

## REPORT PROVA H/V

|                         |                     |
|-------------------------|---------------------|
| <b>Stazione</b>         | <b>20</b>           |
| WGS84 N                 | 1702760,5           |
| WGS84 E                 | 4862978,9           |
| Strumentazione          | Sara SR04S3 4,5 Hz  |
| Frequenza campionamento | 100 Hz              |
| Durata registrazione    | 45 min              |
| Terreno di misura       | Terreno naturale    |
| Orientamento            | 0° N                |
| Condizioni meteo        | Sereno, non ventoso |



|                              |                   |
|------------------------------|-------------------|
| Lunghezza finestre           | 20 sec            |
| Tipo di liscio               | Triangolare cost. |
| Ampiezza liscio              | 10 %              |
| Intervallo di frequenza (Hz) | 0,5 – 20,0        |
| <b>Picco H/V (Hz)</b>        | <b>14,6</b>       |
| <b>CLASSE DI QUALITA'</b>    | <b>B</b>          |

**Horizontal-to-Vertical Spectral Ratio**

Dataset: 20\_95MT\_20120729\_123456.SAF

Sampling frequency (Hz): 100

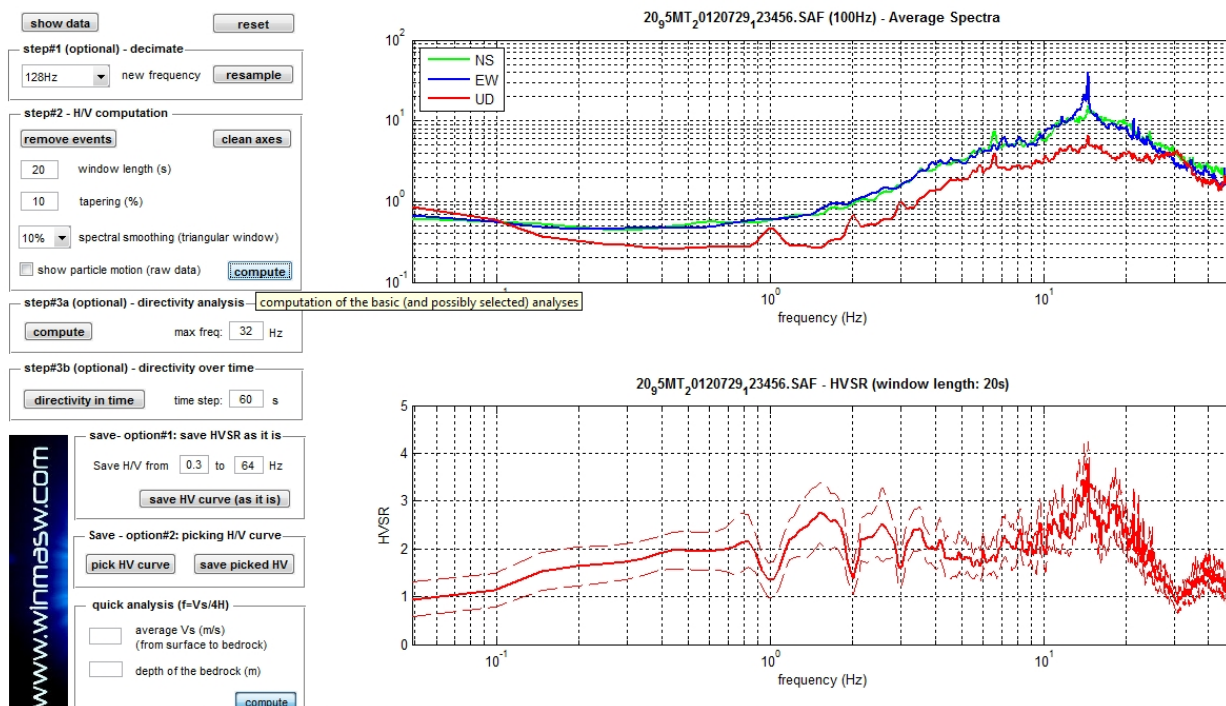
Window length (sec): 20

Length of analysed temporal sequence (min): 13.0

Tapering (%): 10

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**In the following the results considering the data in the 0.5-20.0Hz frequency range**Peak frequency (Hz): 14.6 ( $\pm 4.9$ )Peak HVSR value: 3.8 ( $\pm 0.5$ )**=== Criteria for a reliable H/V curve =====**#1. [ $f_0 > 10/Lw$ ]:  $14.6 > 0.5$  (OK)#2. [ $nc > 200$ ]:  $22430 > 200$  (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 10.2Hz (OK)#2. [exists  $f_+$  in the range  $[f_0, 4f_0]$  |  $AH/V(f_+) < A_0/2$ ]: (NO)#3. [ $A_0 > 2$ ]:  $3.8 > 2$  (OK)#4. [ $f_{\text{peak}}[A_{h/v}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$ ]: (OK)#5. [ $\sigma_{\text{maf}} < \epsilon(f_0)$ ]:  $4.886 > 0.728$  (NO)#6. [ $\sigma_A(f_0) < \theta(f_0)$ ]:  $0.474 < 1.58$  (OK)



HVSR vs time

