Appendix G - Interval Min/Max Plots for MGM Experiment Times (Orbiter SAMS TSH A)

For post-mission correlation with science data acquired for the MGM experiment, the SAMS TSH A data collected on Endeavour were analyzed using 1-second interval min/max plots for a number of experiment run time frames totaling more than 25 hours. The plots in this appendix are the set for TSH A. The MGM science requirement threshold is shown on the plots as the horizontal dashed lines at $\pm$ 1 mg. The overall min/max values on a per plot basis are shown with the text to the right of each axis' plot with the corresponding times that the min/max values occurred, respectively.

Appendix G -
Interval Min/Max Plots for MGM
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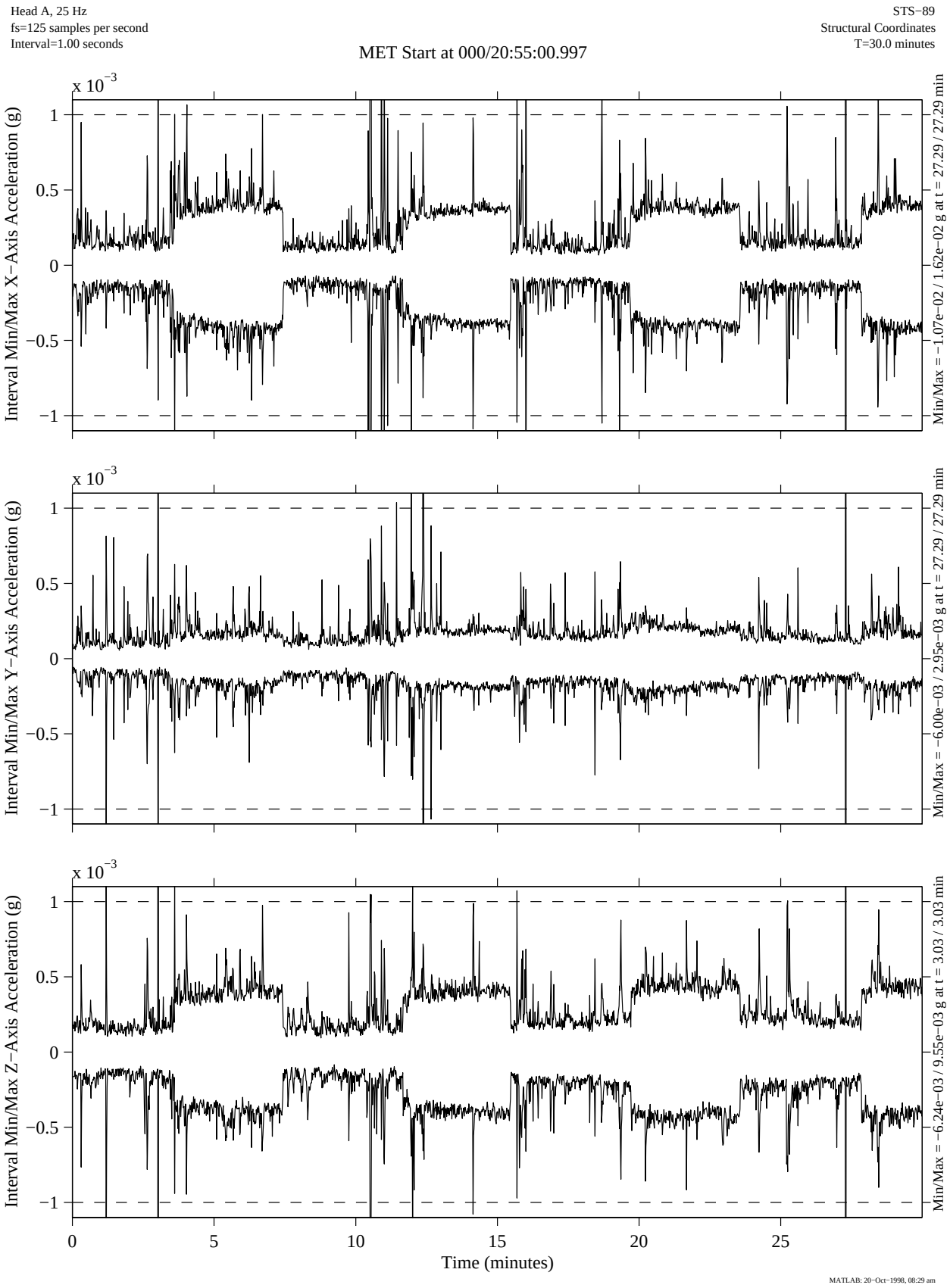
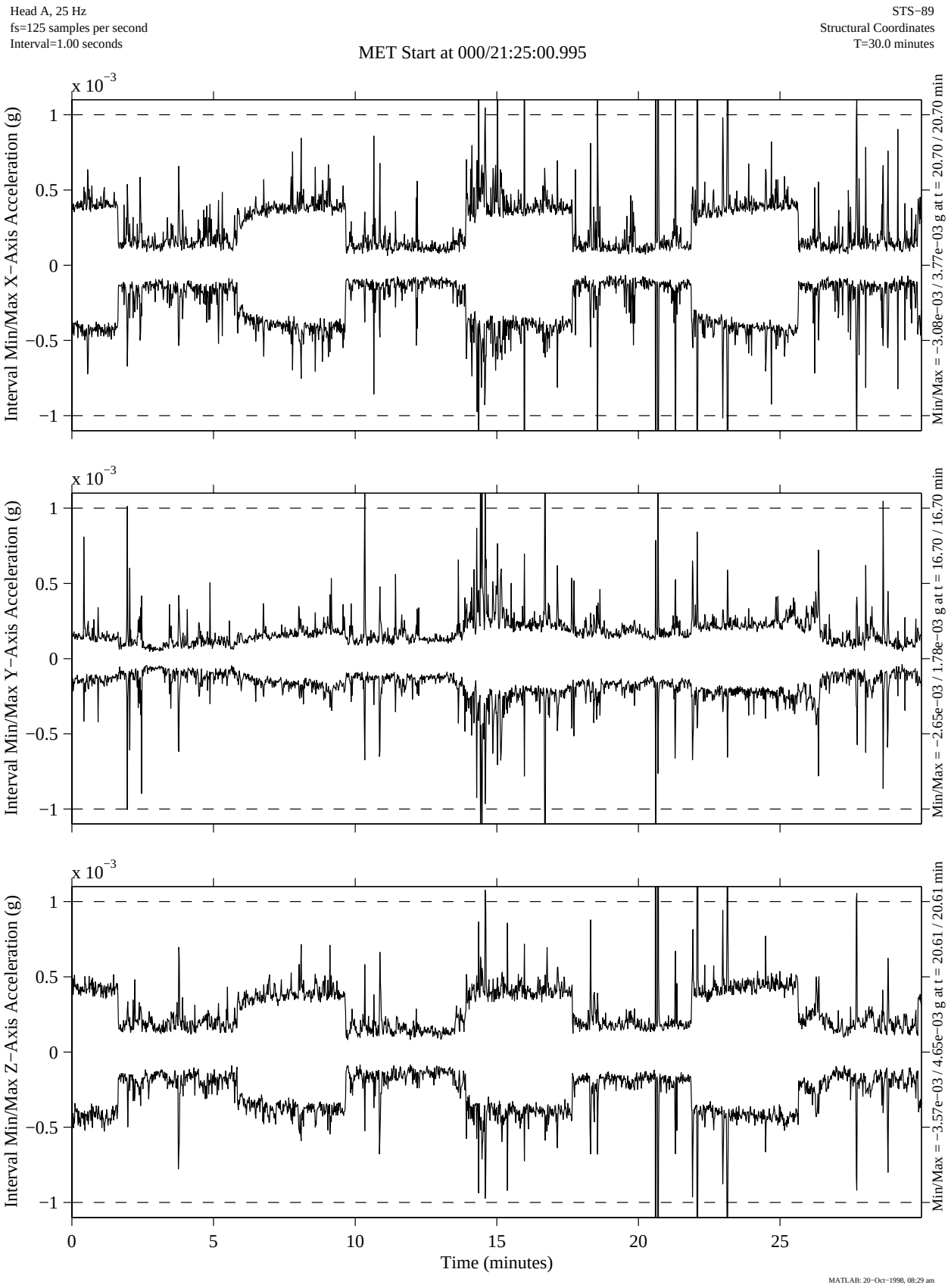
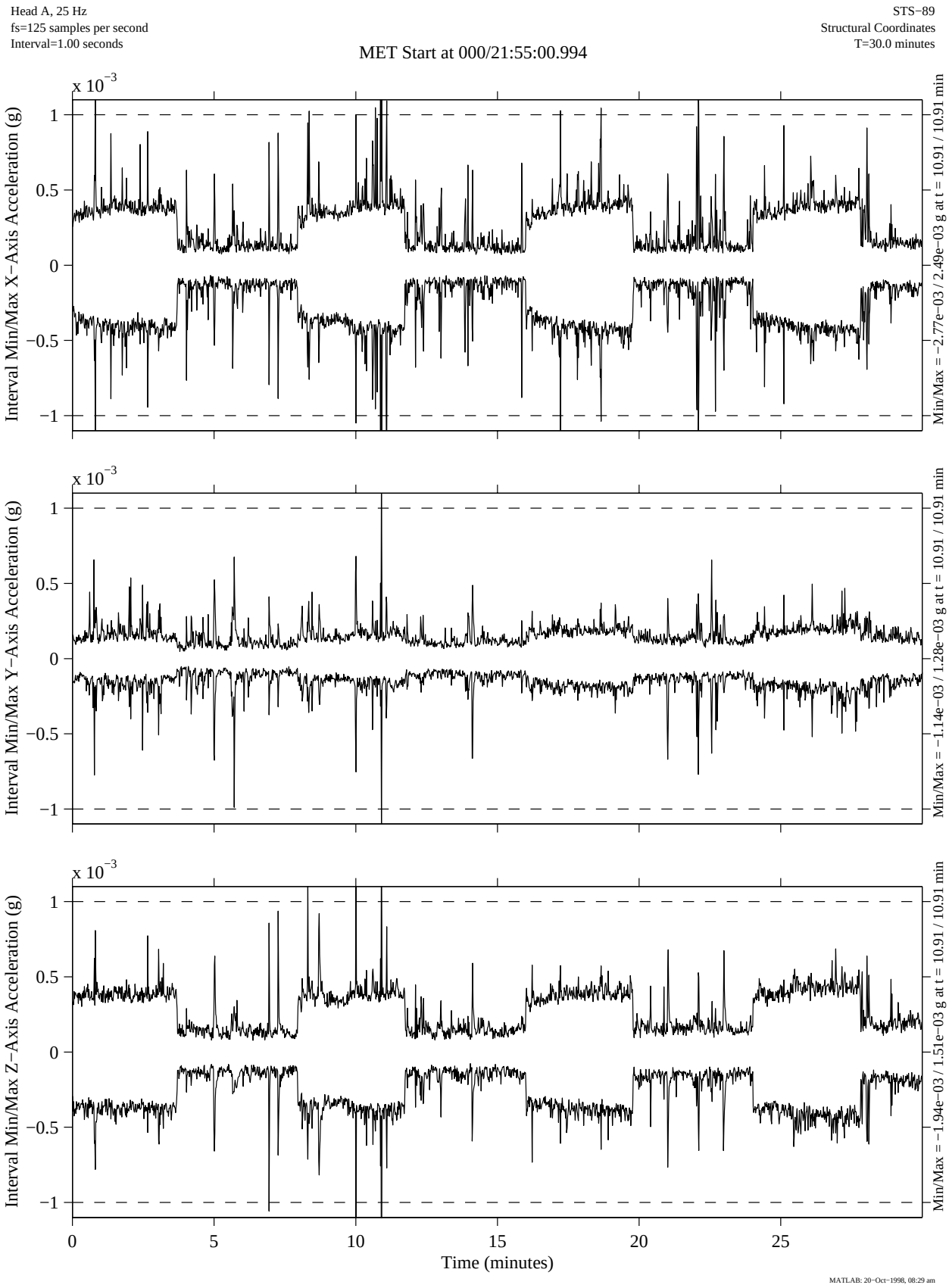
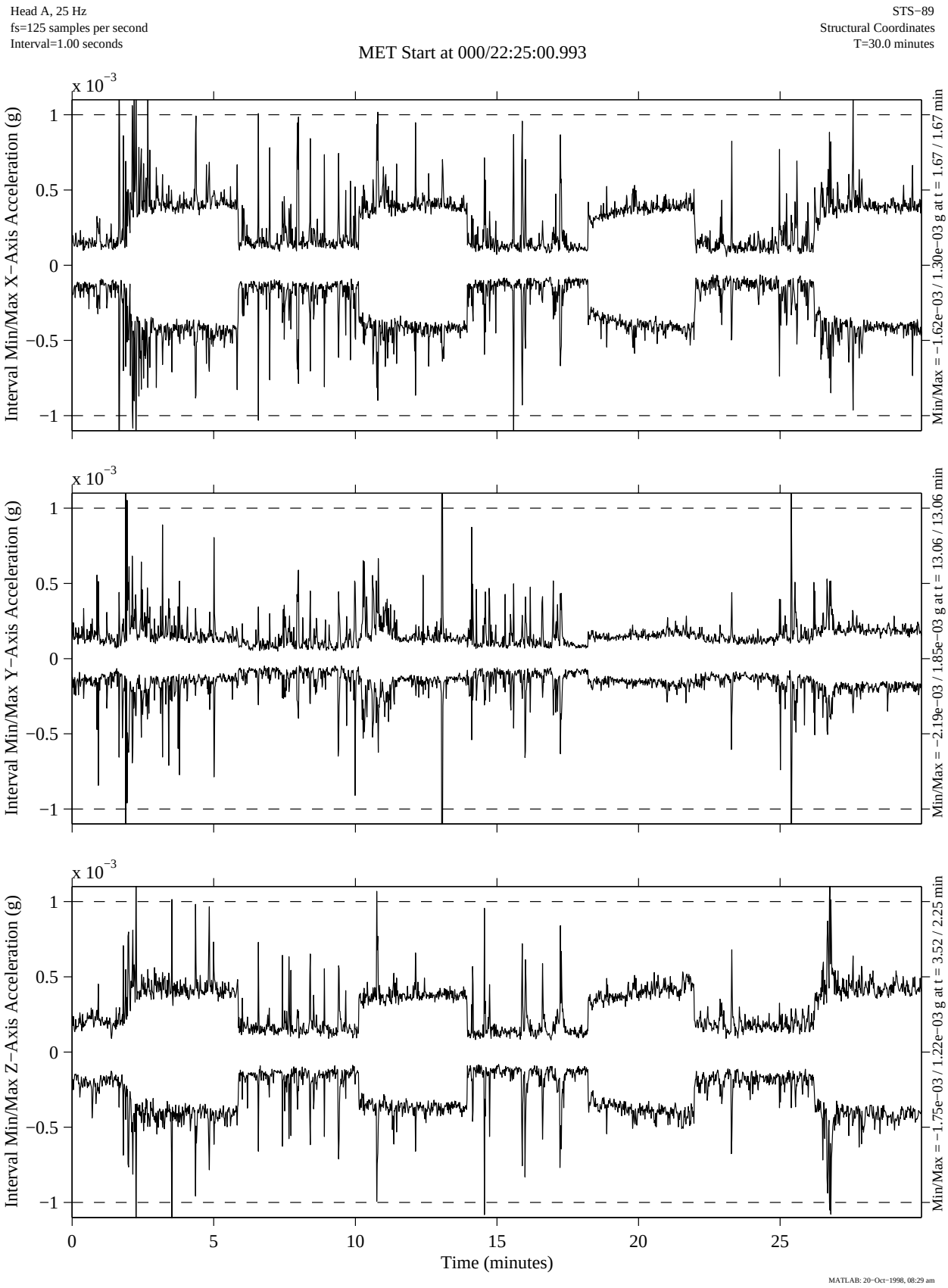
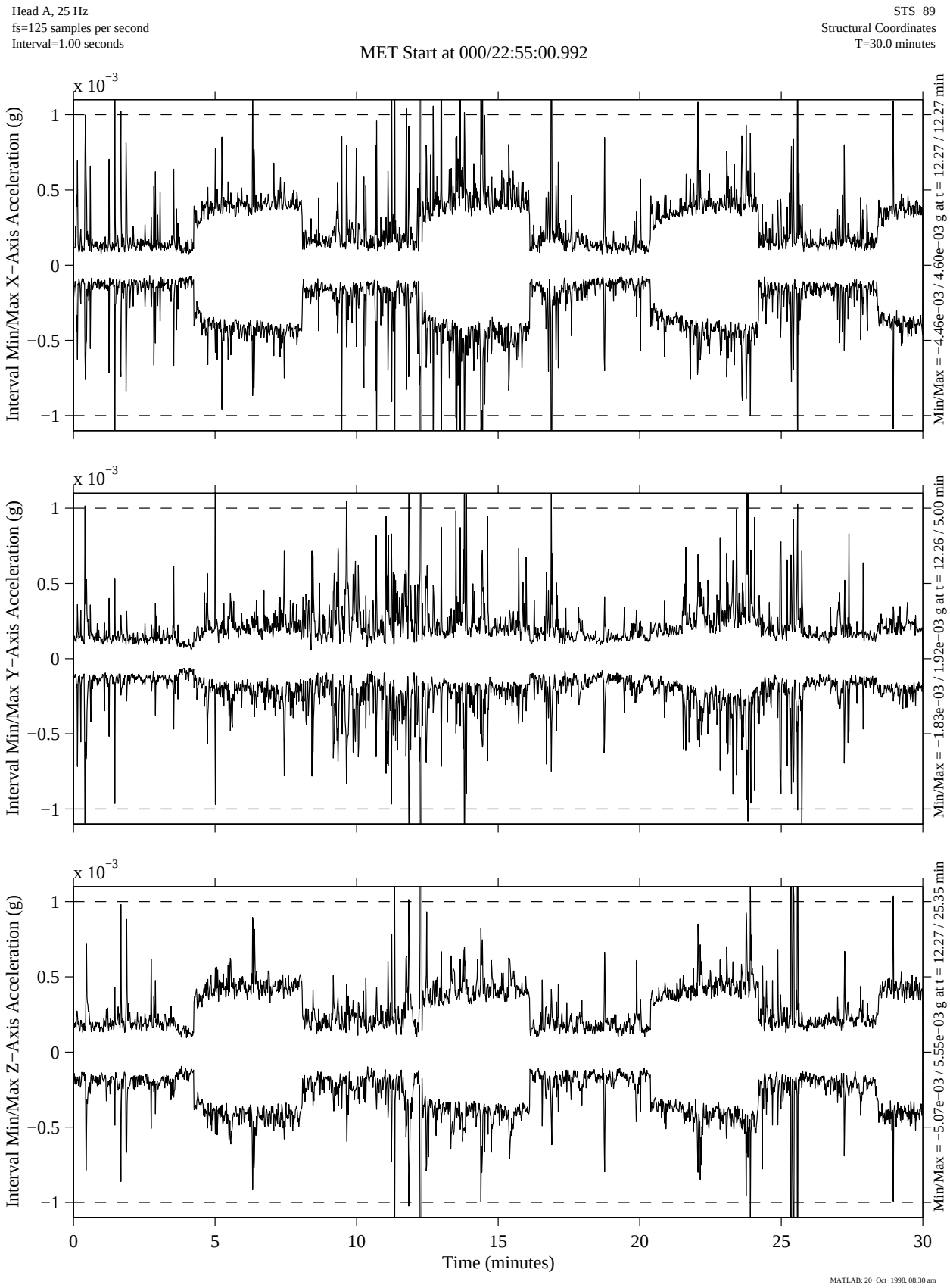
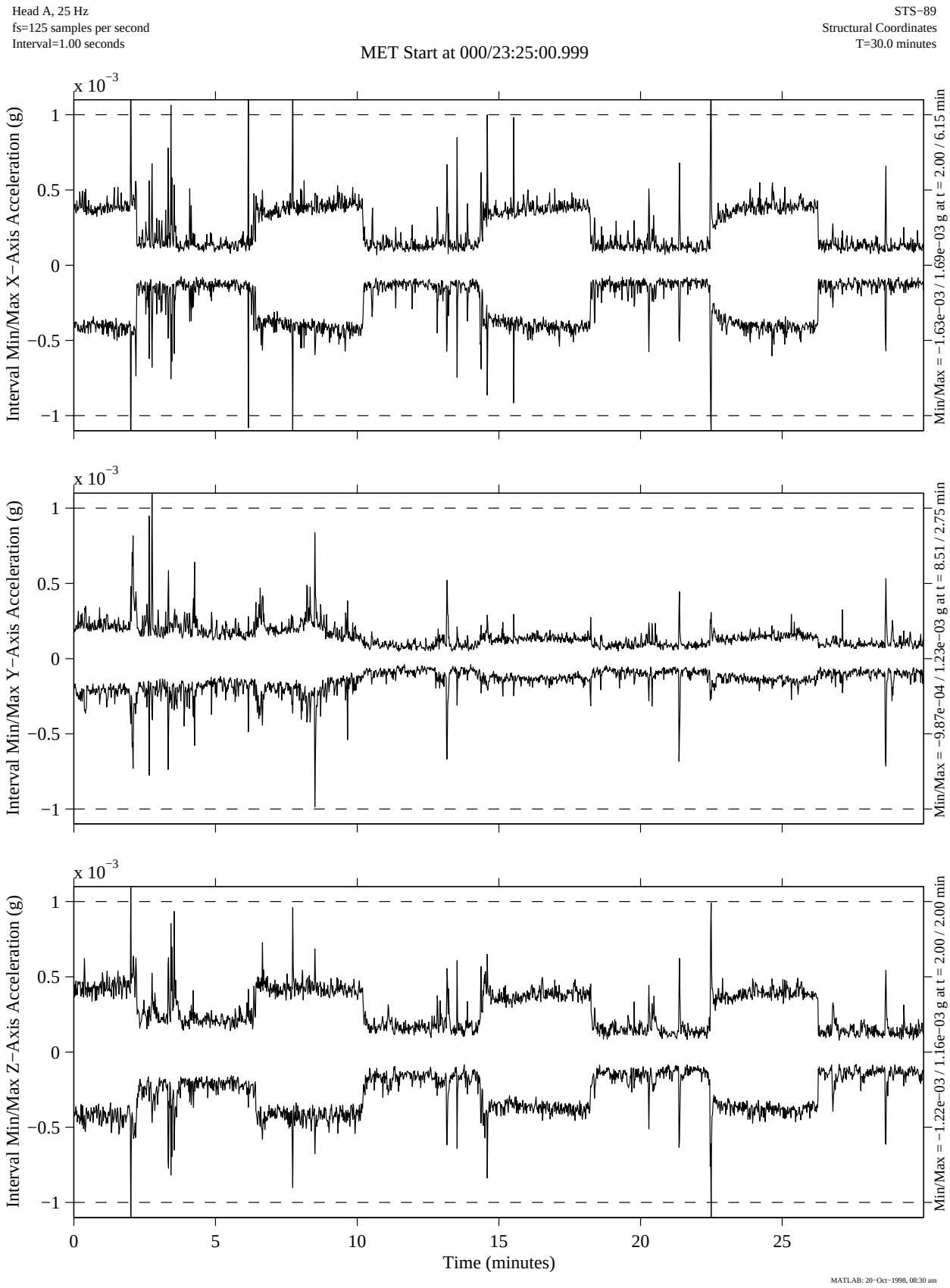

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/20:55:00.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.07e−02 / 1.62e−02 g at t = 27.29 / 27.29 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −6.00e−03 / 2.95e−03 g at t = 27.29 / 27.29 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −6.24e−03 / 9.55e−03 g at t = 3.03 / 3.03 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:29 am

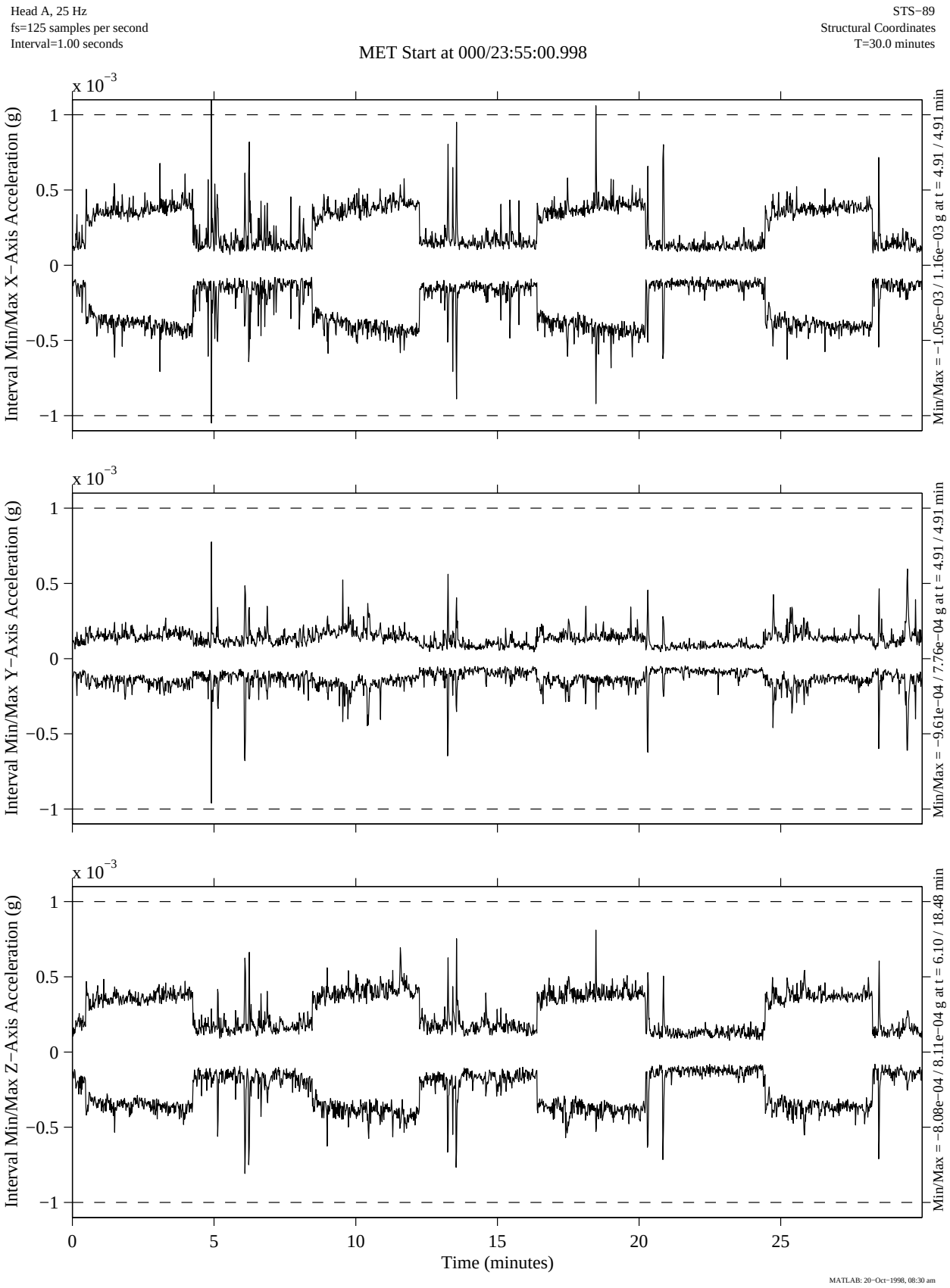

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/21:25:00.995
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.08e−03 / 3.77e−03 g at t = 20.70 / 20.70 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.65e−03 / 1.78e−03 g at t = 16.70 / 16.70 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −3.57e−03 / 4.65e−03 g at t = 20.61 / 20.61 min
Time (minutes)
MATLAB: 20−Oct−1998, 08:29 am

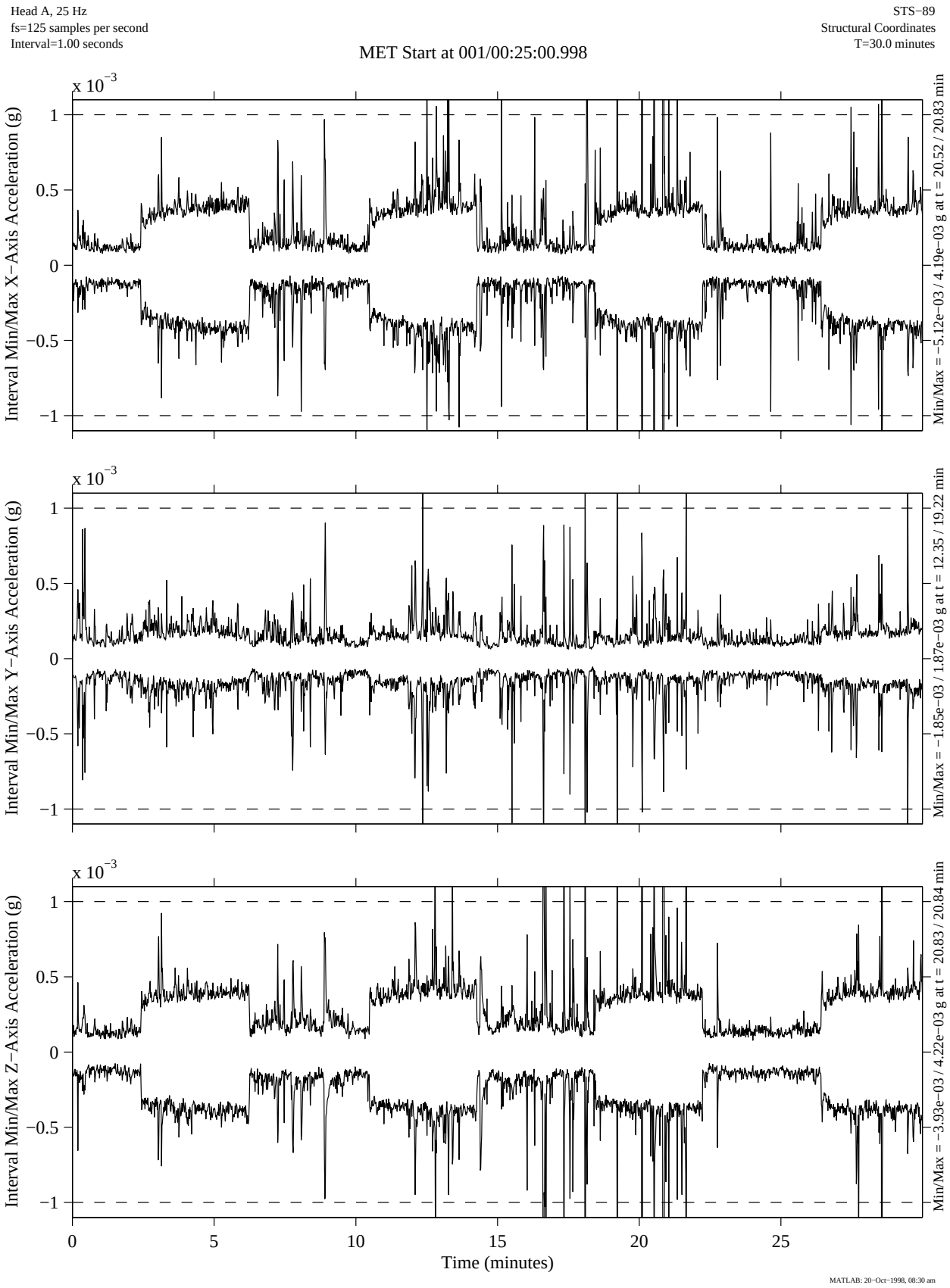

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/21:55:00.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.77e−03 / 2.49e−03 g at t = 10.91 / 10.91 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.14e−03 / 1.28e−03 g at t = 10.91 / 10.91 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.94e−03 / 1.51e−03 g at t = 10.91 / 10.91 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:29 am

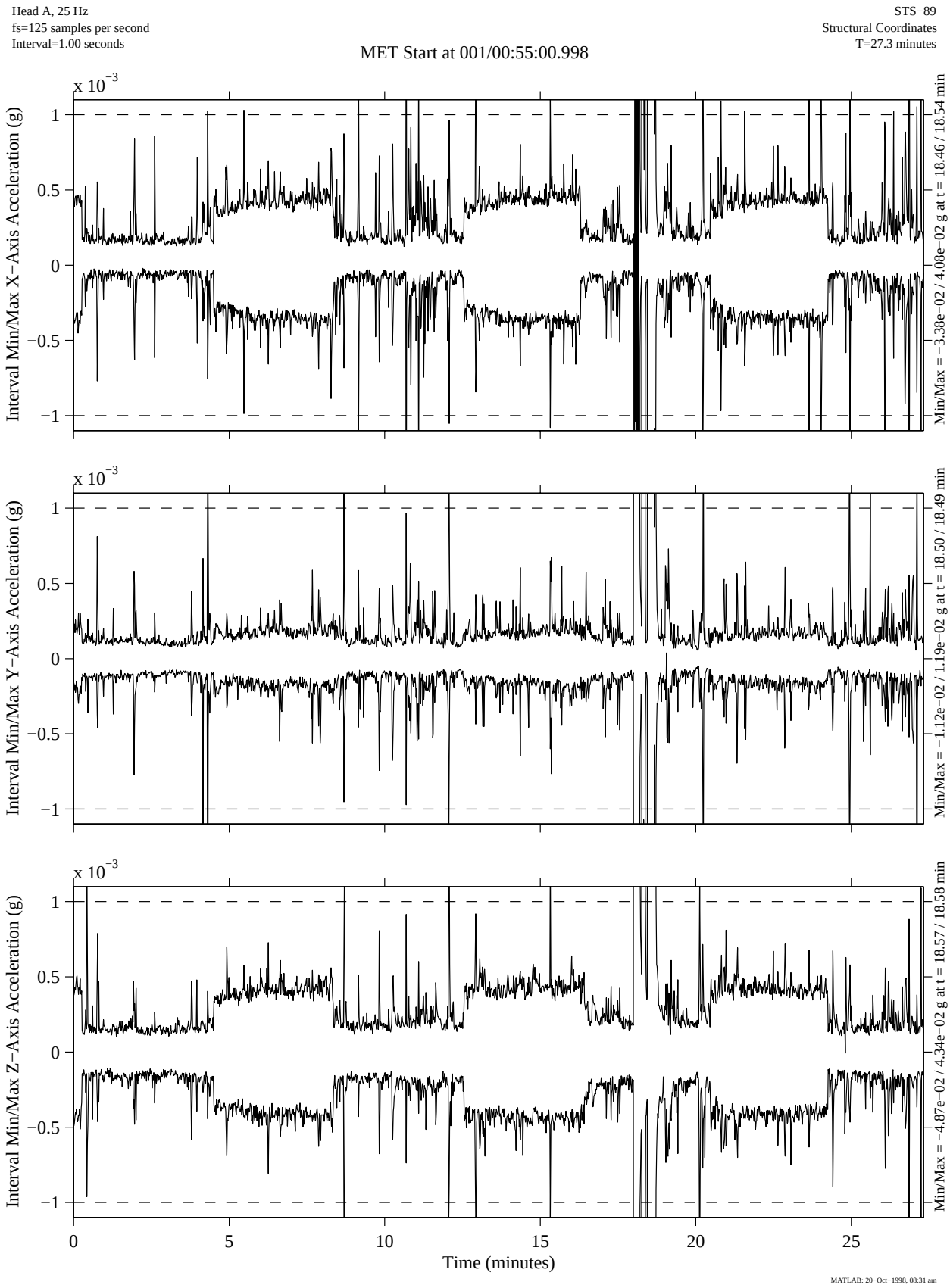

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/22:25:00.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.62e−03 / 1.30e−03 g at t = 1.67 / 1.67 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.19e−03 / 1.85e−03 g at t = 13.06 / 13.06 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.75e−03 / 1.22e−03 g at t = 3.52 / 2.25 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:29 am

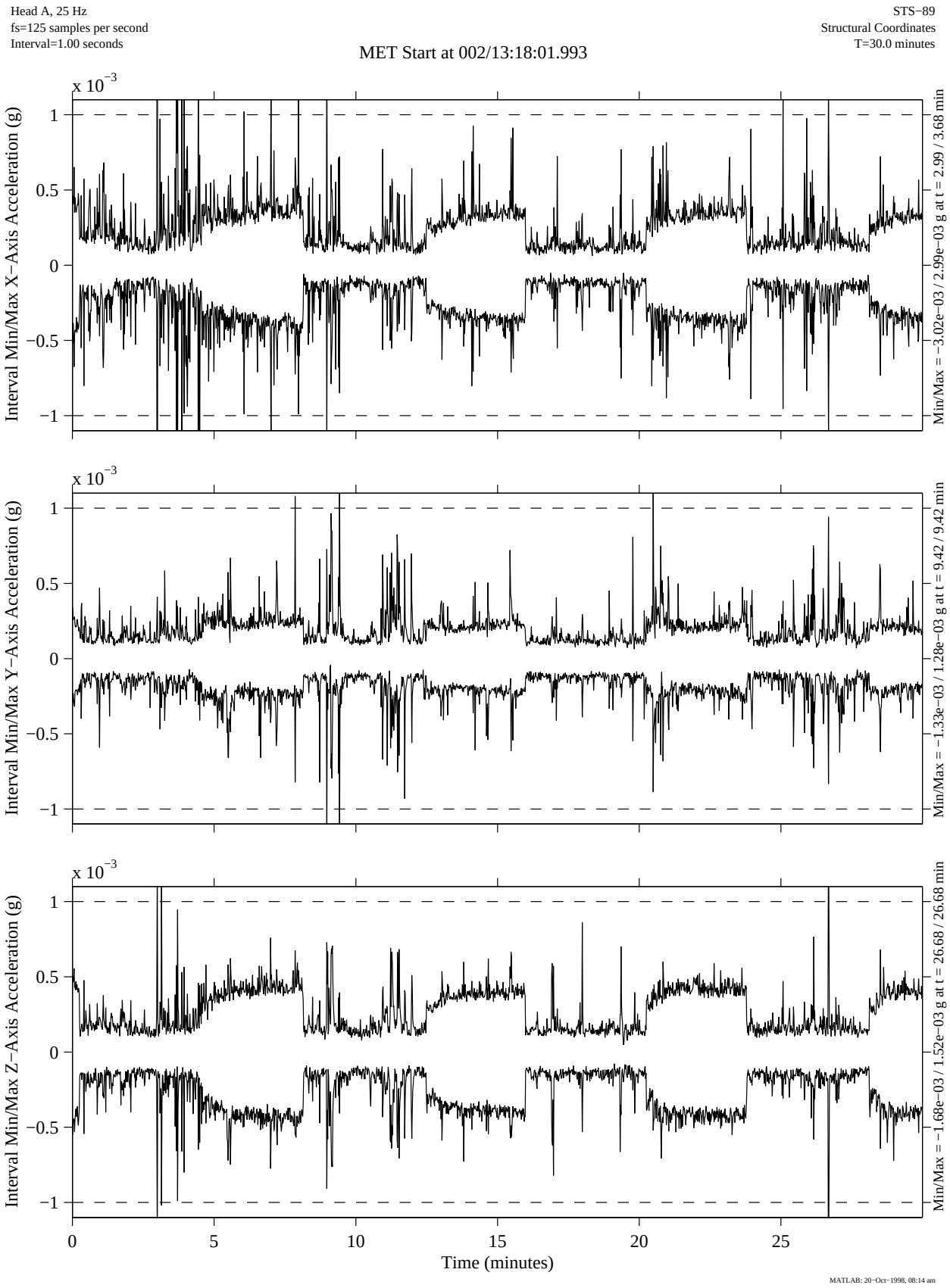

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/22:55:00.992
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −4.46e−03 / 4.60e−03 g at t = 12.27 / 12.27 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.83e−03 / 1.92e−03 g at t = 12.26 / 5.00 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −5.07e−03 / 5.55e−03 g at t = 12.27 / 25.35 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
30
Time (minutes)
MATLAB: 20−Oct−1998, 08:30 am

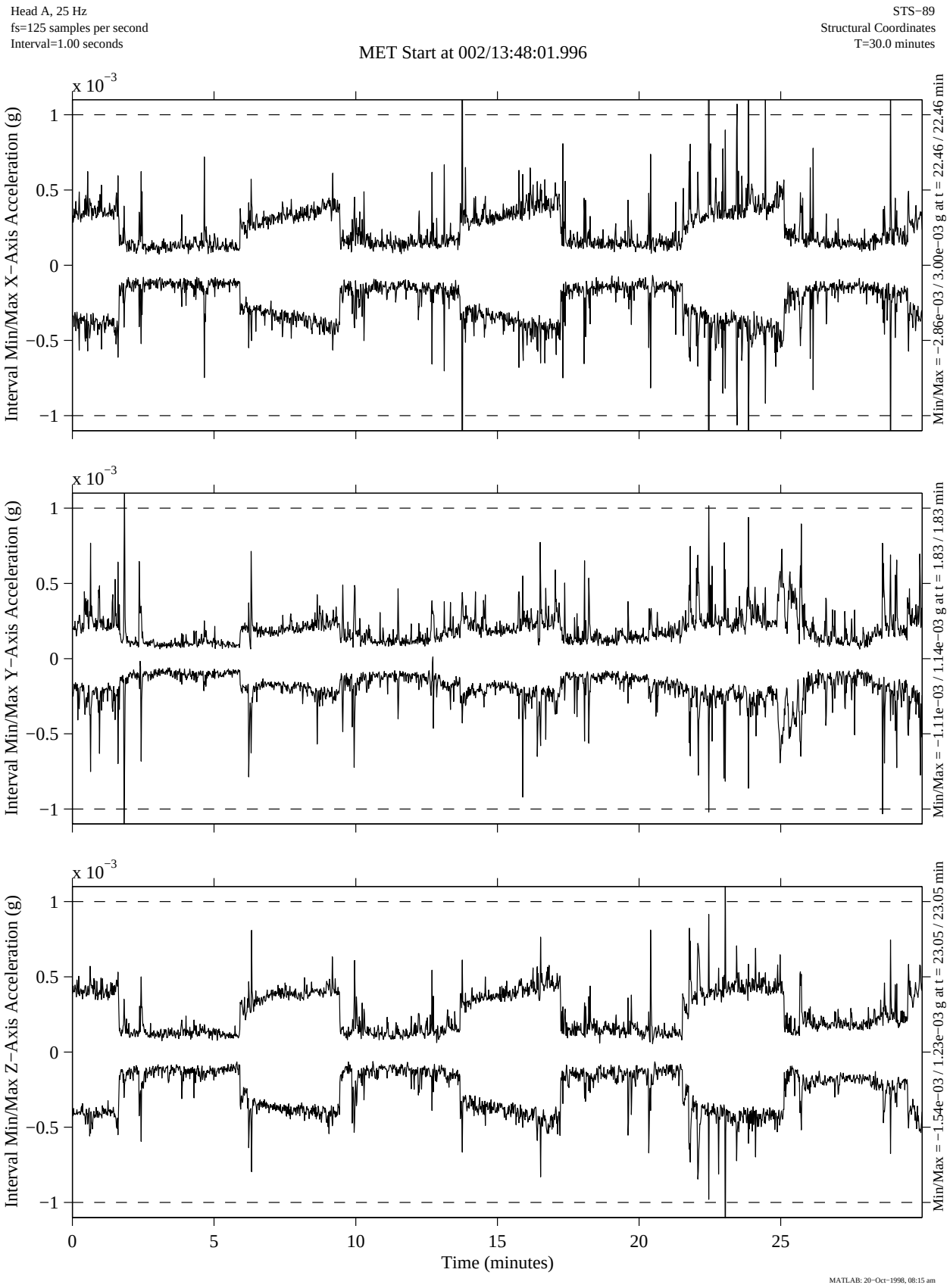

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/23:25:00.999
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.63e−03 / 1.69e−03 g at t = 2.00 / 6.15 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.87e−04 / 1.23e−03 g at t = 8.51 / 2.75 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.22e−03 / 1.16e−03 g at t = 2.00 / 2.00 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:30 am

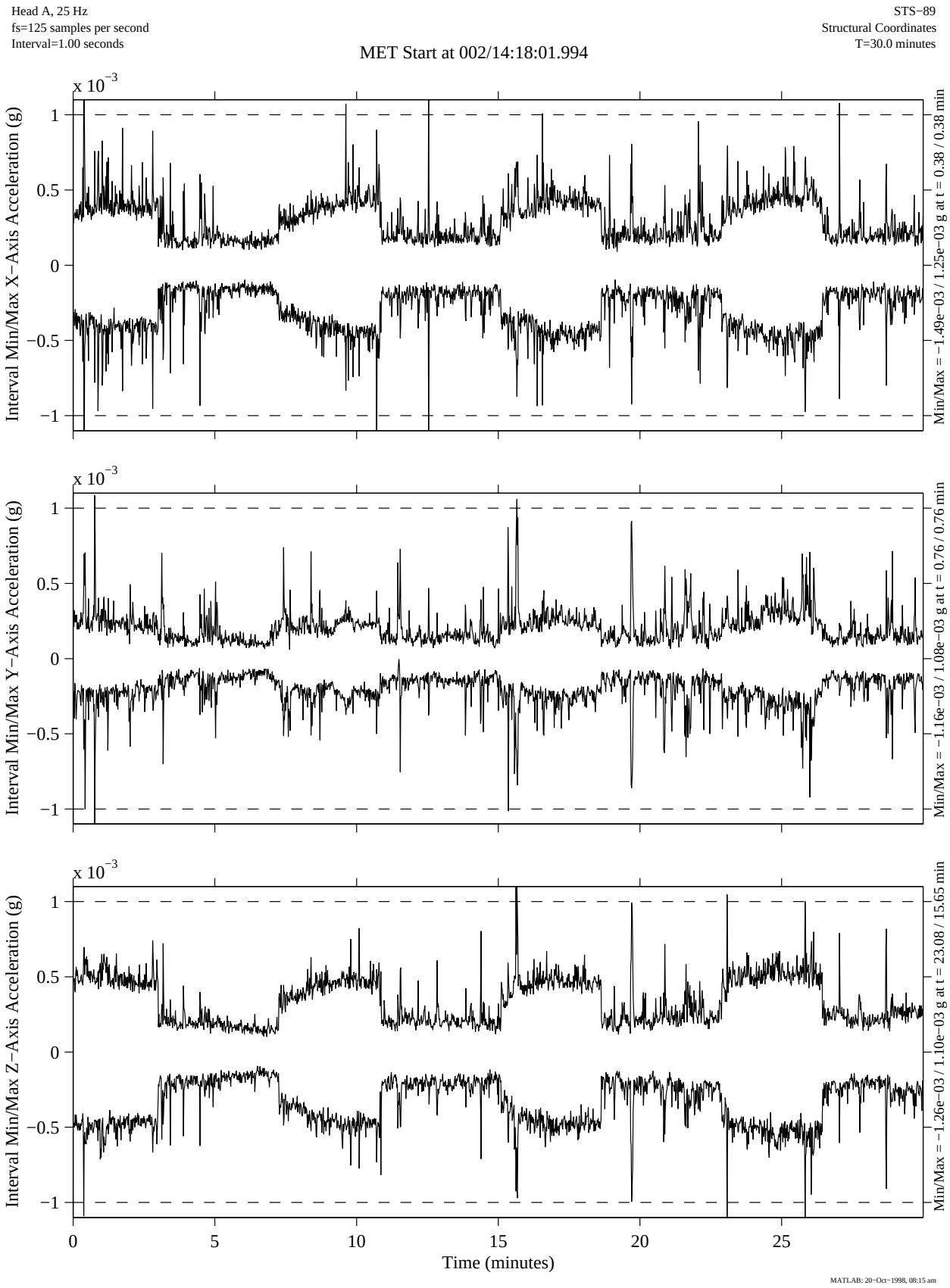

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 000/23:55:00.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.05e−03 / 1.16e−03 g at t = 4.91 / 4.91 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.61e−04 / 7.76e−04 g at t = 4.91 / 4.91 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −8.08e−04 / 8.11e−04 g at t = 6.10 / 18.48 min
Time (minutes)
MATLAB: 20−Oct−1998, 08:30 am

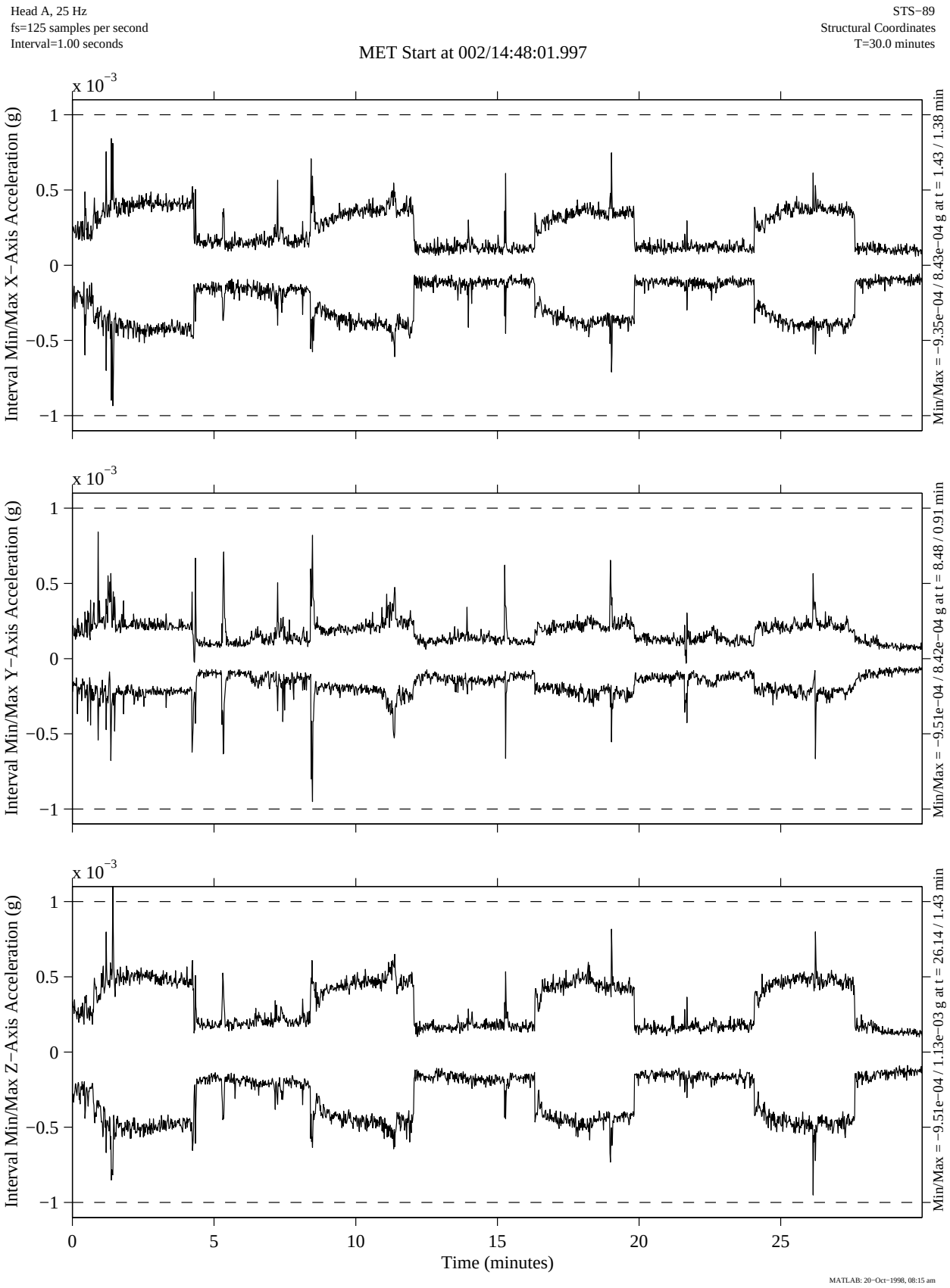

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 001/00:25:00.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −5.12e−03 / 4.19e−03 g at t = 20.52 / 20.83 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.85e−03 / 1.87e−03 g at t = 12.35 / 19.22 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −3.93e−03 / 4.22e−03 g at t = 20.83 / 20.84 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:30 am

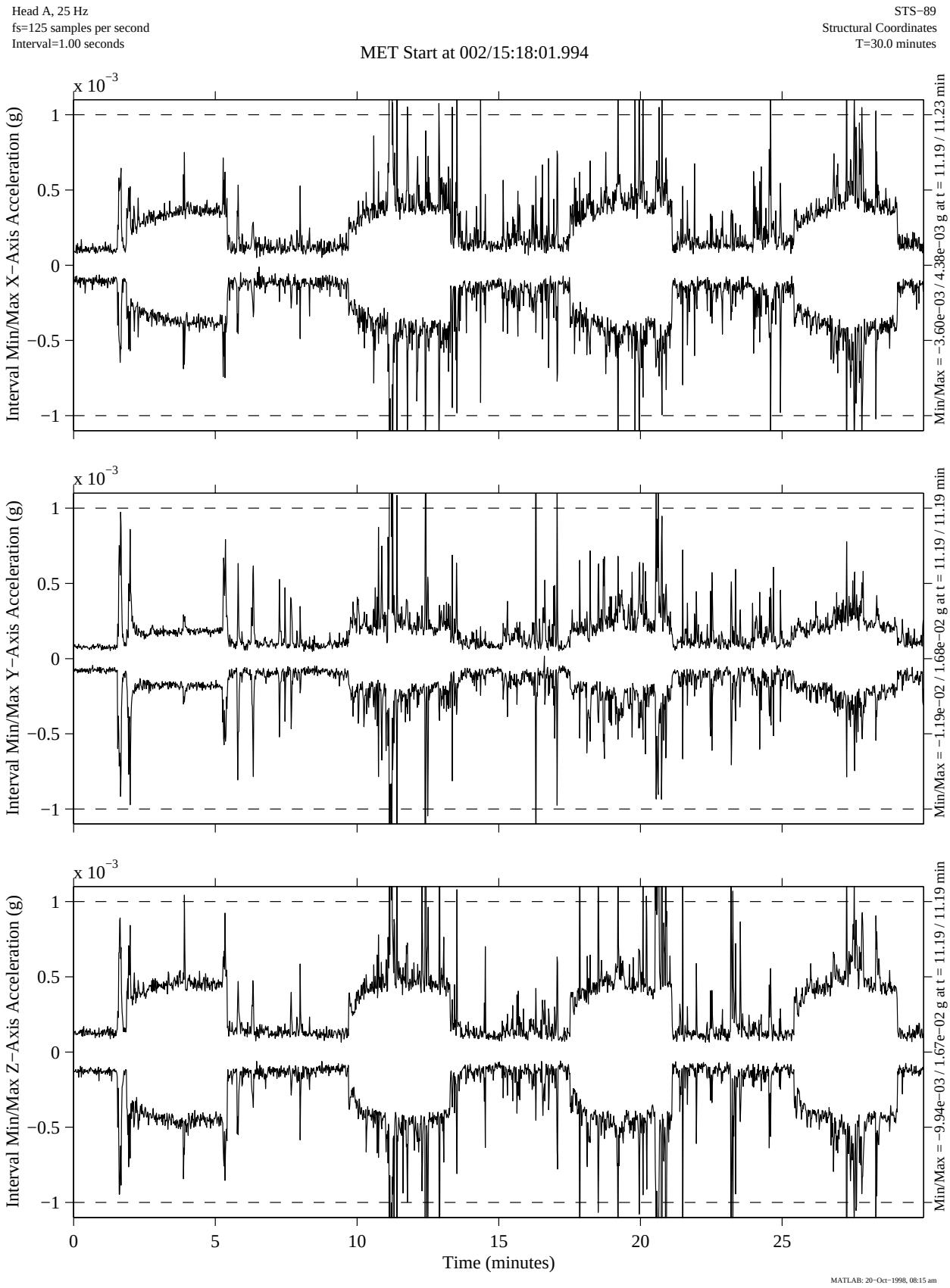

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=27.3 minutes
MET Start at 001/00:55:00.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.38e−02 / 4.08e−02 g at t = 18.46 / 18.54 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.12e−02 / 1.19e−02 g at t = 18.50 / 18.49 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −4.87e−02 / 4.34e−02 g at t = 18.57 / 18.58 min
Time (minutes)
MATLAB: 20−Oct−1998, 08:31 am

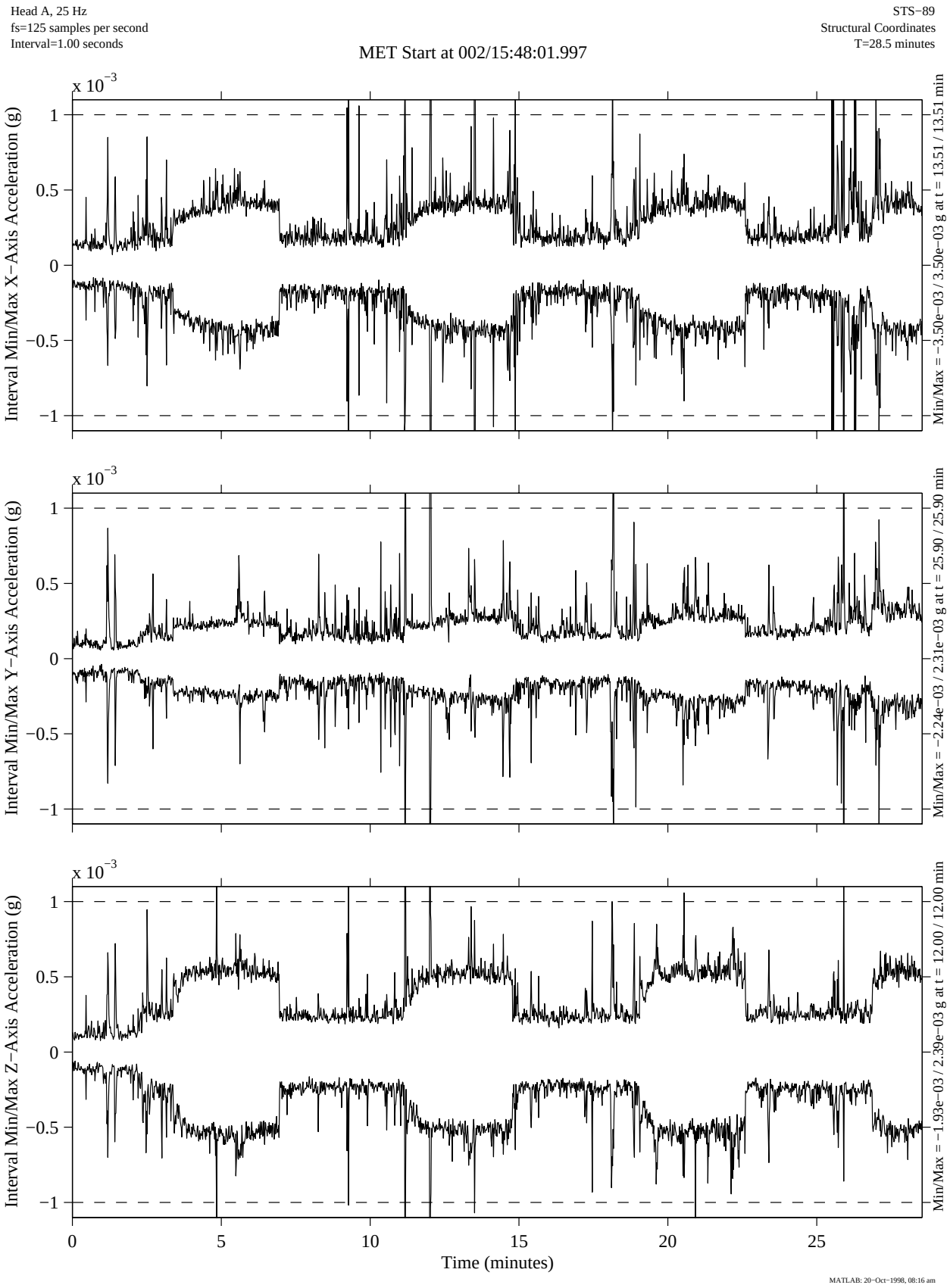

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 002/13:18:01.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.02e−03 / 2.99e−03 g at t = 2.99 / 3.68 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.33e−03 / 1.28e−03 g at t = 9.42 / 9.42 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.68e−03 / 1.52e−03 g at t = 26.68 / 26.68 min
Time (minutes)
MATLAB: 20−Oct−1998, 08:14 am

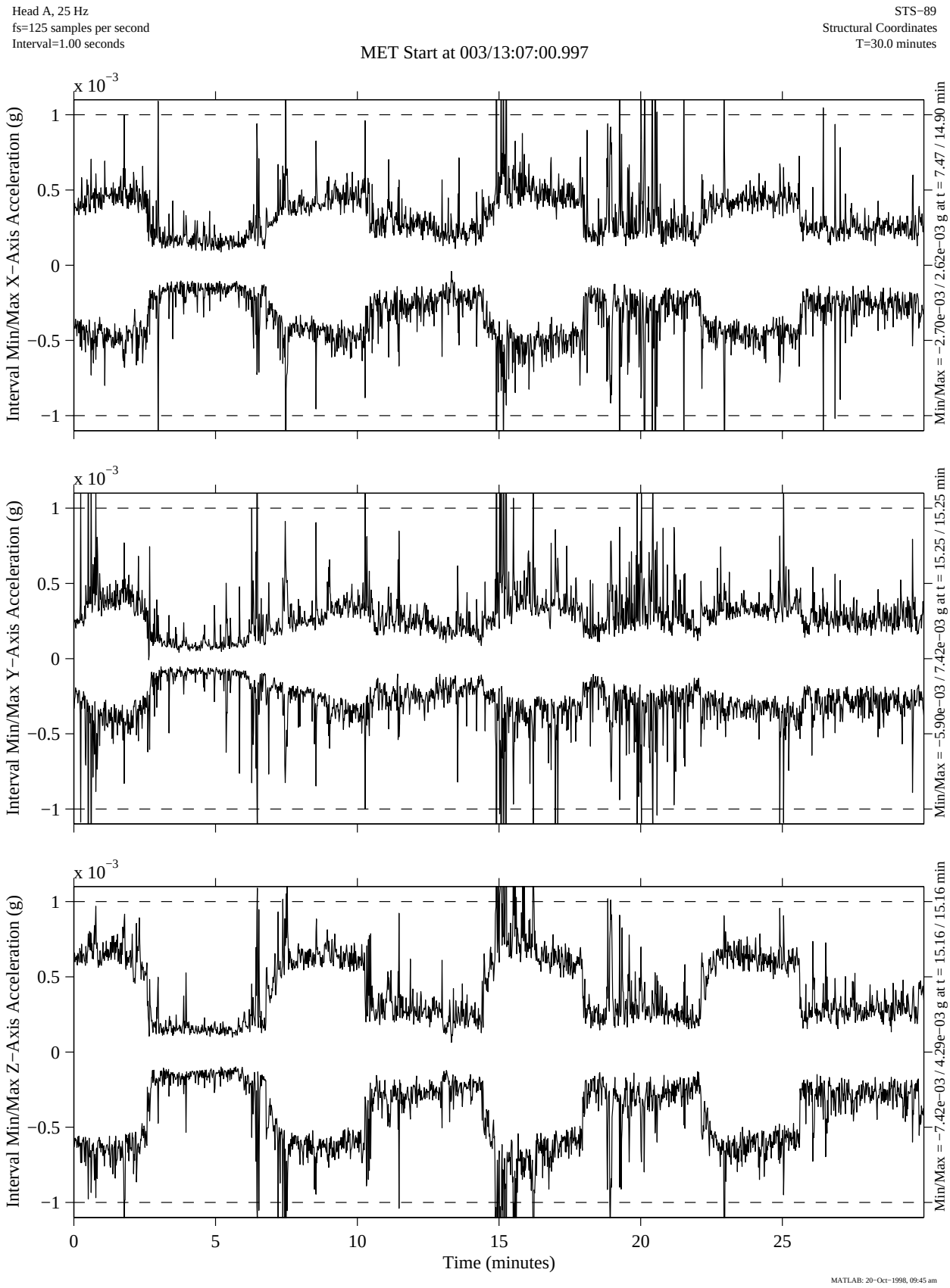

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 002/13:48:01.996
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.86e−03 / 3.00e−03 g at t = 22.46 / 22.46 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.11e−03 / 1.14e−03 g at t = 1.83 / 1.83 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.54e−03 / 1.23e−03 g at t = 23.05 / 23.05 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:15 am

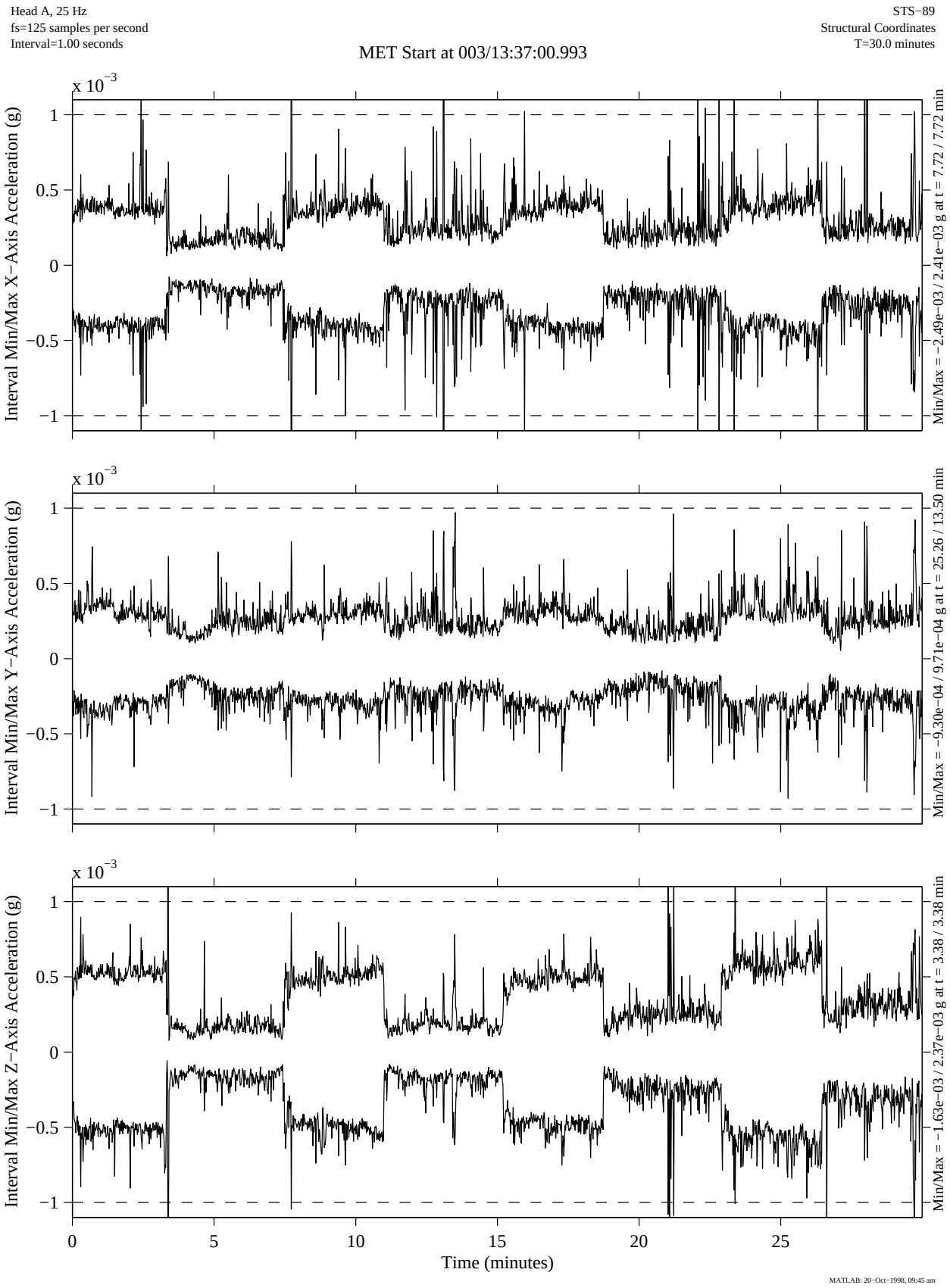

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 002/14:18:01.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.49e−03 / 1.25e−03 g at t = 0.38 / 0.38 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.16e−03 / 1.08e−03 g at t = 0.76 / 0.76 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.26e−03 / 1.10e−03 g at t = 23.08 / 15.65 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:15 am

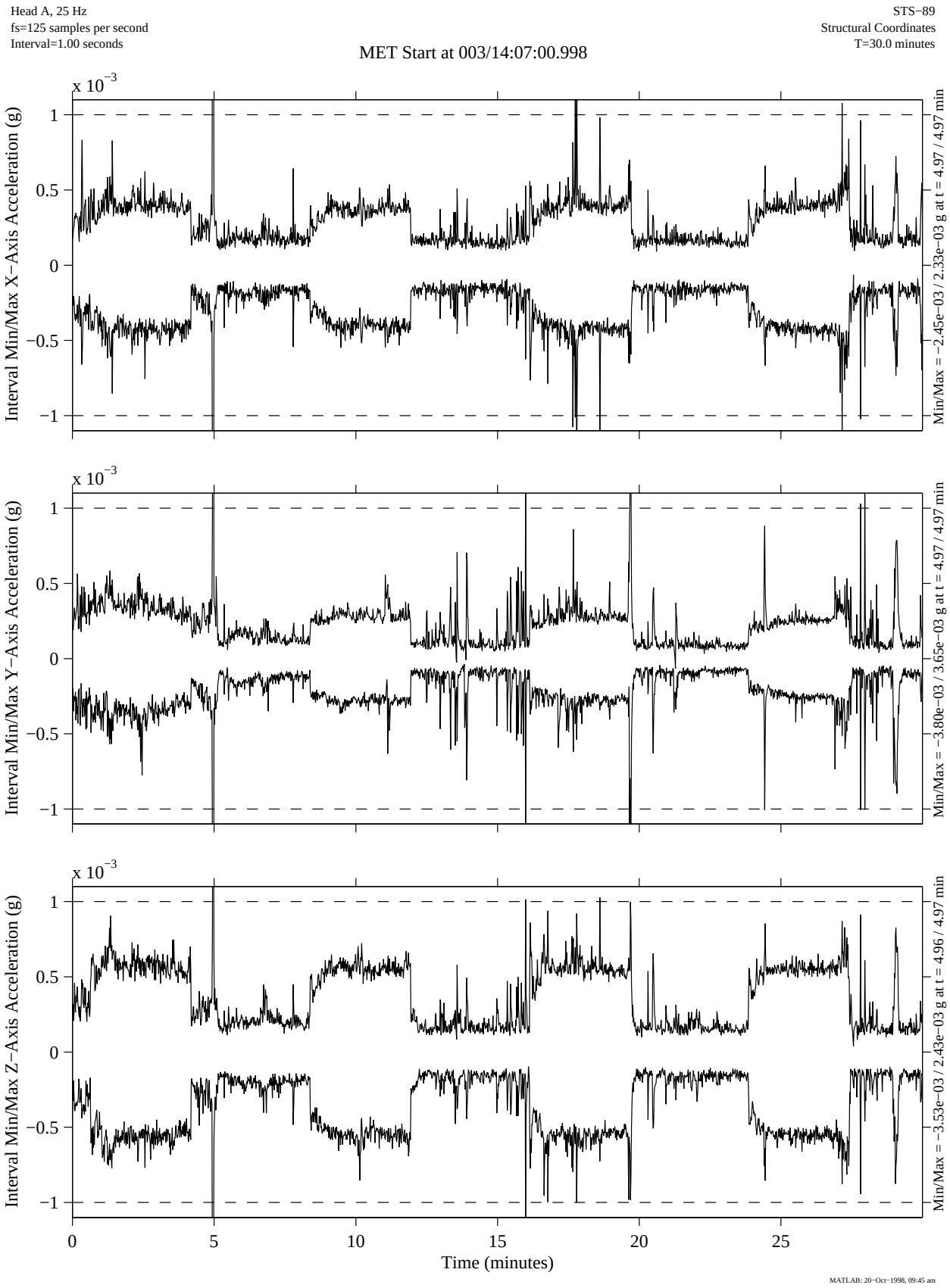

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 002/14:48:01.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −9.35e−04 / 8.43e−04 g at t = 1.43 / 1.38 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.51e−04 / 8.42e−04 g at t = 8.48 / 0.91 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −9.51e−04 / 1.13e−03 g at t = 26.14 / 1.43 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:15 am

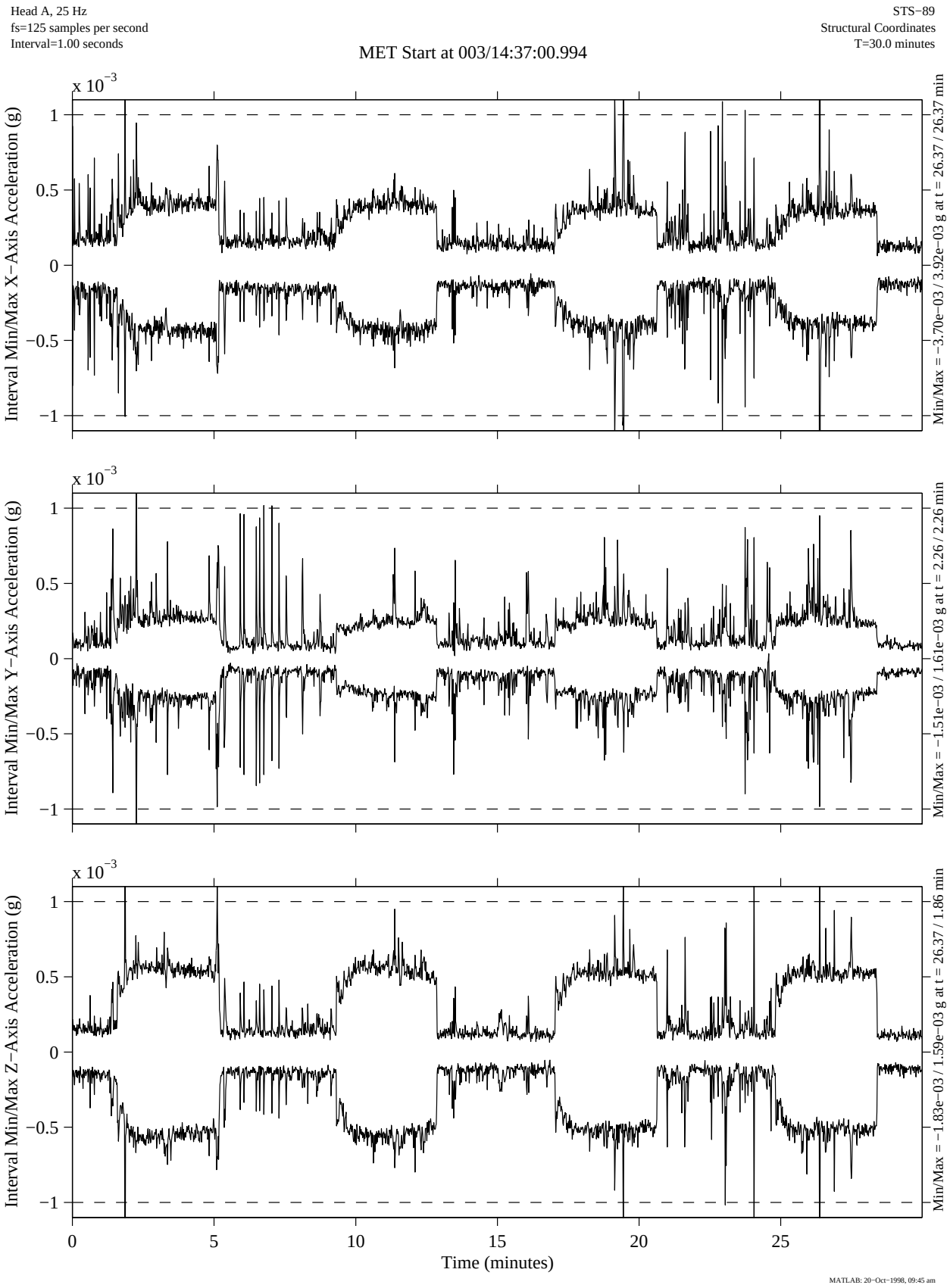

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 002/15:18:01.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.60e−03 / 4.38e−03 g at t = 11.19 / 11.23 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.19e−02 / 1.68e−02 g at t = 11.19 / 11.19 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −9.94e−03 / 1.67e−02 g at t = 11.19 / 11.19 min
Time (minutes)
MATLAB: 20−Oct−1998, 08:15 am

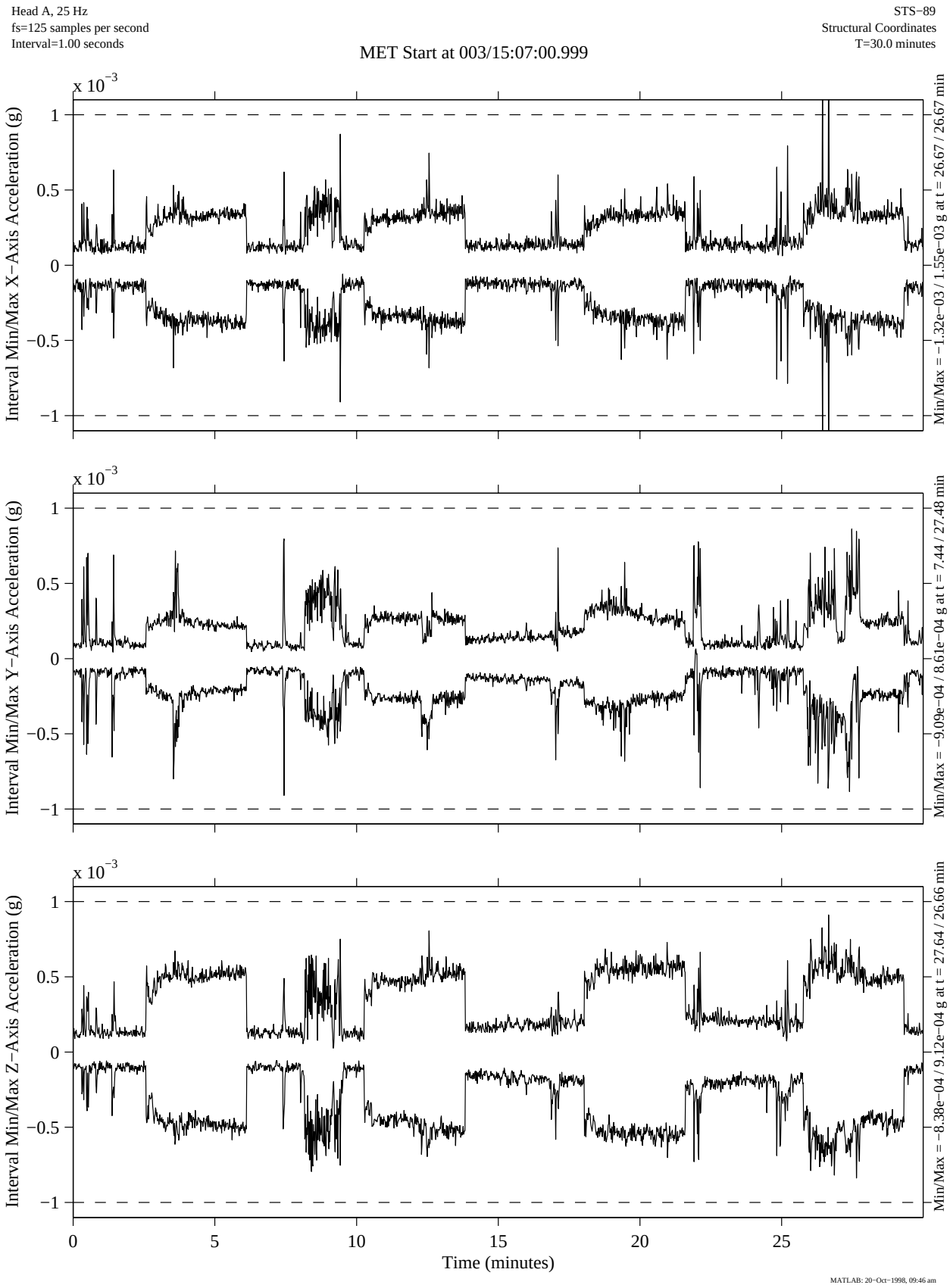

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=28.5 minutes
MET Start at 002/15:48:01.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.50e−03 / 3.50e−03 g at t = 13.51 / 13.51 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.24e−03 / 2.31e−03 g at t = 25.90 / 25.90 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.93e−03 / 2.39e−03 g at t = 12.00 / 12.00 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 08:16 am

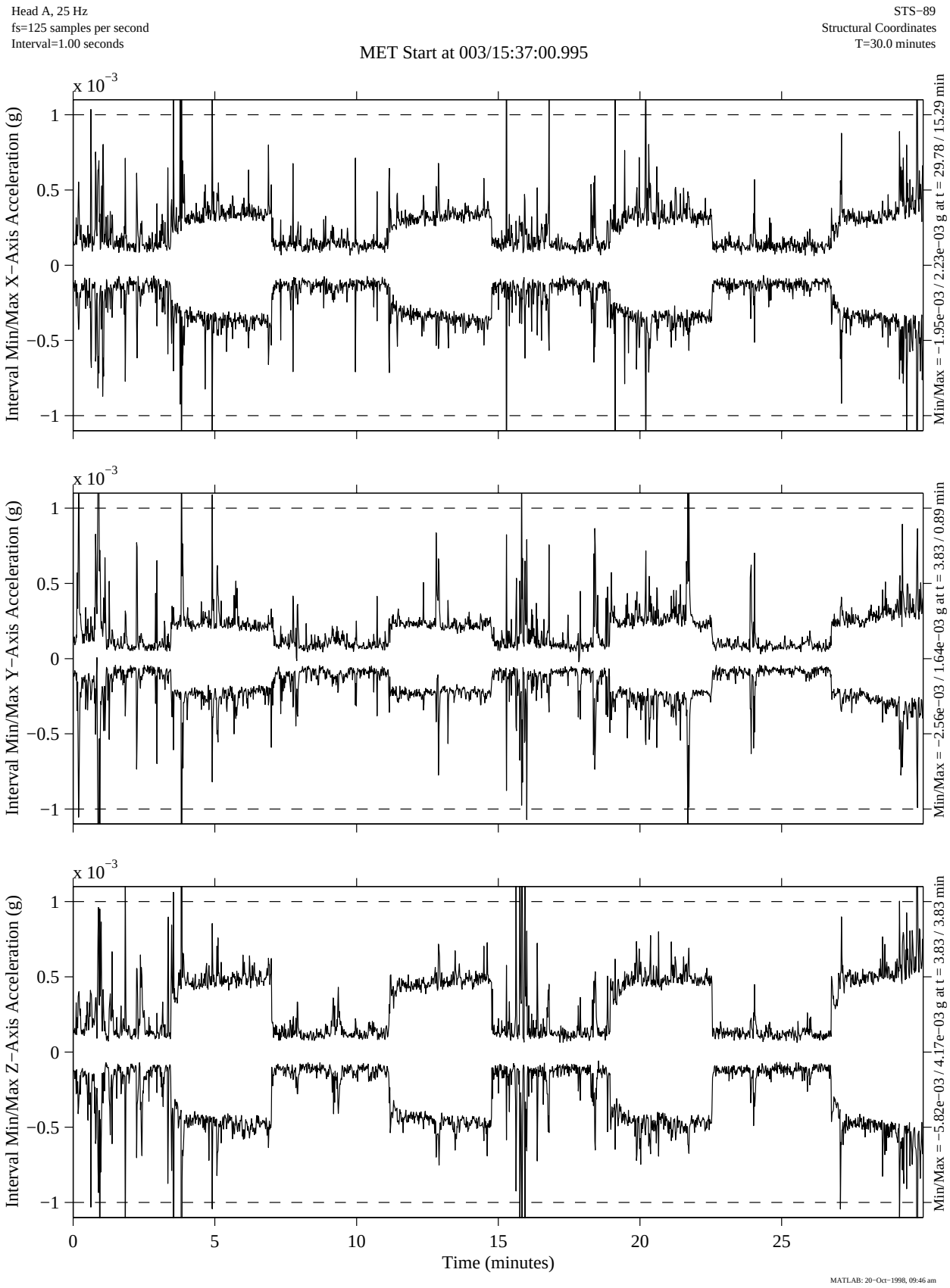

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/13:07:00.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.70e−03 / 2.62e−03 g at t = 7.47 / 14.90 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −5.90e−03 / 7.42e−03 g at t = 15.25 / 15.25 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −7.42e−03 / 4.29e−03 g at t = 15.16 / 15.16 min
Time (minutes)
MATLAB: 20−Oct−1998, 09:45 am

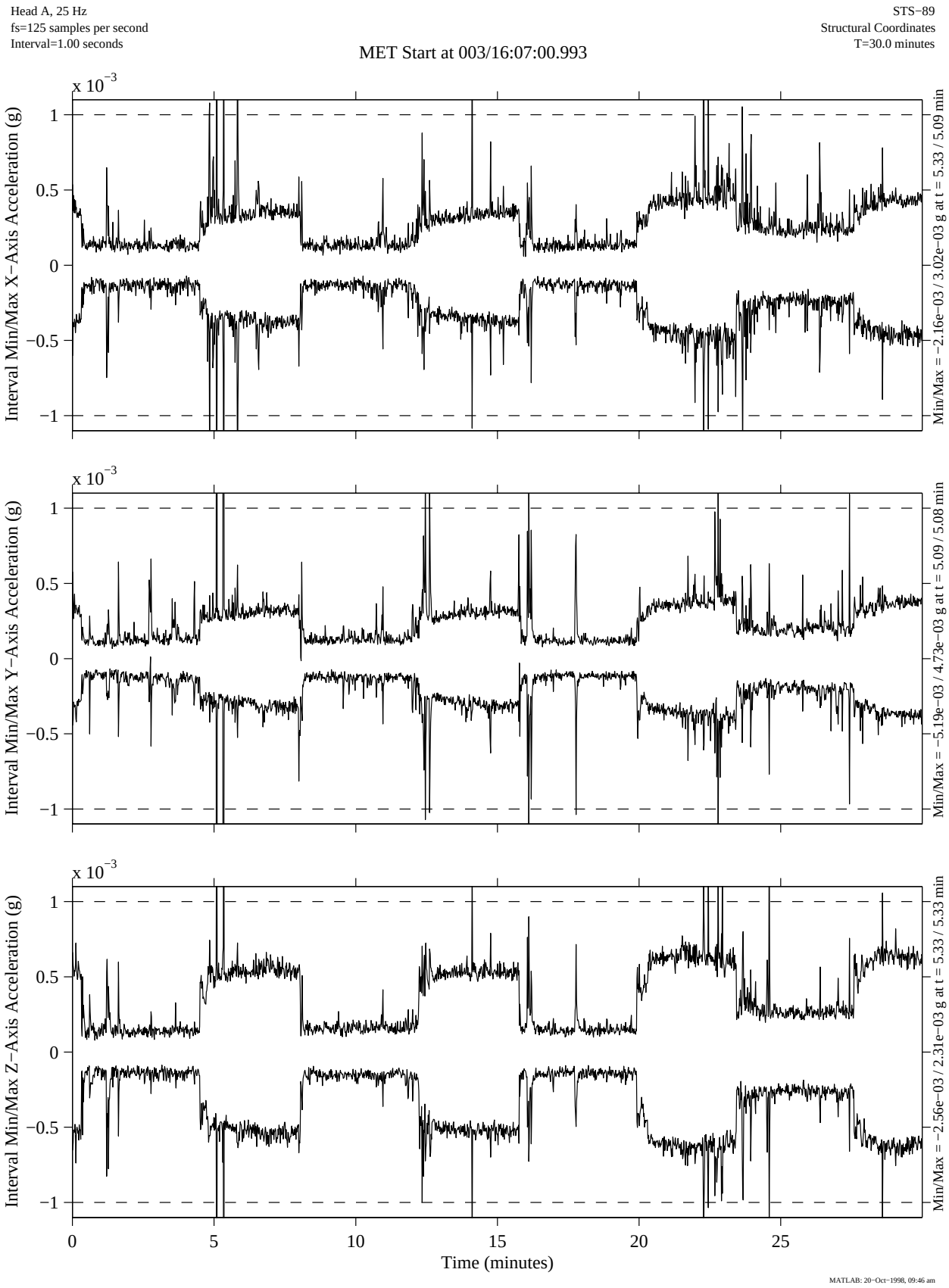

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/13:37:00.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.49e−03 / 2.41e−03 g at t = 7.72 / 7.72 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.30e−04 / 9.71e−04 g at t = 25.26 / 13.50 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.63e−03 / 2.37e−03 g at t = 3.38 / 3.38 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 09:45 am

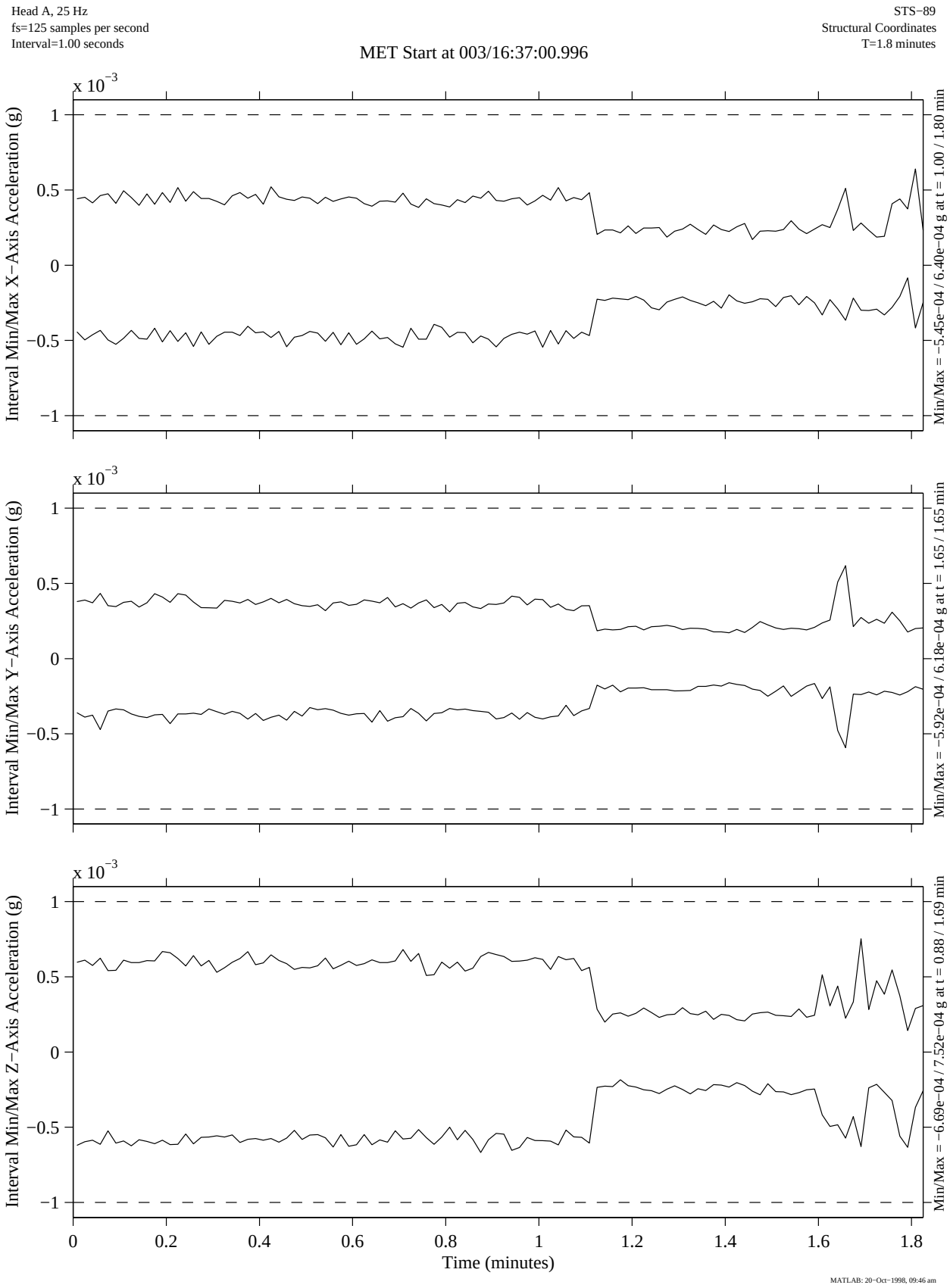

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/14:07:00.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.45e−03 / 2.33e−03 g at t = 4.97 / 4.97 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −3.80e−03 / 3.65e−03 g at t = 4.97 / 4.97 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −3.53e−03 / 2.43e−03 g at t = 4.96 / 4.97 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 09:45 am

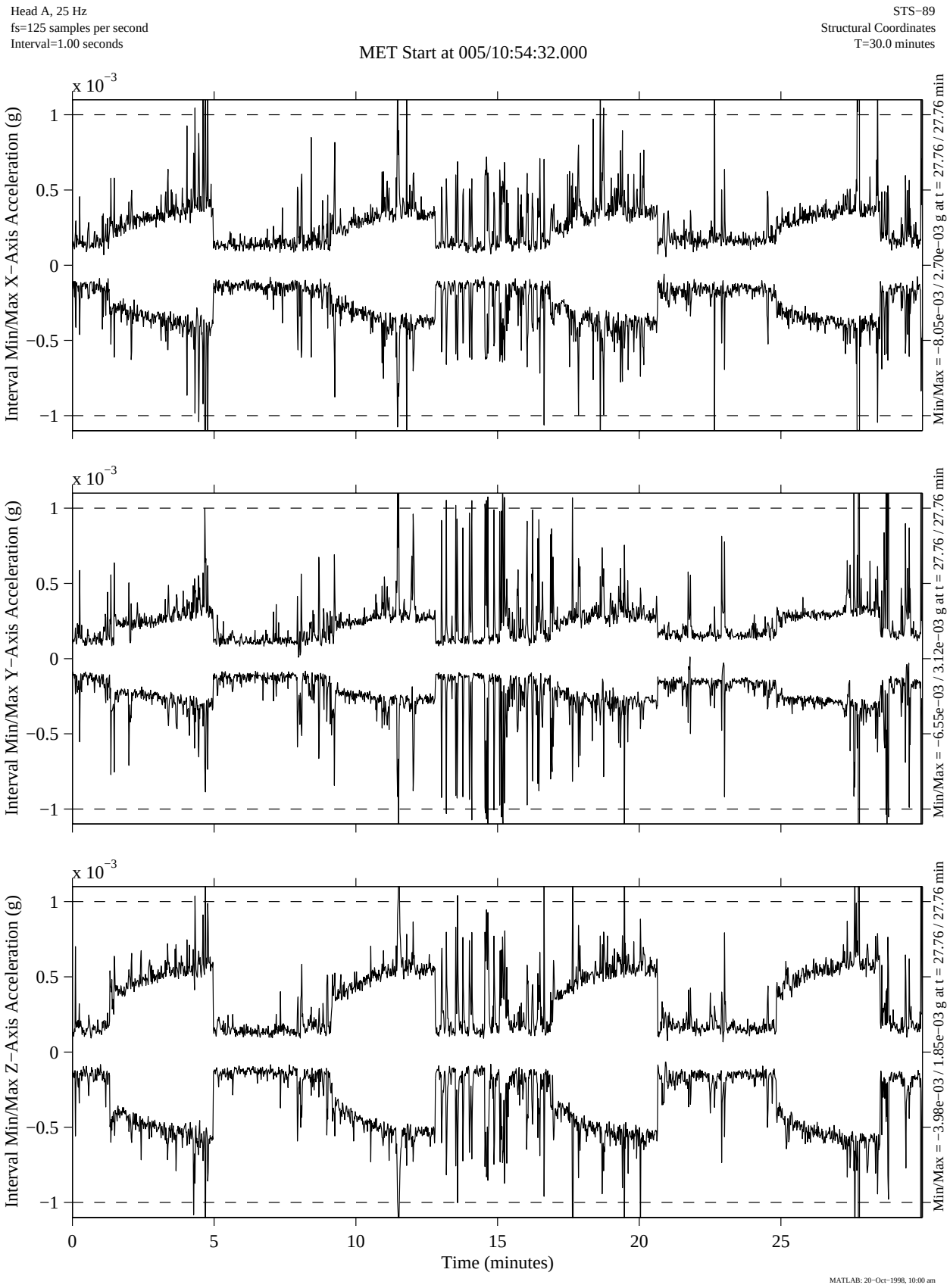

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/14:37:00.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.70e−03 / 3.92e−03 g at t = 26.37 / 26.37 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.51e−03 / 1.61e−03 g at t = 2.26 / 2.26 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.83e−03 / 1.59e−03 g at t = 26.37 / 1.86 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 09:45 am

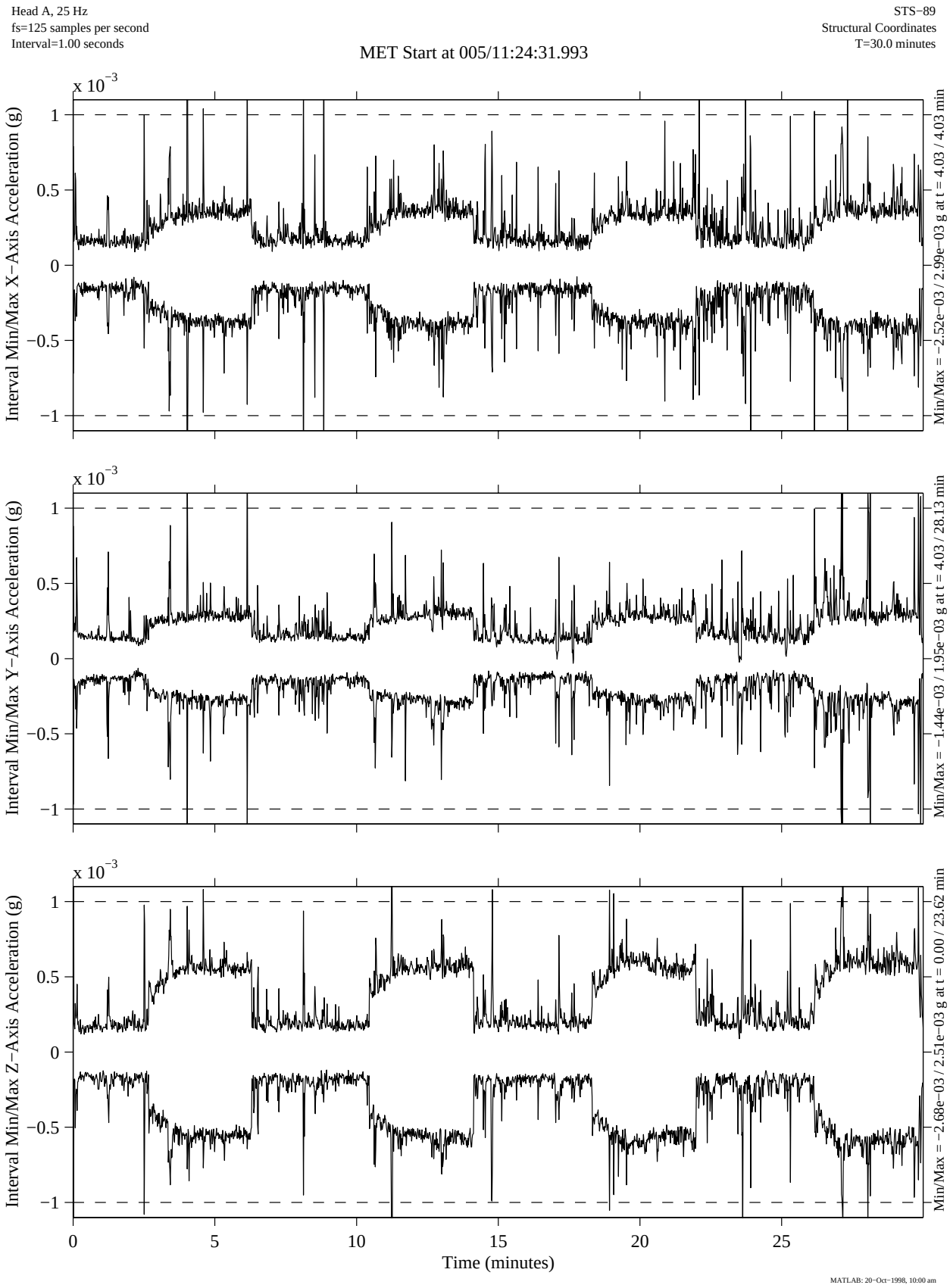

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/15:07:00.999
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.32e−03 / 1.55e−03 g at t = 26.67 / 26.67 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.09e−04 / 8.61e−04 g at t = 7.44 / 27.48 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −8.38e−04 / 9.12e−04 g at t = 27.64 / 26.66 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 09:46 am

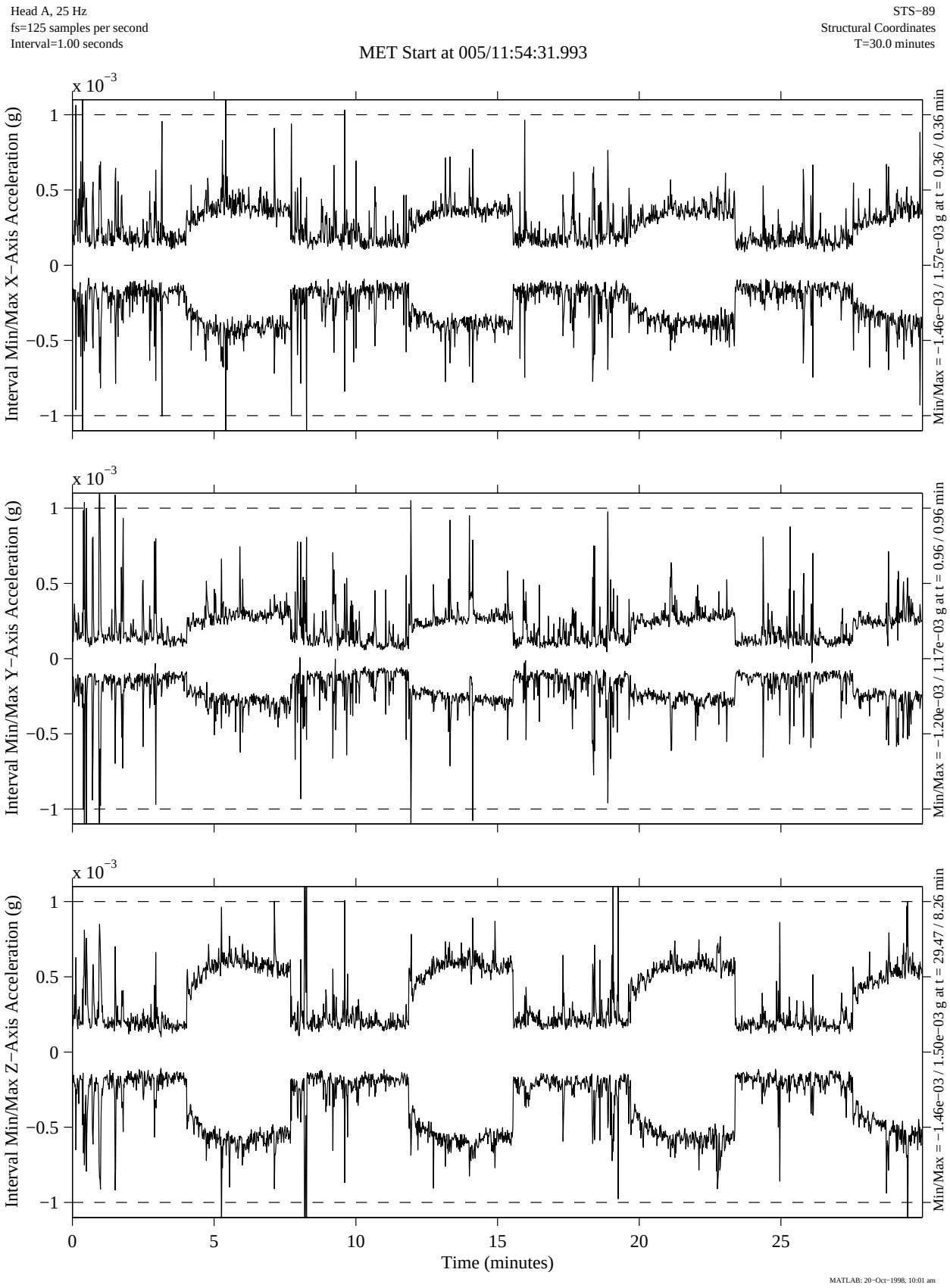

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/15:37:00.995
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.95e−03 / 2.23e−03 g at t = 29.78 / 15.29 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.56e−03 / 1.64e−03 g at t = 3.83 / 0.89 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −5.82e−03 / 4.17e−03 g at t = 3.83 / 3.83 min
Time (minutes)
MATLAB: 20−Oct−1998, 09:46 am

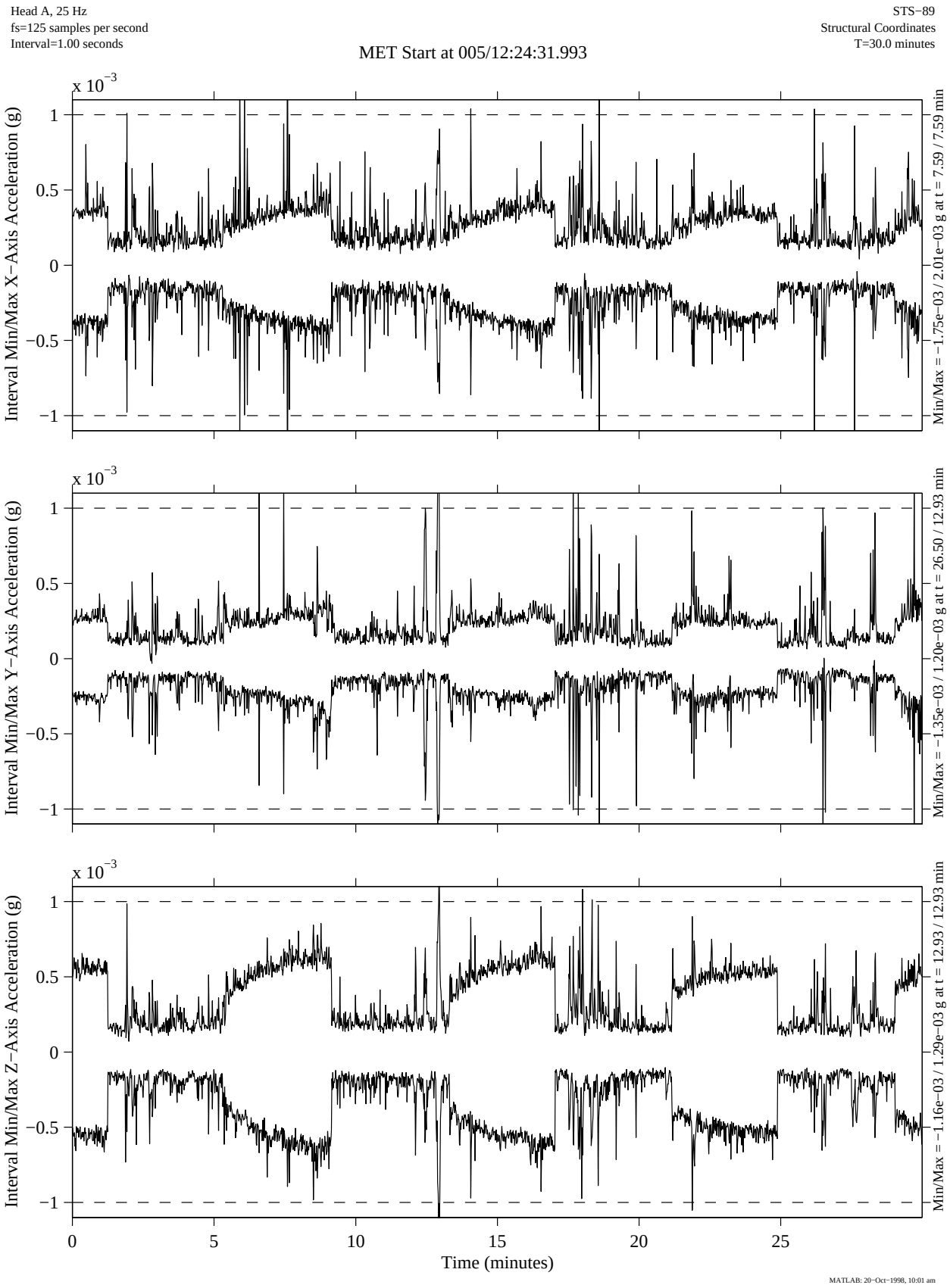

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 003/16:07:00.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.16e−03 / 3.02e−03 g at t = 5.33 / 5.09 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −5.19e−03 / 4.73e−03 g at t = 5.09 / 5.08 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.56e−03 / 2.31e−03 g at t = 5.33 / 5.33 min
Time (minutes)
MATLAB: 20−Oct−1998, 09:46 am

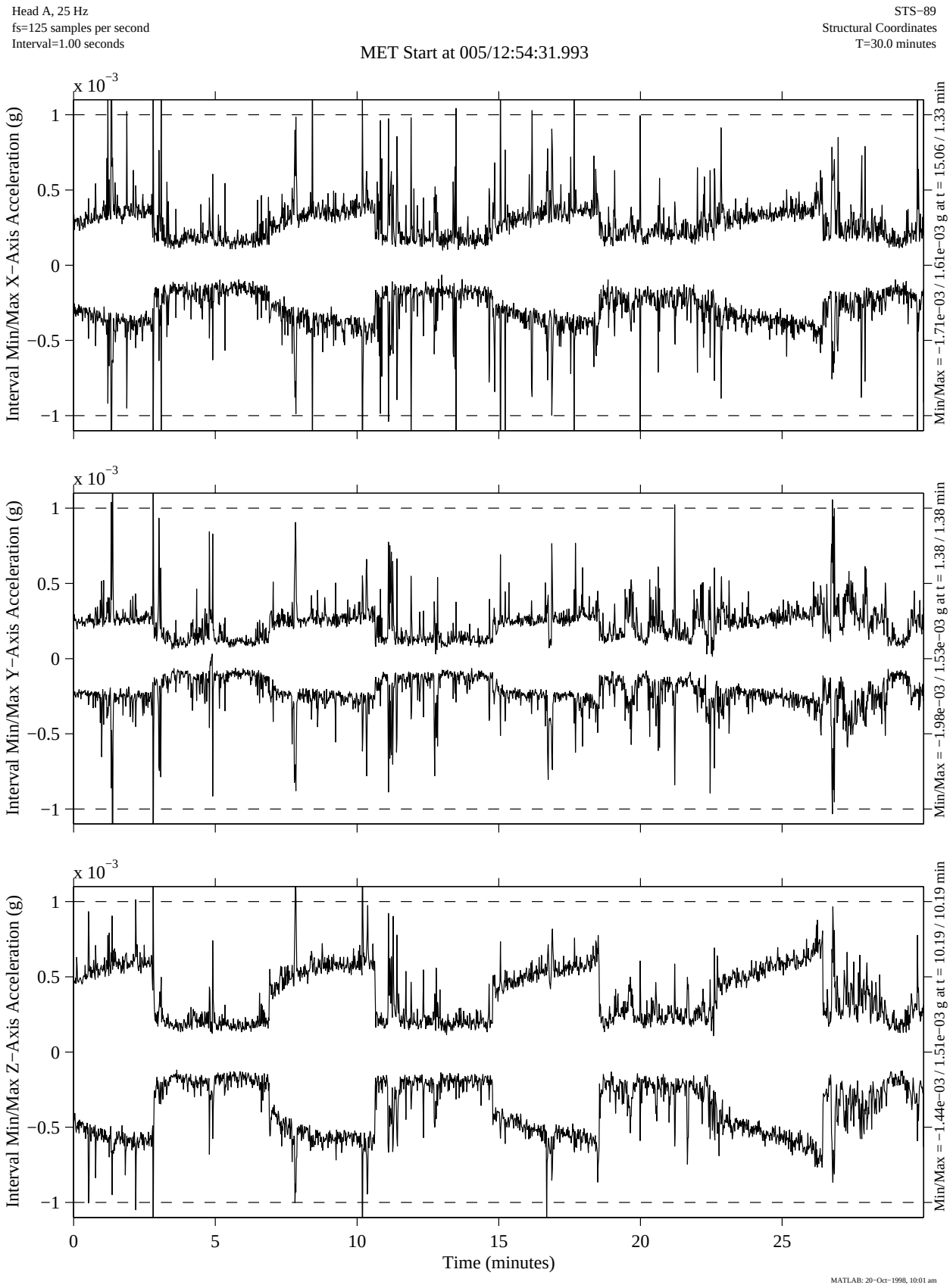

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=1.8 minutes
MET Start at 003/16:37:00.996
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −5.45e−04 / 6.40e−04 g at t = 1.00 / 1.80 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −5.92e−04 / 6.18e−04 g at t = 1.65 / 1.65 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −6.69e−04 / 7.52e−04 g at t = 0.88 / 1.69 min
Time (minutes)
MATLAB: 20−Oct−1998, 09:46 am

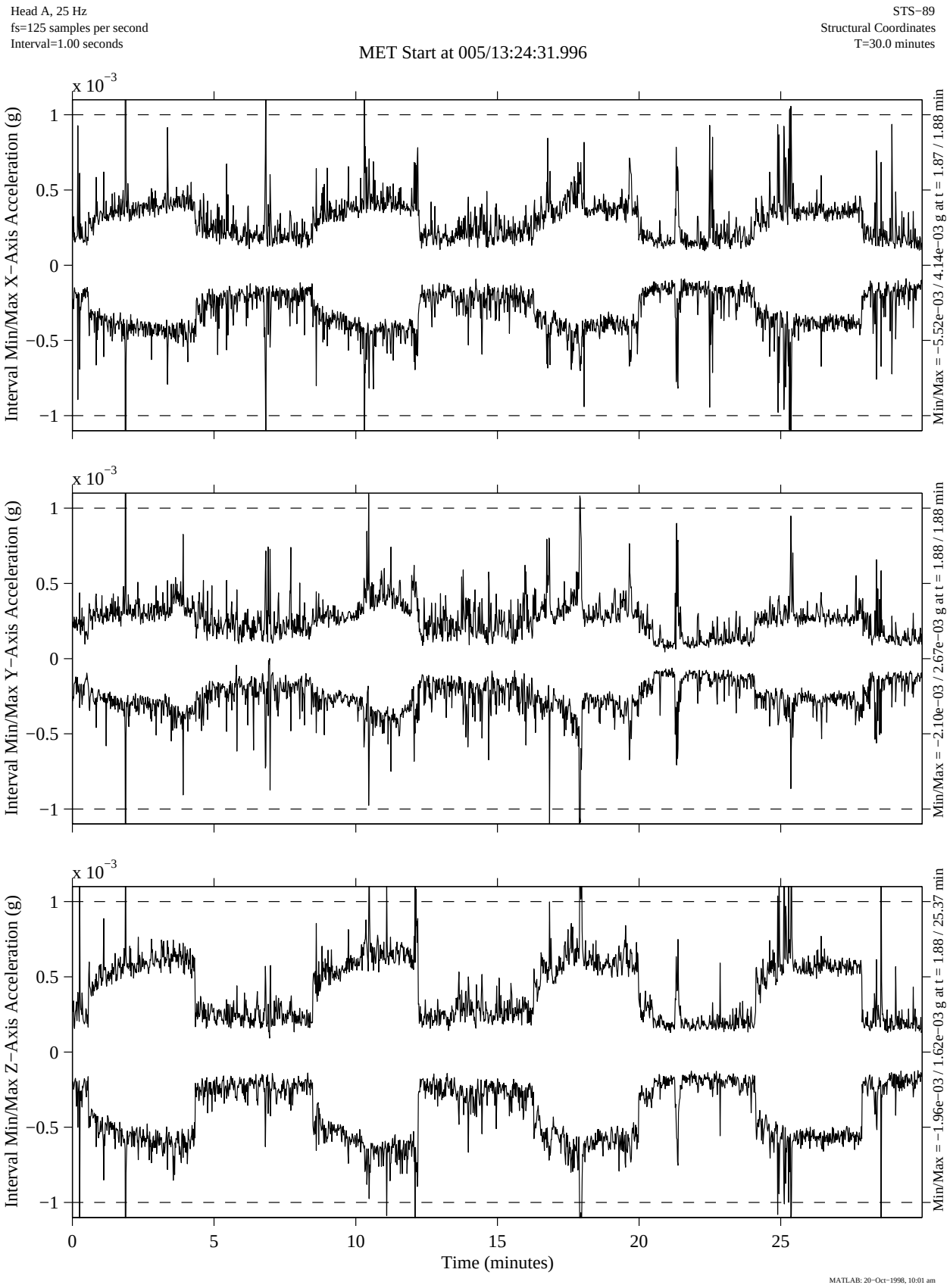

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/10:54:32.000
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −8.05e−03 / 2.70e−03 g at t = 27.76 / 27.76 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −6.55e−03 / 3.12e−03 g at t = 27.76 / 27.76 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −3.98e−03 / 1.85e−03 g at t = 27.76 / 27.76 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:00 am

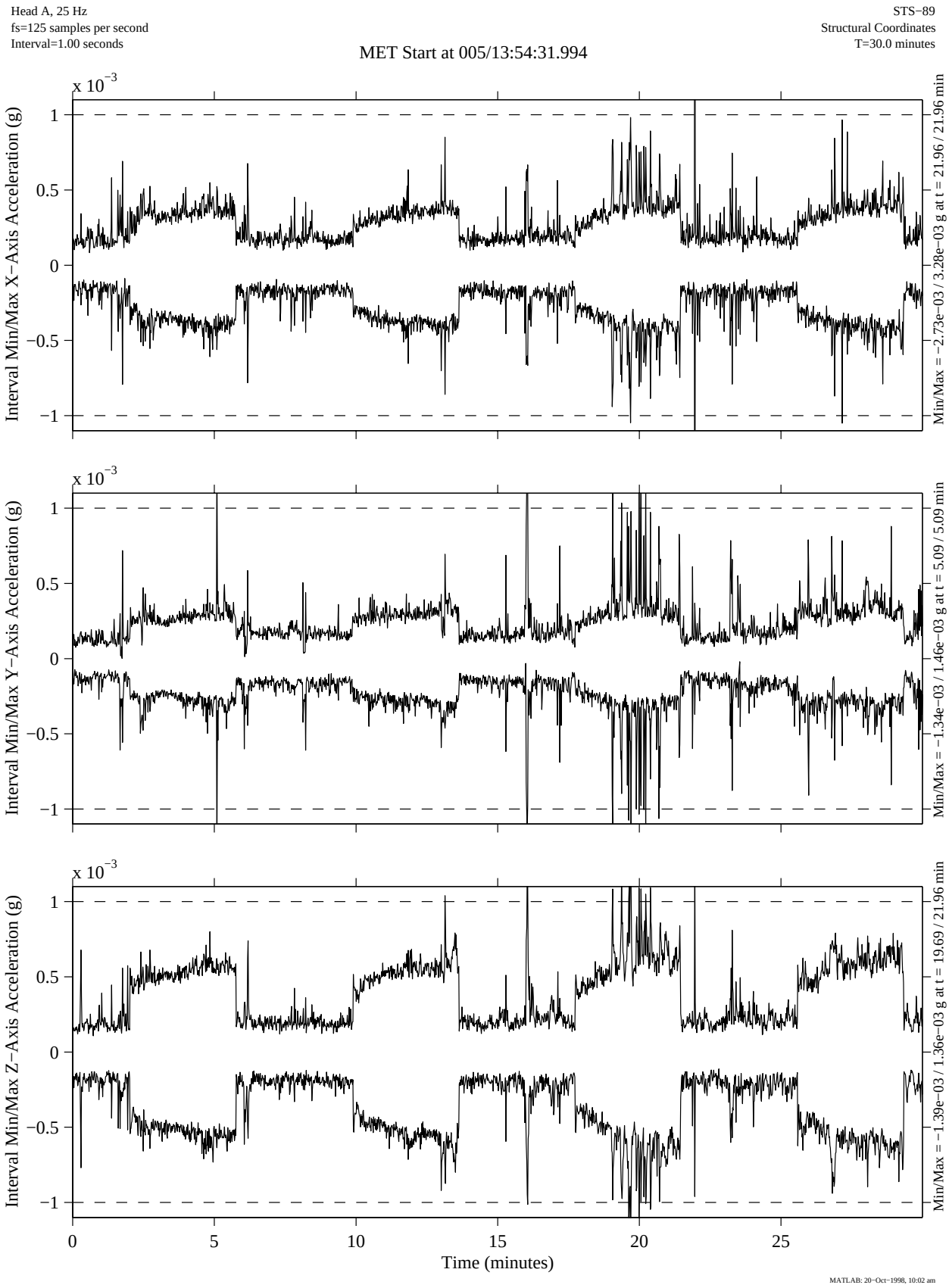

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/11:24:31.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.52e−03 / 2.99e−03 g at t = 4.03 / 4.03 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.44e−03 / 1.95e−03 g at t = 4.03 / 28.13 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.68e−03 / 2.51e−03 g at t = 0.00 / 23.62 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:00 am

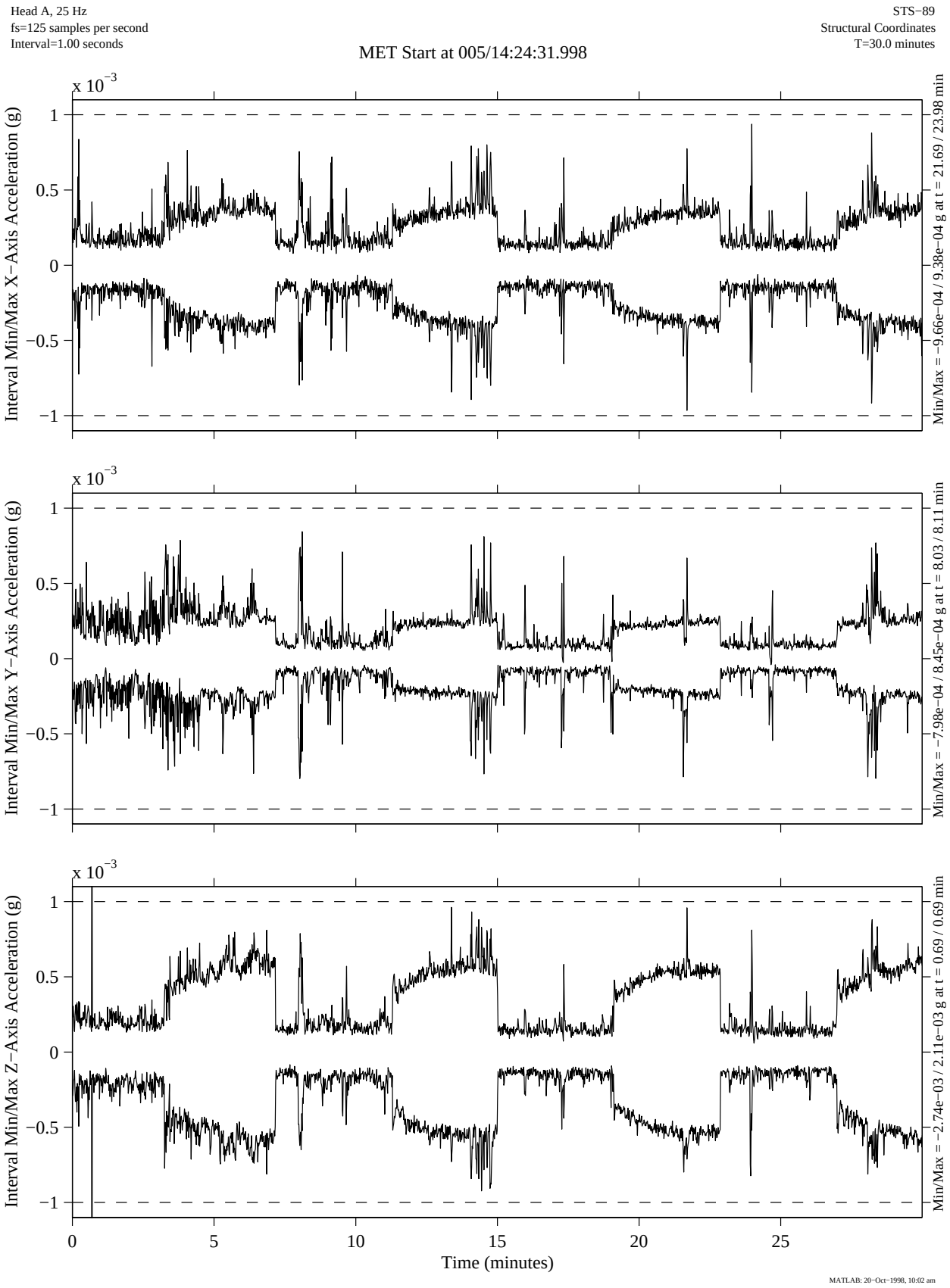

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/11:54:31.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.46e−03 / 1.57e−03 g at t = 0.36 / 0.36 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.20e−03 / 1.17e−03 g at t = 0.96 / 0.96 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.46e−03 / 1.50e−03 g at t = 29.47 / 8.26 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:01 am

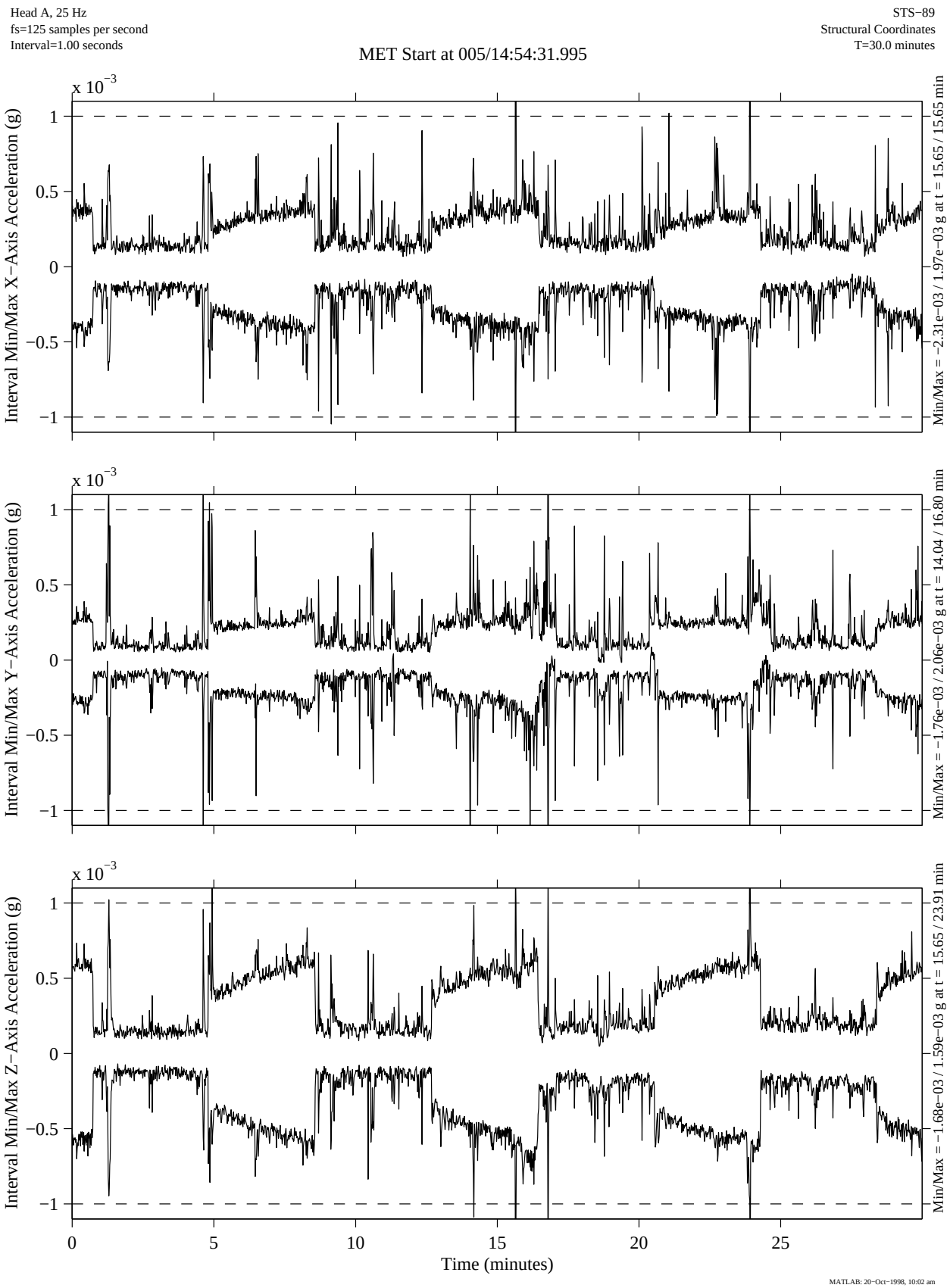

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/12:24:31.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.75e−03 / 2.01e−03 g at t = 7.59 / 7.59 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.35e−03 / 1.20e−03 g at t = 26.50 / 12.93 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.16e−03 / 1.29e−03 g at t = 12.93 / 12.93 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:01 am

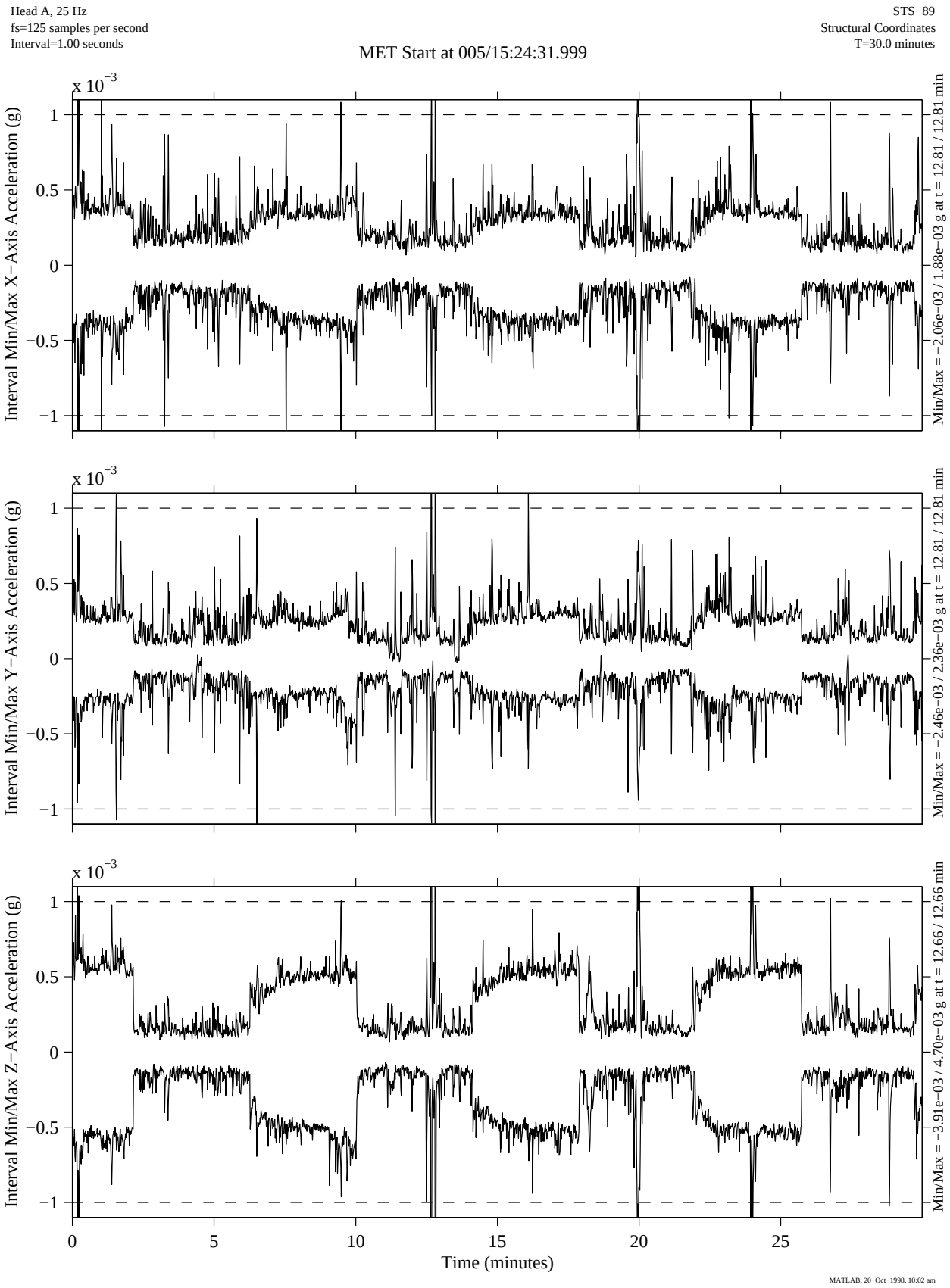

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/12:54:31.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.71e−03 / 1.61e−03 g at t = 15.06 / 1.33 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.98e−03 / 1.53e−03 g at t = 1.38 / 1.38 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.44e−03 / 1.51e−03 g at t = 10.19 / 10.19 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:01 am

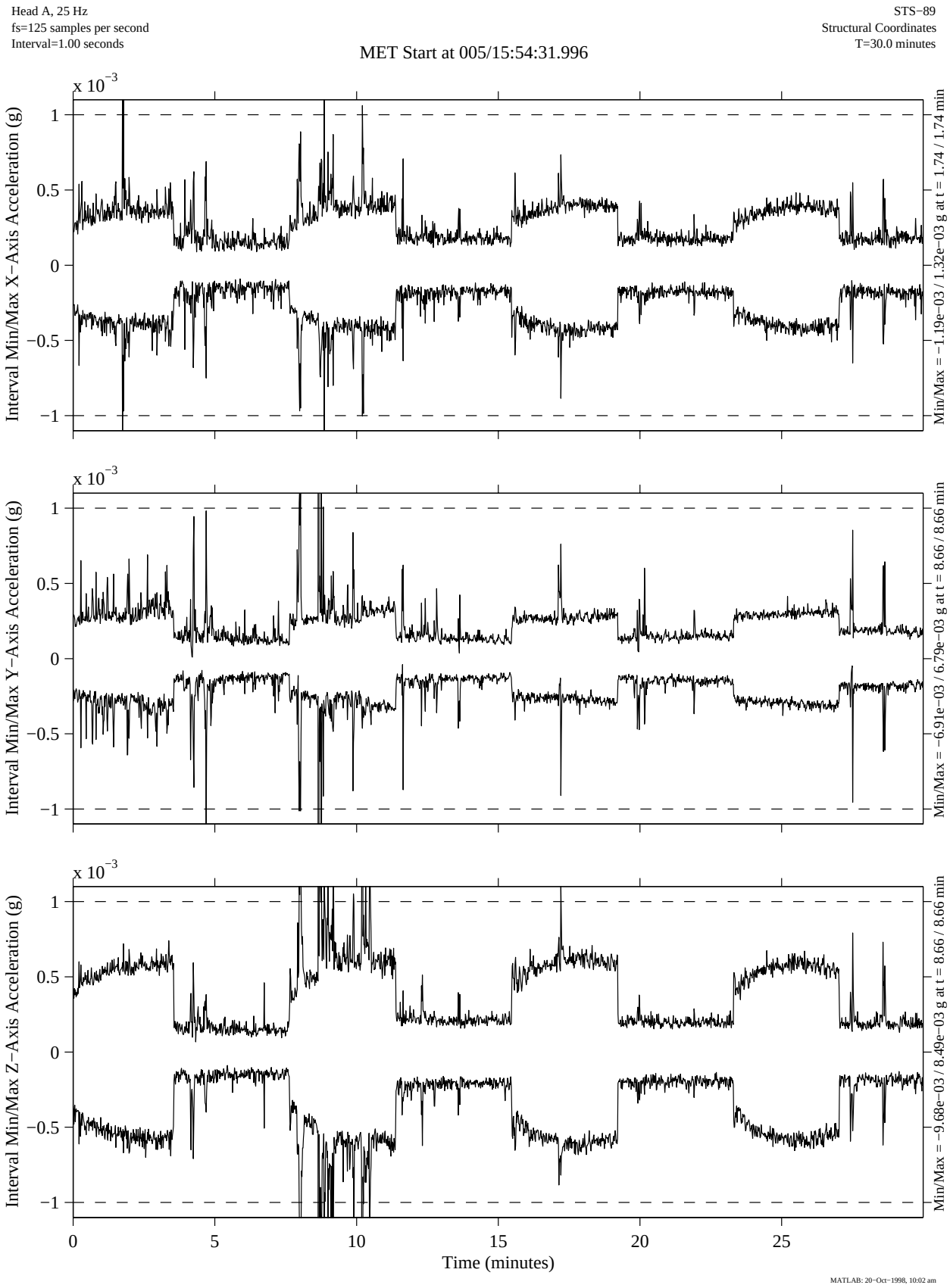

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/13:24:31.996
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −5.52e−03 / 4.14e−03 g at t = 1.87 / 1.88 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.10e−03 / 2.67e−03 g at t = 1.88 / 1.88 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.96e−03 / 1.62e−03 g at t = 1.88 / 25.37 min
Time (minutes)
MATLAB: 20−Oct−1998, 10:01 am

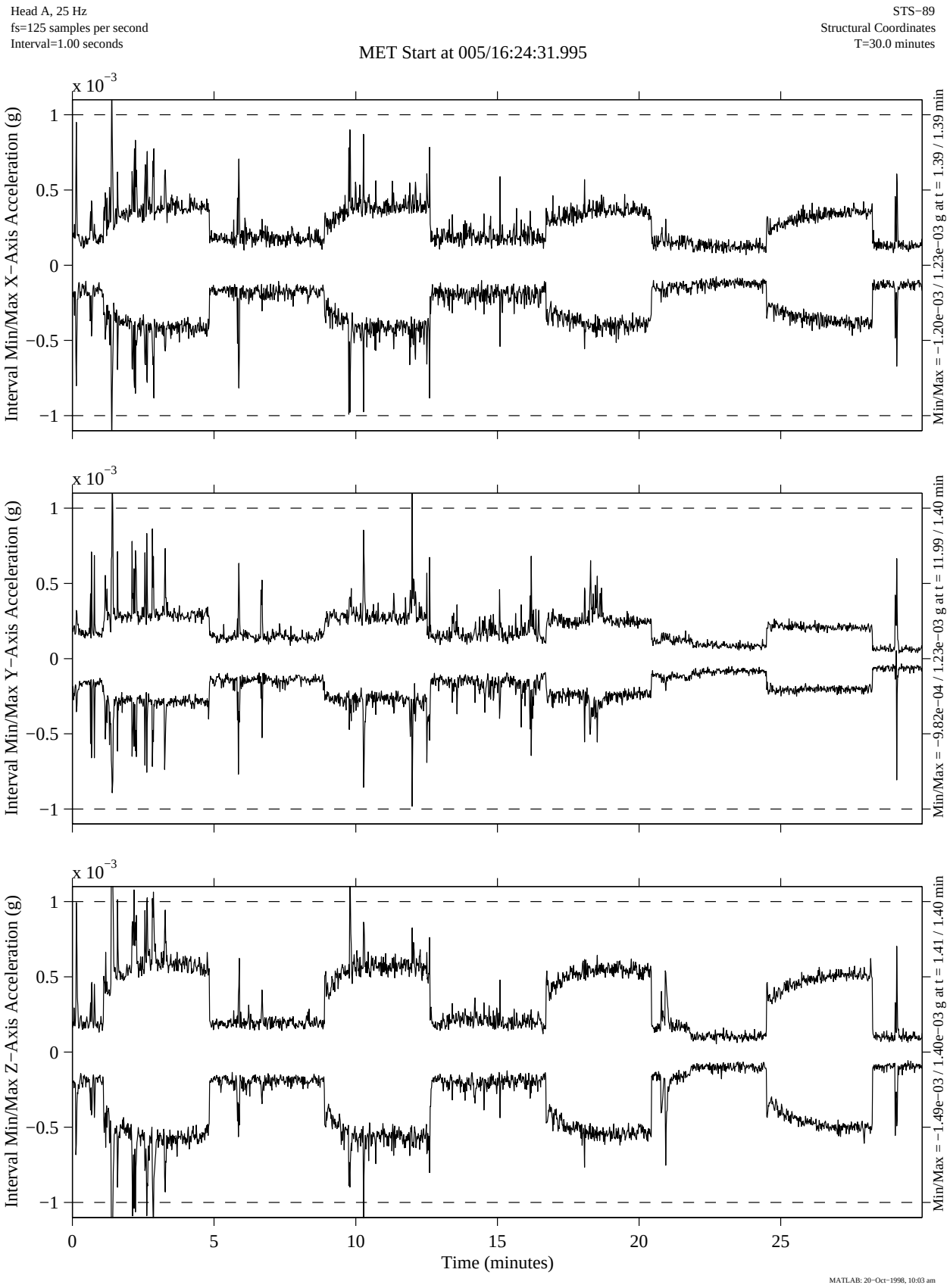

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/13:54:31.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.73e−03 / 3.28e−03 g at t = 21.96 / 21.96 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.34e−03 / 1.46e−03 g at t = 5.09 / 5.09 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.39e−03 / 1.36e−03 g at t = 19.69 / 21.96 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:02 am

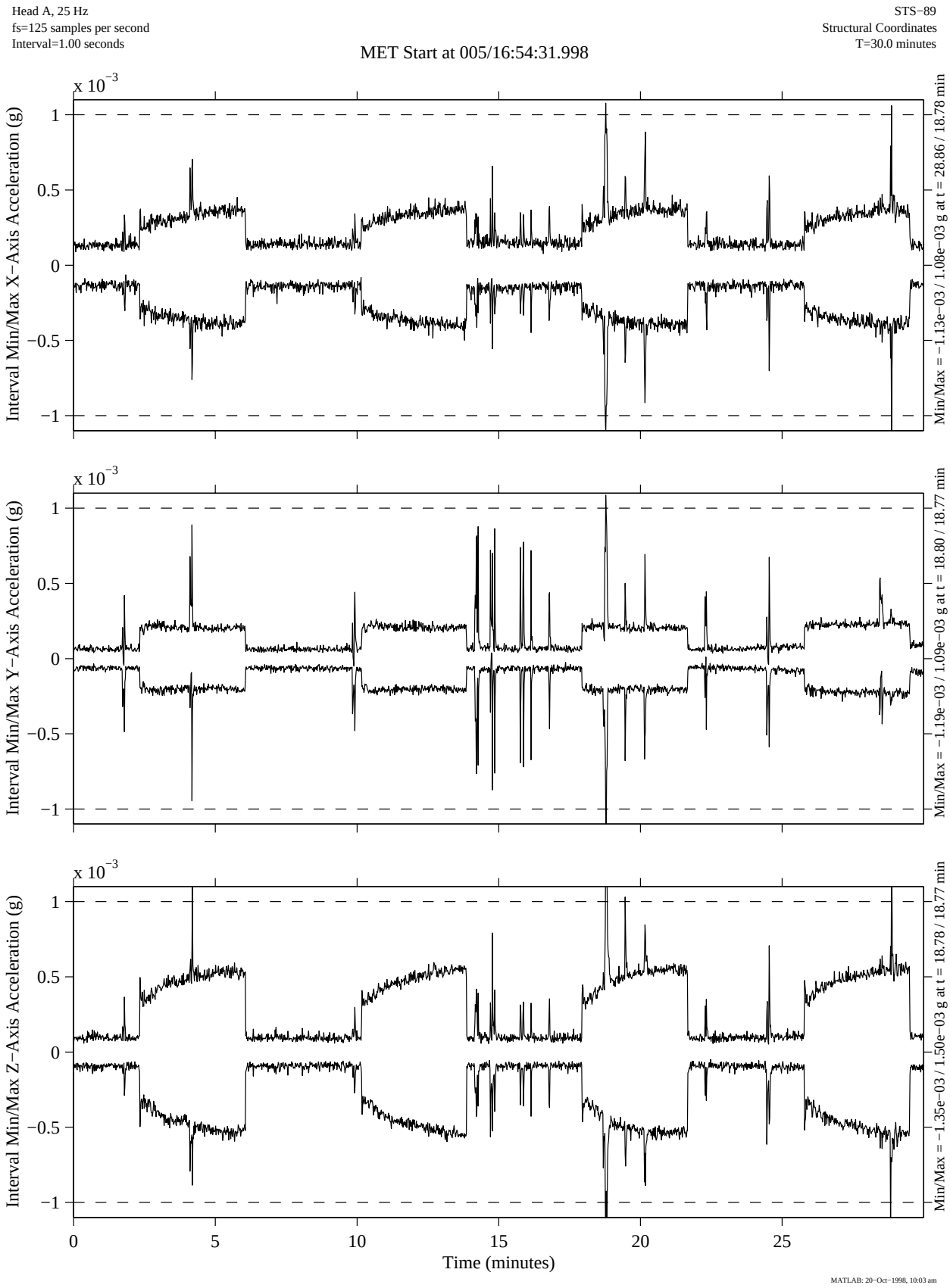

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/14:24:31.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −9.66e−04 / 9.38e−04 g at t = 21.69 / 23.98 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −7.98e−04 / 8.45e−04 g at t = 8.03 / 8.11 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.74e−03 / 2.11e−03 g at t = 0.69 / 0.69 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:02 am

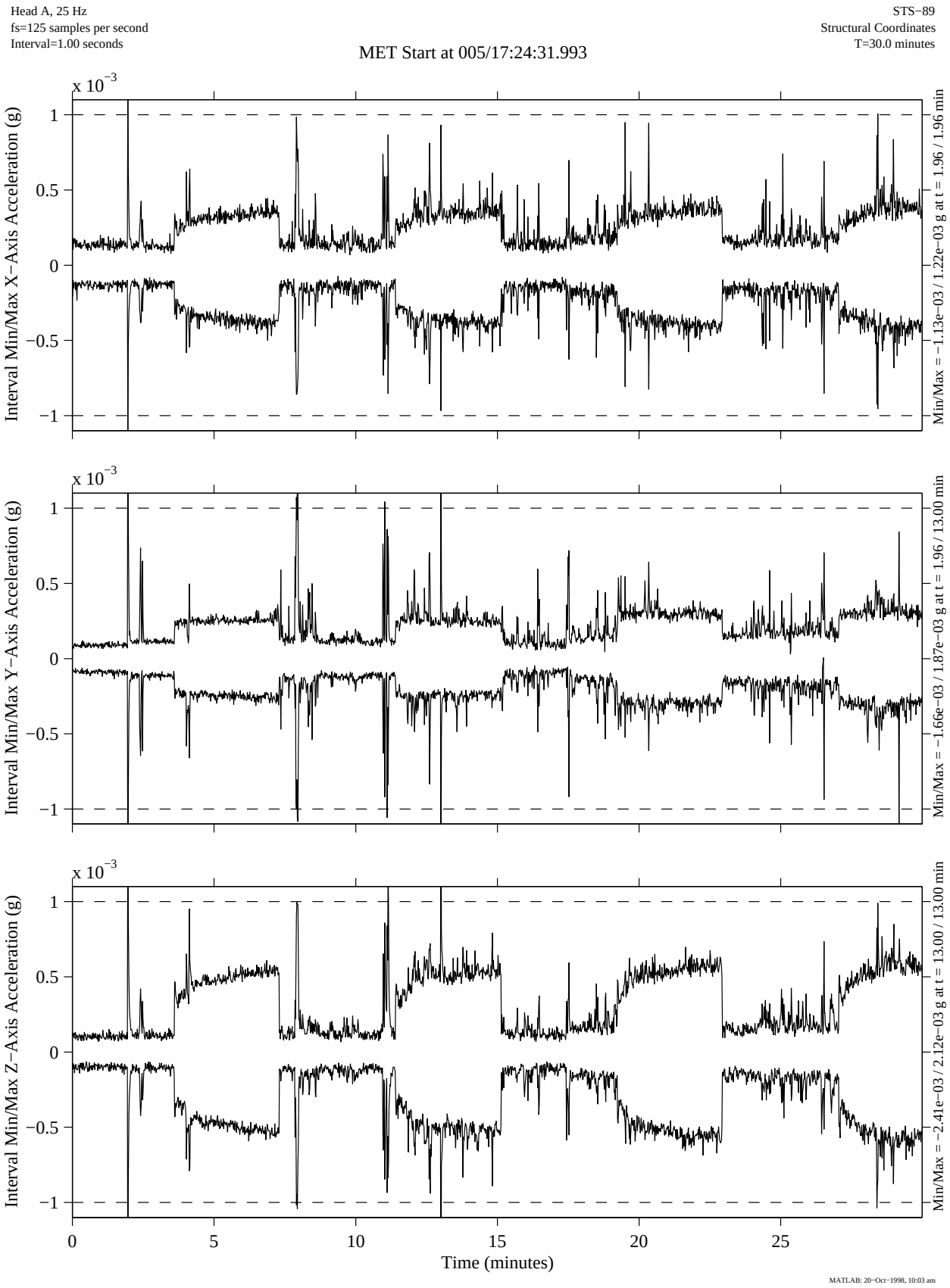

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/14:54:31.995
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.31e−03 / 1.97e−03 g at t = 15.65 / 15.65 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.76e−03 / 2.06e−03 g at t = 14.04 / 16.80 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.68e−03 / 1.59e−03 g at t = 15.65 / 23.91 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:02 am

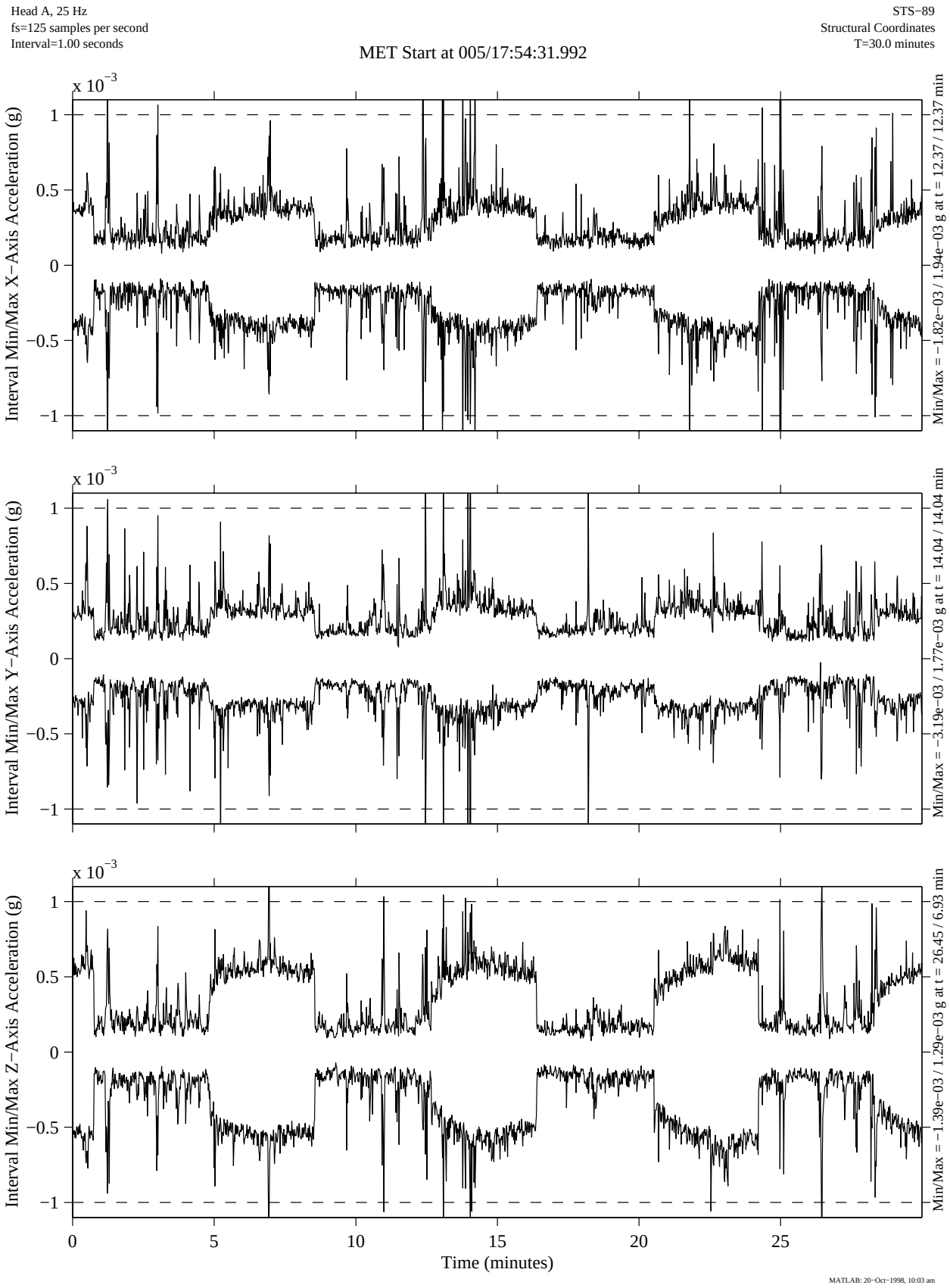

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/15:24:31.999
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.06e−03 / 1.88e−03 g at t = 12.81 / 12.81 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.46e−03 / 2.36e−03 g at t = 12.81 / 12.81 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −3.91e−03 / 4.70e−03 g at t = 12.66 / 12.66 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:02 am

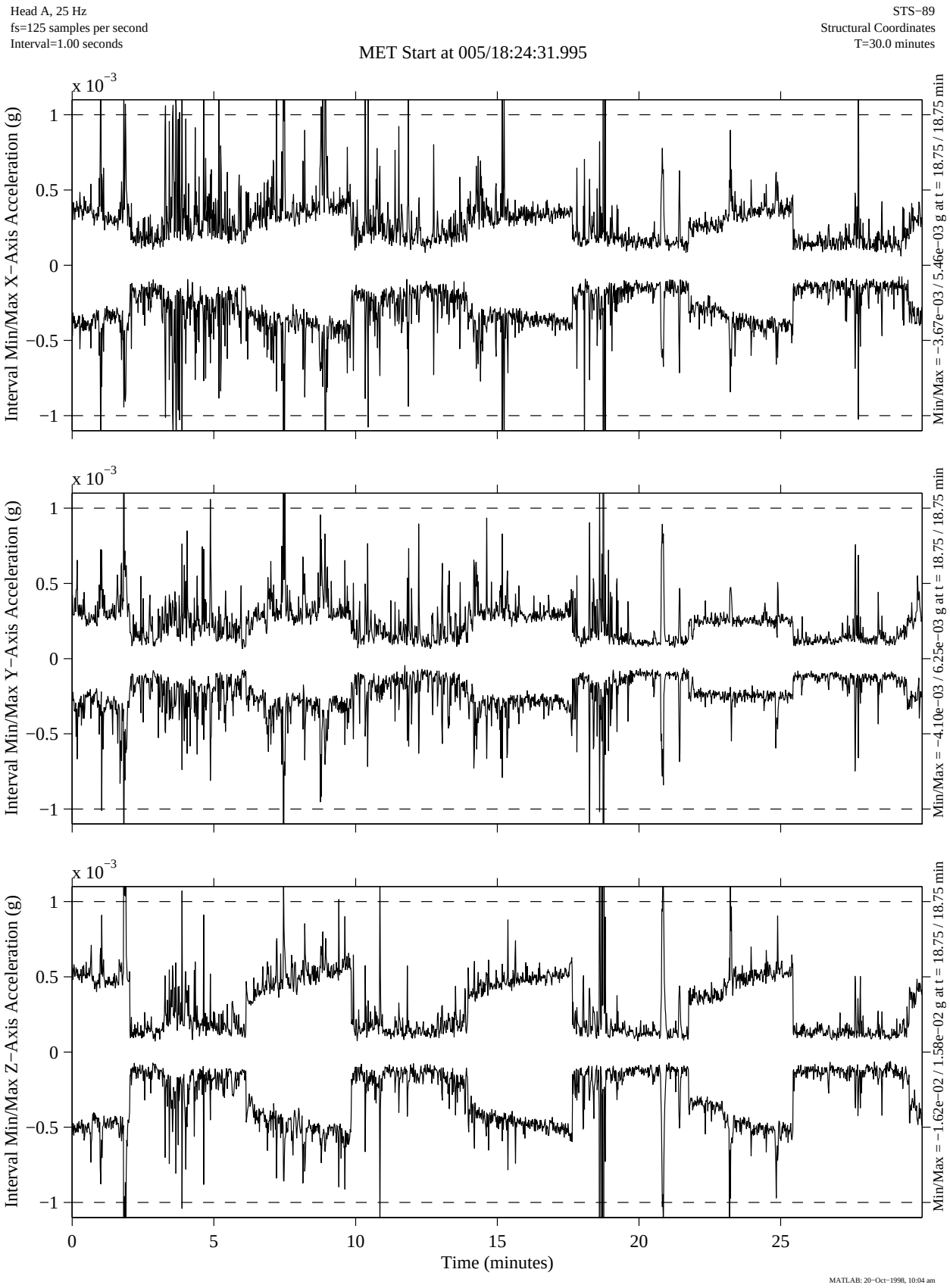

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/15:54:31.996
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.19e−03 / 1.32e−03 g at t = 1.74 / 1.74 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −6.91e−03 / 6.79e−03 g at t = 8.66 / 8.66 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −9.68e−03 / 8.49e−03 g at t = 8.66 / 8.66 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:02 am

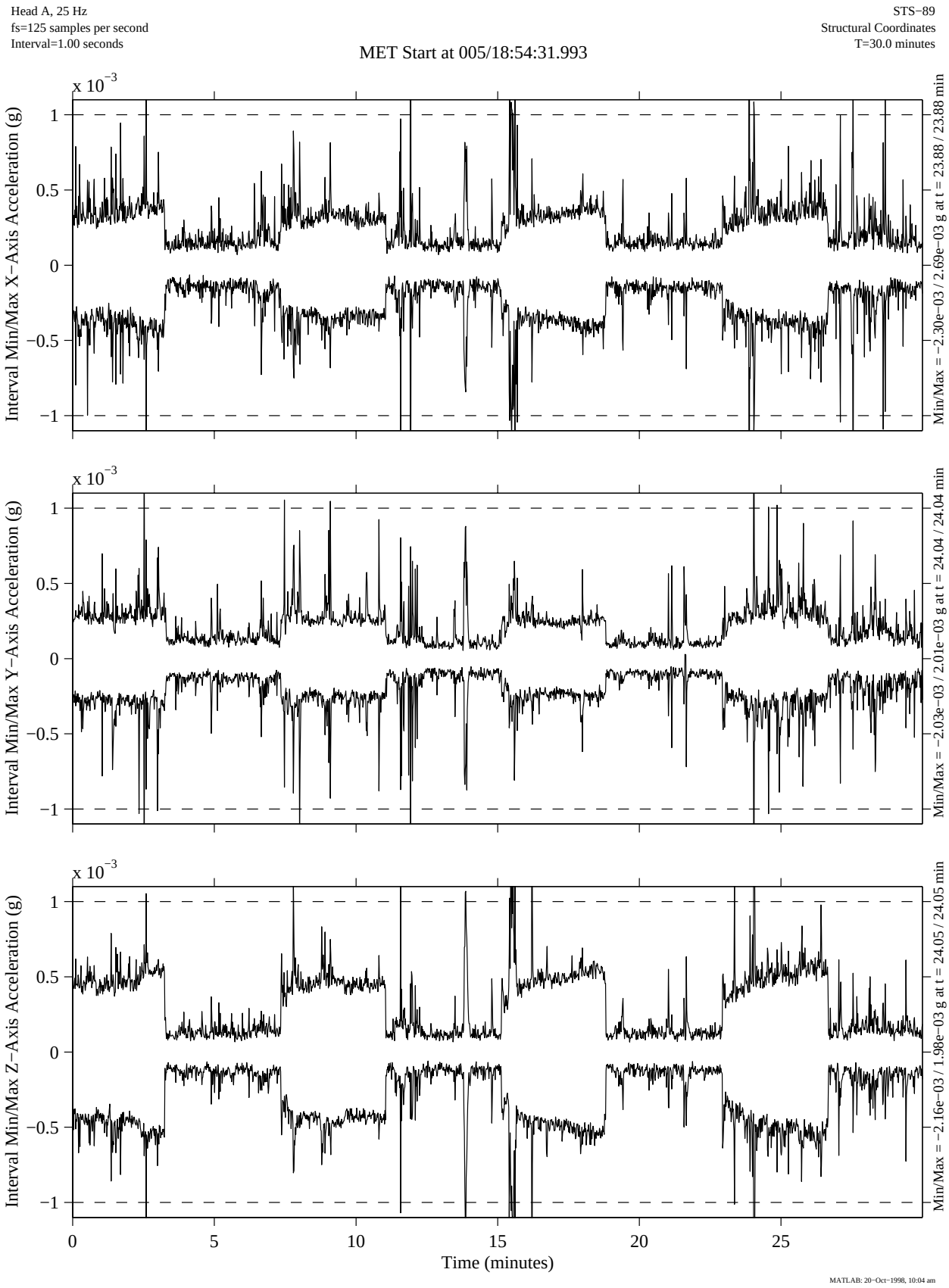

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/16:24:31.995
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.20e−03 / 1.23e−03 g at t = 1.39 / 1.39 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.82e−04 / 1.23e−03 g at t = 11.99 / 1.40 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.49e−03 / 1.40e−03 g at t = 1.41 / 1.40 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:03 am

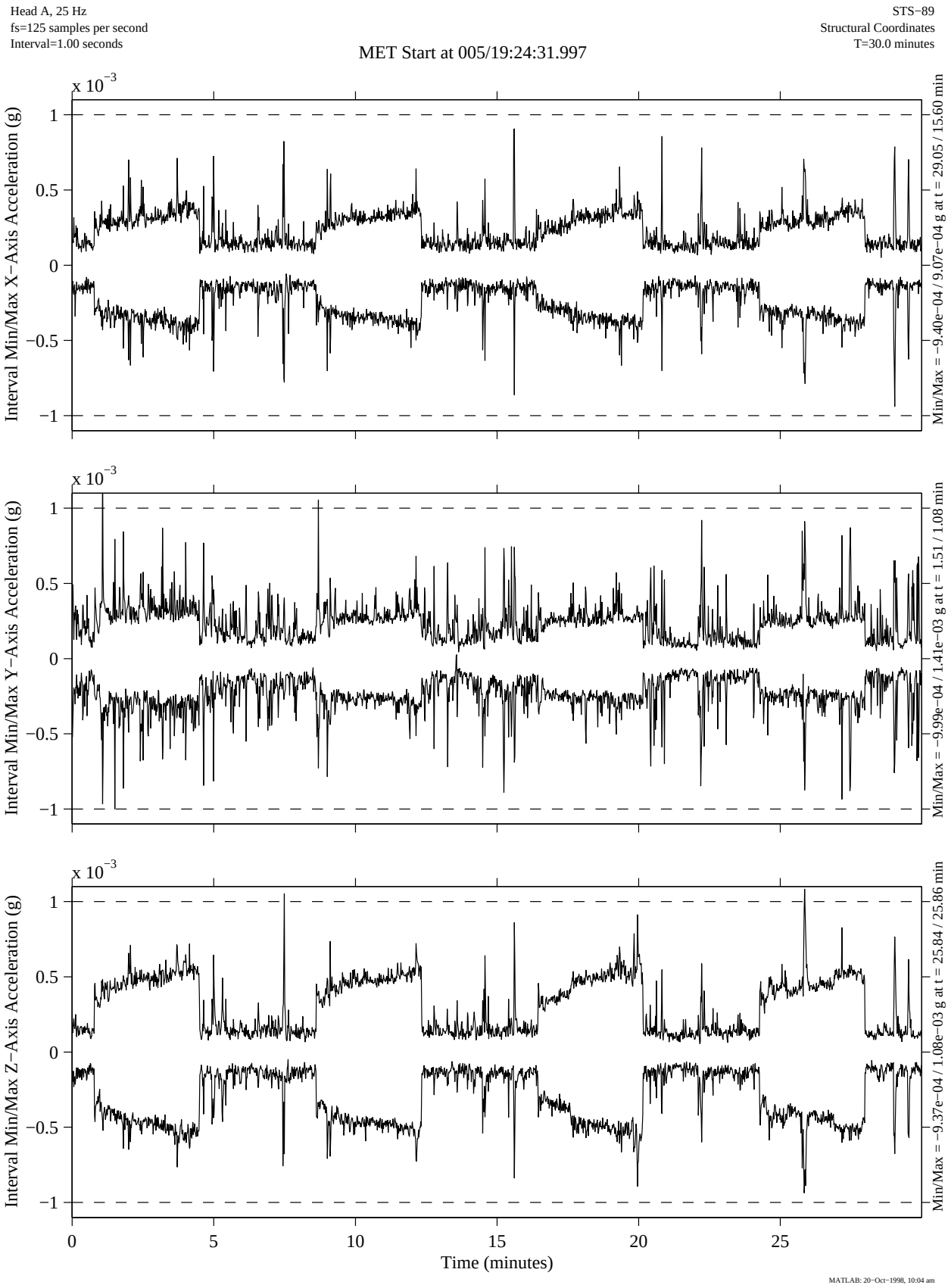

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/16:54:31.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.13e−03 / 1.08e−03 g at t = 28.86 / 18.78 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.19e−03 / 1.09e−03 g at t = 18.80 / 18.77 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.35e−03 / 1.50e−03 g at t = 18.78 / 18.77 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:03 am

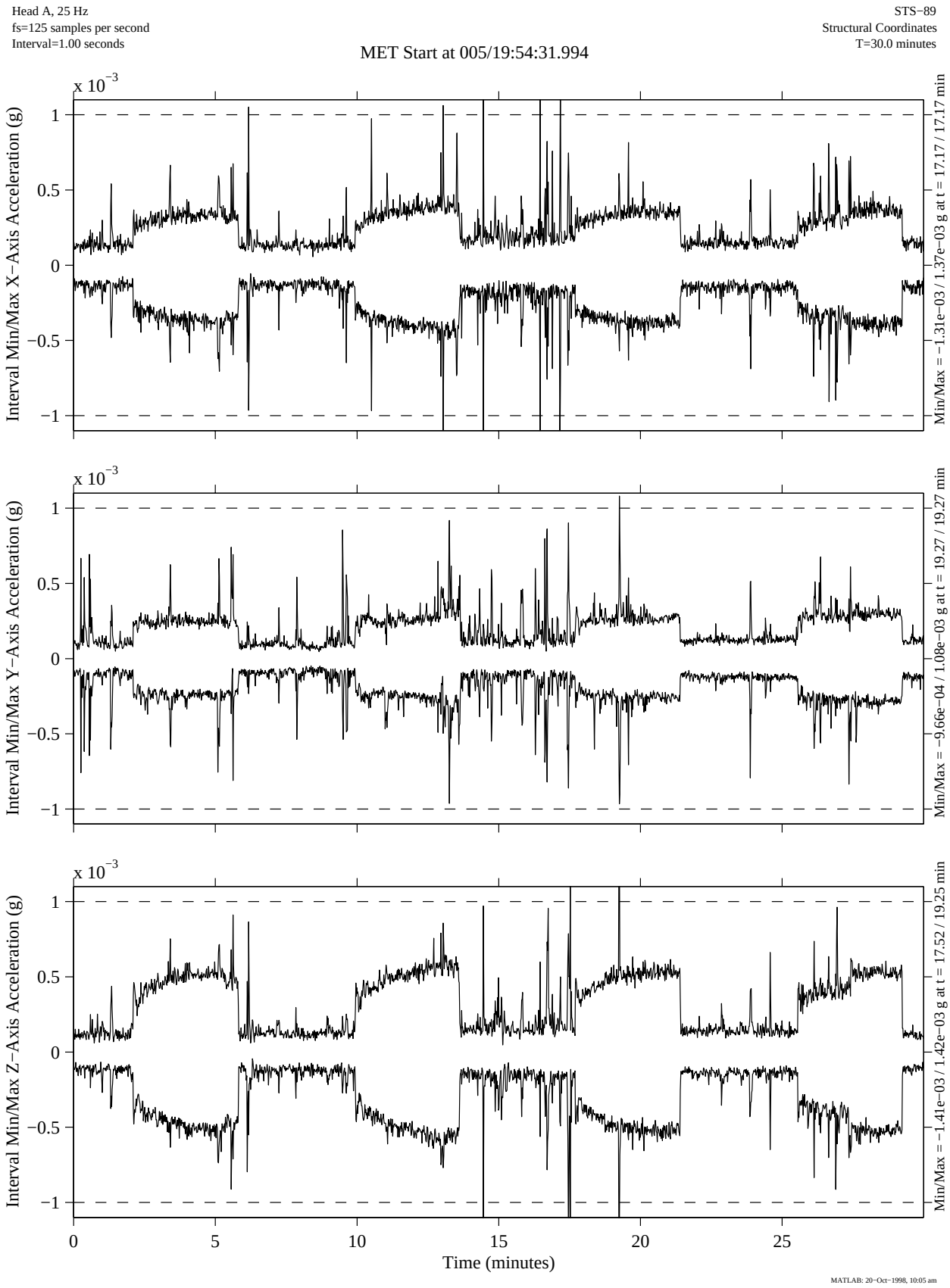

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/17:24:31.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.13e−03 / 1.22e−03 g at t = 1.96 / 1.96 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.66e−03 / 1.87e−03 g at t = 1.96 / 13.00 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.41e−03 / 2.12e−03 g at t = 13.00 / 13.00 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:03 am

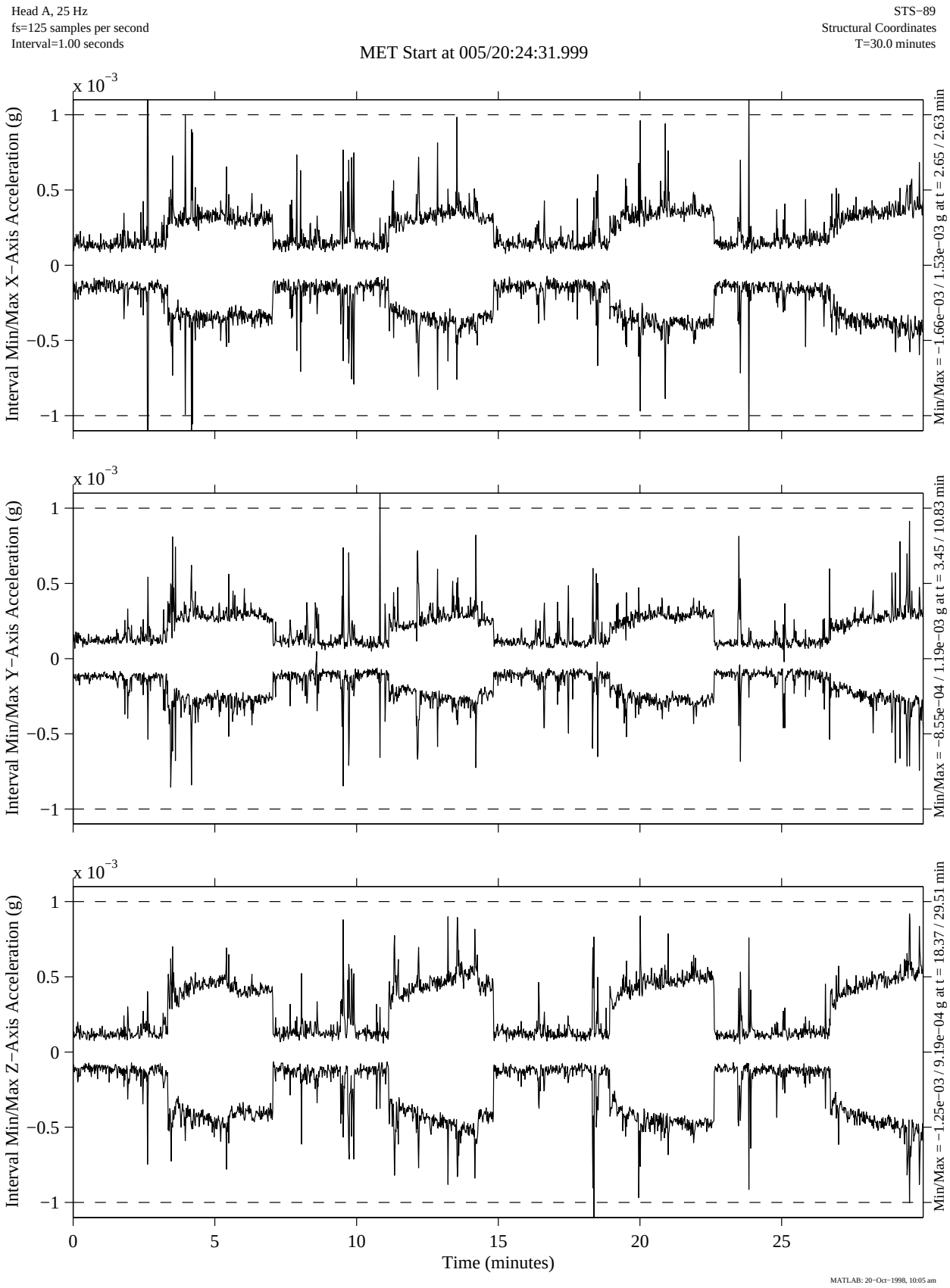

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/17:54:31.992
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.82e−03 / 1.94e−03 g at t = 12.37 / 12.37 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −3.19e−03 / 1.77e−03 g at t = 14.04 / 14.04 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.39e−03 / 1.29e−03 g at t = 26.45 / 6.93 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:03 am

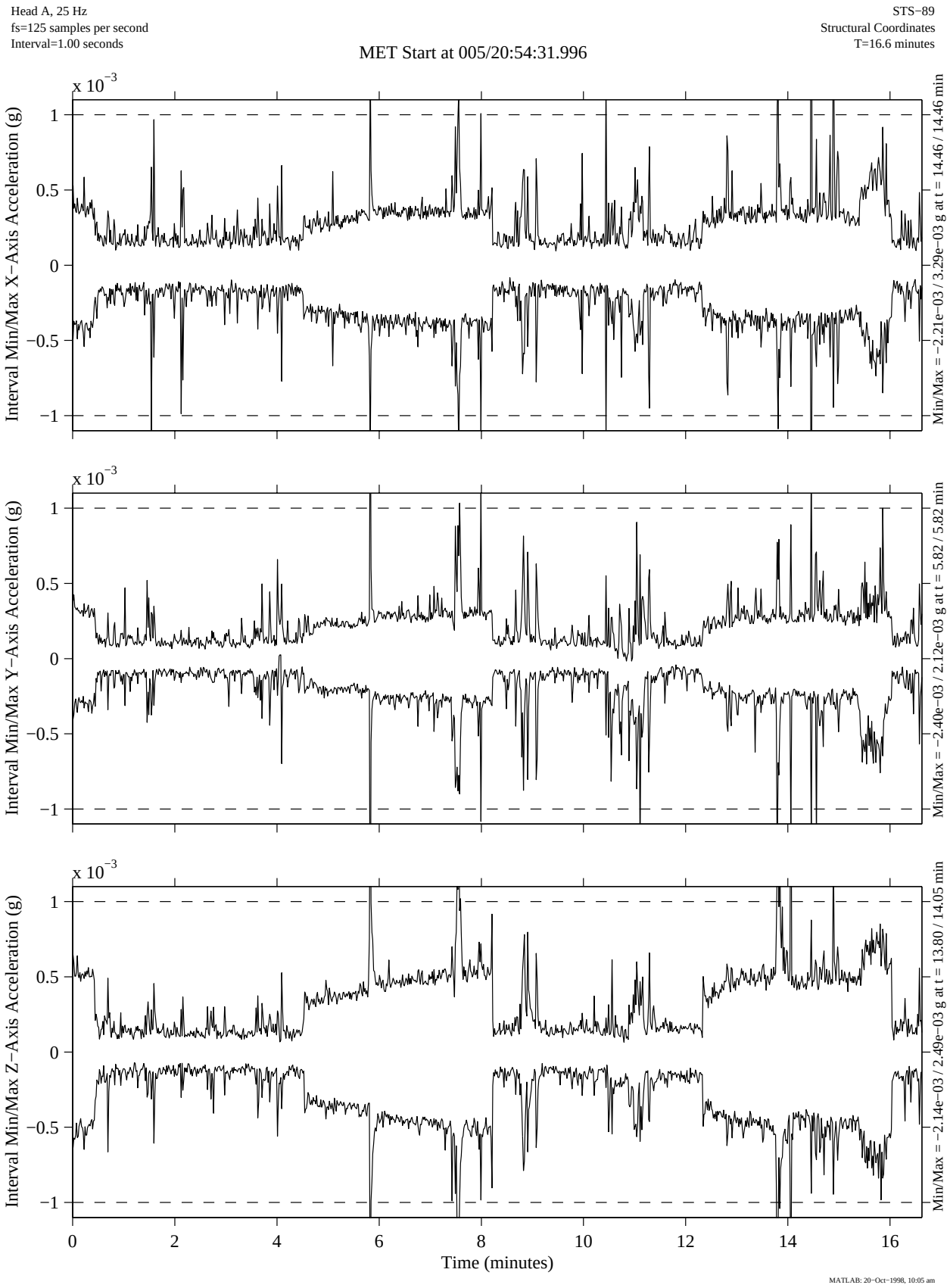

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/18:24:31.995
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −3.67e−03 / 5.46e−03 g at t = 18.75 / 18.75 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −4.10e−03 / 6.25e−03 g at t = 18.75 / 18.75 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.62e−02 / 1.58e−02 g at t = 18.75 / 18.75 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:04 am

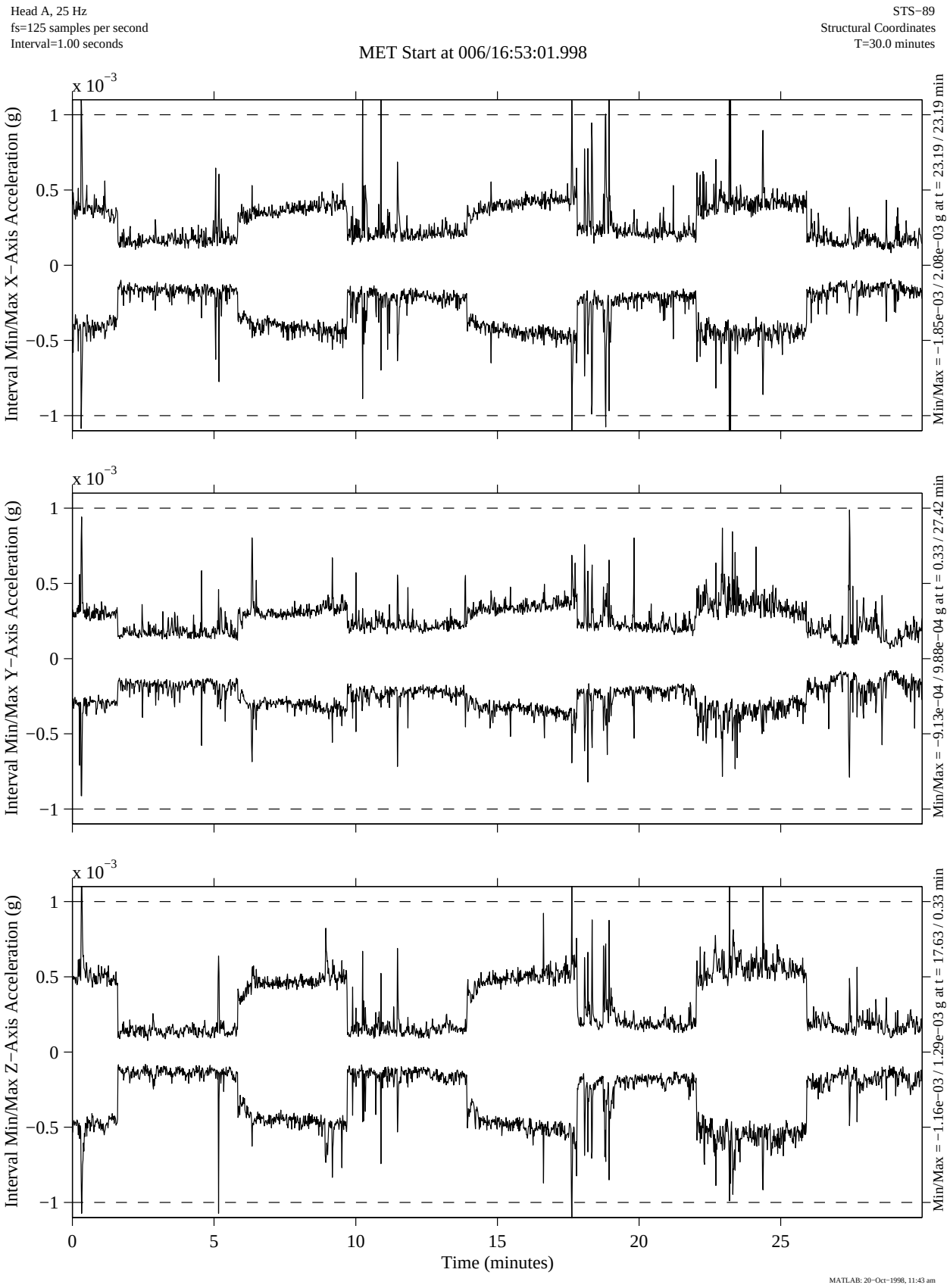

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/18:54:31.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.30e−03 / 2.69e−03 g at t = 23.88 / 23.88 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.03e−03 / 2.01e−03 g at t = 24.04 / 24.04 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.16e−03 / 1.98e−03 g at t = 24.05 / 24.05 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:04 am

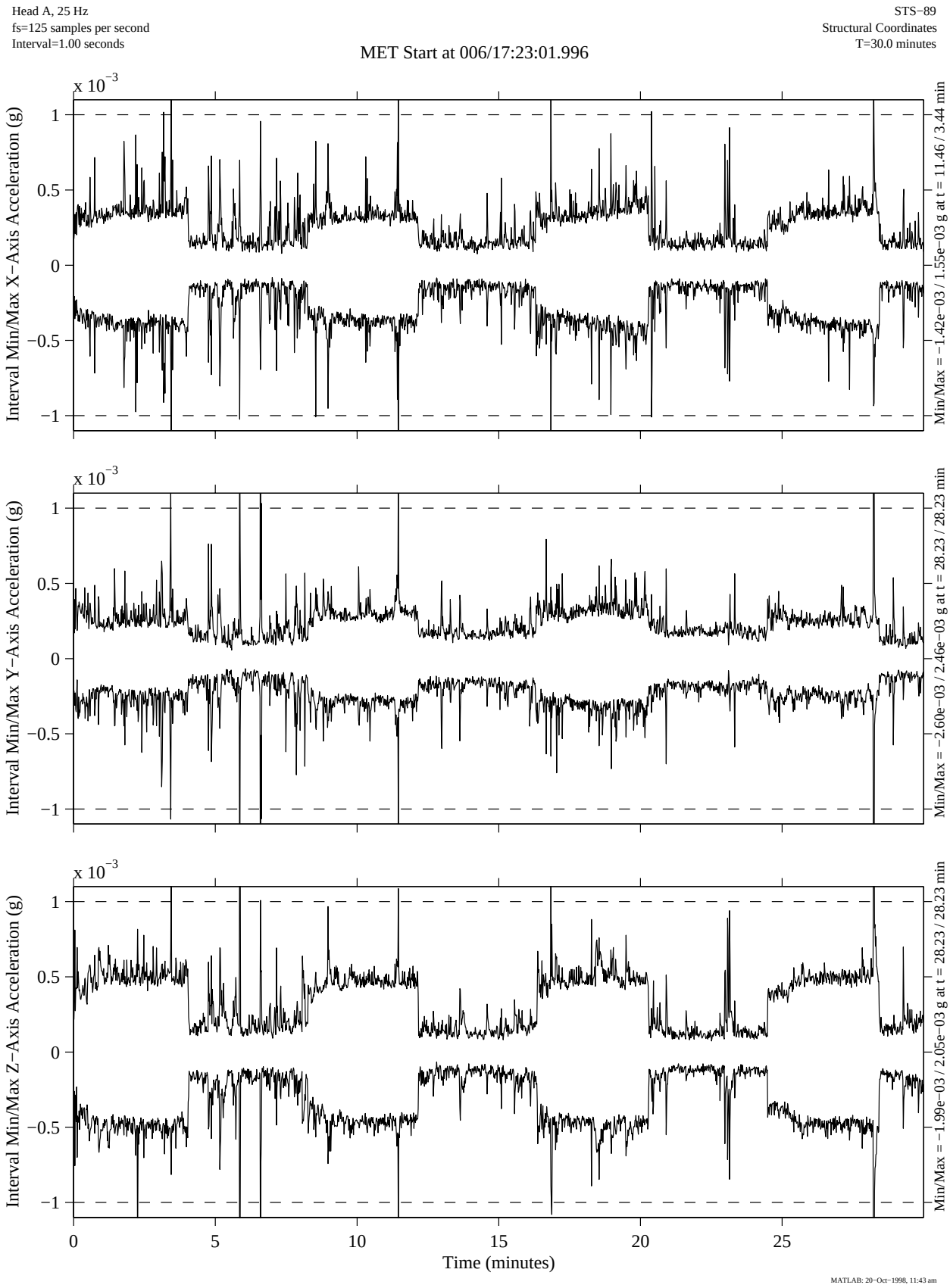

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/19:24:31.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −9.40e−04 / 9.07e−04 g at t = 29.05 / 15.60 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.99e−04 / 1.41e−03 g at t = 1.51 / 1.08 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −9.37e−04 / 1.08e−03 g at t = 25.84 / 25.86 min
Time (minutes)
MATLAB: 20−Oct−1998, 10:04 am

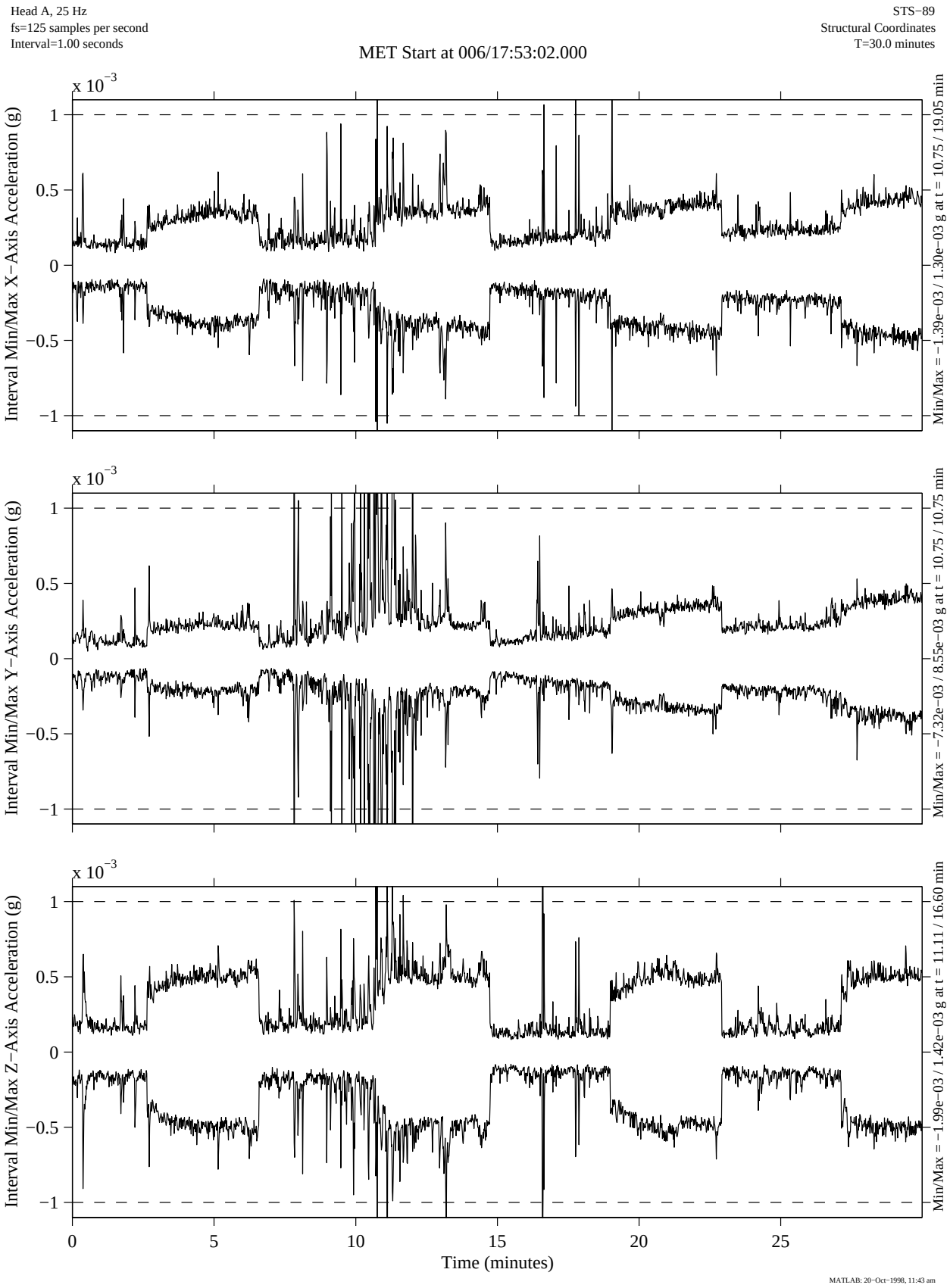

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/19:54:31.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.31e−03 / 1.37e−03 g at t = 17.17 / 17.17 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.66e−04 / 1.08e−03 g at t = 19.27 / 19.27 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.41e−03 / 1.42e−03 g at t = 17.52 / 19.25 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:05 am

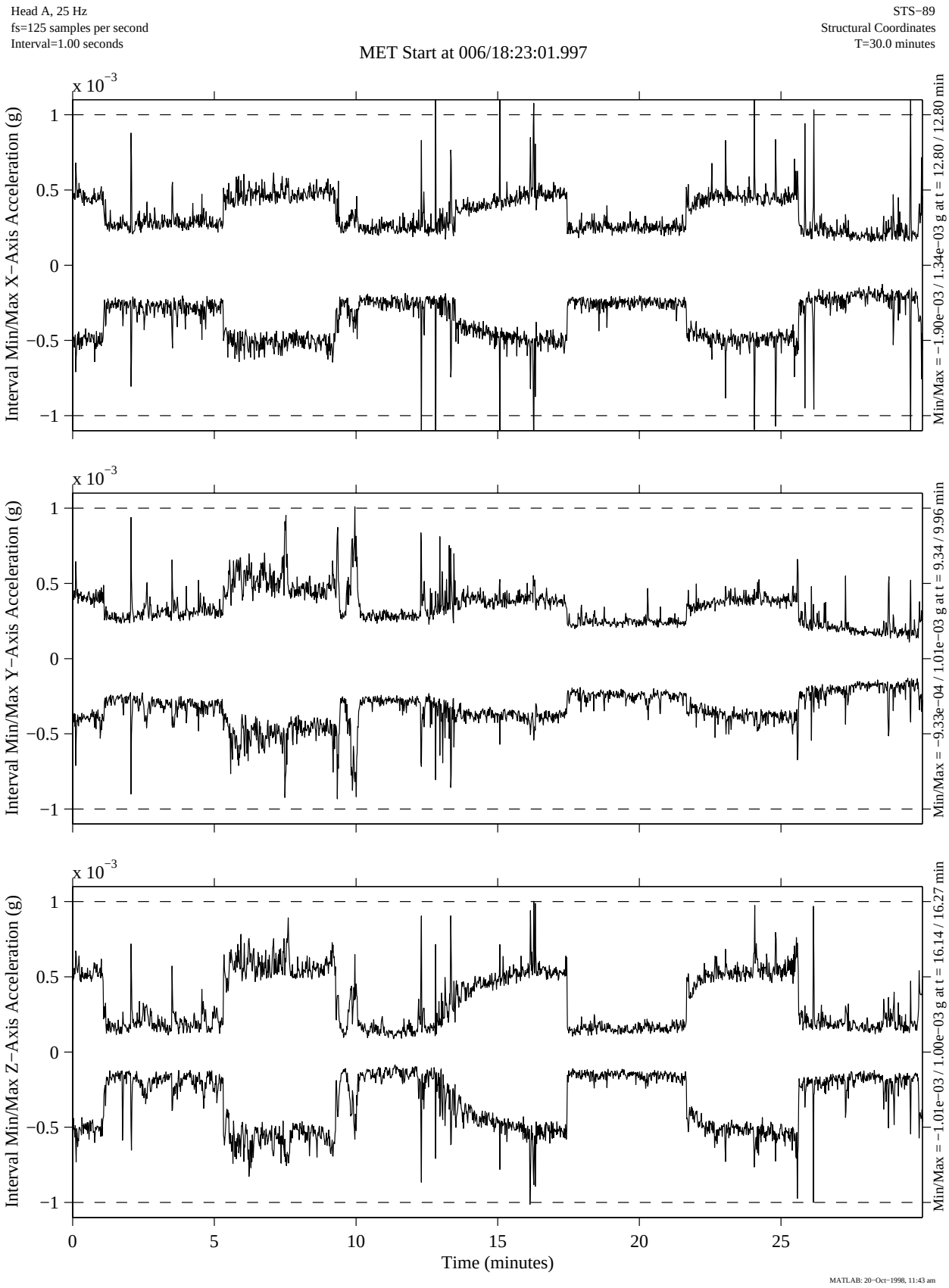

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 005/20:24:31.999
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.66e−03 / 1.53e−03 g at t = 2.65 / 2.63 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −8.55e−04 / 1.19e−03 g at t = 3.45 / 10.83 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.25e−03 / 9.19e−04 g at t = 18.37 / 29.51 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 10:05 am

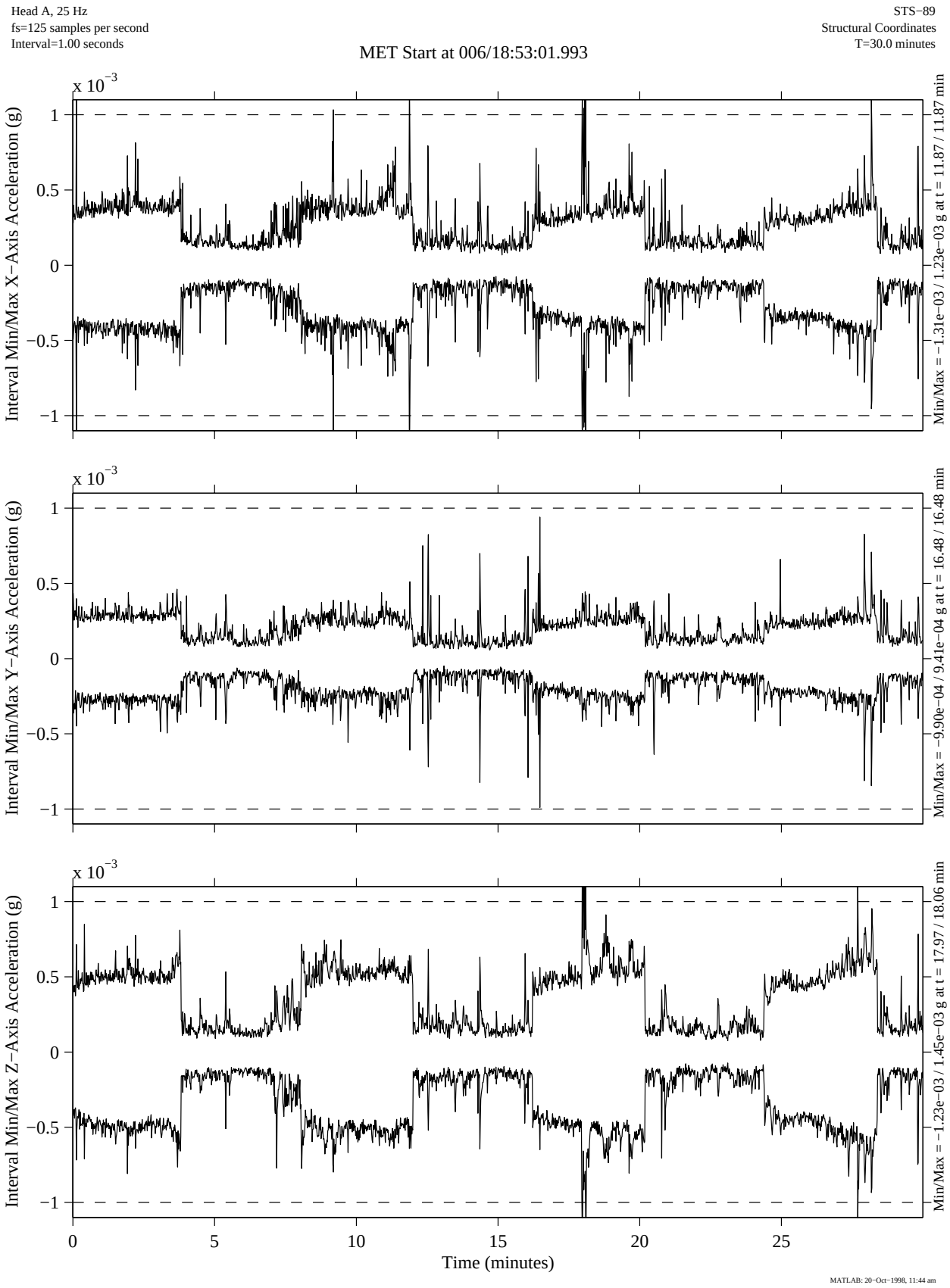

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=16.6 minutes
MET Start at 005/20:54:31.996
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.21e−03 / 3.29e−03 g at t = 14.46 / 14.46 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.40e−03 / 2.12e−03 g at t = 5.82 / 5.82 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.14e−03 / 2.49e−03 g at t = 13.80 / 14.05 min
1
0.5
0
−0.5
−1
0
2
4
6
8
10
12
14
16
Time (minutes)
MATLAB: 20−Oct−1998, 10:05 am

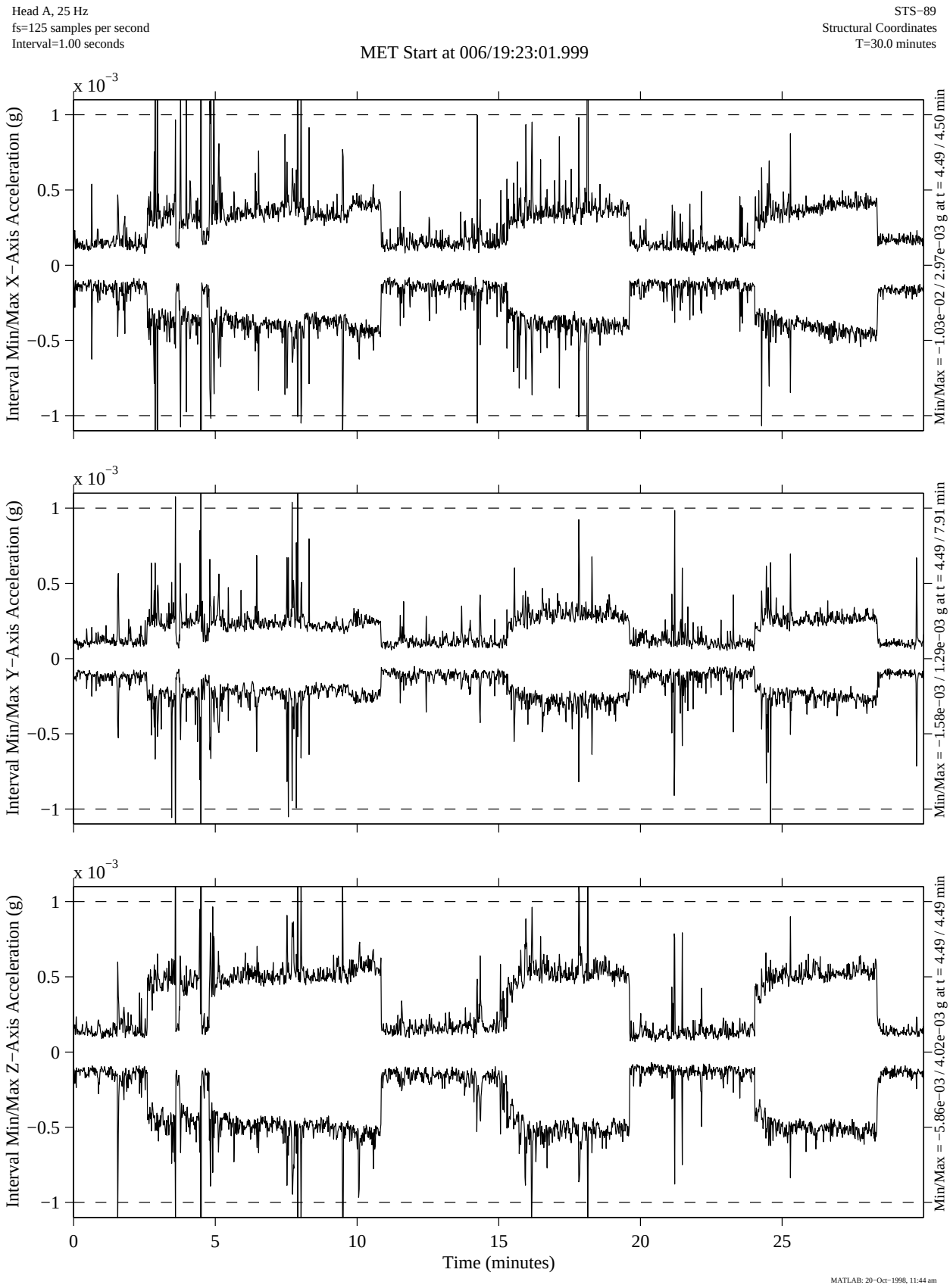

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 006/16:53:01.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.85e−03 / 2.08e−03 g at t = 23.19 / 23.19 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.13e−04 / 9.88e−04 g at t = 0.33 / 27.42 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.16e−03 / 1.29e−03 g at t = 17.63 / 0.33 min
Time (minutes)
MATLAB: 20−Oct−1998, 11:43 am

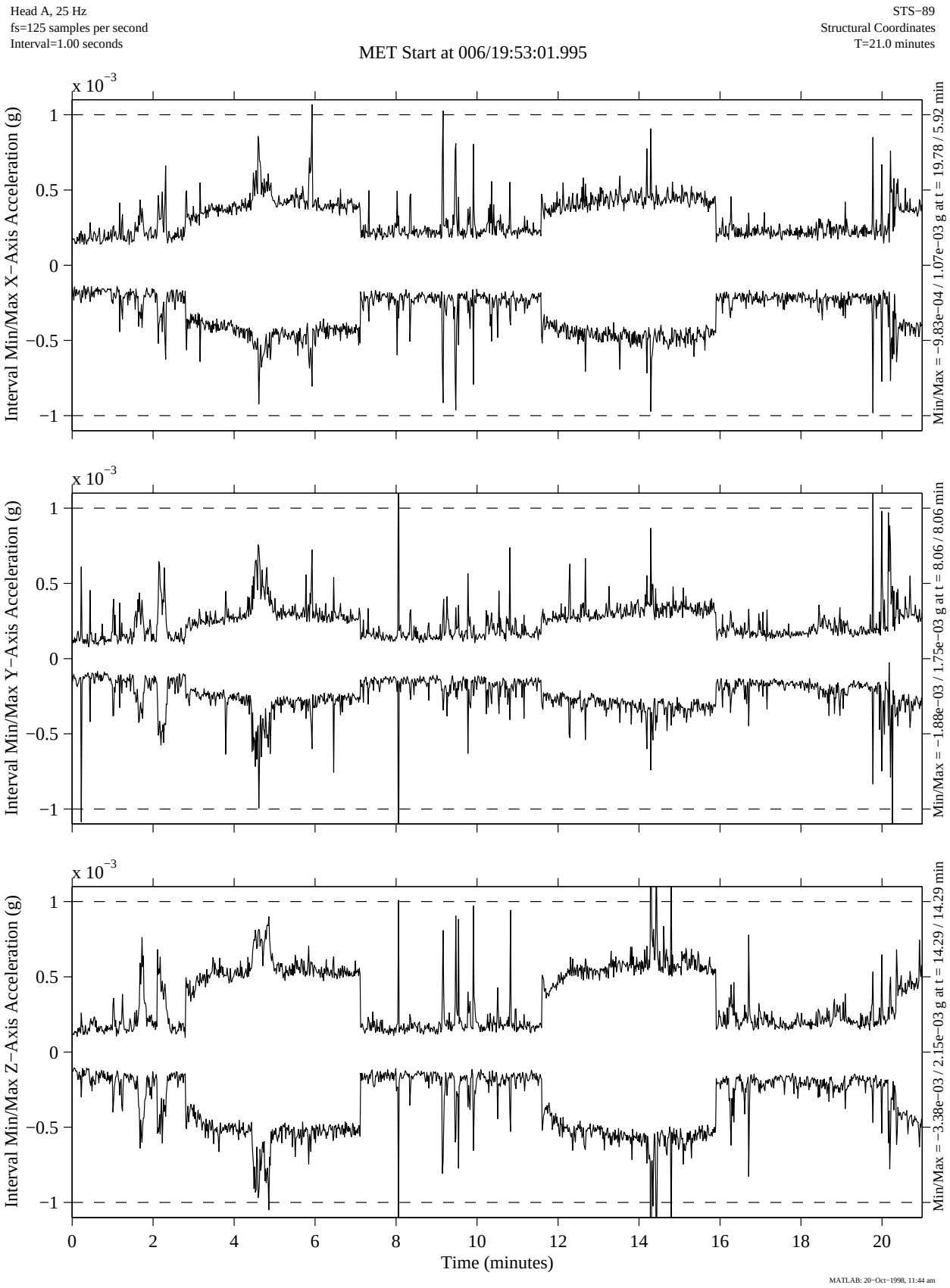

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 006/17:23:01.996
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.42e−03 / 1.55e−03 g at t = 11.46 / 3.44 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.60e−03 / 2.46e−03 g at t = 28.23 / 28.23 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.99e−03 / 2.05e−03 g at t = 28.23 / 28.23 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 11:43 am

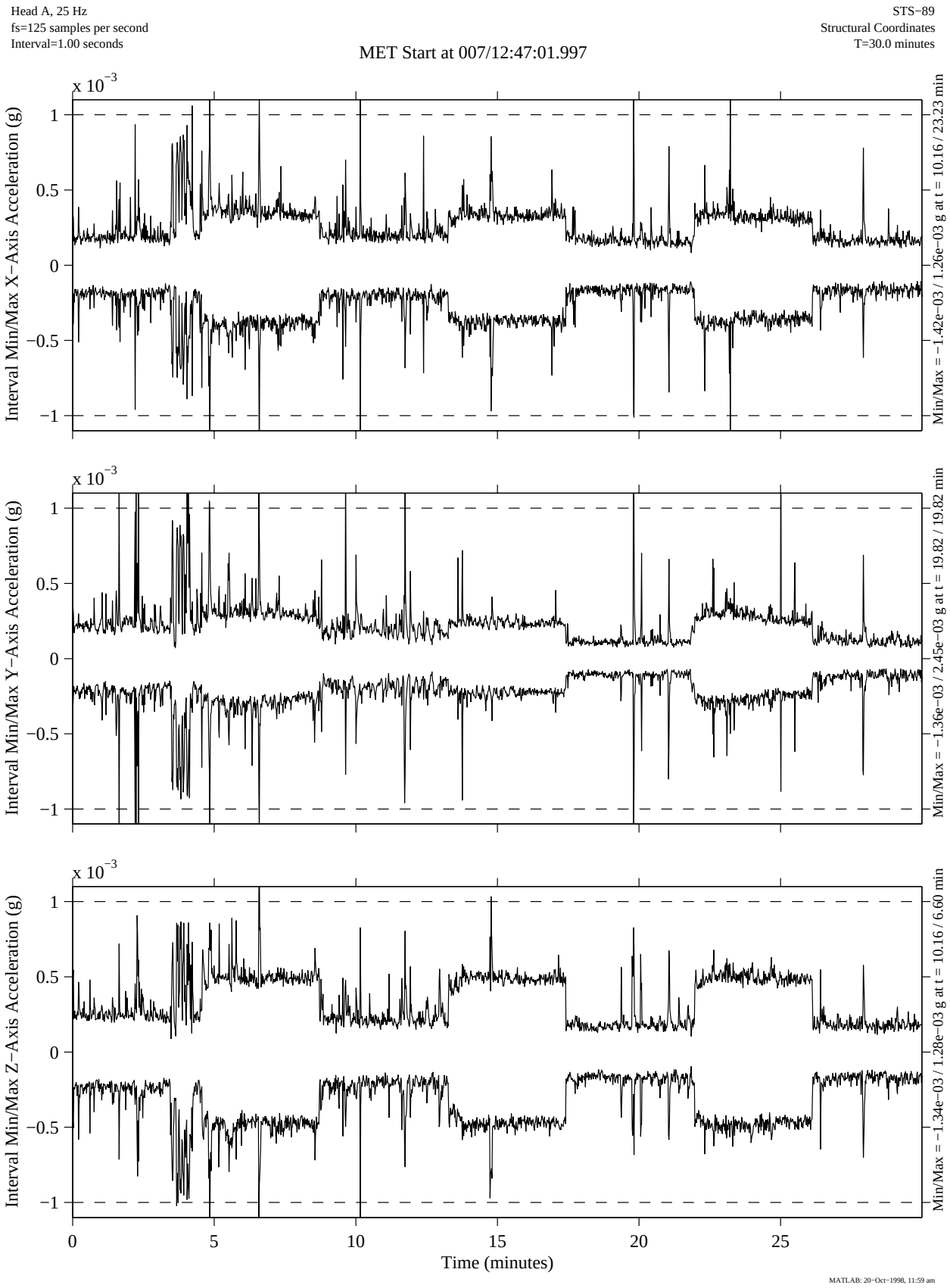

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 006/17:53:02.000
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.39e−03 / 1.30e−03 g at t = 10.75 / 19.05 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −7.32e−03 / 8.55e−03 g at t = 10.75 / 10.75 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.99e−03 / 1.42e−03 g at t = 11.11 / 16.60 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 11:43 am

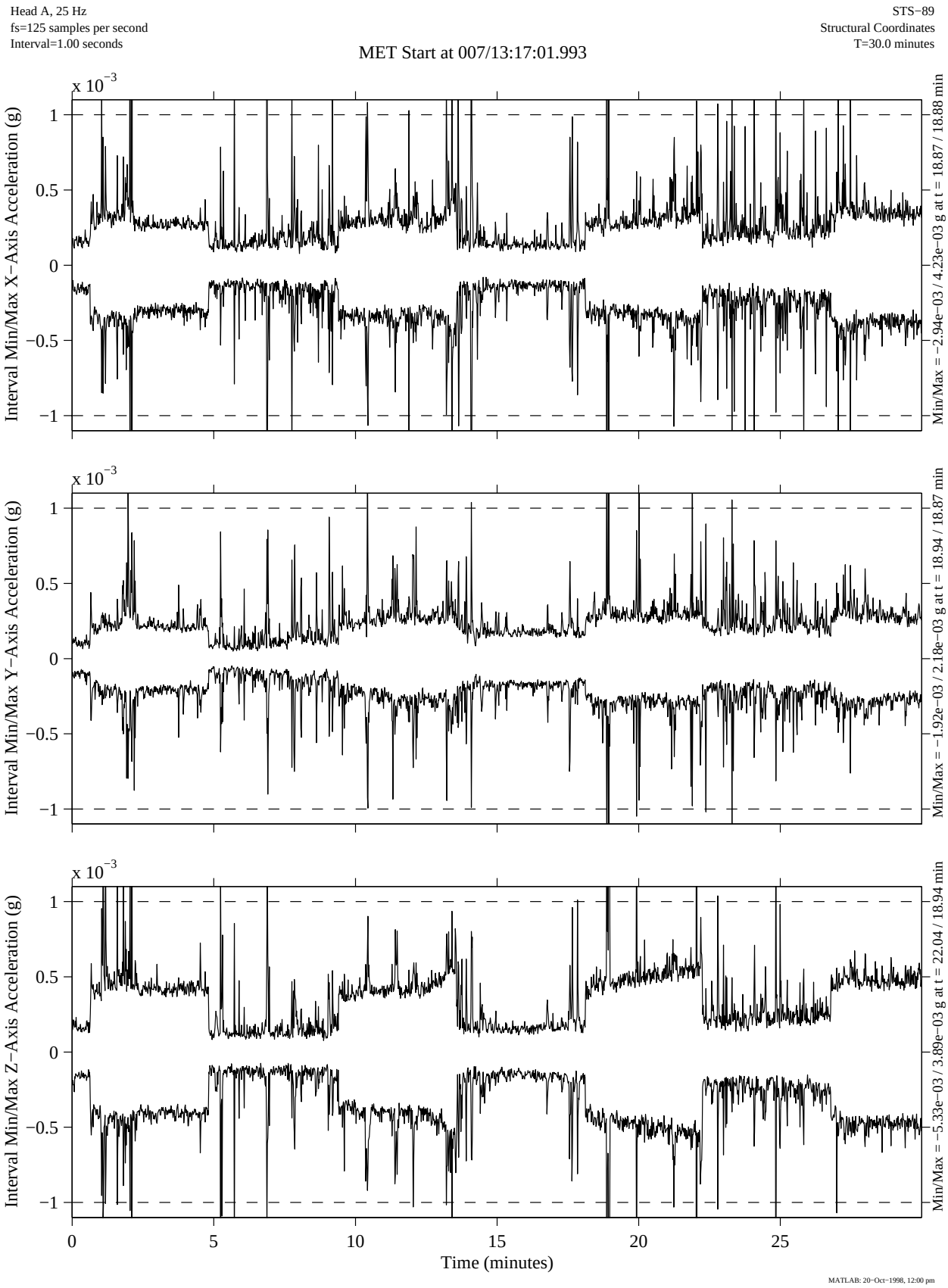

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 006/18:23:01.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.90e−03 / 1.34e−03 g at t = 12.80 / 12.80 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.33e−04 / 1.01e−03 g at t = 9.34 / 9.96 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.01e−03 / 1.00e−03 g at t = 16.14 / 16.27 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 11:43 am

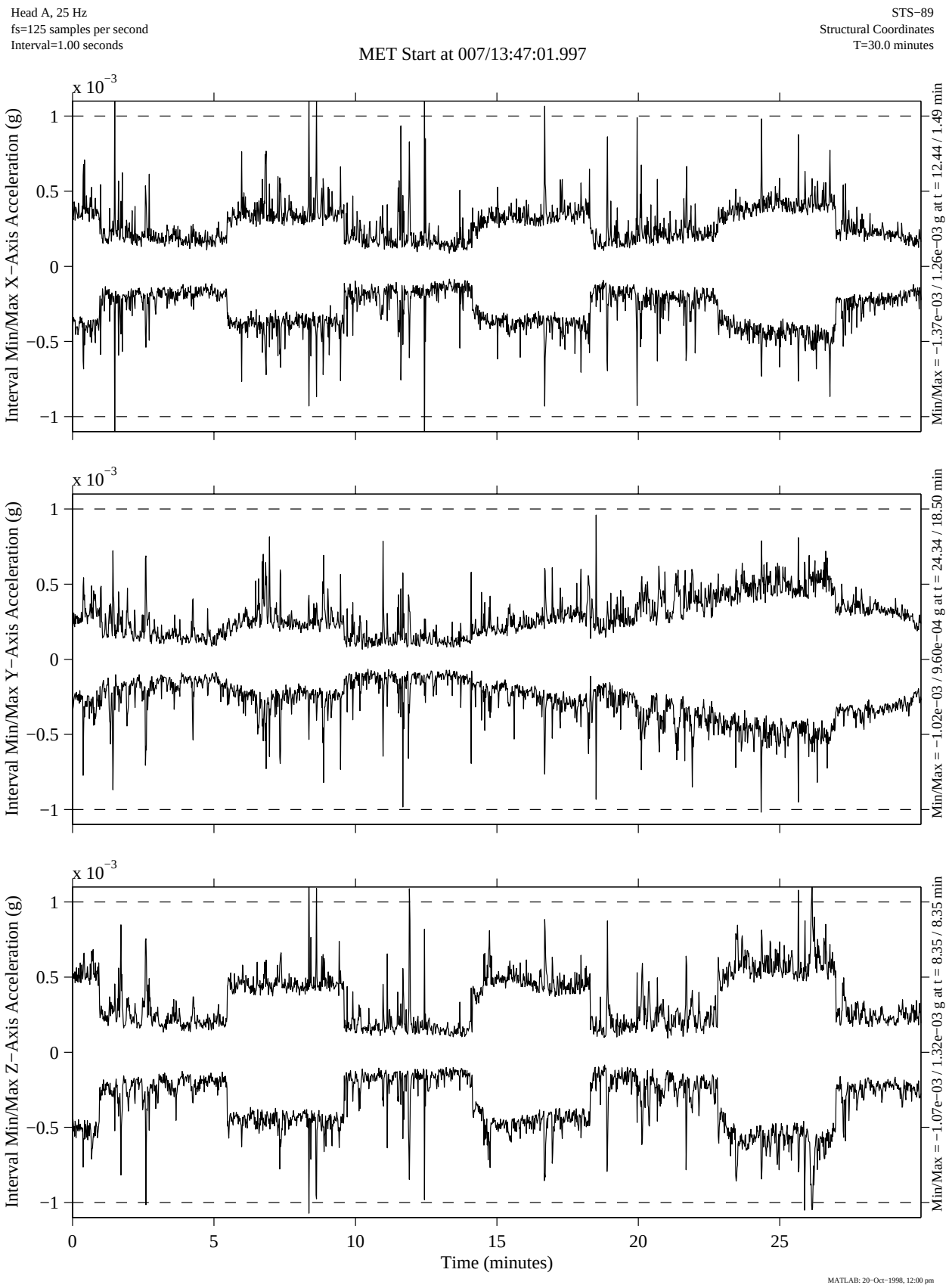

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 006/18:53:01.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.31e−03 / 1.23e−03 g at t = 11.87 / 11.87 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.90e−04 / 9.41e−04 g at t = 16.48 / 16.48 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.23e−03 / 1.45e−03 g at t = 17.97 / 18.06 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 11:44 am

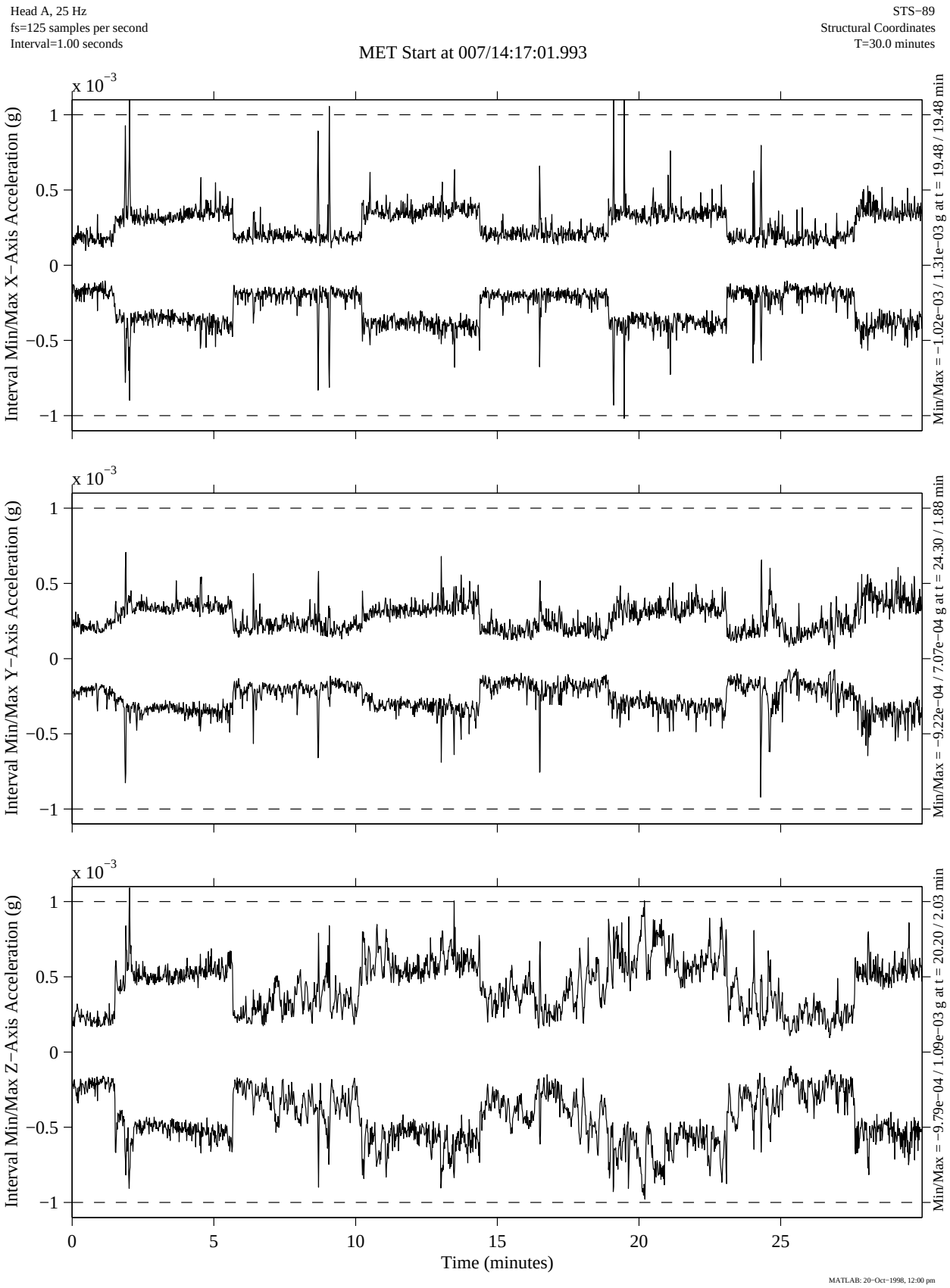

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 006/19:23:01.999
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.03e−02 / 2.97e−03 g at t = 4.49 / 4.50 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.58e−03 / 1.29e−03 g at t = 4.49 / 7.91 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −5.86e−03 / 4.02e−03 g at t = 4.49 / 4.49 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 11:44 am

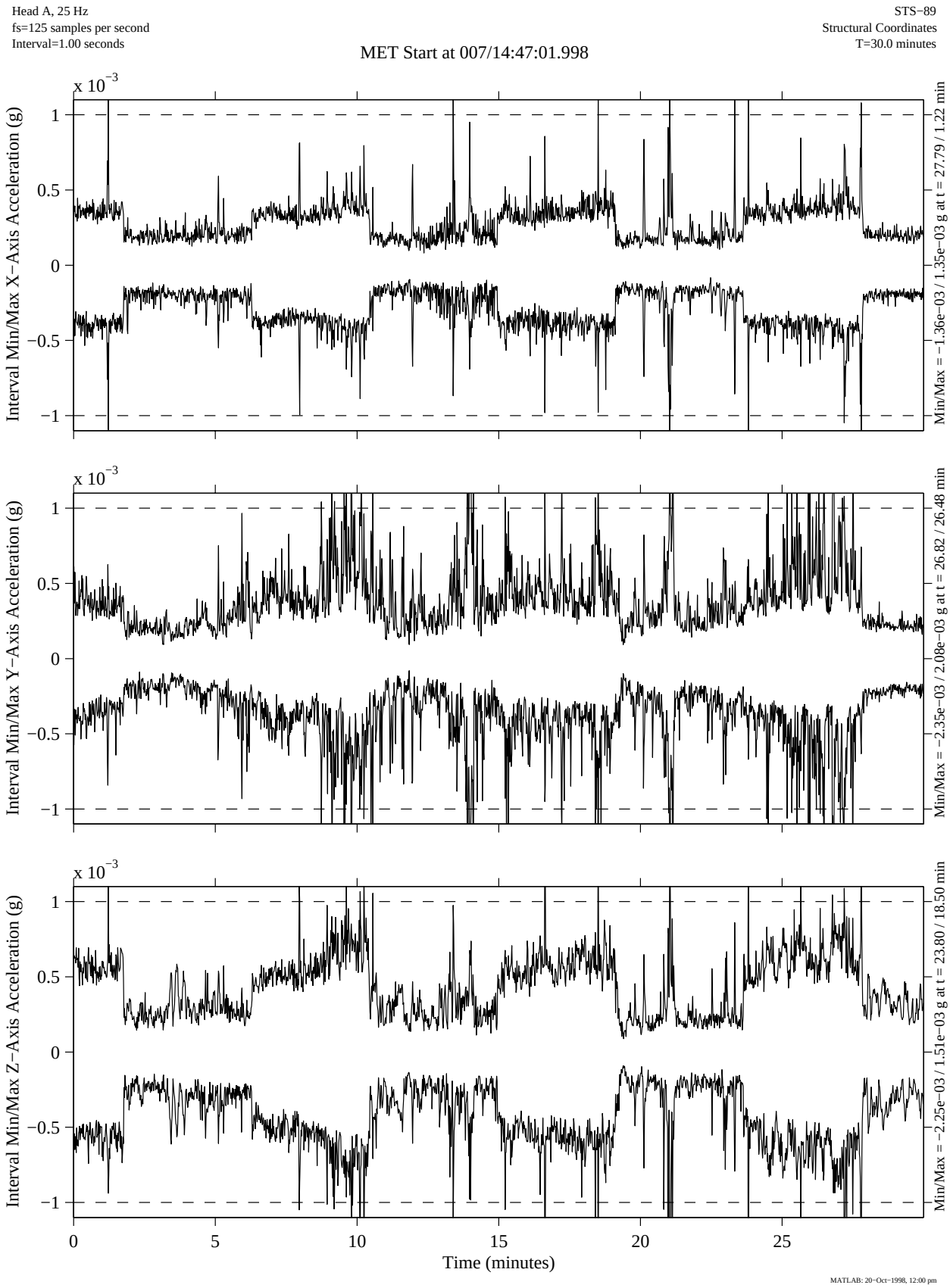

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=21.0 minutes
MET Start at 006/19:53:01.995
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −9.83e−04 / 1.07e−03 g at t = 19.78 / 5.92 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.88e−03 / 1.75e−03 g at t = 8.06 / 8.06 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −3.38e−03 / 2.15e−03 g at t = 14.29 / 14.29 min
Time (minutes)
MATLAB: 20−Oct−1998, 11:44 am

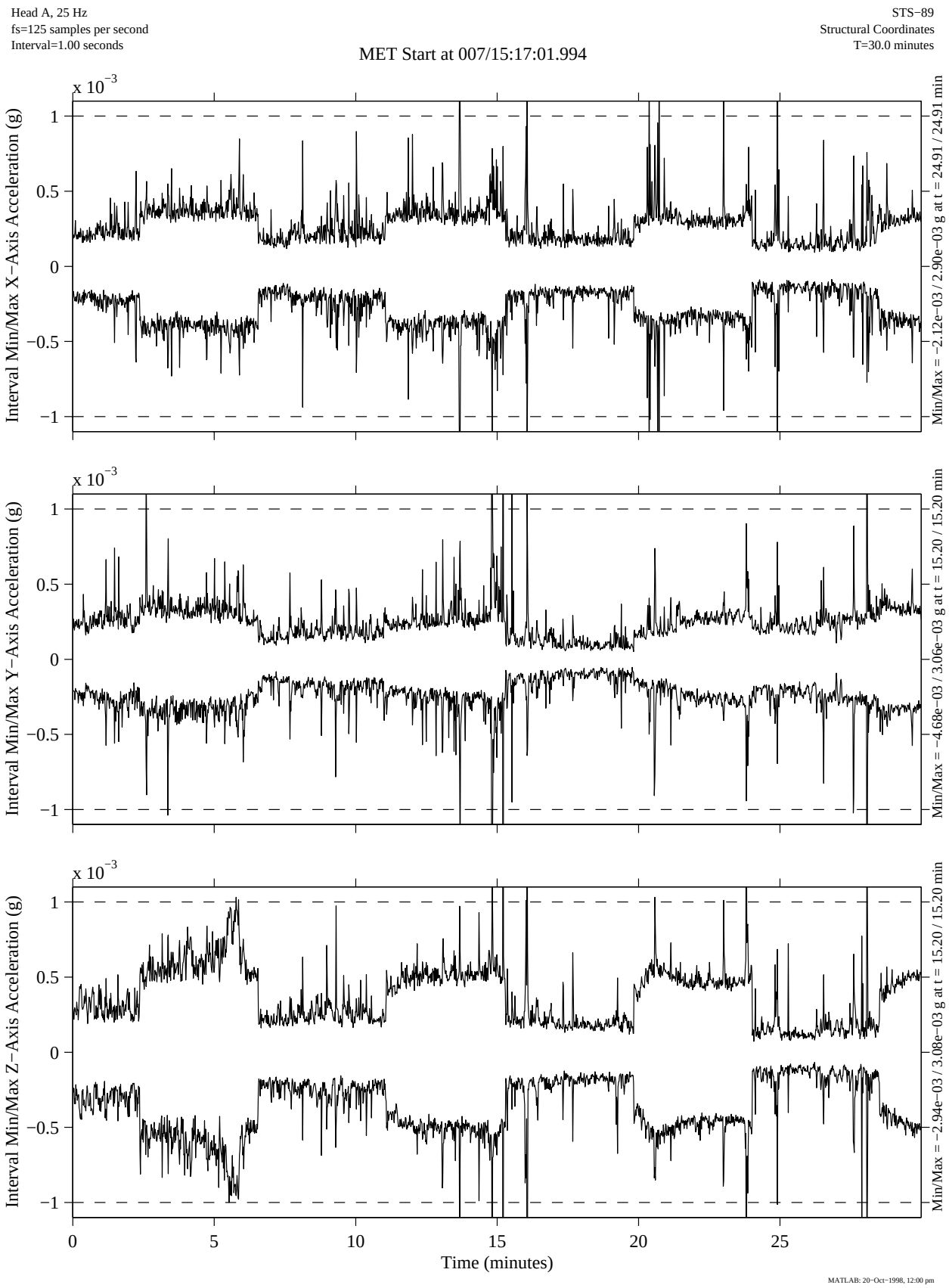

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 007/12:47:01.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.42e−03 / 1.26e−03 g at t = 10.16 / 23.23 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.36e−03 / 2.45e−03 g at t = 19.82 / 19.82 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.34e−03 / 1.28e−03 g at t = 10.16 / 6.60 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 11:59 am

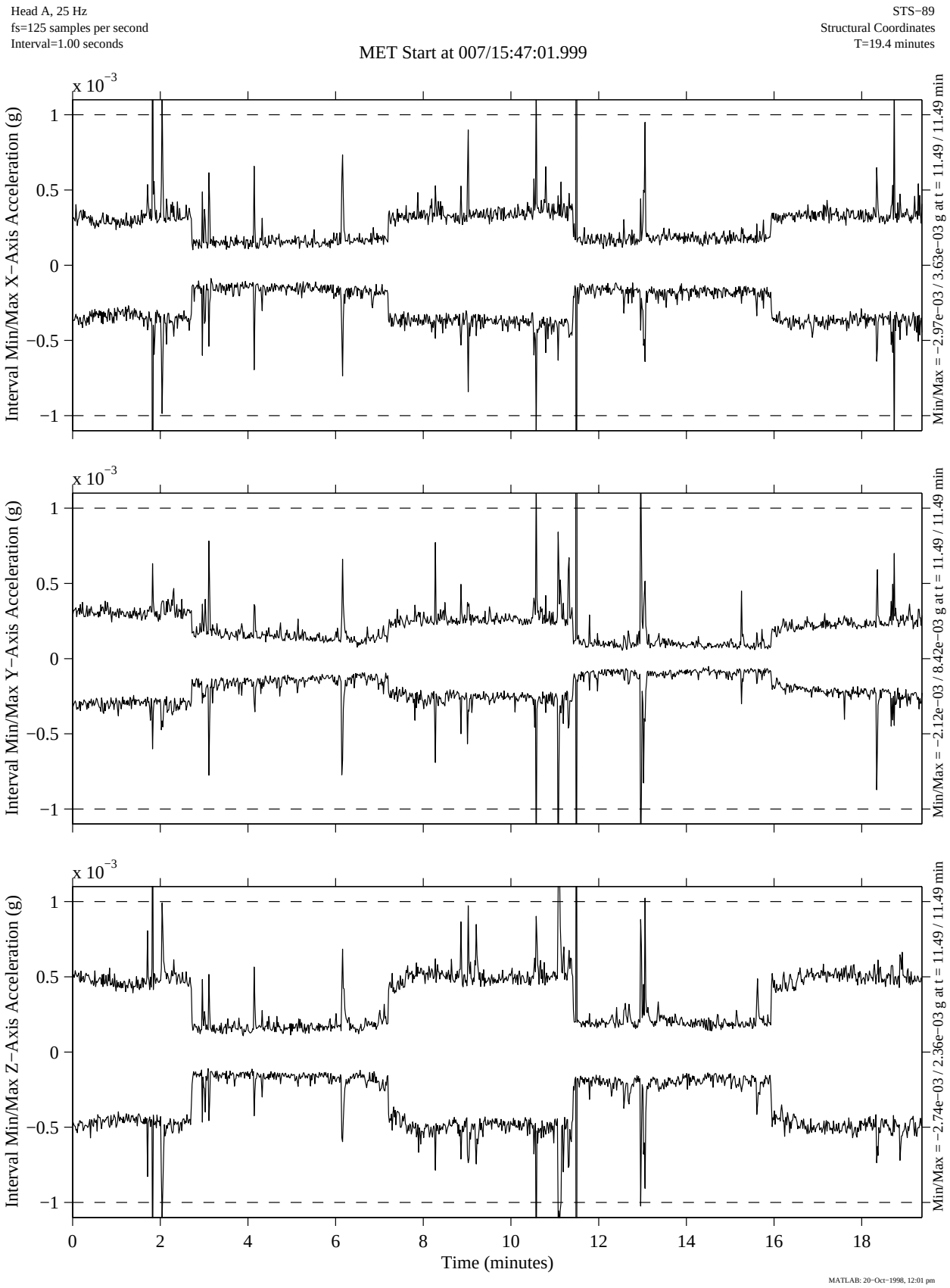

Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 007/13:17:01.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.94e−03 / 4.23e−03 g at t = 18.87 / 18.88 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.92e−03 / 2.18e−03 g at t = 18.94 / 18.87 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −5.33e−03 / 3.89e−03 g at t = 22.04 / 18.94 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 12:00 pm


Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 007/13:47:01.997
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.37e−03 / 1.26e−03 g at t = 12.44 / 1.49 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −1.02e−03 / 9.60e−04 g at t = 24.34 / 18.50 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −1.07e−03 / 1.32e−03 g at t = 8.35 / 8.35 min
Time (minutes)
MATLAB: 20−Oct−1998, 12:00 pm


Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 007/14:17:01.993
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.02e−03 / 1.31e−03 g at t = 19.48 / 19.48 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −9.22e−04 / 7.07e−04 g at t = 24.30 / 1.88 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −9.79e−04 / 1.09e−03 g at t = 20.20 / 2.03 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 12:00 pm


Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 007/14:47:01.998
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −1.36e−03 / 1.35e−03 g at t = 27.79 / 1.22 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.35e−03 / 2.08e−03 g at t = 26.82 / 26.48 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.25e−03 / 1.51e−03 g at t = 23.80 / 18.50 min
Time (minutes)
MATLAB: 20−Oct−1998, 12:00 pm


Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=30.0 minutes
MET Start at 007/15:17:01.994
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.12e−03 / 2.90e−03 g at t = 24.91 / 24.91 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −4.68e−03 / 3.06e−03 g at t = 15.20 / 15.20 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.94e−03 / 3.08e−03 g at t = 15.20 / 15.20 min
1
0.5
0
−0.5
−1
0
5
10
15
20
25
Time (minutes)
MATLAB: 20−Oct−1998, 12:00 pm


Head A, 25 Hz
fs=125 samples per second
Interval=1.00 seconds
STS−89
Structural Coordinates
T=19.4 minutes
MET Start at 007/15:47:01.999
x 10−3
Interval Min/Max X−Axis Acceleration (g)
Min/Max = −2.97e−03 / 3.63e−03 g at t = 11.49 / 11.49 min
Interval Min/Max Y−Axis Acceleration (g)
Min/Max = −2.12e−03 / 8.42e−03 g at t = 11.49 / 11.49 min
Interval Min/Max Z−Axis Acceleration (g)
Min/Max = −2.74e−03 / 2.36e−03 g at t = 11.49 / 11.49 min
1
0.5
0
−0.5
−1
0
2
4
6
8
10
12
14
16
18
Time (minutes)
MATLAB: 20−Oct−1998, 12:01 pm