

# MSG TSH ES03 Poll Quantify

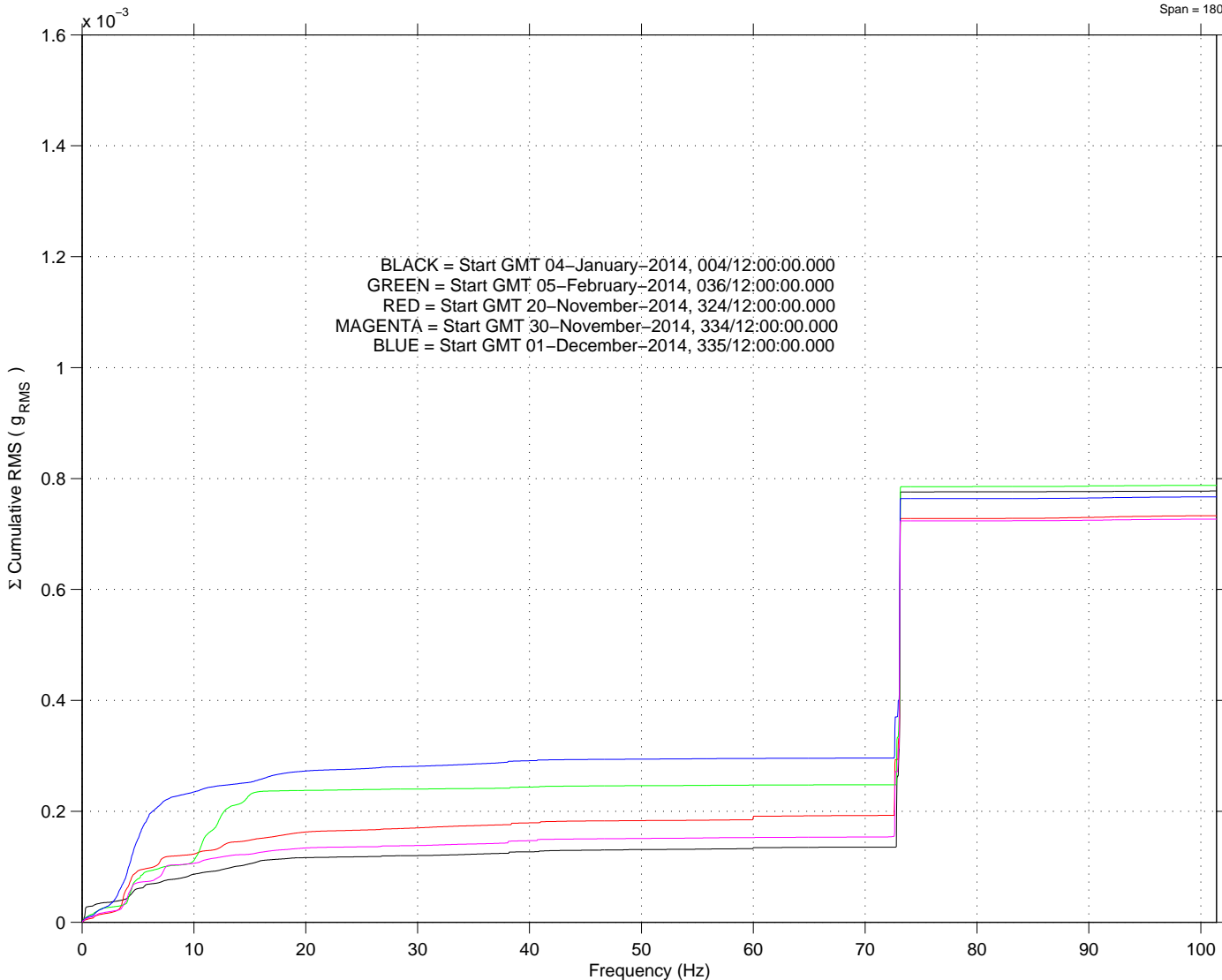
samses, es03 at LAB1S2, MSG, Ceiling Plate Y1-B1 Y2-A1;[475.63 204.91 159.95]

250.0000 sa/sec (101.40 Hz)

$\Delta f = 0.031$  Hz, Nfft = 8192

SAMSSES, es03, LAB1S2, MSG, Ceiling Plate Y1-B1 Y2-A1, 101.4 Hz (250.0 s/sec)

Sum  
Hanning, k = 91  
Span = 1800.00 sec.



## Description

Sensor	SAMS es03 250.0 sa/sec, 101.4 Hz
Location	LAB1S2, MSG, Ceiling Plate
Plot Type	Cumulative RMS vs. Frequency

## Notes:

All traces in this cumulative RMS versus frequency plot start at GMT 12:00 with a duration of 30 minutes, for the following days:

- BLACK = GMT 04-Jan-2014
- GREEN = GMT 05-Feb-2014
- RED = GMT 20-Nov-2014
- MAGENTA = GMT 30-Nov-2014
- BLUE = GMT 01-Dec-2014

Regime:	Vibratory
Category:	Equipment
Source:	MSG TSH ES03 Poll



## MSG TSH ES03 Poll Ancillary Notes

While monitoring the SAMS sensor real-time spectrogram displays for 3D Print Project support in the Microgravity Science Glovebox (MSG), it was observed that the broadband accelerations were not as pronounced as perhaps expected. A poll of several days from this past calendar year was conducted via cumulative RMS versus frequency plots shown on the previous page. The 5 half-hour data sets considered were all relatively close in terms of acceleration RMS value as a function of frequency with only notable exceptions being in the frequency range from about 5 to about 15 Hz and at about 72 Hz. The image below shows the SAMS sensor mounted in the MSG on a plate toward the back and upper-right of the work volume inside MSG.

