

STATION INFORMATION

Station code: 7

Model: SARA GEOBOX

Sensor: SARA SS45 (external 4.5 Hz sensors)

Notes: traffico scarso

PLACE INFORMATION

Place ID: Monteverdi H7

Address: Le querciolaie

Latitude: 43.180437

Longitude: 10.711739

Coordinate system: WGS84

Elevation: 388 m s.l.m.

Weather: nuovoloso

Notes: -

PHOTOGRAPHIC REFERENCES



SIGNAL AND WINDOWING

Sampling frequency: 200 Hz

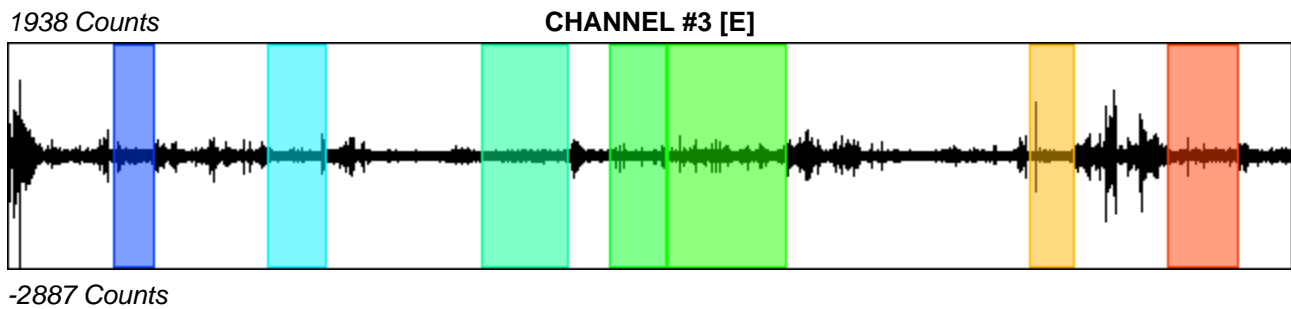
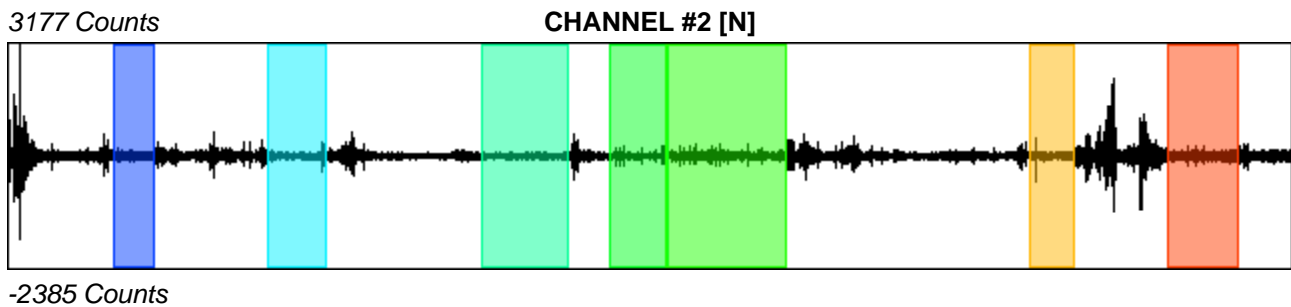
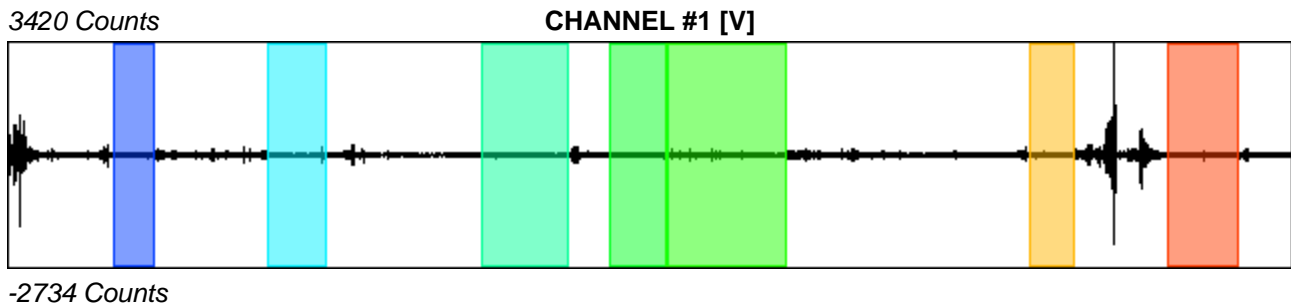
Recording start time: 2023/12/28 13:03:22

Recording length: 35 min

Windows count: 7

Average windows length: 111.02

Signal coverage: 37.01%



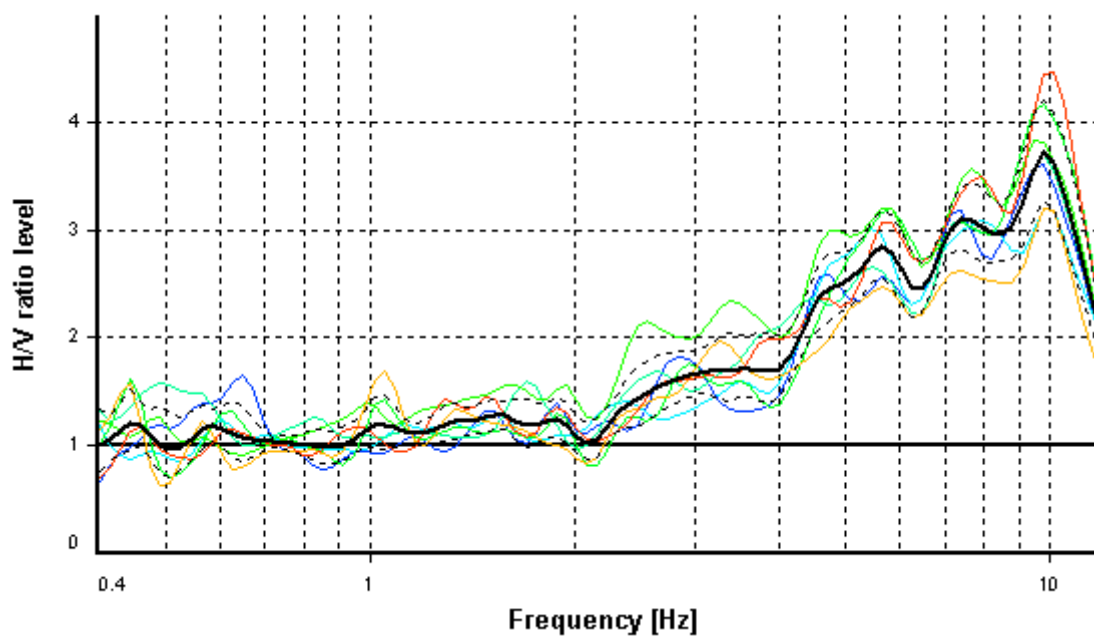
HVSR ANALYSIS

Tapering: Enabled (Bandwidth = 5%)

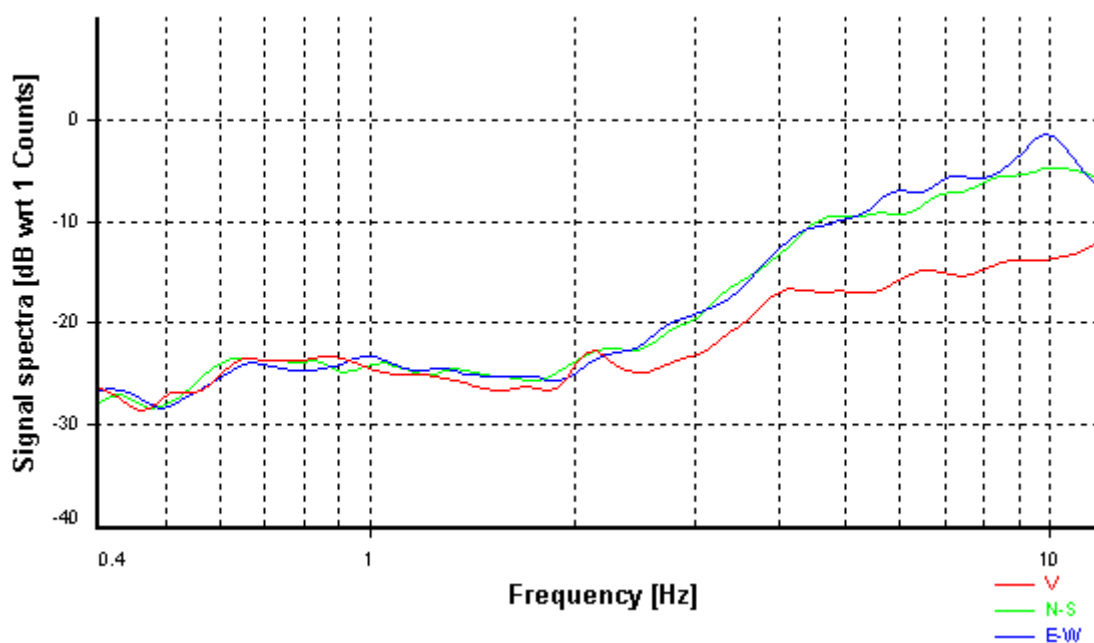
Smoothing: Konno-Ohmachi (Bandwidth coefficient = 40)

Instrumental correction: Disabled

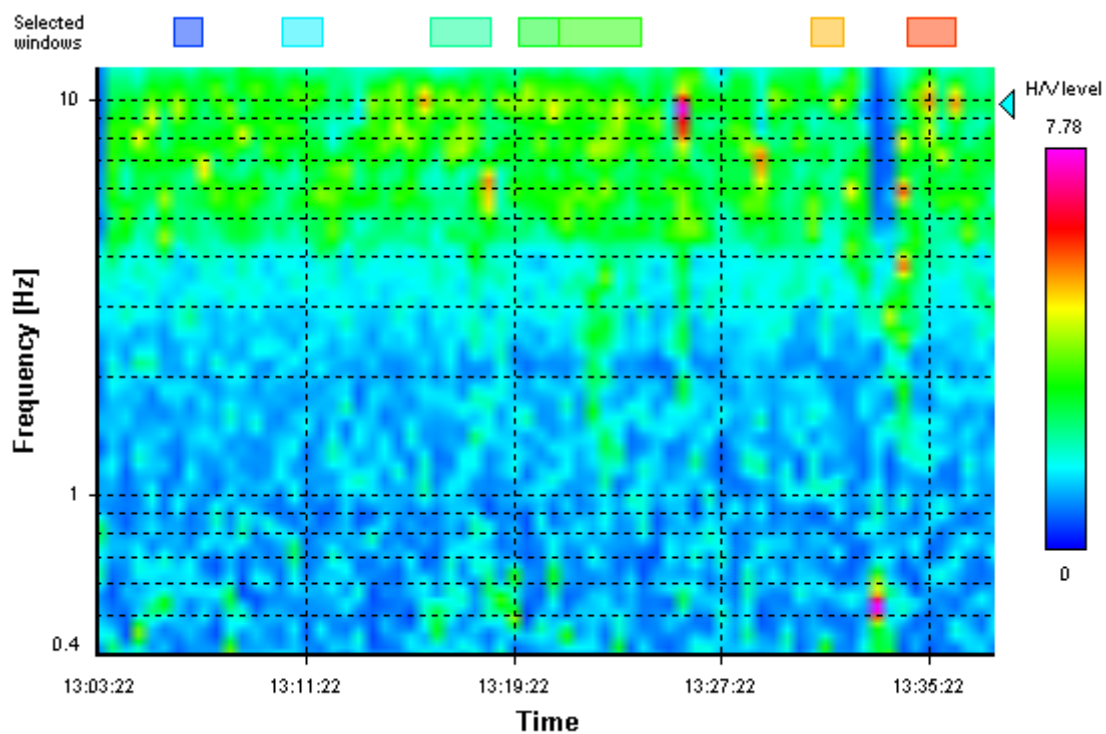
HVSR average



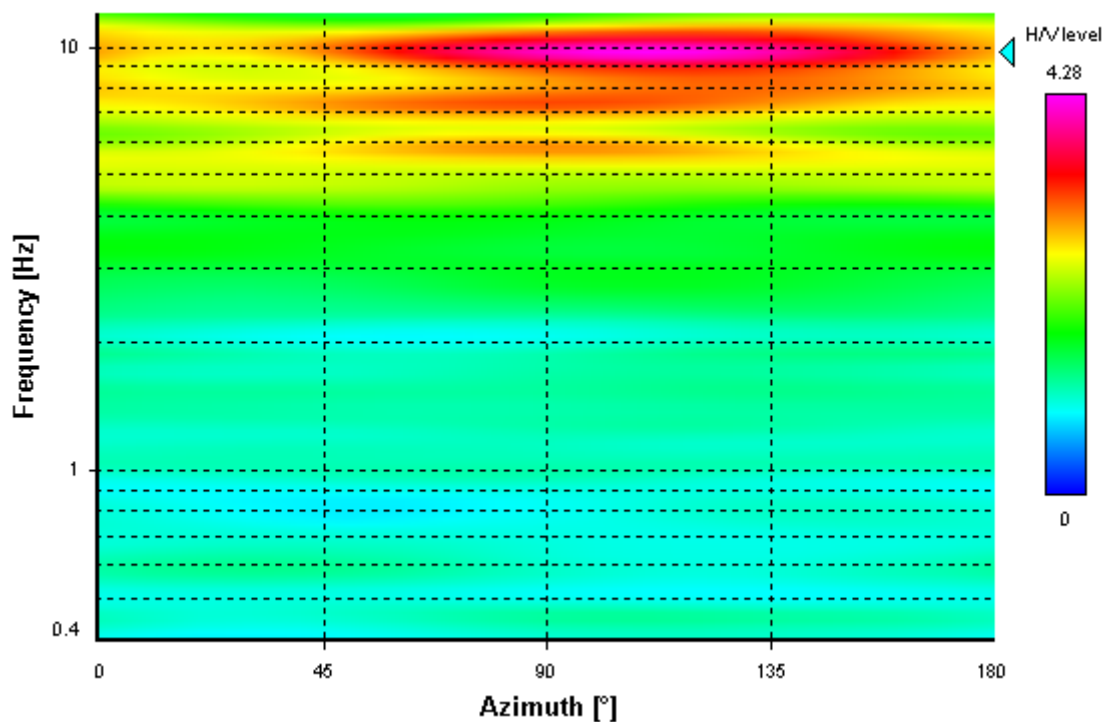
Signal spectra average



HVSR time-frequency analysis (30 seconds windows)



HVSR directional analysis



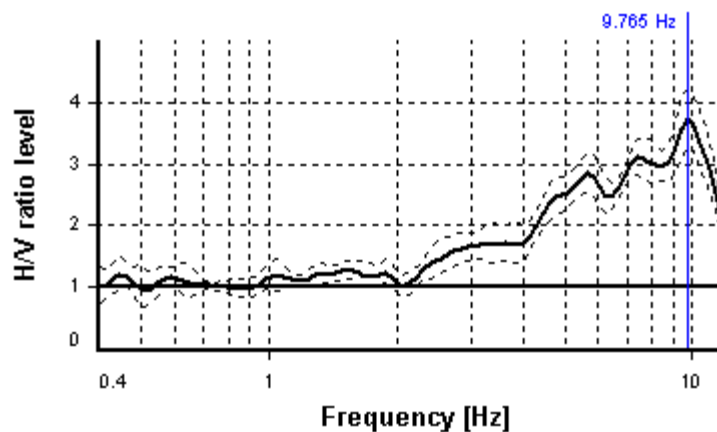
SESAME CRITERIA

Selected f_0 frequency

9.765 Hz

A_0 amplitude = 3.718

Average f_0 = 9.766 ± 0.194



HVSR curve reliability criteria		
$f_0 > 10 / L_w$	7 valid windows (length > 1.02 s) out of 7	OK
$n_c(f_0) > 200$	7588.58 > 200	OK
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$	Exceeded 0 times in 27	OK
HVSR peak clarity criteria		
$\exists f \text{ in } [f_0/4, f_0] \mid A_{H/V}(f) < A_0/2$	4.13665 Hz	OK
$\exists f^+ \text{ in } [f_0, 4f_0] \mid A_{H/V}(f^+) < A_0/2$	0 Hz	NO
$A_0 > 2$	3.72 > 2	OK
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	0% <= 5%	OK
$\sigma_f < \varepsilon(f_0)$	0.19374 < 0.48823	OK
$\sigma_A(f_0) < \theta(f_0)$	1.13141 < 1.58	OK
Overall criteria fulfillment		OK