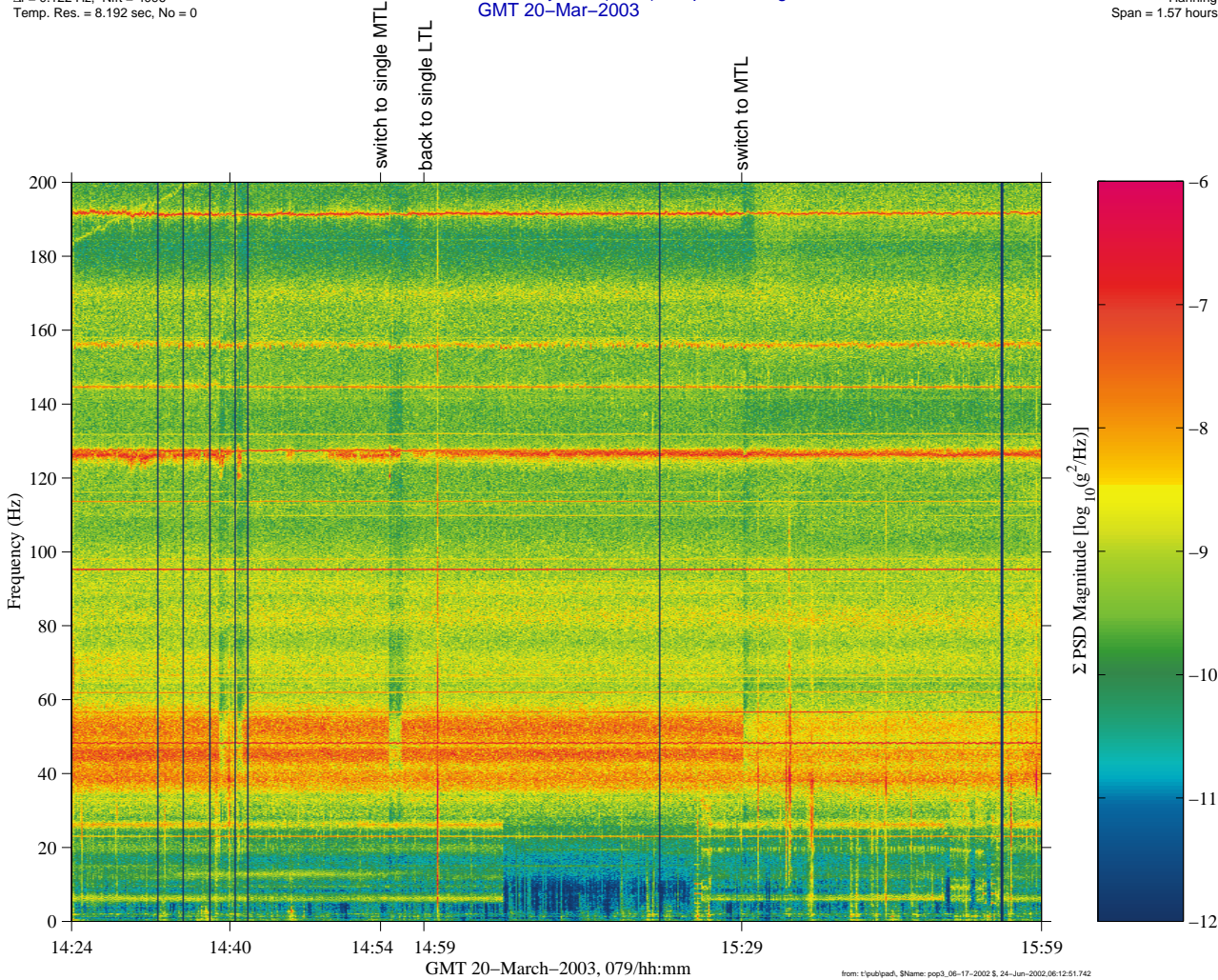


# Internal Thermal Control System (ITCS) Qualify

sams2, 121f04 at LAB1O2, ER1, Lower Z Panel:[149.54 -40.54 135.25]  
500.0 sa/sec (200.00 Hz)  
 $\Delta f = 0.122$  Hz, Nfft = 4096  
Temp. Res. = 8.192 sec, No = 0

Internal Thermal Control System (ITCS) Loop Switching  
GMT 20-Mar-2003

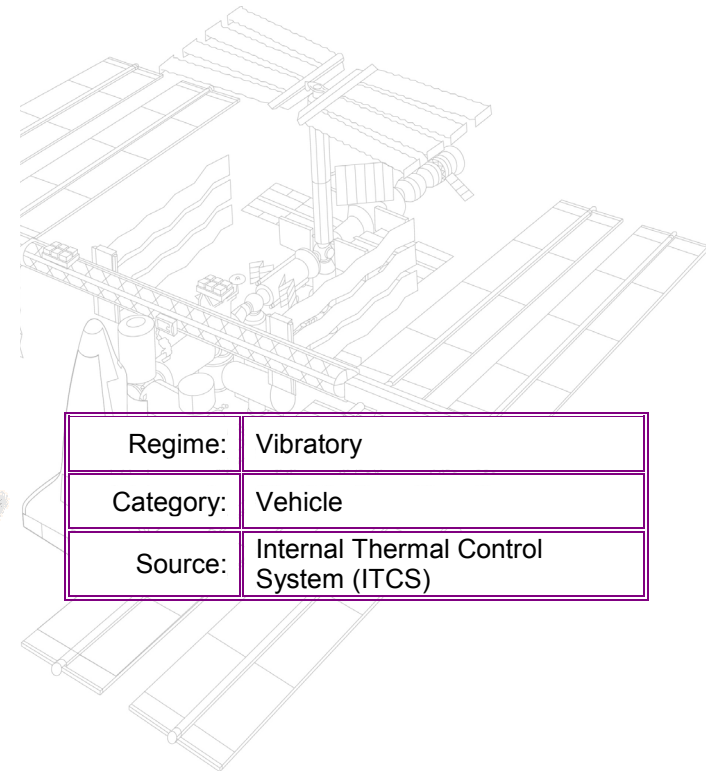
Increment: 6, Flight: 11A  
Sum  
Hanning  
Span = 1.57 hours



Data Description	
Sensor	SAMS 121f04 500.0 sa/sec (200.00 Hz)
Location	LAB1O2, ER1, Lower Z Panel
Inc/Flight	Increment: 6 Flight: 11A
Plot Type	spectrogram

### Notes:

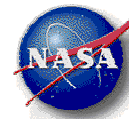
The Internal Thermal Control System (ITCS) seems to contribute broadband energy into the acceleration spectrum, particularly between about 35 and 60 Hz when it's in the single Low Temperature Loop (LTL) mode. When switched to the Medium Temperature Loop (MTL) mode, there is a noticeable broadband decrease in the acceleration spectrum below 200 Hz.



Regime:	Vibratory
Category:	Vehicle
Source:	Internal Thermal Control System (ITCS)



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## Internal Thermal Control System (ITCS) Quantify

sams2, 121f04 at LAB1O2, ER1, Lower Z Panel:[149.54 -40.54 135.25]

500.0 sa/sec (200.00 Hz)

$\Delta f = 0.122$  Hz, Nfft = 4096

Temp. Res. = 8.192 sec, No = 0

Internal Thermal Control System (ITCS) Loop Switching, 35 < f < 60 Hz

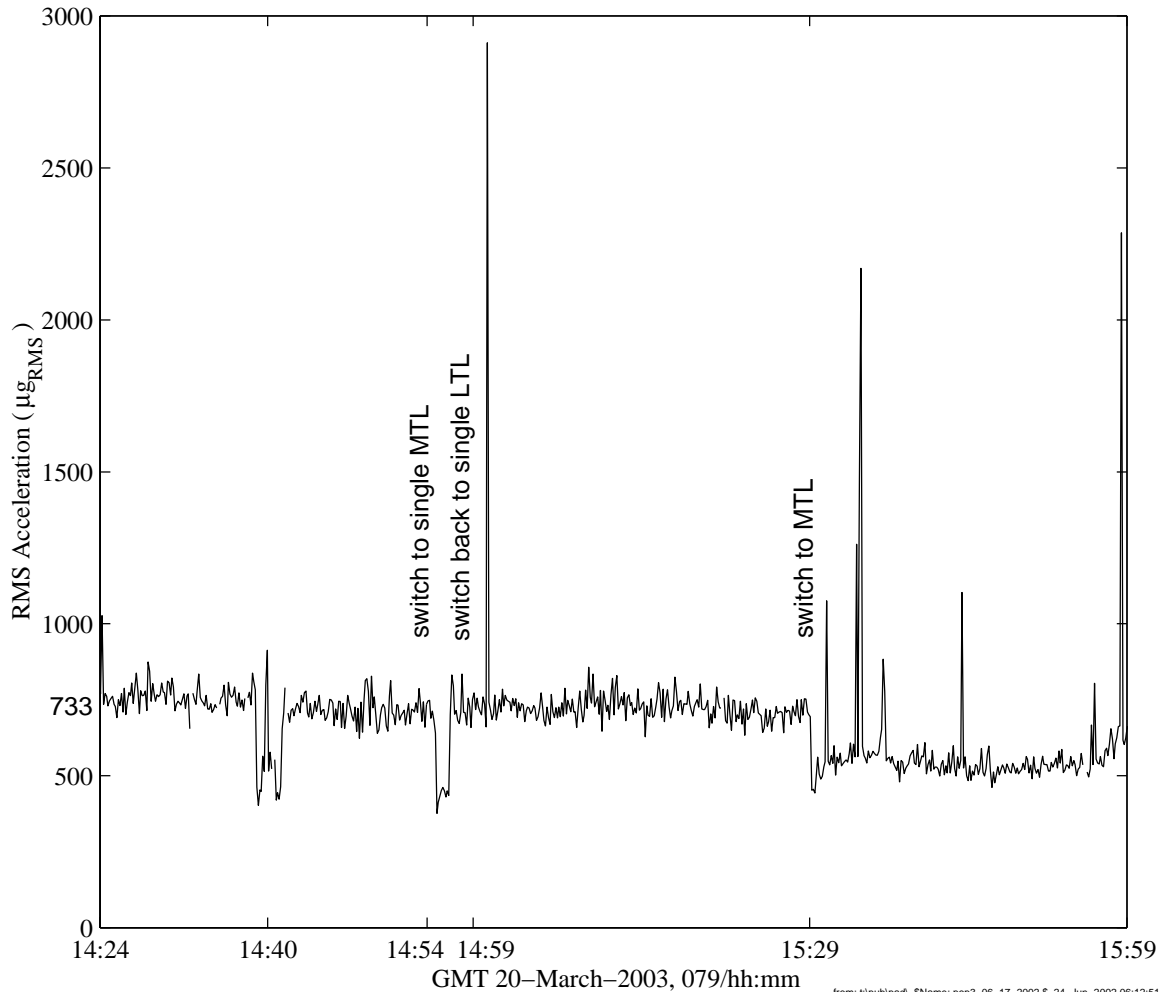
GMT 20-March-2003

Increment: 6, Flight: 11A

Sum

Hanning

Span = 1.57 hours

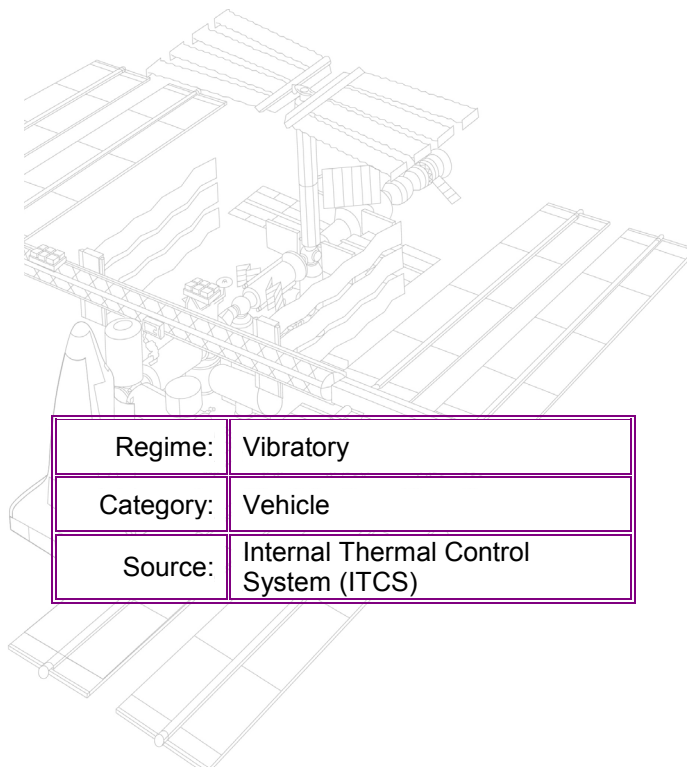


from: t:\pub\pad\\_\$Name: pop3\_06-17-2002 \$, 24-Jun-2002,06:12:51.742

Data Description	
Sensor	SAMS 121f04 500.0 sa/sec (200.00 Hz)
Location	LAB1O2, ER1, Lower Z Panel
Inc/Flight	Increment: 6 Flight: 11A
Plot Type	interval RMS

**Notes:**

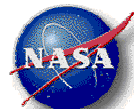
The Internal Thermal Control System (ITCS) seems to contribute broadband energy into the acceleration spectrum, particularly between about 35 and 60 Hz when it's in the single Low Temperature Loop (LTL) mode. When switched to the Medium Temperature Loop (MTL) mode, there is a noticeable broadband decrease in the acceleration spectrum below 200 Hz.



Regime:	Vibratory
Category:	Vehicle
Source:	Internal Thermal Control System (ITCS)



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