



**Figure 17 – Window 4000 – 5000 ms Analysis**

The figures above show the broadband nature of the TriCluster™ signature in real data examples. An additional feature claimed by SeaScan as unique to TriCluster™ is the improved penetration of high frequency signal over conventional arrays. The figures clearly show that at all the time levels investigated there is indeed energy present up to 200 Hz., with minimal attenuation of the higher frequencies with increasing time.

Note that the spectral analysis in Figure 17 shows strong signal to 200 Hz., and is limited only by the anti-alias filter which has been applied to the data set (2 ms sample rate). This analysis window is taken from deep in the record (below 4 seconds) and suggests that the source generated significant energy at very high frequencies.

The value of the high frequency content is perhaps shown most dramatically in Figure 18 and Figure 19. Figure 18 shows a Tricluster shot record as recorded, and Figure 19 shows the same record after with frequency limits normally associated with conventional seismic source arrays.