

Institute of HeartMath Autonomic Assessment Report

14700 West Park Avenue - Boulder Creek, CA 95006 - Tel (831) 338-8769 Fax (831) 338-1182

Patient: Abnormal Female
Sex: F
Age: 45
D.O.B.:
Test Date: 04/30/2013
Start Time: 16:30
Medication:

Report Date: 5/2/2013
Report ID#: A

Comments:
File:

Time Domain Analysis

	Total Record	Reference Values	Day	Night	Night/Day Delta
HR (bpm)	83.1	(52.8 - 105.8)	88.9	72.2	-16.7
IBI (ms)	734.0	-----	680.8	834.3	153.6
SDNN (ms)	93.3	(58.5 - 197.5)	62.8	47.6	-15.1
SDANN (ms)	87.8	(46.1 - 184.1)	53.8	33.6	-20.2
SDNN index (ms)	31.5 *	(32.2 - 80.5)	31.9	30.9	-0.9
RMS-SD	15.4	-----	14.9	16.2	1.3
Ln RMS-SD	2.7	(2.7 - 3.9)			

Frequency Domain Analysis of 5-Minute Segments

	Total Record	Ln Value	Reference Values	Day	Night	Night-Day Delta
5-min HF	55.6	4.0	(4.0 - 6.7)	49.8	64.6	14.8
5-min LF	178.5	5.2 *	(5.8 - 7.5)	190.8	159.3	-31.6
5-min VLF	693.4	6.5 *	(6.7 - 8.3)	657.7	749.1	91.4
5-min TP	927.5	6.8 *	(7.2 - 8.7)	898.3	973.0	74.7
LF/HF	4.0	1.4	(0.9 - 2.6)	4.7	2.8	-1.9
HF norm	28.7	-----	-----	24.5	35.2	10.7
LF norm	71.3	-----	-----	75.5	64.8	-10.7

Frequency Domain Analysis of Total Record

Total Power	8624.7	9.1	(8.7 - 10.4)
ULF	7751.6	9.0	(8.4 - 10.2)

ms = milliseconds
 HR = Heart Rate
 HF = High frequency
 LF = Low frequency
 VLF = Very low frequency
 Ln = Natural logarithm
 ULF = Ultra low frequency
 TP = Total power
 LF/HF = Low frequency/High frequency Ratio
 HF norm = Normalized High frequency
 LF norm = Normalized Low frequency

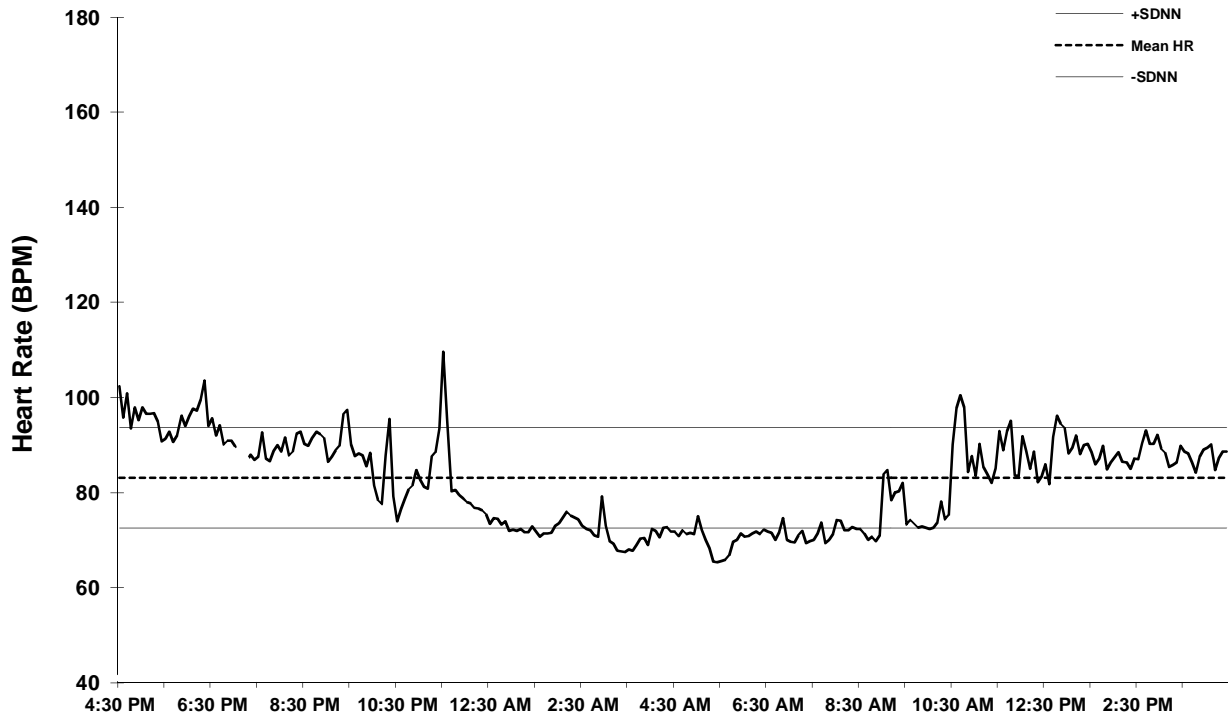
Impressions and Findings

The following measures are below the reference range: SDNN index, LF power, VLF power, 5-min TP, .

Sleep cycle duration, hrs.: 9.3

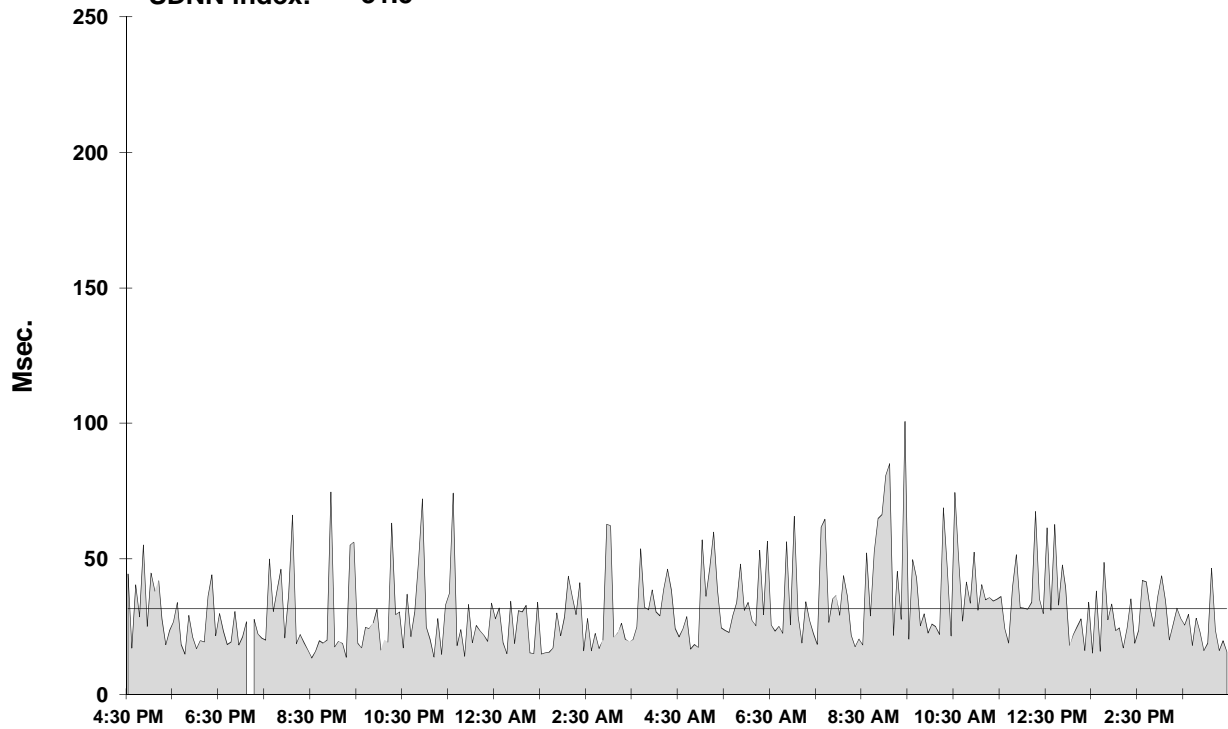
Mean HR (BPM): 83.1
SDNN (Msec): 93.3

24-Hour Heart Rate Profile



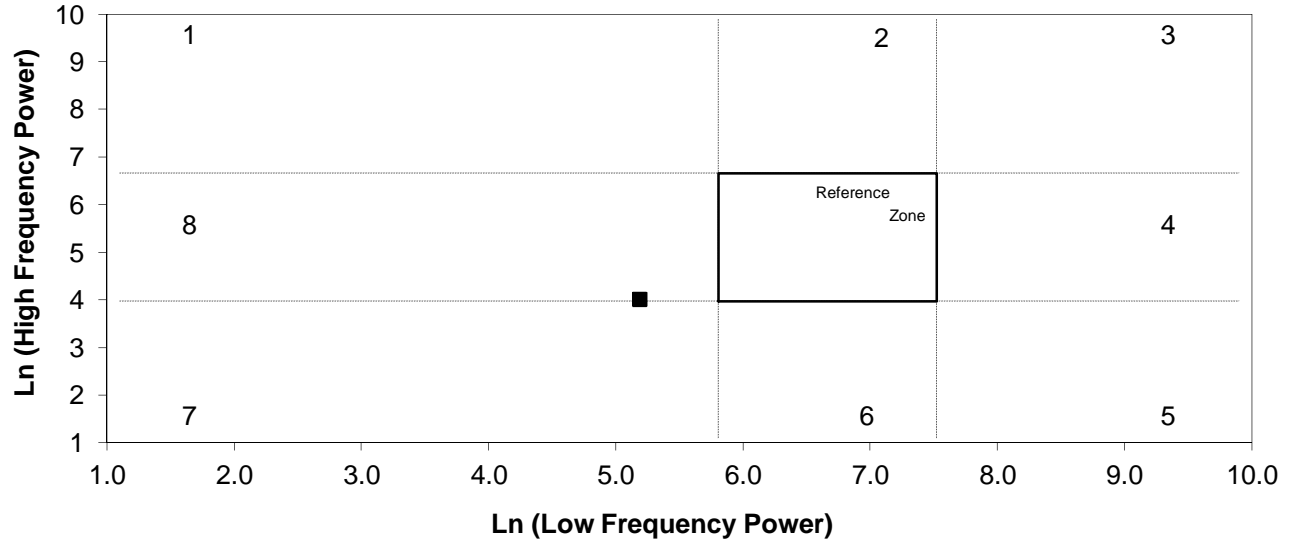
Heart Rate Variability Index Standard Deviation of Each 5-Min. Epoch

SDNN index: 31.5

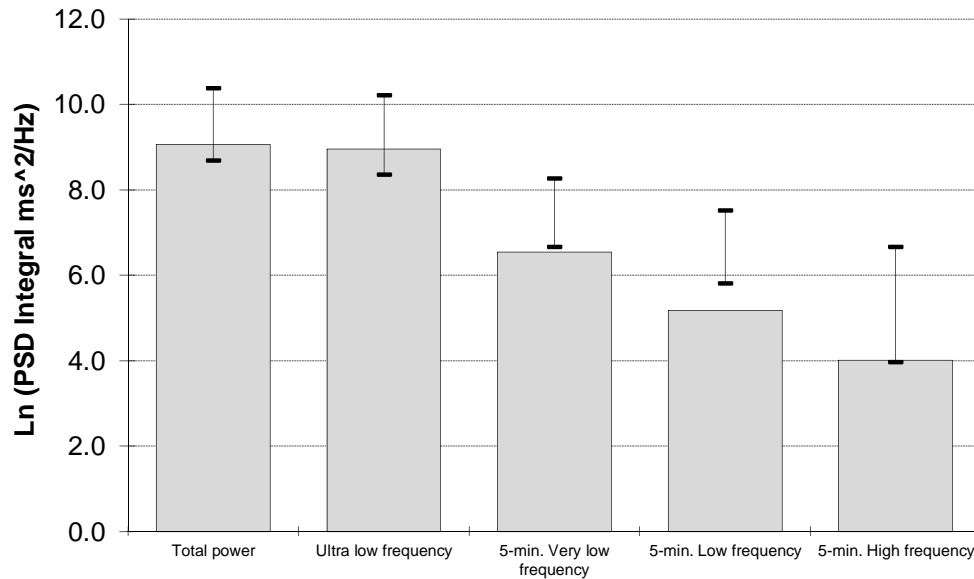


24-Hour Autonomic Balance Profile (Mean of All 5-Minute Segments)

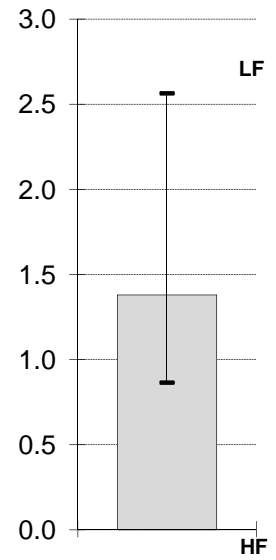
Patient Level = ■ **Low Frequency Power vs. High Frequency Power**



Frequency Domain Analysis Summary



LF/HF Ratio



	Absolute Values	Ln Values	Reference Values
Total power	8624.7	9.1	(8.7 - 10.4)
Ultra low frequency	7751.6	9.0	(8.4 - 10.2)
5-min. Very low frequency	693.4	6.5	(6.7 - 8.3)
5-min. Low frequency	178.5	5.2	(5.8 - 7.5)
5-min. High frequency	55.6	4.0	(4.0 - 6.7)
LF/HF Ratio	4.0	1.4	(0.9 - 2.6)

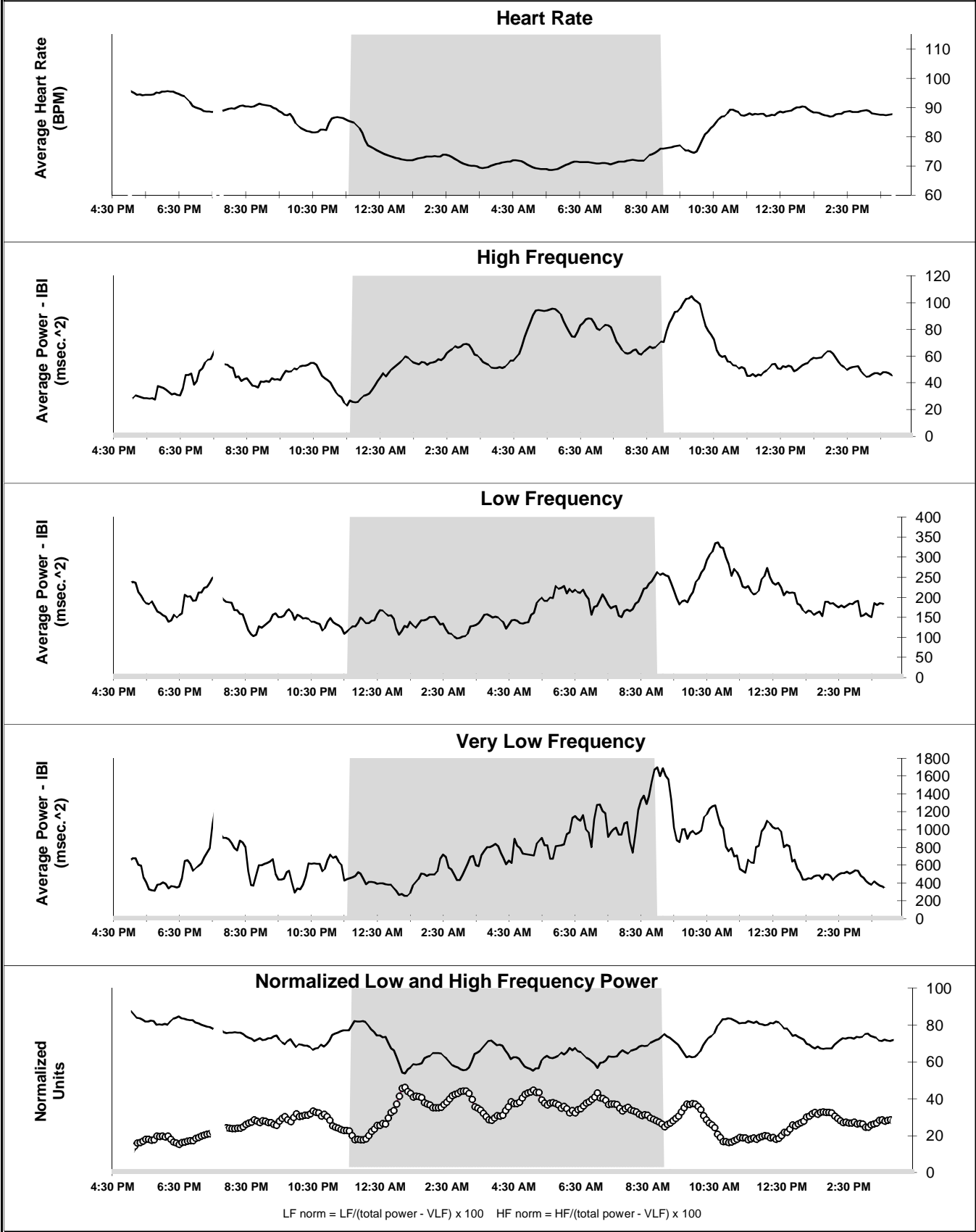
Test Date: 04/30/2013

Patient: Abnormal Female

page 3/4

Circadian Rhythm Analysis (One Hour Moving Average of 5-Minute Segments)

Sleep cycle (hrs.): 9.3

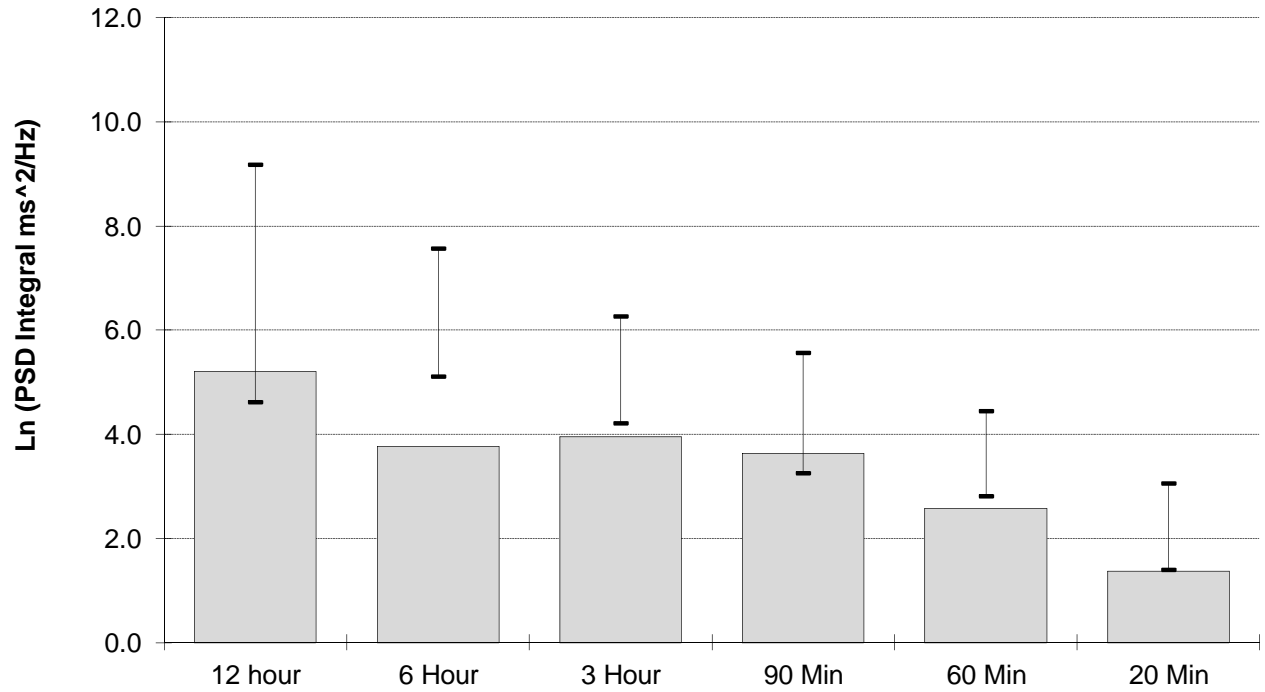


Test Date: 04/30/2013

Patient: Abnormal Female

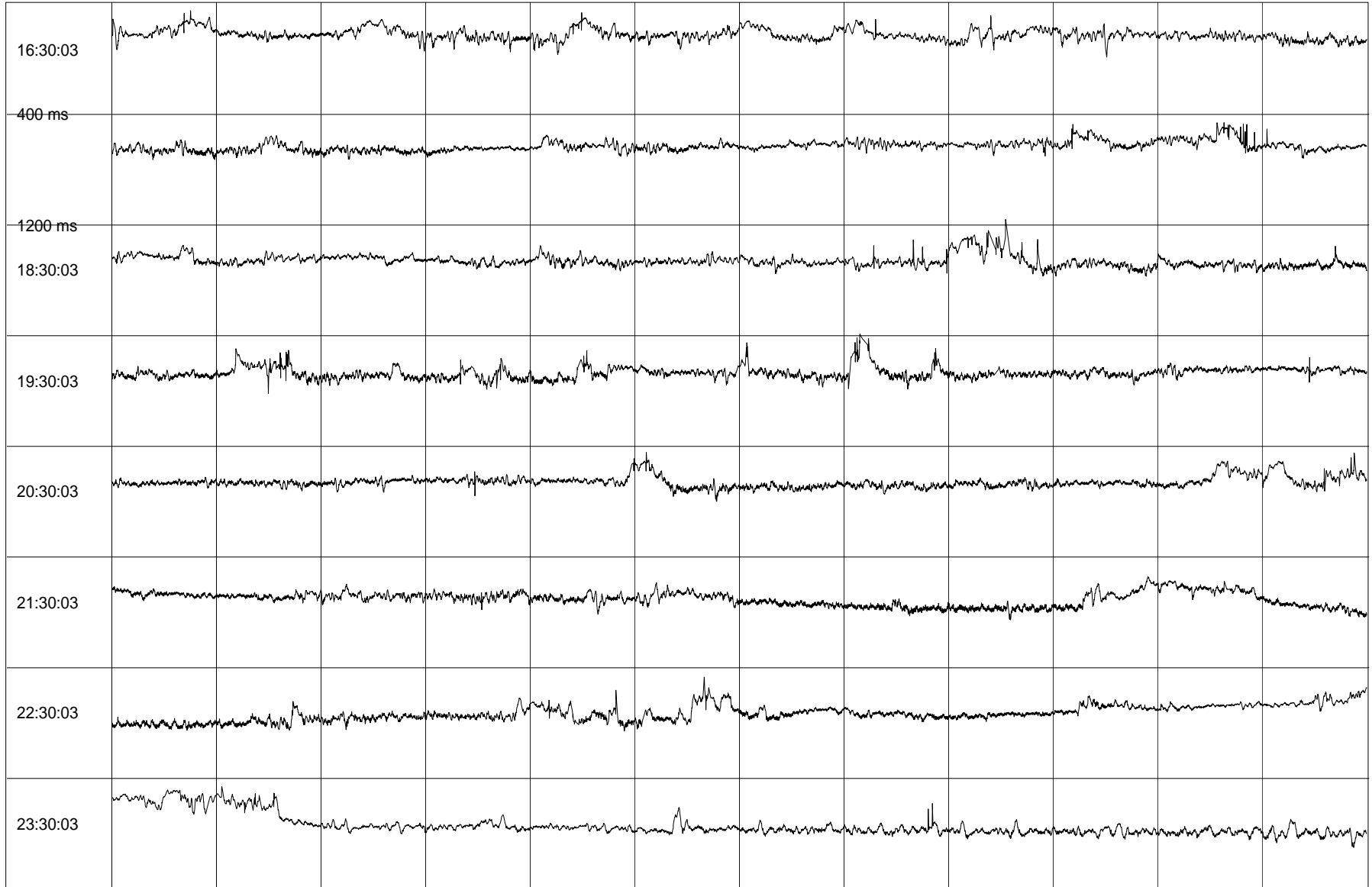
page 4/4

ULF Power Spectrum Bands

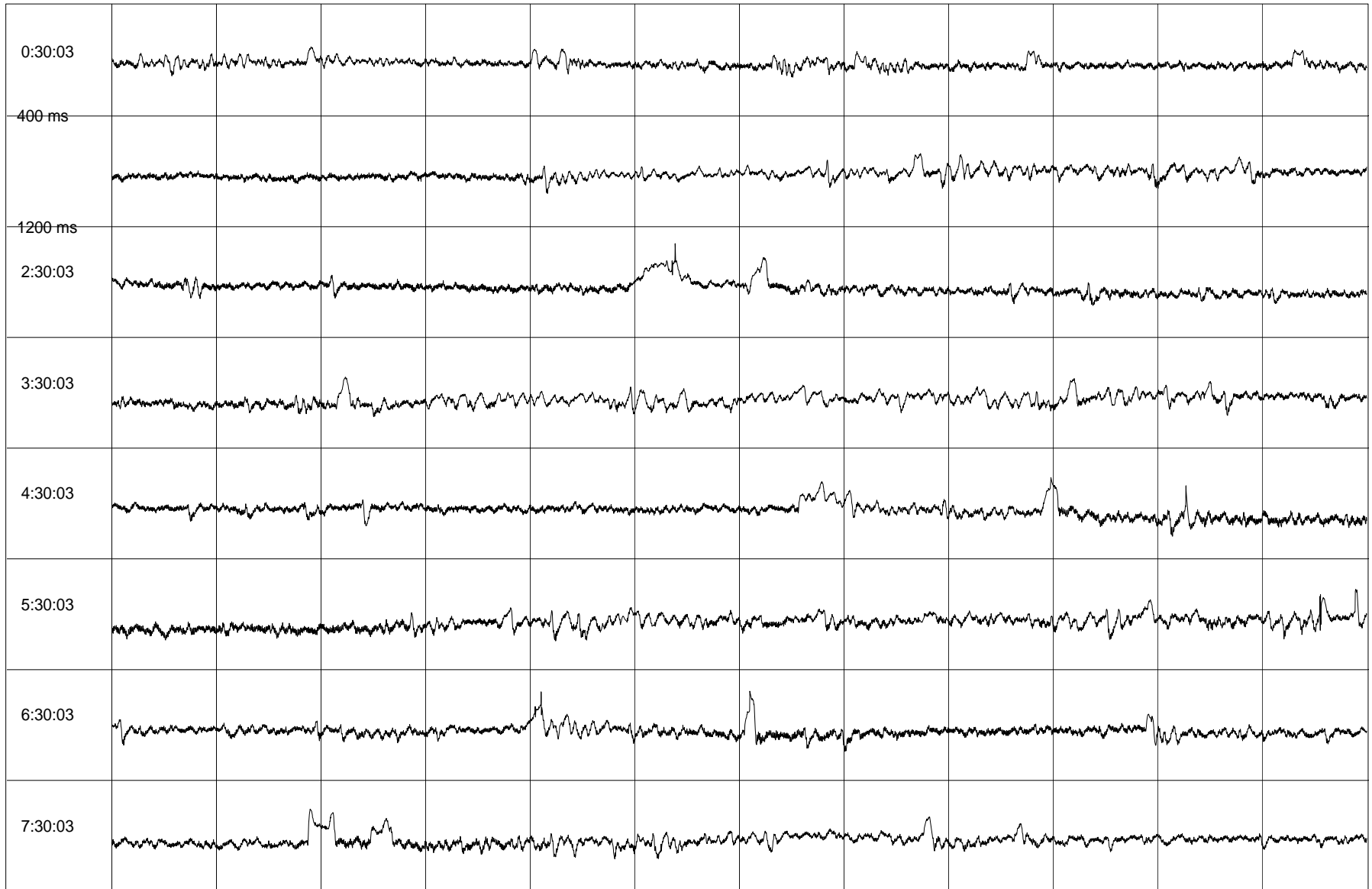


	Absolute Values	Ln Values	Reference Values
12 hour	182.6	5.2	(4.6 - 9.2)
6 Hour	43.2	3.8	(5.1 - 7.6)
3 Hour	51.8	3.9	(4.2 - 6.3)
90 Min	37.6	3.6	(3.2 - 5.6)
60 Min	13.2	2.6	(2.8 - 4.4)
20 Min	3.9	1.4	(1.4 - 3.0)

W22: Abnormal Female 4/30/2013 page 1



W22: Abnormal Female 4/30/2013 page 2



W22: Abnormal Female 4/30/2013 page 3

