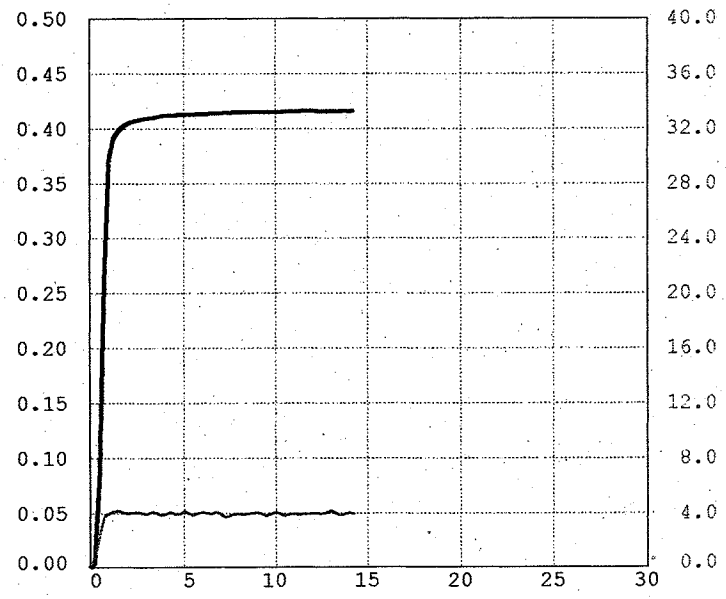
SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

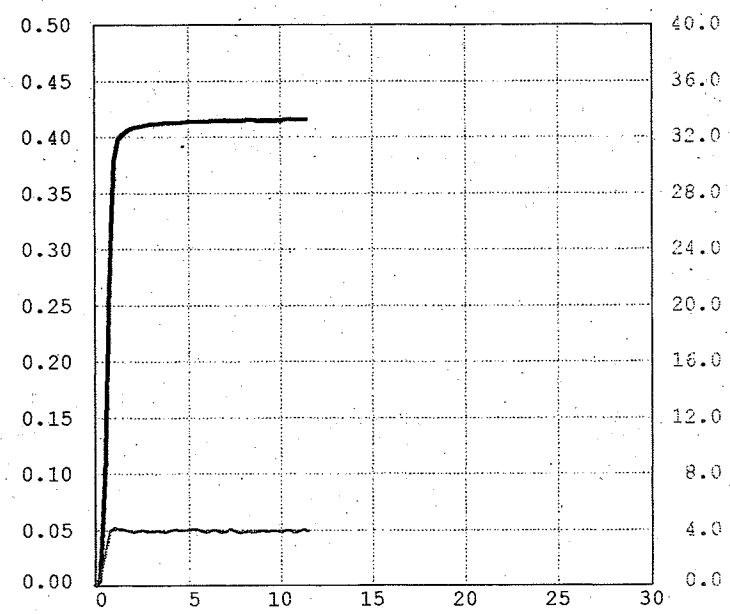
BLANK TEST	0.000	09:41
INTERNAL STANDARD	PASSED	09:42
SIMULATOR VAPOR (34.0°C)	0.413	09:42
SIMULATOR VAPOR (34.0°C)	0.413	09:43
SIMULATOR VAPOR (34.0°C)	0.412	09:44

USER ABORT

Calibrated at .104 w/ .1008 Soln w "Bad" voltage







01/16/2008 09:45

CALIBRATION REPORT

DataMaster DMT: 102806
Calibration Date: 01/16/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.100000	
CAL	=	0.953732	0.800 <= CAL < 1.200
b1	=	0.000000	0.000 <= b1 < 0.004
b2	=	0.002497	0.002 <= b2 < 0.013
b3	=	0.000000	0.000 <= b3 < 0.004
Xq	=	0.121655	0.050 <= Xq < 0.200
a21	=	1.168499	1.050 <= a21 < 1.300
a31	=	0.477442	0.300 <= a31 < 0.800

reset system to optimal conditions
detector voltage ~ .02

Performed by _____ **Date** 01/16/2008

01/16/2008 09:58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102806

Date: 01/16/2008
Time: 09:58:56

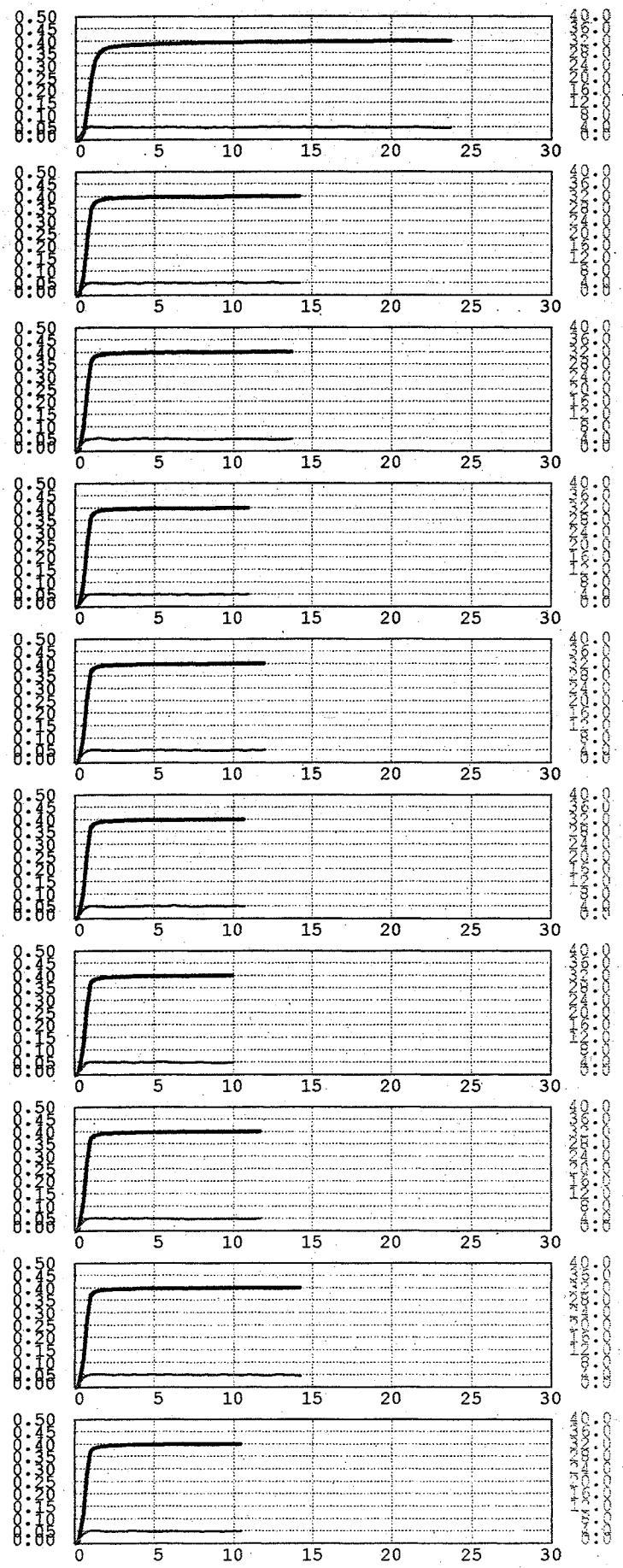
SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	09:59
INTERNAL STANDARD		PASSED	09:59
Xq = 0.1216	(0.00%)		
SIMULATOR VAPOR	(34.1°C)	0.398	10:00
X[1] = 0.3986	(0.0073)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.398	10:01
X[1] = 0.3987	(0.0079)	(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.399	10:02
X[1] = 0.3993	(0.0072)	(0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.397	10:03
X[1] = 0.3979	(0.0065)	(0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.398	10:04
X[1] = 0.3983	(0.0075)	(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.398	10:05
X[1] = 0.3985	(0.0069)	(0.0009)	
SIMULATOR VAPOR	(34.0°C)	0.397	10:06
X[1] = 0.3972	(0.0068)	(-0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.398	10:07
X[1] = 0.3983	(0.0068)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.398	10:09
X[1] = 0.3987	(0.0064)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.397	10:10
X[1] = 0.3977	(0.0063)	(-0.0002)	
BLANK TEST		0.000	10:10

Average = 0.3978
Std Dev = 0.0006

Good calibration
"optimal" detector
voltages



05/06/2008 13:38

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/16/2008
Time: 10:25

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.97°C
Breath Tube    = 45.25°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.96 V
Cooler Voltage = 1.93 V
Bias Voltage   = 120.5 V
Chopper Freq   = 534.4 Hz

PUMP INFO
Flow Rate = 4.972 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0199   0.0185
MIN(V)   0.0154   0.0167

FILTER INFO
Filter 1  0.018  Zero = true
Filter 2  0.490  Zero = true
Filter 3  0.019  Zero = true

INTERNAL STANDARD
Xq = 0.1221  0.44%
```

01/16/2008 10:26

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/16/2008
Time: 10:28

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.30
PIC 2.04
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.63°C
Breath Tube = 44.30°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.96 V
Cooler Voltage = 1.93 V
Bias Voltage = 120.5 V
Chopper Freq = 531.3 Hz

PUMP INFO
Flow Rate = 4.964 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0016	0.0026
MIN(V)	-0.0018	0.0004

FILTER INFO
Filter 1 0.001 Zero = true
Filter 2 0.475 Zero = true
Filter 3 0.003 Zero = true

INTERNAL STANDARD
Xq = 0.1218 0.15%

01/16/2008 10:29

Section 12: Live Subject Tests

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

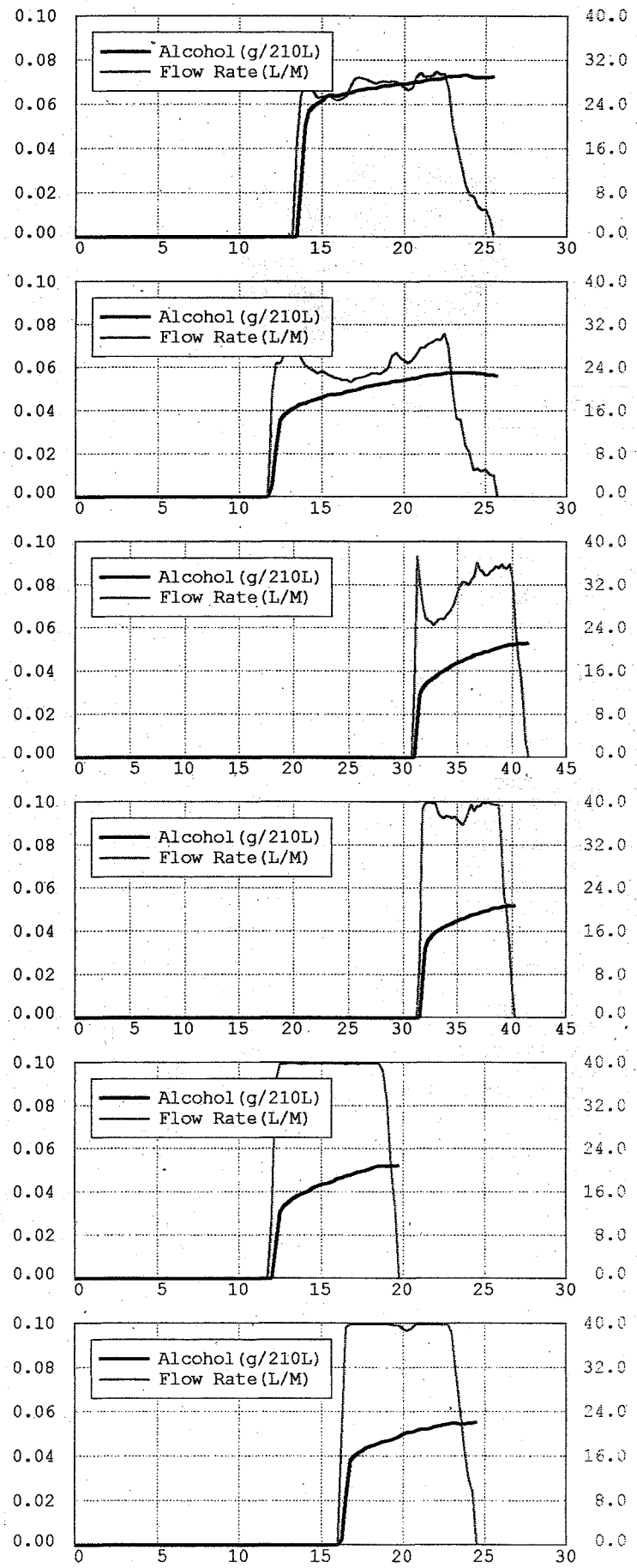
Date: 12/13/2007
Time: 13:08:03

Subject Name: K C

Test Operator Name: D M R
Comment:

Obs. Period Start:		12:35
BLANK TEST	0.000	13:08
INTERNAL STANDARD	PASSED	13:09
Xq = 0.1074 (0.41%)		
SUBJECT SAMPLE	INTERFERENCE	13:09
X[1] = 0.0734 (-0.0020) (-0.0060)		
BLANK TEST	0.000	13:10
SUBJECT SAMPLE	INTERFERENCE	13:11
X[1] = 0.0574 (-0.0021) (-0.0051)		
BLANK TEST	0.000	13:12
SUBJECT SAMPLE (Vol=5.0L)	0.053	13:12
X[1] = 0.0537 (-0.0016) (-0.0047)		
BLANK TEST	0.000	13:13
SUBJECT SAMPLE (Vol=5.0L)	0.052	13:14
X[1] = 0.0526 (-0.0019) (-0.0048)		
BLANK TEST	0.000	13:15
SUBJECT SAMPLE (Vol=4.7L)	0.053	13:15
X[1] = 0.0536 (-0.0005) (-0.0033)		
BLANK TEST	0.000	13:16
SUBJECT SAMPLE (Vol=4.9L)	0.055	13:17
X[1] = 0.0555 (-0.0017) (-0.0035)		

Took a drink @ 13:08
Burp @ 13:13
Burp @ 13:15



12/14/2007 09:15

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

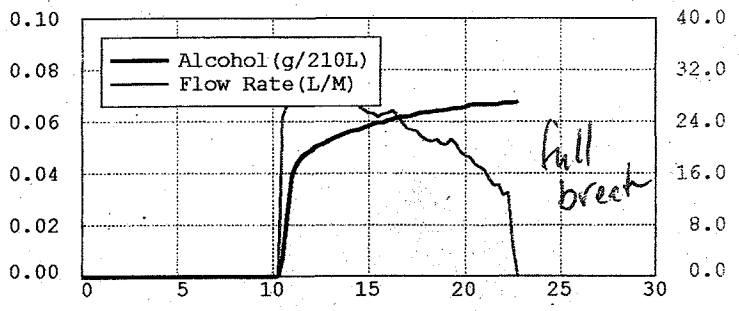
Date: 12/13/2007
Time: 13:19:35

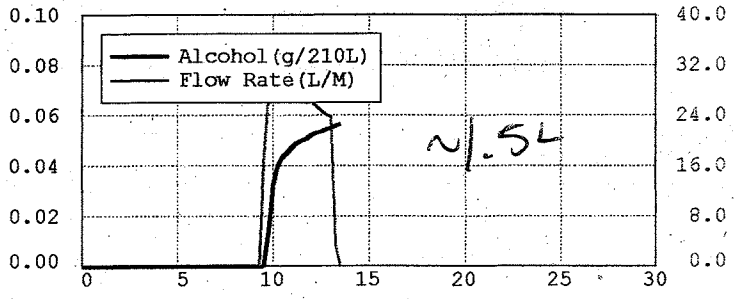
Subject Name: S A O

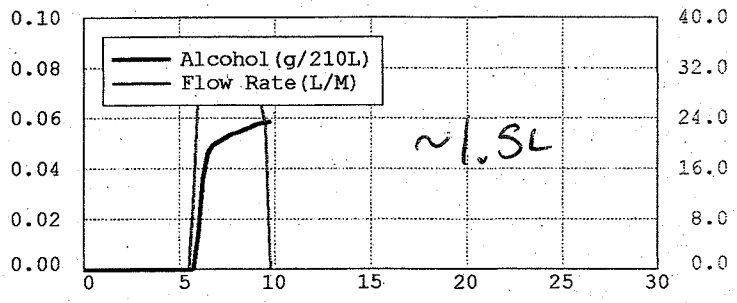
Test Operator Name: D M R
Comment:

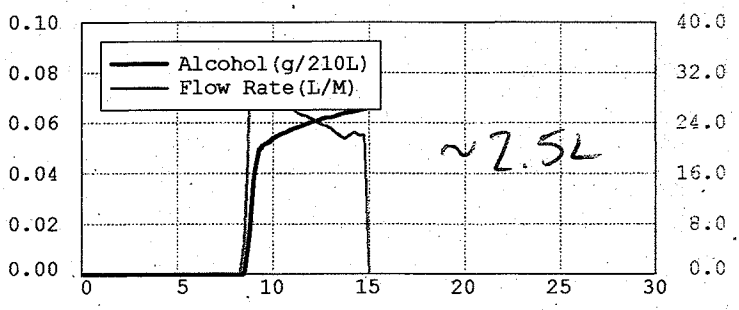
Obs. Period Start:		12:35
BLANK TEST	0.000	13:20
INTERNAL STANDARD	PASSED	13:20
Xq = 0.1068 (0.98%)		
SUBJECT SAMPLE (Vol=4.6L)	0.068	13:21
X[1] = 0.0682 (-0.0021)	(-0.0045)	
BLANK TEST	0.000	13:22
SUBJECT SAMPLE (Vol=1.6L)	0.056	13:22
X[1] = 0.0568 (-0.0022)	(-0.0025)	
BLANK TEST	0.000	13:23
SUBJECT SAMPLE (Vol=1.8L)	0.059	13:23
X[1] = 0.0594 (-0.0010)	(-0.0026)	
BLANK TEST	0.000	13:24
SUBJECT SAMPLE (Vol=2.6L)	0.066	13:25
X[1] = 0.0663 (-0.0017)	(-0.0033)	
BLANK TEST	0.000	13:26
SUBJECT SAMPLE (Vol=2.7L)	0.066	13:26
X[1] = 0.0663 (-0.0024)	(-0.0026)	
BLANK TEST	0.000	13:27
SUBJECT SAMPLE (Vol=4.9L)	0.070	13:27
X[1] = 0.0708 (-0.0025)	(-0.0032)	

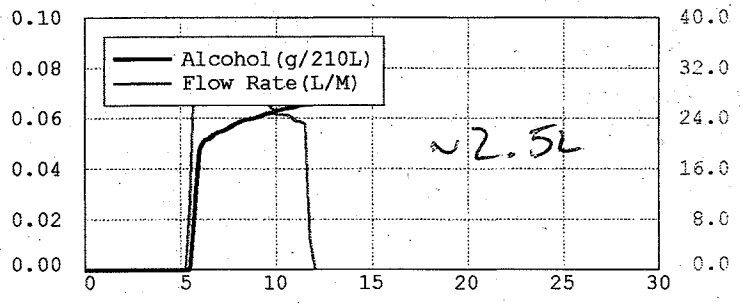
varying breath volume

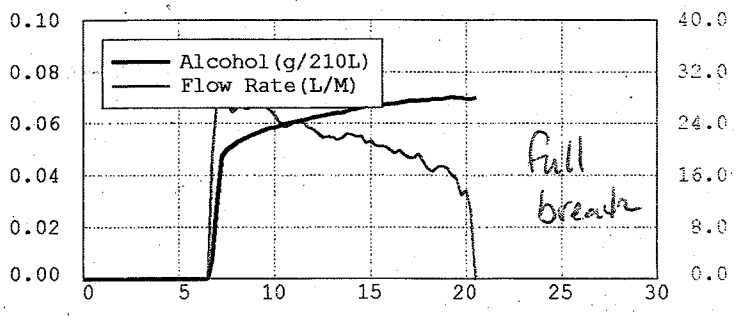












12/14/2007 09:15

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

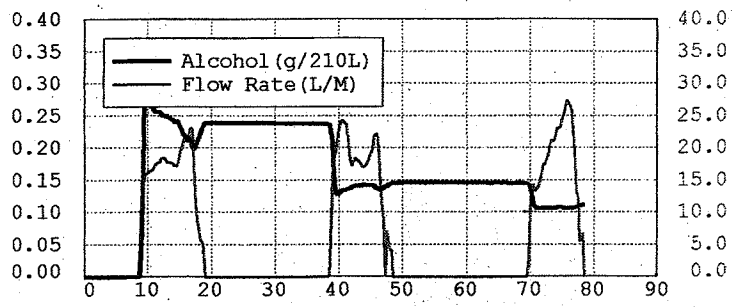
Date: 12/13/2007
Time: 13:30:43

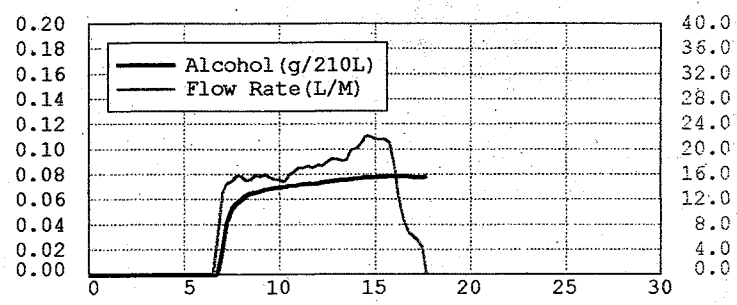
Subject Name: B P

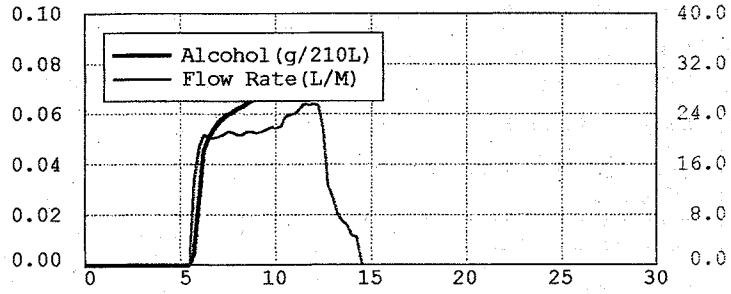
Test Operator Name: D M R
Comment:

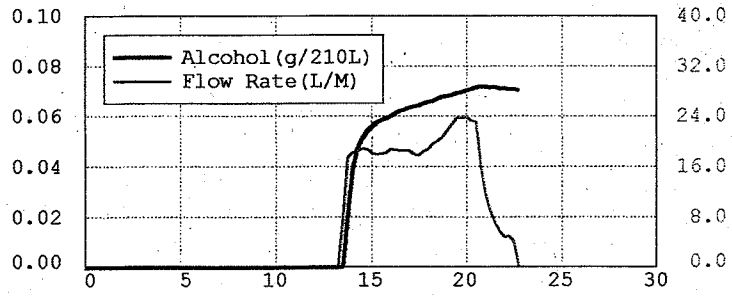
Obs. Period Start:		12:35
BLANK TEST	0.000	13:31
INTERNAL STANDARD	PASSED	13:31
Xq = 0.1065 (1.23%)		
SUBJECT SAMPLE (Vol=2.6L)	INVALID	13:33
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	13:34
SUBJECT SAMPLE (Vol=2.8L)	0.078	13:34
X[1] = 0.0786 (-0.0022) (-0.0017)		
BLANK TEST	0.000	13:35
SUBJECT SAMPLE (Vol=2.7L)	0.073	13:35
X[1] = 0.0738 (-0.0010) (-0.0015)		
BLANK TEST	0.000	13:36
SUBJECT SAMPLE (Vol=2.5L)	0.071	13:37
X[1] = 0.0710 (-0.0021) (-0.0026)		
BLANK TEST	0.000	13:37
SUBJECT SAMPLE (Vol=2.7L)	0.072	13:38
X[1] = 0.0725 (-0.0019) (-0.0023)		
BLANK TEST	0.000	13:38
SUBJECT SAMPLE (Vol=2.4L)	0.073	13:39
X[1] = 0.0736 (-0.0013) (-0.0020)		

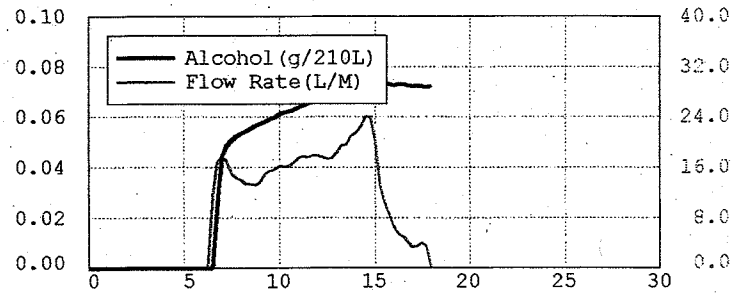
Sip of beer @ 13:33

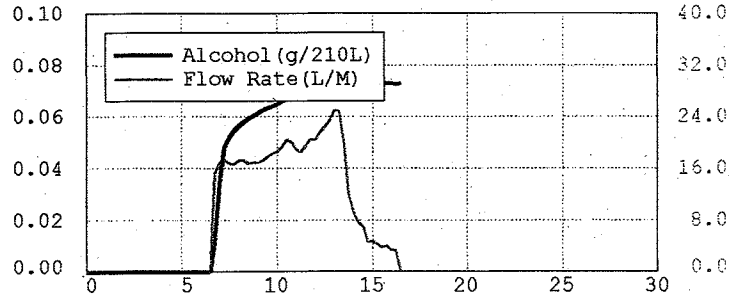












12/14/2007 09:16

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

Date: 12/13/2007
Time: 13:42:14

Subject Name: K C

Test Operator Name: D M R
Comment:

Obs. Period Start:		12:35
BLANK TEST	0.000	13:43

USER ABORT

12/14/2007 09:17

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102806

Installation Date:

Date: 12/13/2007
Time: 13:43:31

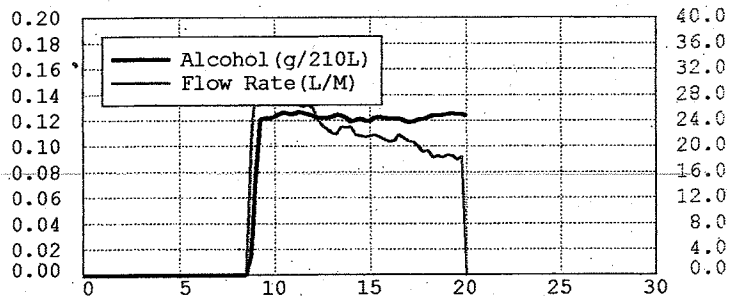
Subject Name: S A O

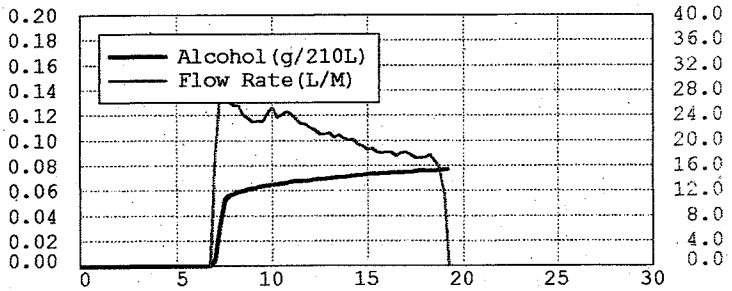
Test Operator Name: D M R
Comment:

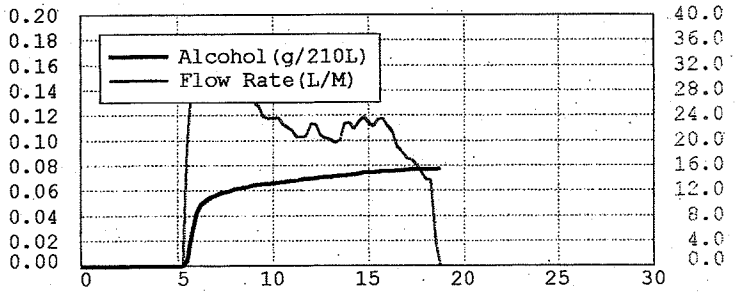
Obs. Period Start:		12:35
BLANK TEST	0.000	13:44
INTERNAL STANDARD	PASSED	13:44
Xq = 0.1071 (0.65%)		
SUBJECT SAMPLE (Vol=4.2L)	0.124	13:45
X[1] = 0.1248 (-0.0011)	(-0.0026)	
BLANK TEST	0.000	13:46
SUBJECT SAMPLE (Vol=4.2L)	0.077	13:46
X[1] = 0.0773 (-0.0022)	(-0.0014)	
BLANK TEST	0.000	13:47
SUBJECT SAMPLE (Vol=4.9L)	0.077	13:47
X[1] = 0.0777 (-0.0015)	(-0.0016)	
BLANK TEST	0.000	13:48
SUBJECT SAMPLE (Vol=2.3L)	INVALID	13:49
X[1] = 0.0000 (0.0000)	(0.0000)	
BLANK TEST	0.000	13:50
SUBJECT SAMPLE (Vol=4.4L)	0.096	13:50
X[1] = 0.0967 (-0.0029)	(-0.0016)	
BLANK TEST	0.000	13:51
SUBJECT SAMPLE (Vol=4.6L)	0.083	13:51
X[1] = 0.0832 (-0.0007)	(-0.0014)	

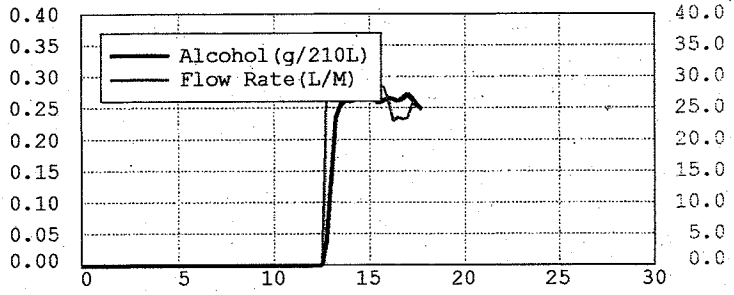
Took a sip of beer @ 13:44

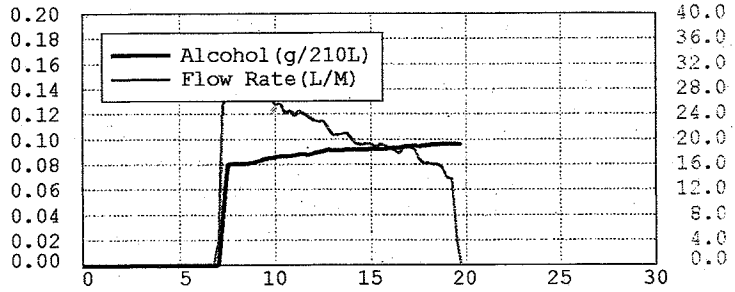
Swished beer @ 13:48

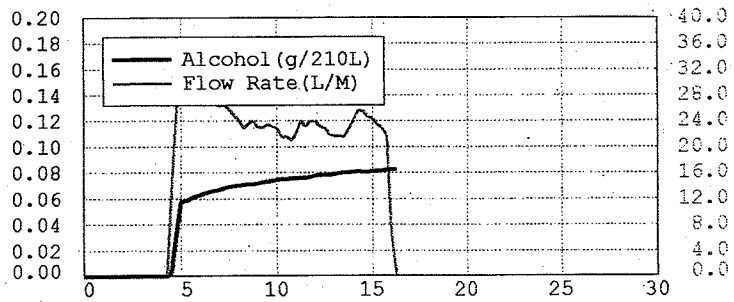












12/14/2007 09:20

KC - 60's male 200# light beer

BP - 60's ♀ 150# light beer

SO - 30's ♀ 140# long trail

Section 13: Communication Notes

1028066

10/11/07 Instrument received at VDHL.
Simulator temperature plug does not fit in port.
recalibrated touch screen DMR

10/11/07 AEB
Performed Power-Up test
- When printing cal. factors, an error box pops up "Alert: unable to load image" but report prints ok
- A&P test failed using .379 Soln. out of range high. Reran using .085 soln Passed ok TV=.0821 → .085 reported [X]
- Also ran .062 soln using A+P to test. [X] Solution out of range. Possible [X] problem
- Passed Power-Up test
- Needs LFI sensitivity adjusted AEB

10/15/07 SEH
Performed Calibration of Instrument, Ran four Solutions for Linearity and Diagnostic Check
10/15/07 SEH

10/17/07
Sim T. error because gromit does not fit sim T. cable properly. Will cut hole larger to fit cable and retest
AEB 10/17/07

10/17/07 SEH
Made 5/8 inch BNC Connector hole 3/4 inch hole.
SEH 10/17/07

10/26/07
.02 solution 88.8% recovery due to sim depletion. Installed new solution for next linearity AEB

10/30/07
Performed Volume Testing
10/30/07 SEH

2/26/08
Replaced PIC Processor with 2.05 Per NPAS to Solve Communication error. SH 2/26/08