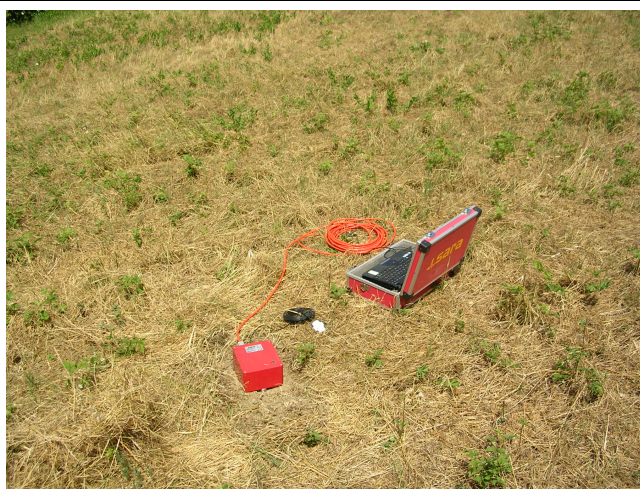


REPORT PROVA H/V

Stazione	17
WGS84 N	1703116,7
WGS84 E	4862460,8
Strumentazione	Sara SR04S3 4,5 Hz
Frequenza campionamento	100 Hz
Durata registrazione	30 min
Terreno di misura	Terreno naturale
Orientamento	0° N
Condizioni meteo	Sereno, non ventoso



Lunghezza finestre	20 sec
Tipo di lisciamento	Triangolare cost.
Ampiezza lisciamento	10 %
Intervallo di frequenza (Hz)	0,5 – 20,0
Picco H/V (Hz)	No picco
CLASSE DI QUALITA'	B

Horizontal-to-Vertical Spectral Ratio

Dataset: 17_92MT_20120728_140722.SAF

Sampling frequency (Hz): 100

Window length (sec): 20

Length of analysed temporal sequence (min): 8.7

Tapering (%): 10

=====

In the following the results considering the data in the 0.5-20.0Hz frequency rangePeak frequency (Hz): 6.3 (± 5.5)Peak HVSR value: 3.1 (± 0.5)**=== Criteria for a reliable H/V curve =====**#1. [$f_0 > 10/Lw$]: $6.3 > 0.5$ (OK)#2. [$nc > 200$]: $6431 > 200$ (OK)#3. [$f_0 > 0.5\text{Hz}$; $\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$] (OK)**=== Criteria for a clear H/V peak (at least 5 should be fulfilled) =====**#1. [exists f_- in the range $[f_0/4, f_0]$ | $AH/V(f_-) < A_0/2$]: yes, at frequency 3.1Hz (OK)#2. [exists f_+ in the range $[f_0, 4f_0]$ | $AH/V(f_+) < A_0/2$]: yes, at frequency 14.5Hz (OK)#3. [$A_0 > 2$]: $3.1 > 2$ (OK)#4. [$f_{\text{peak}}[A_{h/v}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$]: (OK)#5. [$\sigma_{\text{maf}} < \epsilon(f_0)$]: $5.458 > 0.315$ (NO)#6. [$\sigma_A(f_0) < \theta(f_0)$]: $0.463 < 1.58$ (OK)

www.wfnmasw.com

show data reset

step#1 (optional) - decimate
128Hz new frequency resample

step#2 - H/V computation
remove events clean axes
20 window length (s)
10 tapering (%)
10% spectral smoothing (triangular window)
☐ show particle motion (raw data) compute

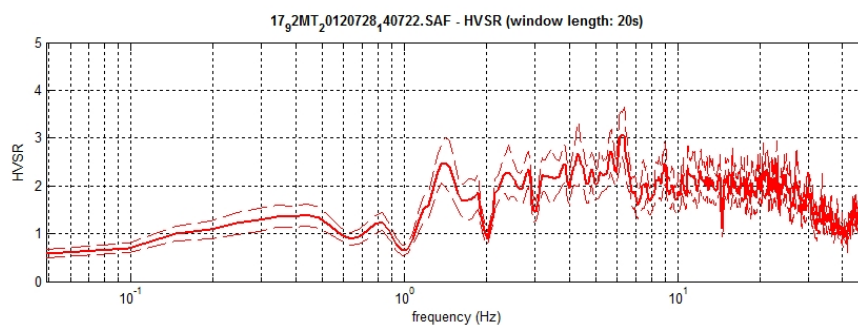
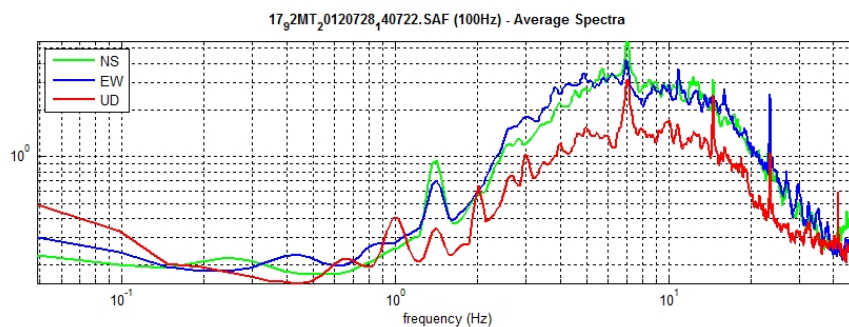
step#3a (optional) - directivity analysis
compute max freq: 32 Hz

step#3b (optional) - directivity over time
directivity in time time step: 60 s

save - option#1: save HVSr as it is
Save H/V from 0.3 to 64 Hz
save HV curve (as it is)

Save - option#2: picking H/V curve
pick HV curve save picked HV

quick analysis (f-Vs/4H)
☐ average Vs (m/s) (from surface to bedrock)
☐ depth of the bedrock (m)
compute



HVSr vs time

