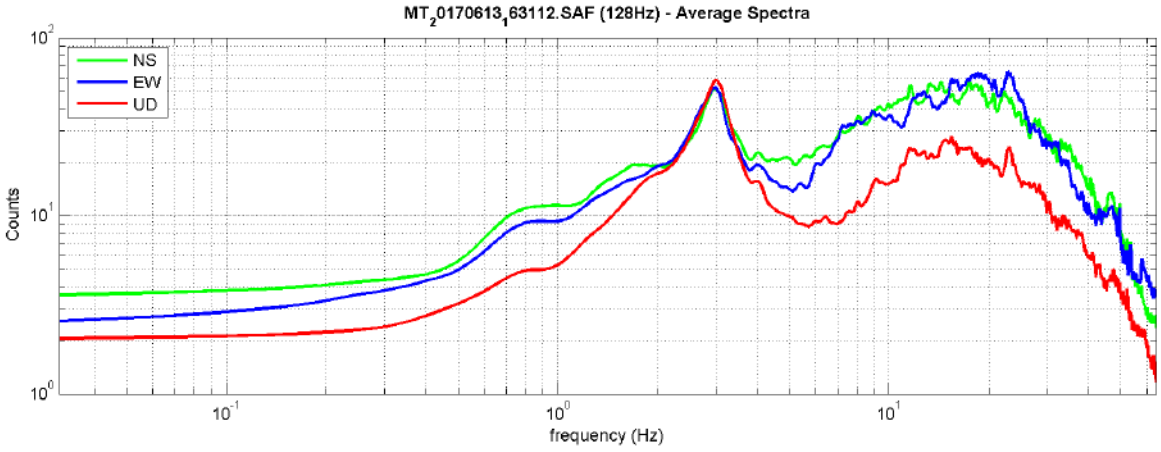
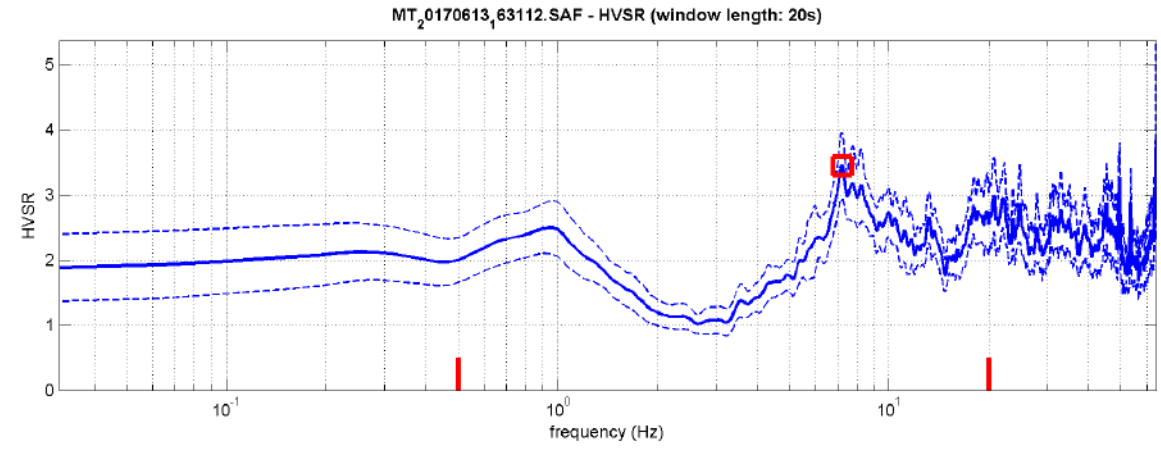
HVSR_1

P414

Dataset: MT_20170613_163112.SAF
Sampling frequency (Hz): 128
Window length (sec): 20
Length of analysed dataset (min): 15.0
Tapering (%): 0
Smoothing (%): 5

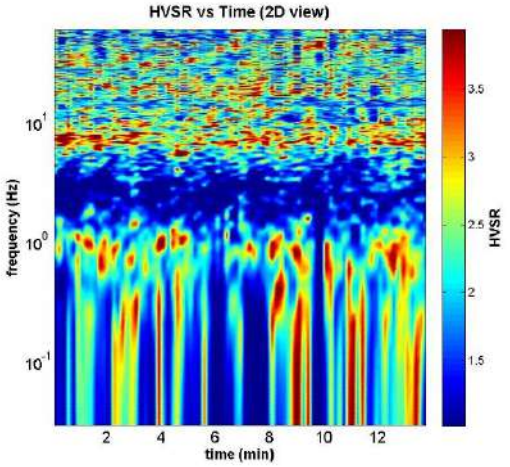
SPETTRI DELLE SINGOLE COMPONENTI - RAPPORTO SPETTRALE ORIZZONTALE SU VERTICALE

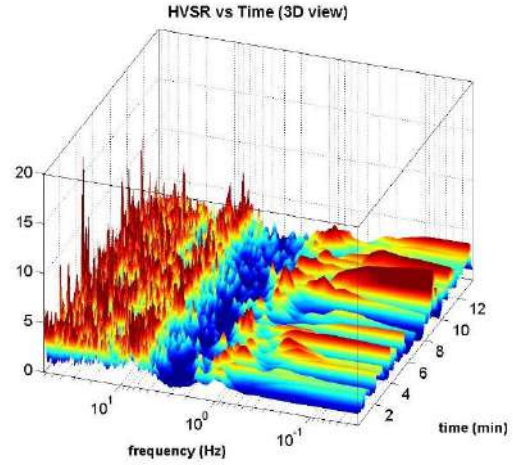




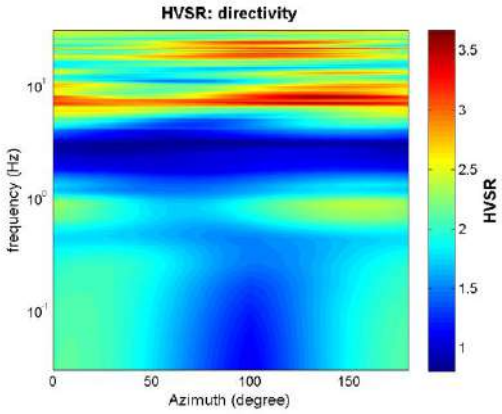
To model the HVSR (also jointly with MASW or ReMi/ESAC data), save the HV curve, go to the "Velocity Spectrum/s, Modeling & Picking" panels and upload the saved HV curve

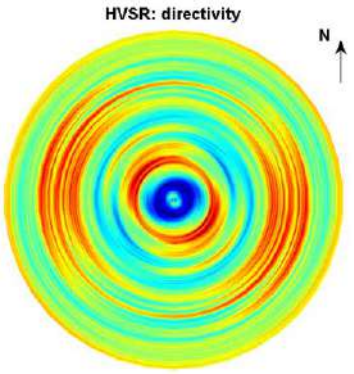
PERSISTENZA H/V





DIREZIONALITA' H/V





In the following the results considering the data in the 0.5-20.0Hz frequency range

Peak frequency (Hz): 7.2
Peak HVSR value: 3.5

=== Criteria for a reliable H/V curve ==========
#1. [f0 > 10/Lw]: 7.222 > 0.5 (OK)
#2. [nc > 200]: 11989 > 200 (OK)
#3. [f0>0.5Hz; sigmaA(f) < 2 for 0.5f0 < f < 2f0] (OK)

=== Criteria for a clear H/V peak (at least 5 should be fulfilled) ==========
#1. [exists f- in the range [f0/4, f0] | AH/V(f-) < A0/2]: yes, at frequency 1.8Hz (OK)
#2. [exists f+ in the range [f0, 4f0] | AH/V(f+) < A0/2]: yes (considering standard deviations), at frequency Hz (OK)
#3. [A0 > 2]: 3.5 > 2 (OK)
#4. [fpeak[Ah/v(f) ± sigmaA(f)] = f0 ± 5%]: (OK)
#5. [sigmaf < epsilon(f0)]: 5.132 > 0.361 (NO)
#6. [sigmaA(f0) < theta(f0)]: 0.505 < 1.58 (OK)
Please, be aware of possible industrial/man-induced peaks or spurious peaks due to meaningless numerical instabilities. Remember that SESAME criteria should be considered in a flexible perspective and that if you modify the processing parameters they can change.