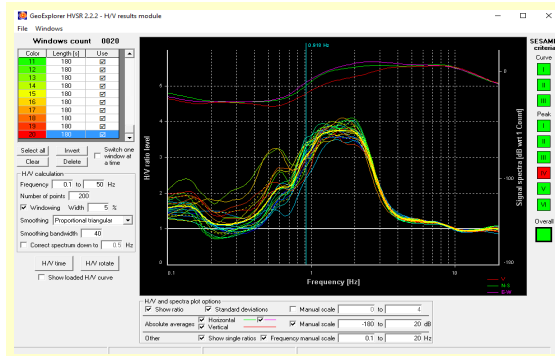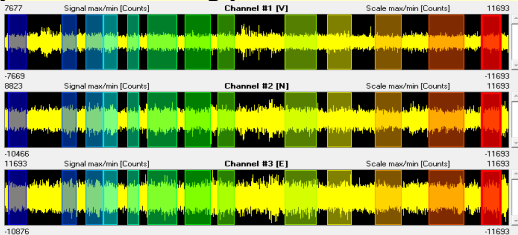# GeoExplorer HVSR



GeoExplorer HVSR is one of the most powerful tools on the market for H/V interpretation.
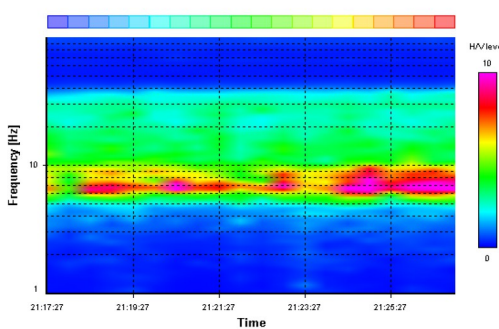
Designed with a series of selected calculation algorythms and with highly structured programming tecniques GeoExplorer HVSR can perform signal analysis with an incredible efficiency!
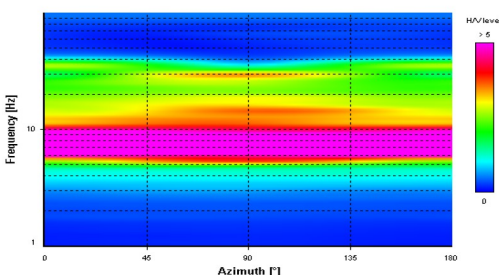
## Dynamic windowing process





## Ease of use

With GeoExplorer HVSR you can generate a validated report in the range of 30-60 seconds of work!
As soon a signal window is selected the H/V curve appears on the result window, including absolute spectrums for quality data check.
A moving cursor allows to scan all frequencies and pinpoint the one that satisfies the SESAME criteria or the operator's criteria.
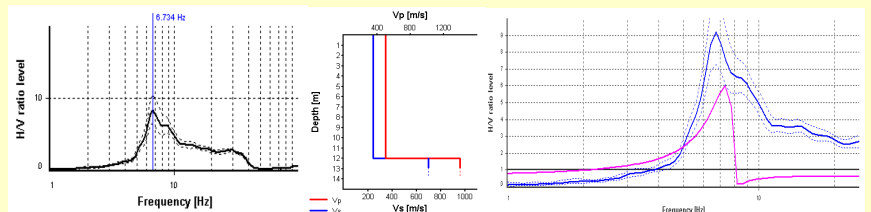
## Available functions

- H/V curves generated in real time
- Signal homogeneousity on the horizontal plane
- Signal and H/V ratio stability in time
- H/V and absolute spectrum overlap for fastest data quality check
- Windows selection switchable ON/OFF for better H/V curve restitution
- SESAME criteria for curve and peaks checked at all frequencies
- Programmable windowing algorythm
- Programmable smoothing
- Window selection with possible repositioning down to sample-by-sample
- AUDIO signal analysis
- Stratigraphic modelling
- Vp/Vs calculation for given stratigraphic model
- If needed the instrumental correction is possible using a respfile
- Geopsy[#] H/V format file compatibility
- Synthetic / Experimental curve comparison for VsXX (Vs30) calculation using (Geopsy[#] gpell)
- Automatic report generation in PDF format

**THE FIRST PUBLISHED HVSR SOFTWARE WITH EMBEDDED SEISMIC SIGNAL AUDIFICATION!!! Using the audification process it is possible to detect artificially generated noise (anthropic noise) which can potentially damage the quality of the survey.**

## Sistem requirements

GeoExplorer HVSR runs under Windows o.s. XP, Vista, 7 and 8. It is recomended the use of a 17" screen and an audio board.



[#]*Geopsy is a powerful and open source software (GPL) available for download at www.geopsy.org.*

*Sara Electronic Instruments s.r.l. reserves the right to modify at any time features and changes (also price changes) without any prior notice.*