



PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile



CONFERENZA DELLE REGIONI E
DELLE PROVINCE AUTONOME

Attuazione dell'articolo 11 della legge 24 giugno 2009, n.77

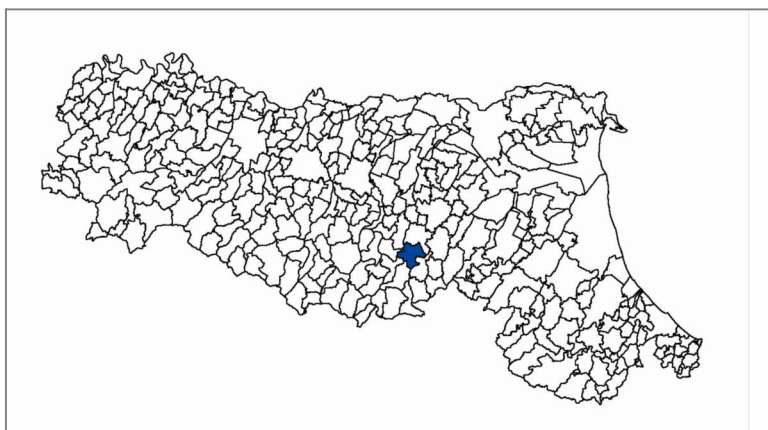
MICROZONAZIONE SISMICA

Analisi geologico tecnica e microzonazione
sismica del territorio di Marzabotto

Prospezioni geofisiche

Regione Emilia - Romagna

Piano Strutturale Comunale in Forma Associata
dei Comuni di Marzabotto e Vergato



Regione
Emilia Romagna

*Studio realizzato con il contributo di
cui all'OPCM 4007/2012
Coordinamento della Regione
Emilia - Romagna - Servizio Geologico
Luca Martelli*

Soggetto realizzatore
Studio Geologico CENTROGEO

Progetto:

Gian Pietro Mazzetti

Collaboratori:

Stefano Gilli, Andrea Arbizzi,

Mauro Mzzetti

Elaborazioni GIS:

Studio Benaglia

Professionisti associati

Corrado Ugoletti

Comune di Marzabotto

Sindaco:

Romano Franchi

Assessore all'Urbanistica:

Valerio Bignami

Ufficio di Piano Associato:

Marco Teglia, Carmelina Cava,

Gianpaolo Zaccanti

Data:

Aprile 2014

INDAGINI GEOFISICHE REMI / MASW

STUDIO GEOLOGICO CENTROGEO

42015 Correggio (RE) - Piazza S. Quirino, 6 - tel 0522/641001 - Fax: 632162

CENTROGEO P.zza S.Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R01
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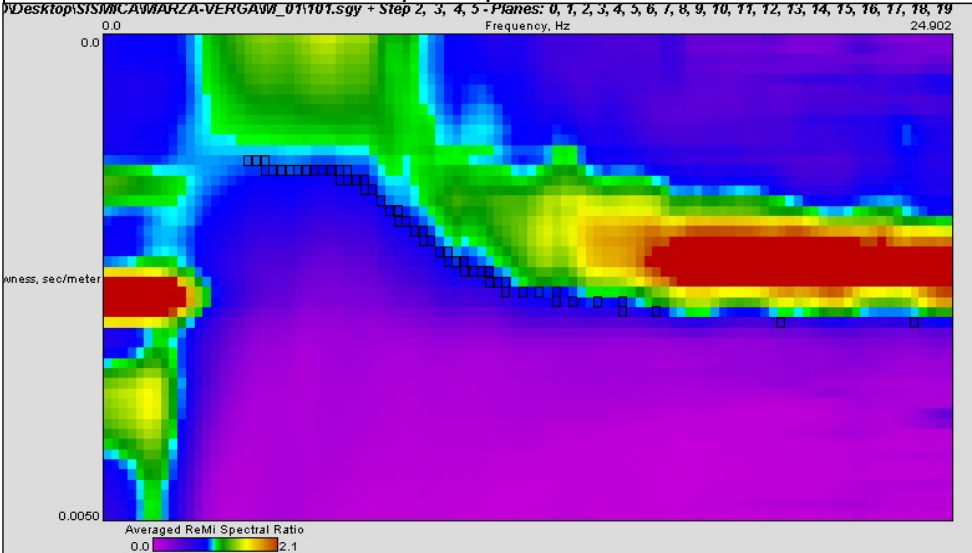
LOCALITA': Marzabotto (BO)
DATA: 17-10-2013

**INDAGINE MASW/Re.Mi.
R01**

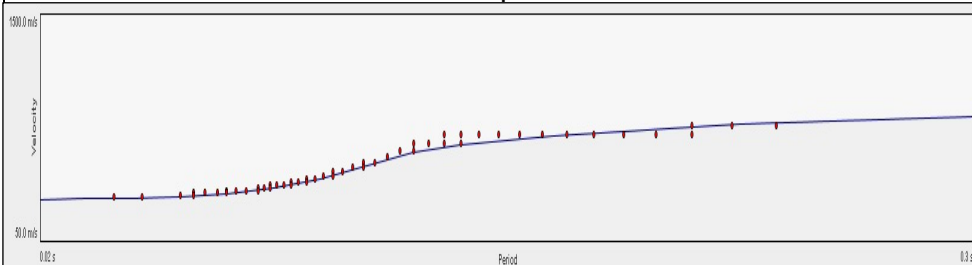
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

0.0 Frequency, Hz 24.902



Curva di dispersione

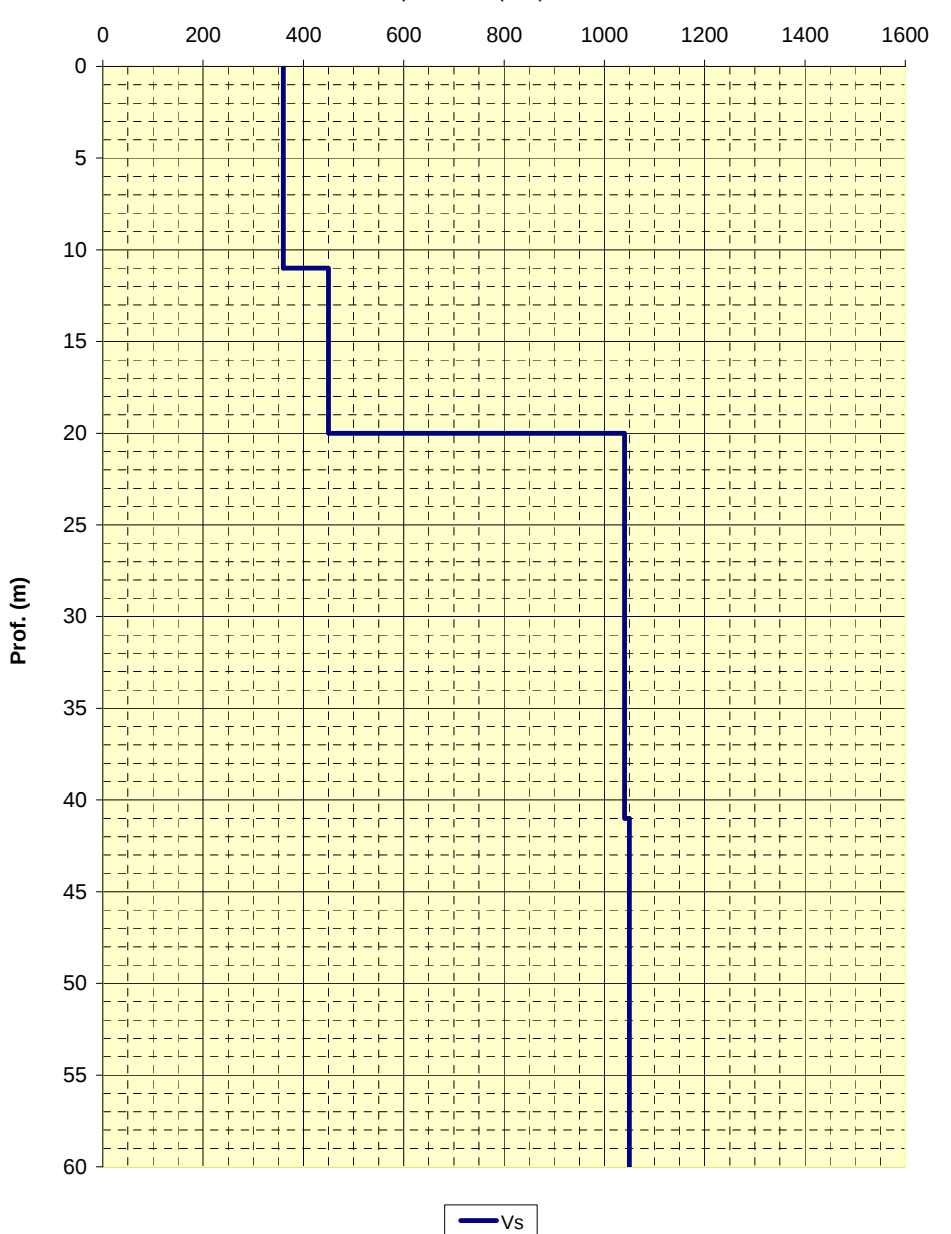


Note:	Modello interpretativo	
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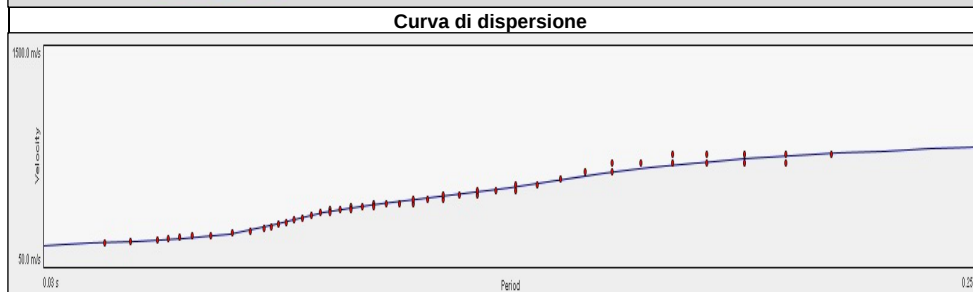
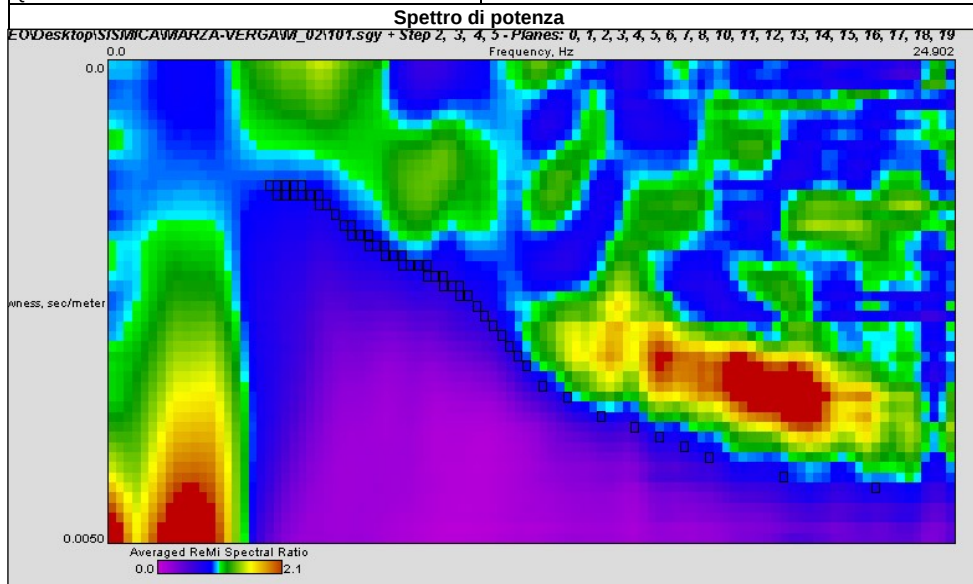
	Modello interpretativo
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Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	11	11	360
2	11	20	9	450
3	20	41	21	1040
4	41	INF	INF	1050
5				
6				
7				
8				
9				
10				

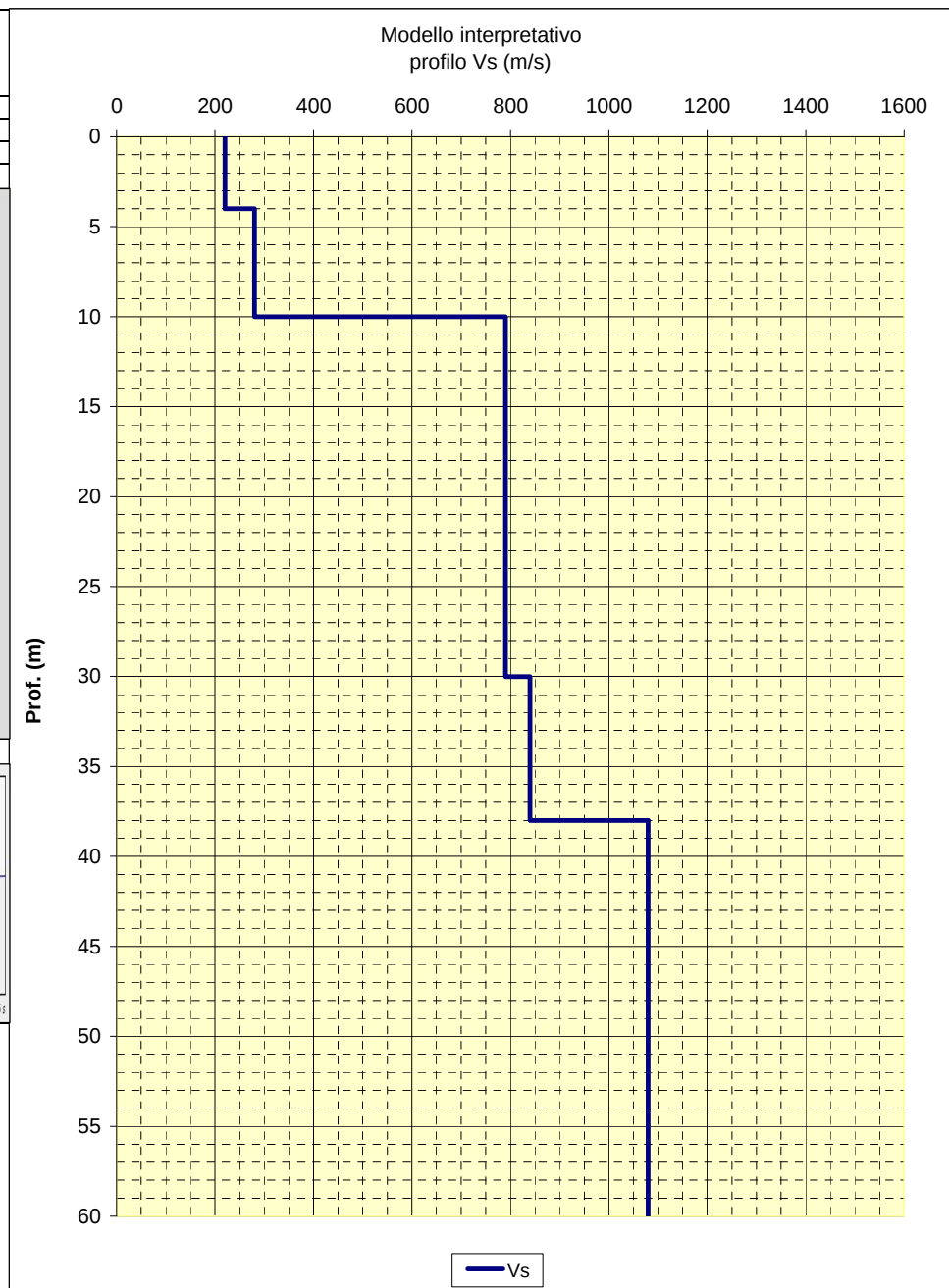
Modello interpretativo
profilo Vs (m/s)

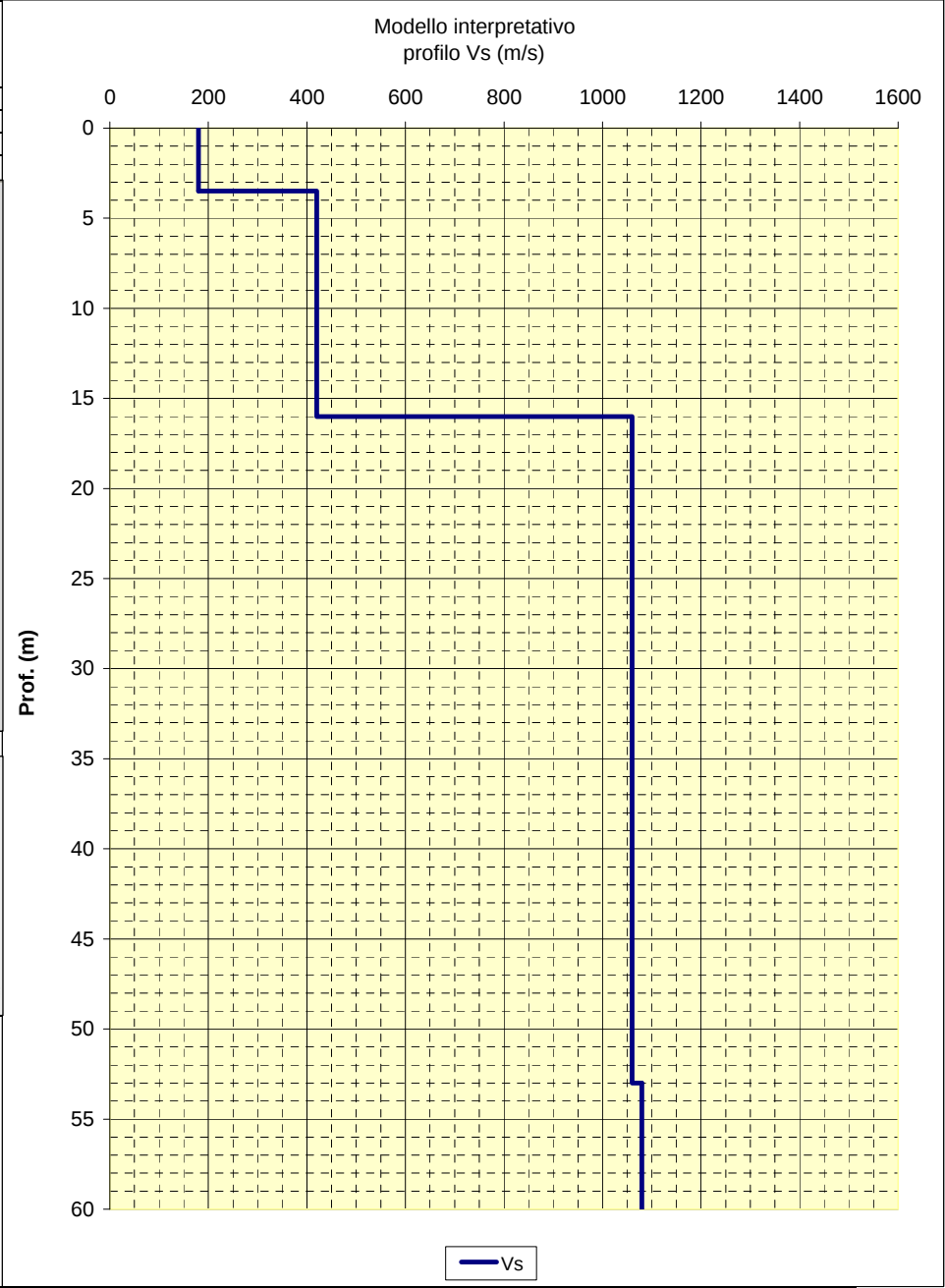
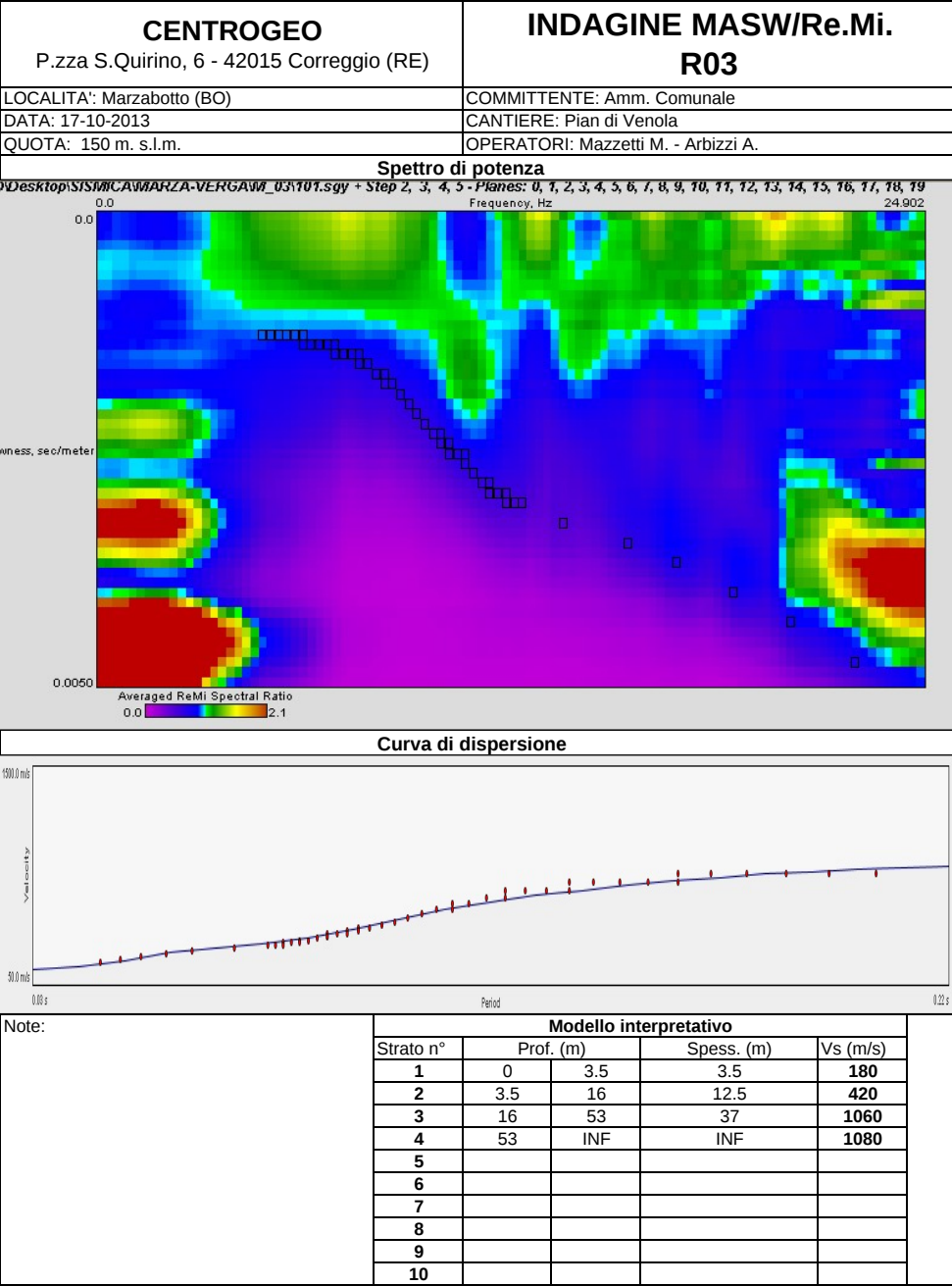


CENTROGEO P.zza S.Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R02
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 17-10-2013	CANTIERE: Sibano
QUOTA: 140 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



Note:	Modello interpretativo			
	Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
	1	0	4	220
	2	4	10	280
	3	10	30	790
	4	30	38	840
	5	38	INF	1080
	6			
	7			
	8			
	9			
	10			





CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R04

LOCALITA': Marzabotto (BO)

DATA: 17-10-2013

QUOTA: 150 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Pian di Venola

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMI\CAVWARZA-VERGAW_04\101.sgy + Step 2, 3, 4, 5 - Files: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

Frequency, Hz

24.902

0.0

0.00666

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

1500.0 m/s

50.0 m/s

0.00 s

0.2 s

Period

Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.5	80
2	1.5	13	360
3	13	18	970
4	18	INF	980
5			
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)

02004006008001000120014001600

05101520253035404550

Prof. (m)

— Vs

CENTROGEO P.zza S.Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R06
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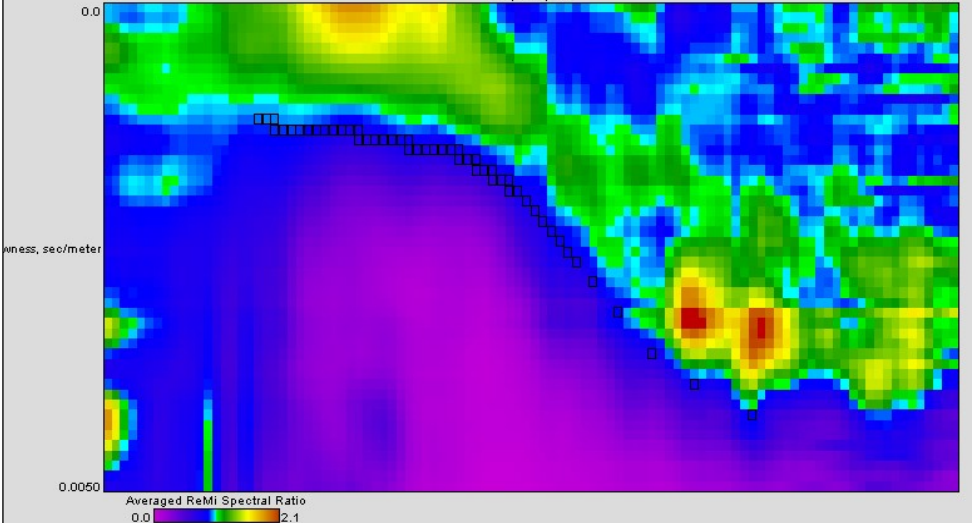
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 17-10-2013	CANTIERE: Marzabotto

QUOTA: 125 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.
Spettro di potenza	

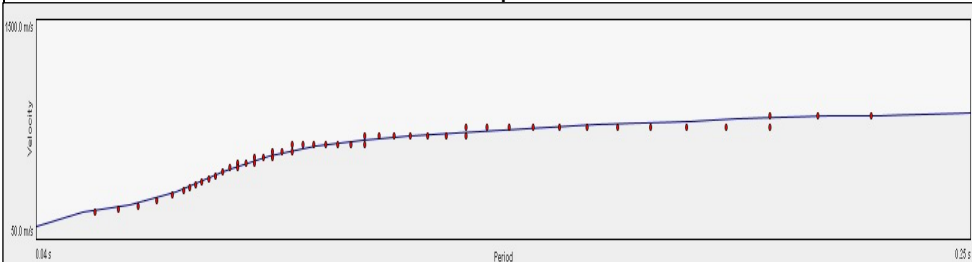
QUOTA: 125 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

Documents and Settings\sgm\CNTRGEO\Desktop\SISSIM\CAVWARZA-VERGAWI_06\101.sgy + Step 2, 3, 4, 5 - Planes: 4, 6, 13, 14, 18, 19



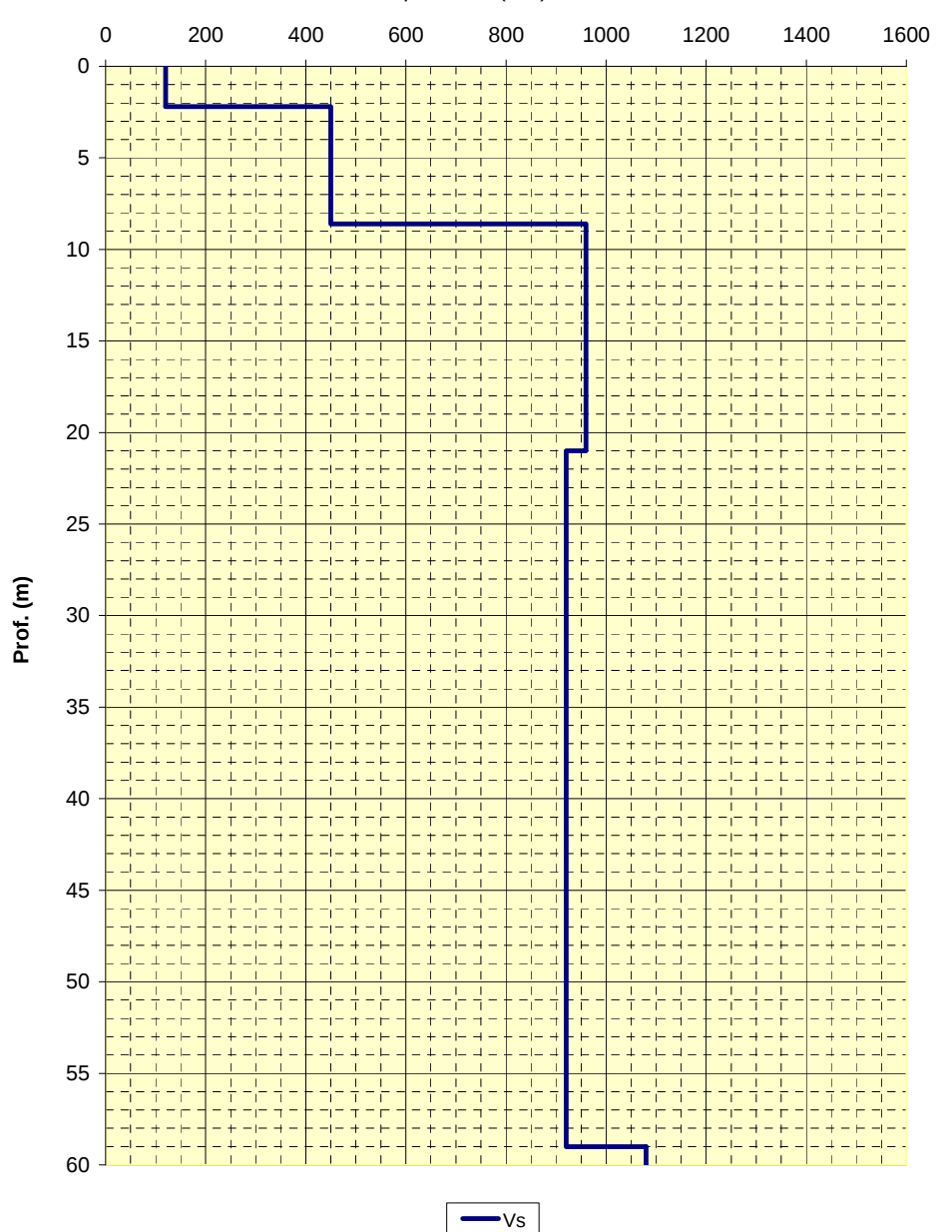
	Curva di dispersione
--	----------------------



Note:	Modello interpretativo	
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Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	2.2	2.2	120
2	2.2	8.6	6.4	450
3	8.6	21	12.4	960
4	21	59	38	920
5	59	INF	INF	1080
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R08

LOCALITA': Marzabotto (BO)

DATA: 17-10-2013

QUOTA: 120 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Marzabotto

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISTEMI\CAVIMARZA-VERGAW_08\707.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

0.0

Frequency, Hz

24.902

4.656E-10

0.00714

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

1500.0 m/s

50.0 m/s

0.04 s

0.2 s

Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.5	60
2	1.5	13	320
3	13	17	760
4	17	19	870
5	19	INF	940
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)

0

200

400

600

800

1000

1200

1400

1600

0

5

10

15

20

25

30

35

40

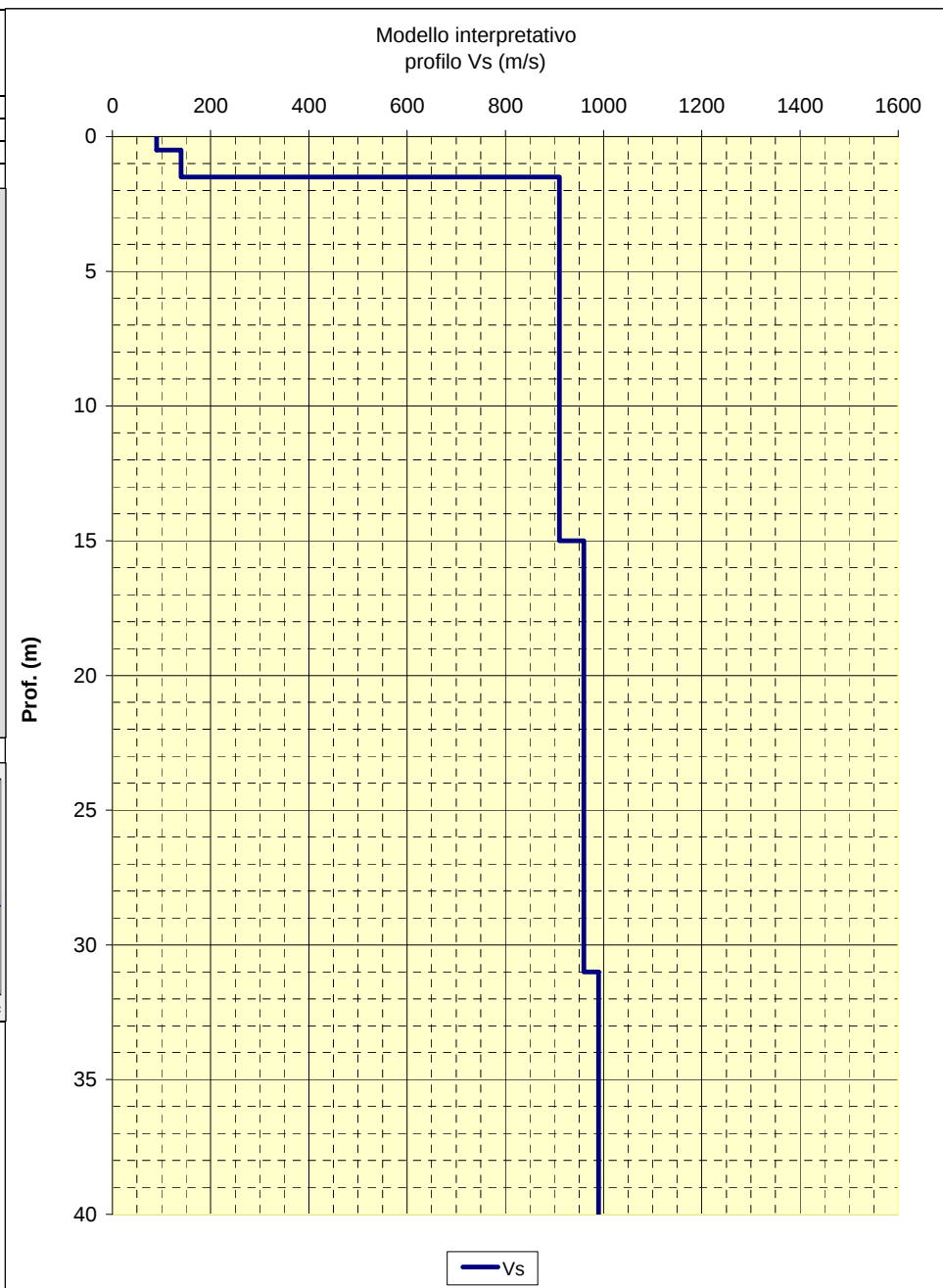
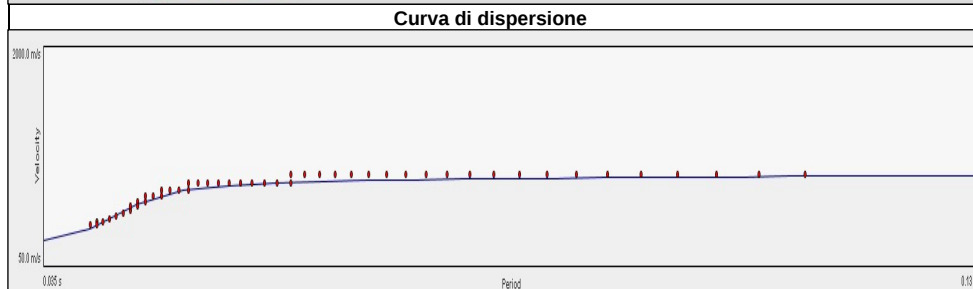
45

50

Prof. (m)

Vs

CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R10
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 17-10-2013	CANTIERE: Bendinella
QUOTA: 150 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R11

LOCALITA': Marzabotto (BO)

DATA: 17-10-2013

QUOTA: 120 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Bendinella

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMICA\MARZA-VERGAW_11\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

0.0

Frequency, Hz

34.932

0.0

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

2000.0 m/s

Velocity

50.0 m/s

0.00 s

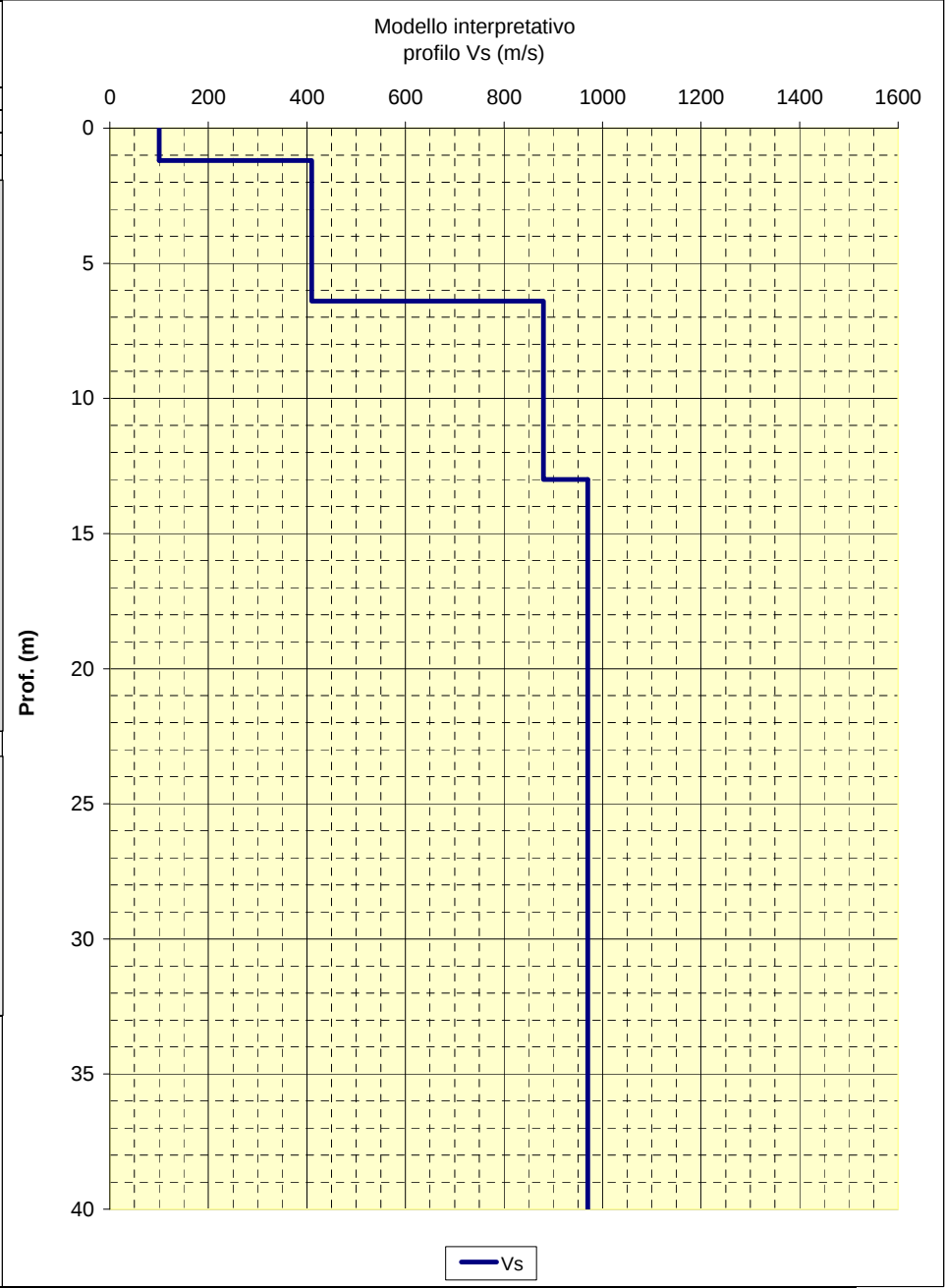
0.16 s

Period

Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.2	1.2
2	1.2	6.4	5.2
3	6.4	13	6.6
4	13	INF	INF
5			
6			
7			
8			
9			
10			



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R12

LOCALITA': Marzabotto (BO)

DATA: 22-10-2013

QUOTA: 185 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Gardelletta

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SIS\MARZABOTTO-VERGAW_12\121.Sgy + Step 2, 3, 4, 5 - Files: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

0.0

Frequency, Hz

34.932

0.0

Power, sec/meter

0.00666

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

1500.0 m/s

Velocity

50.0 m/s

0.00 s

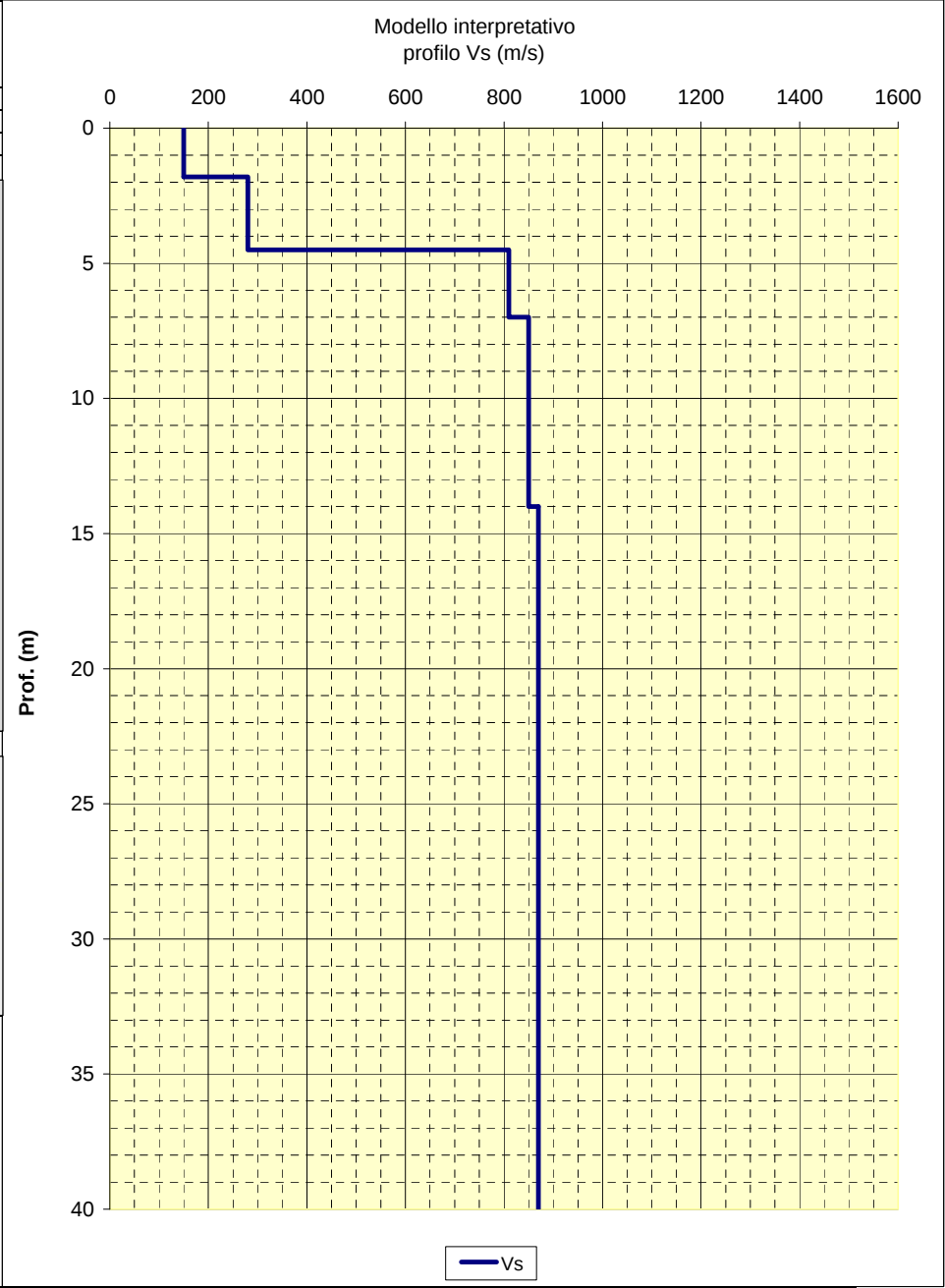
0.10 s

Period

Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.8	150
2	1.8	4.5	280
3	4.5	7	810
4	7	14	850
5	14	INF	870
6			
7			
8			
9			
10			



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R14

LOCALITA': Marzabotto (BO)

DATA: 22-10-2013

QUOTA: 270 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: L'America

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMI\CAVARRZA-VERGAMI_14\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

0.0

Frequency, Hz

29.937

0.0

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

1000.0 ms

50.0 ms

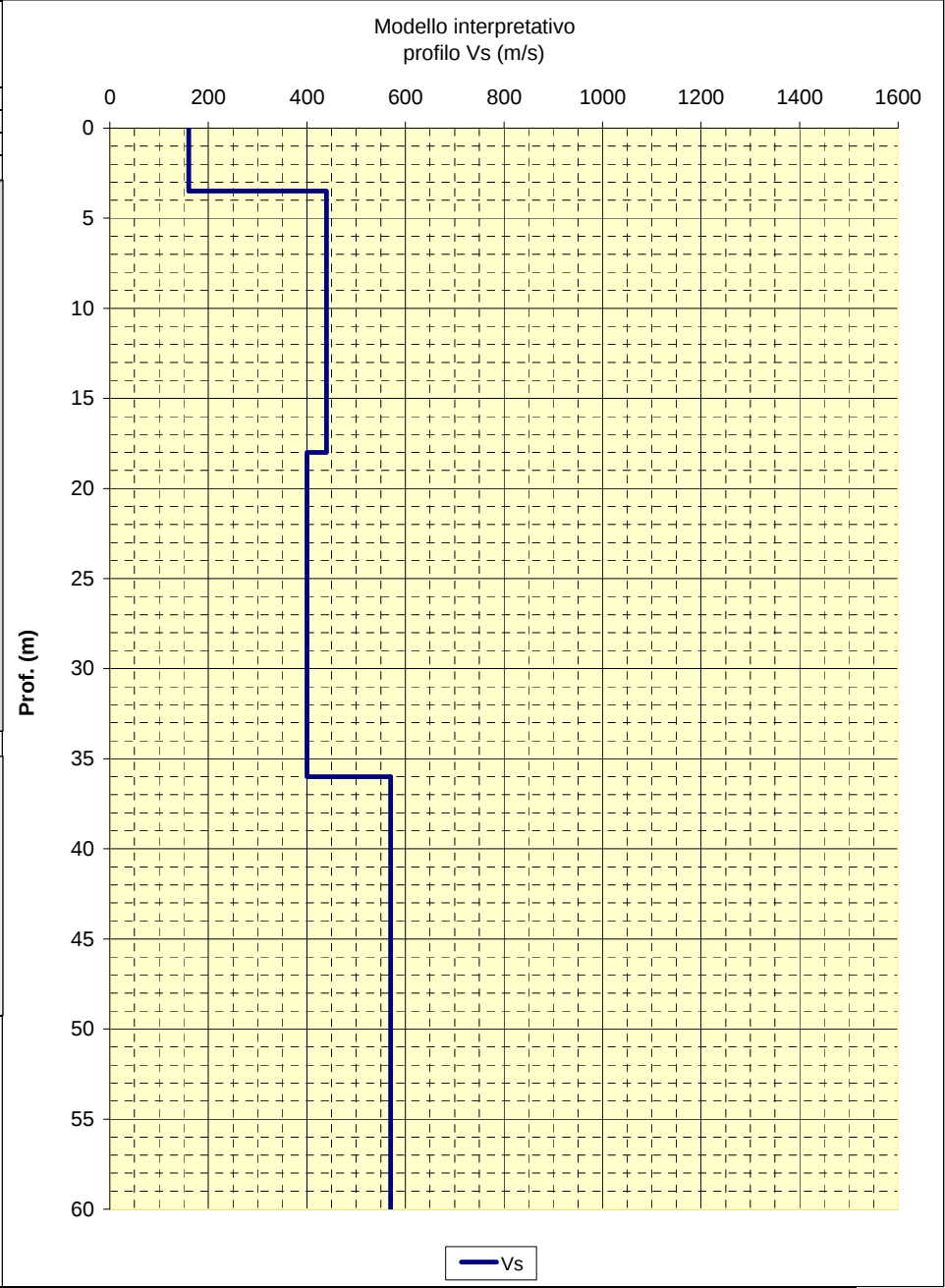
0.02 s

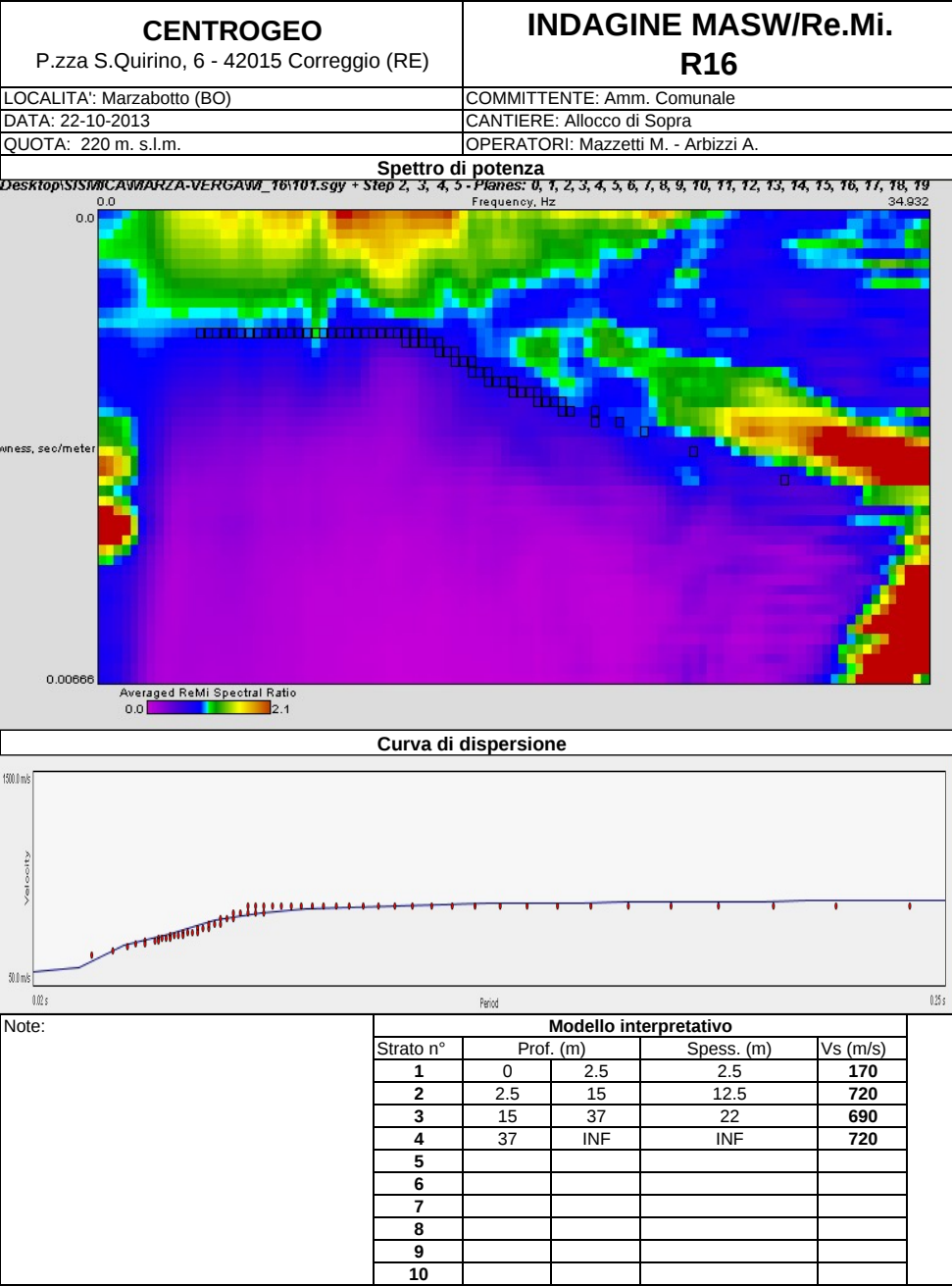
0.5 s

Note:

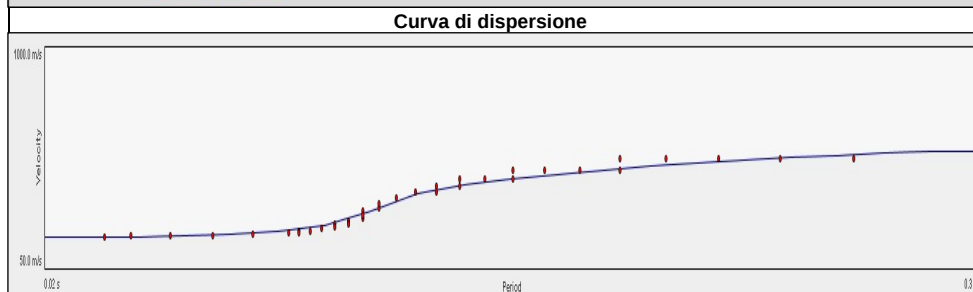
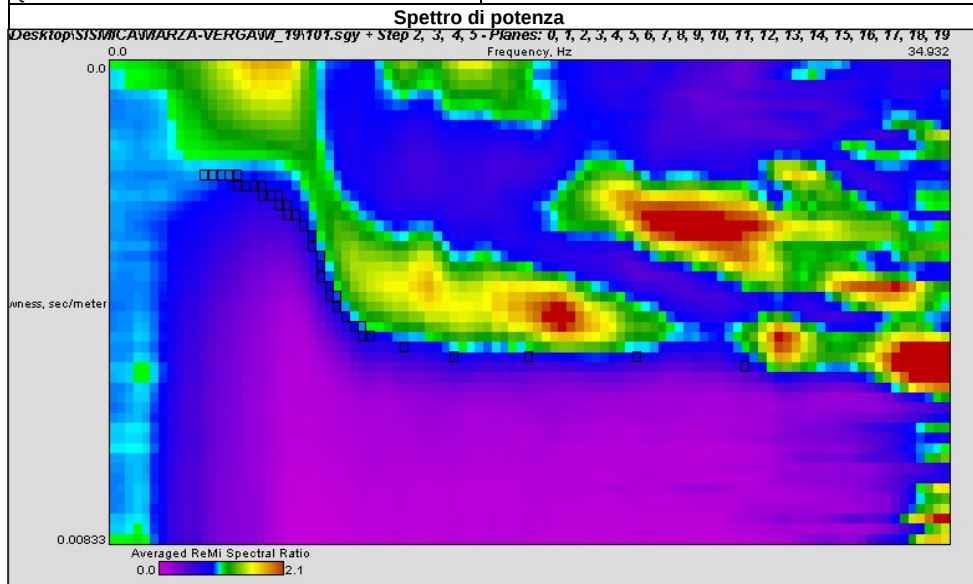
Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	3.5	3.5	160
2	3.5	18	14.5	440
3	18	36	18	400
4	36	INF	INF	570
5				
6				
7				
8				
9				
10				

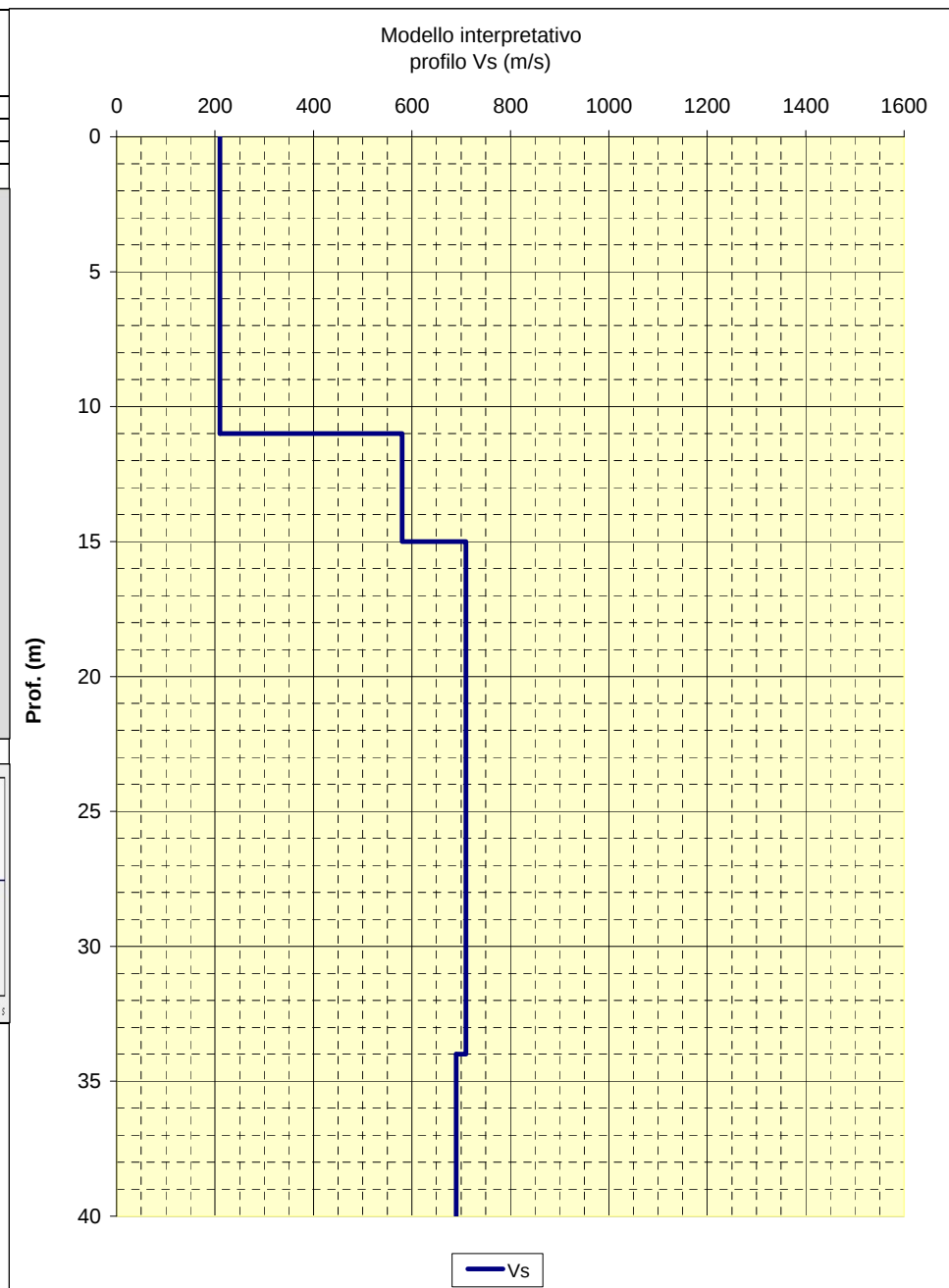




CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R19
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 22-10-2013	CANTIERE: Sirano
QUOTA: 150 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	11	11	210
	2	11	15	4	580
	3	15	34	19	710
	4	34	INF	INF	790
	5				
	6				
	7				
	8				
	9				
	10				



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R20

LOCALITA': Marzabotto (BO)

DATA: 22-10-2013

QUOTA: 140 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Sirano

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMICA\MARZA-VERGAW_20\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

0.0

Frequency, Hz

34.932

0.0

0.00666

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

3000.0 m/s

50.0 m/s

0.02 s

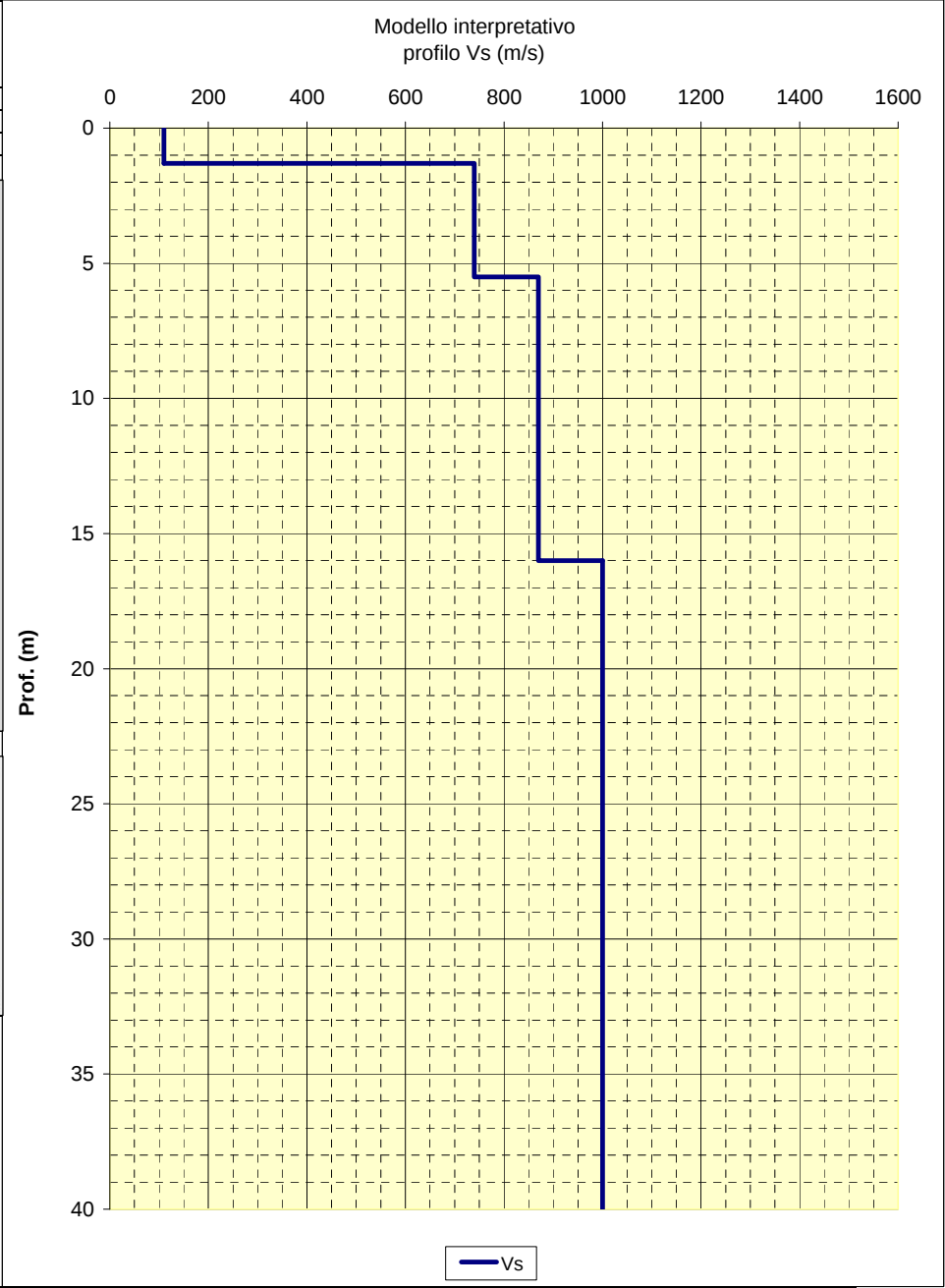
0.15 s

Period

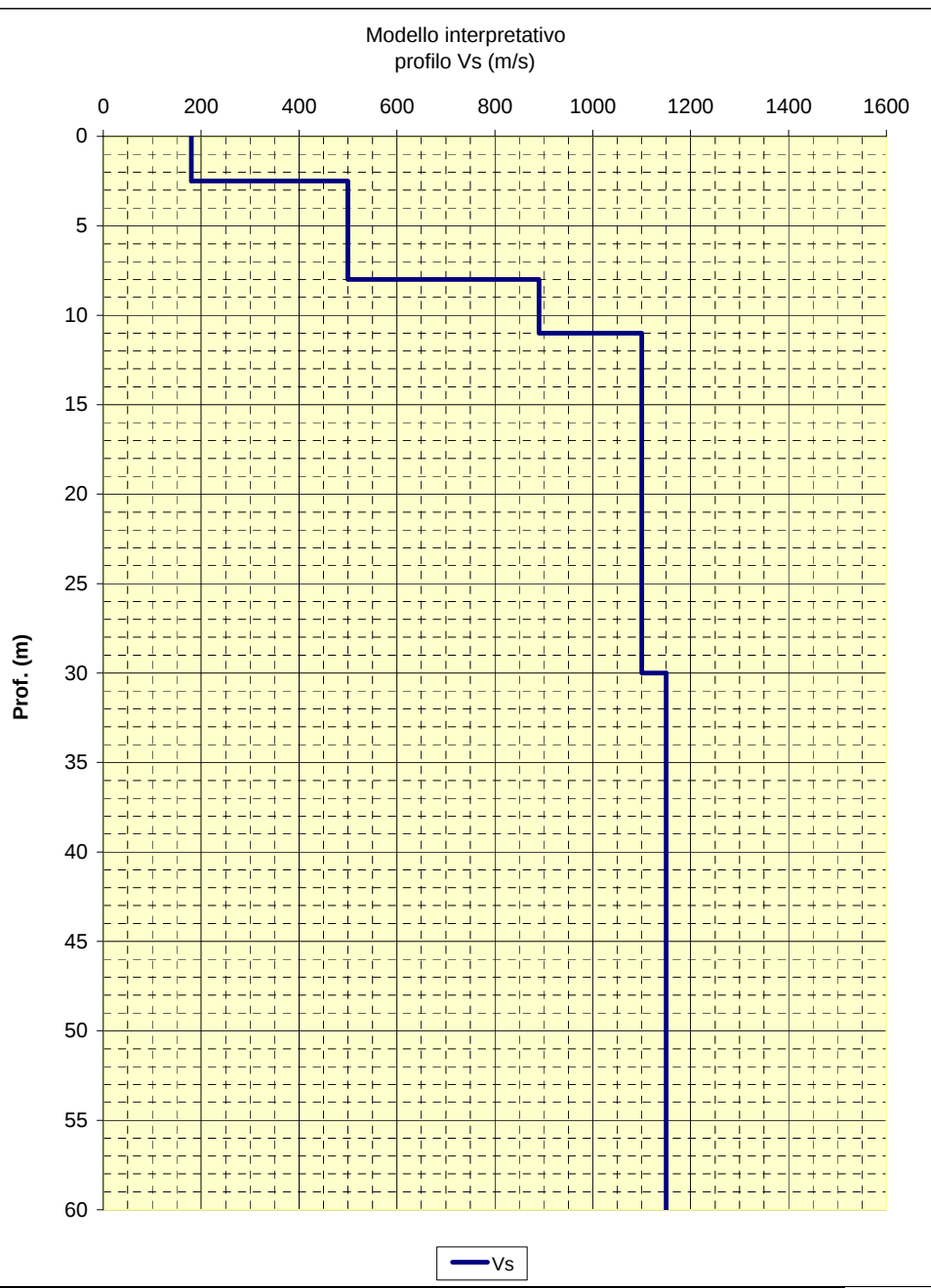
Note:

Modello interpretativo

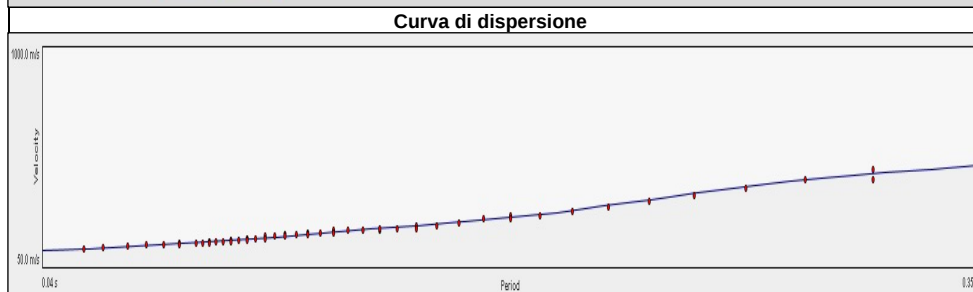
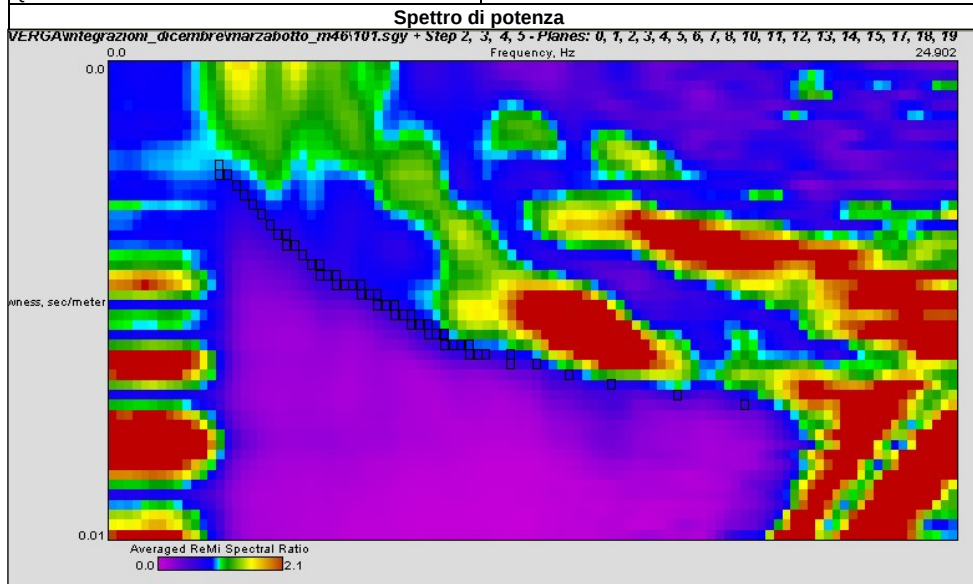
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.3	110
2	1.3	5.5	740
3	5.5	16	870
4	16	INF	1000
5			
6			
7			
8			
9			
10			



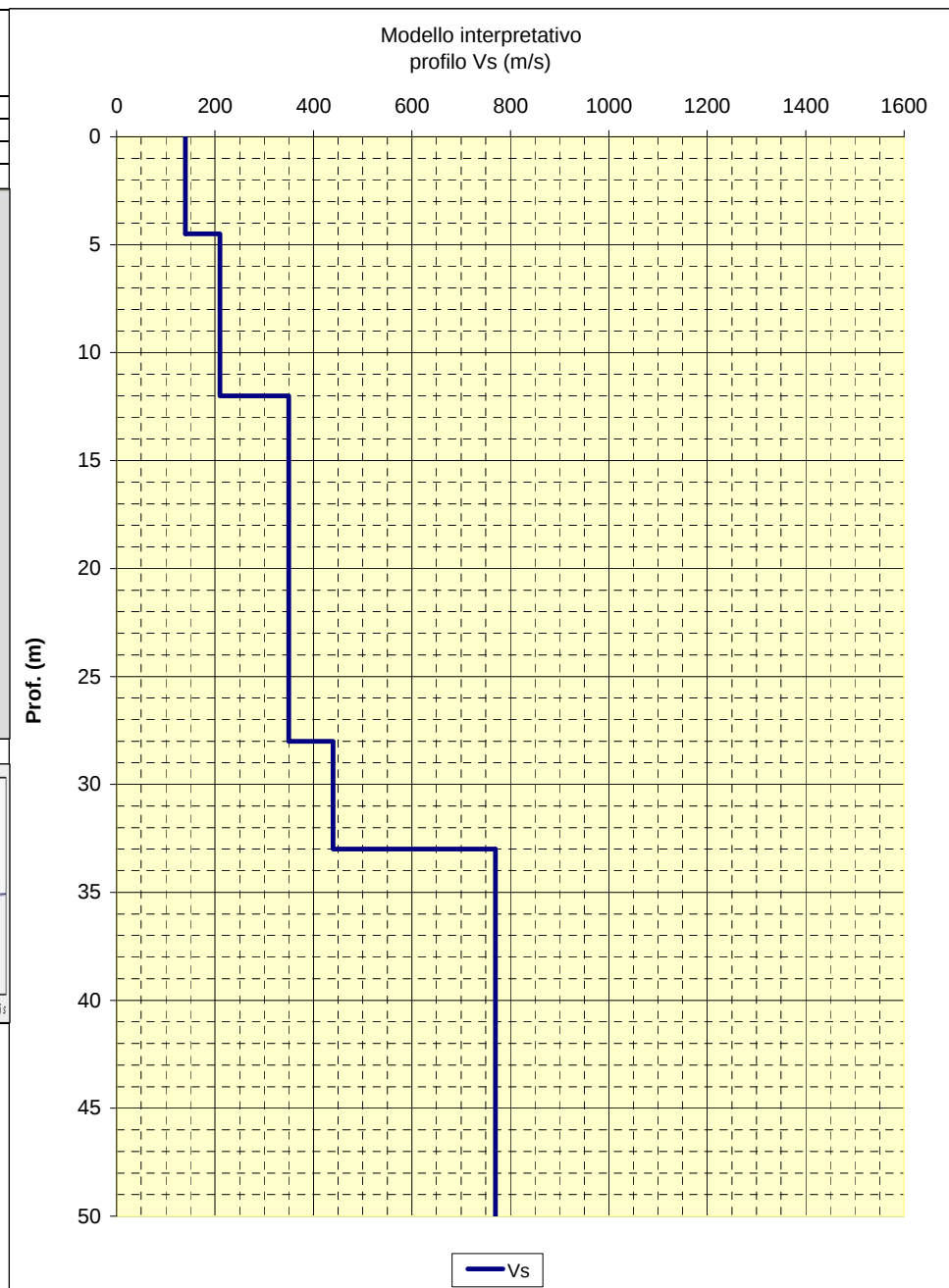
— V_S

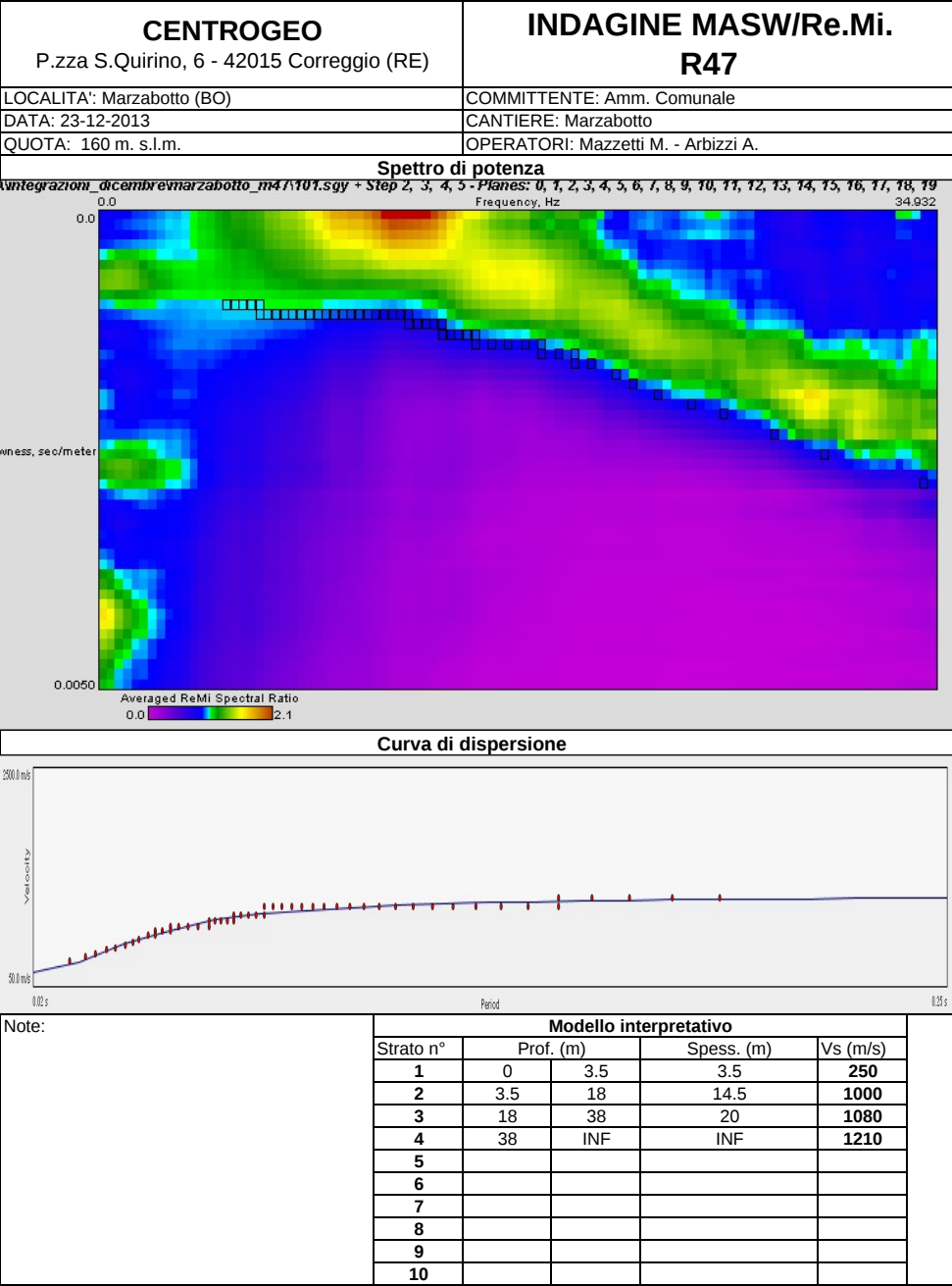


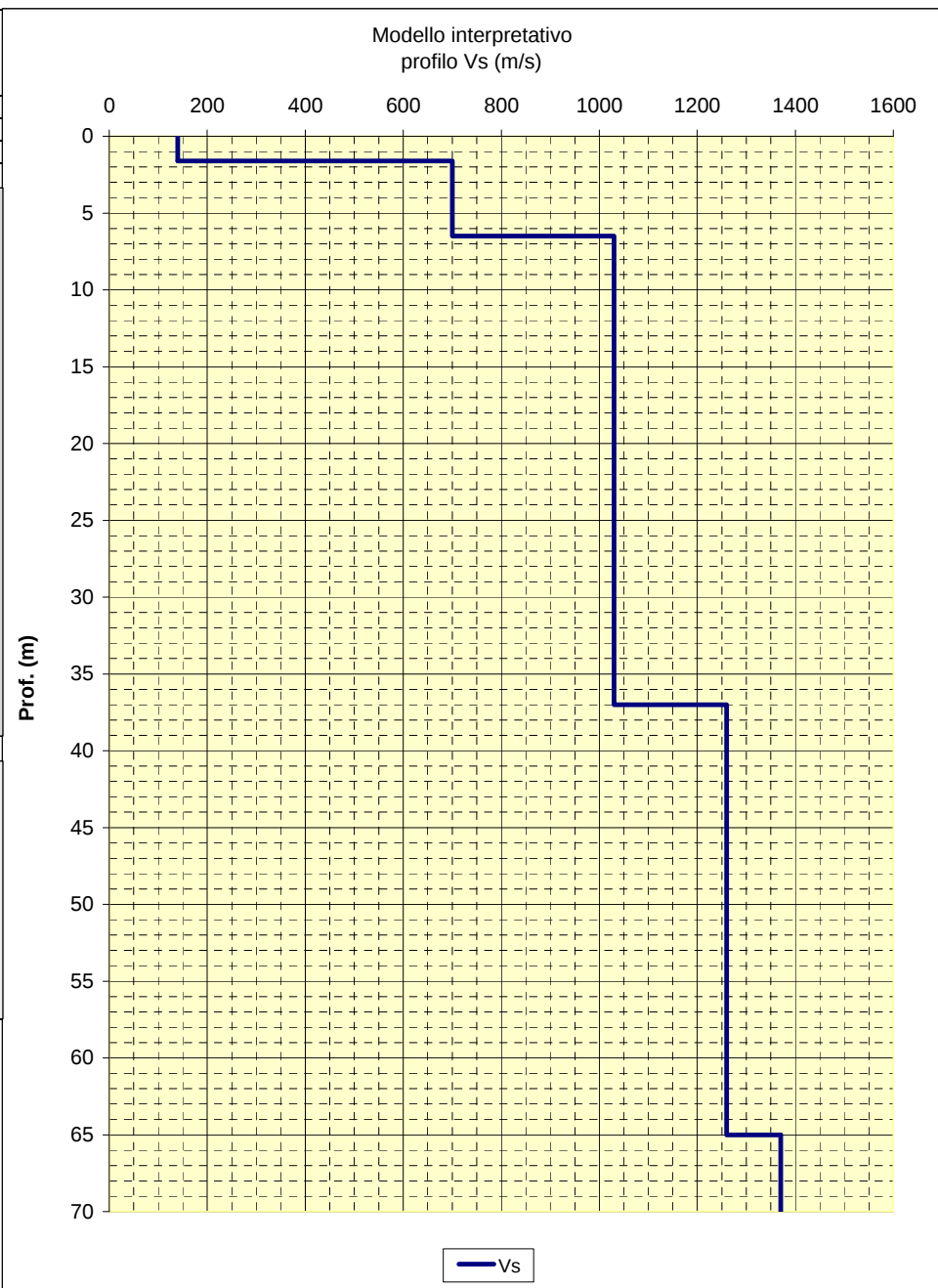
CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R46
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-12-2013	CANTIERE: Pian di Venola
QUOTA: 160 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



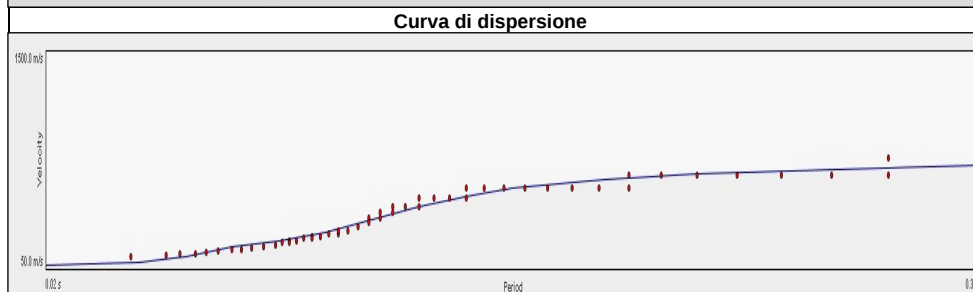
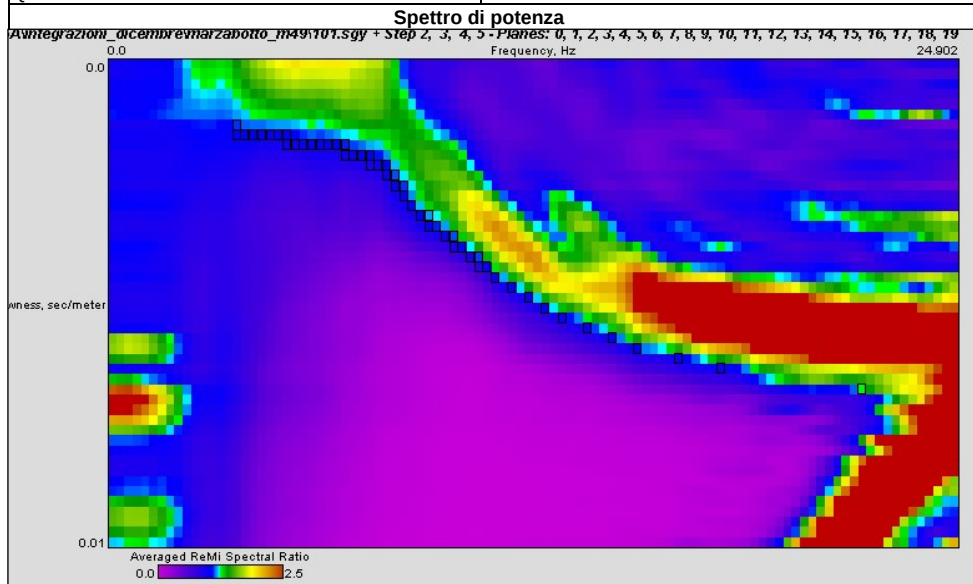
Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	4.5	4.5	140
	2	4.5	12	7.5	210
	3	12	28	16	350
	4	28	33	5	440
	5	33	INF	INF	770
	6				
	7				
	8				
	9				
	10				



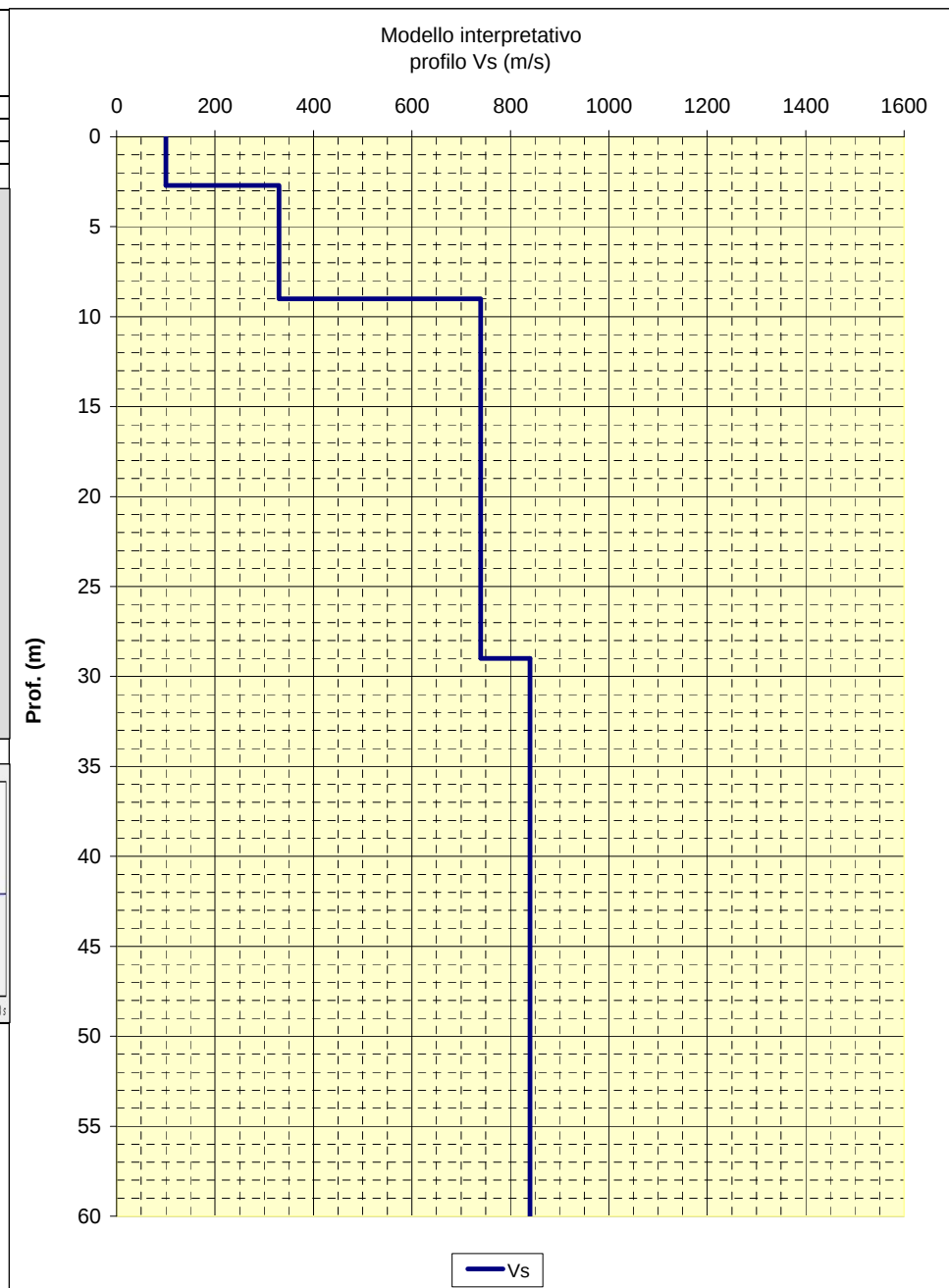




CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R49
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-12-2013	CANTIERE: La Cà
QUOTA: 150 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	2.7	2.7	100
	2	2.7	9	6.3	330
	3	9	29	20	740
	4	29	INF	INF	840
	5				
	6				
	7				
	8				
	9				
	10				



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R50

LOCALITA': Marzabotto (BO)

DATA: 23-12-2013

QUOTA: 160 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Sirano

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Avantaggiamenti: m50v107.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

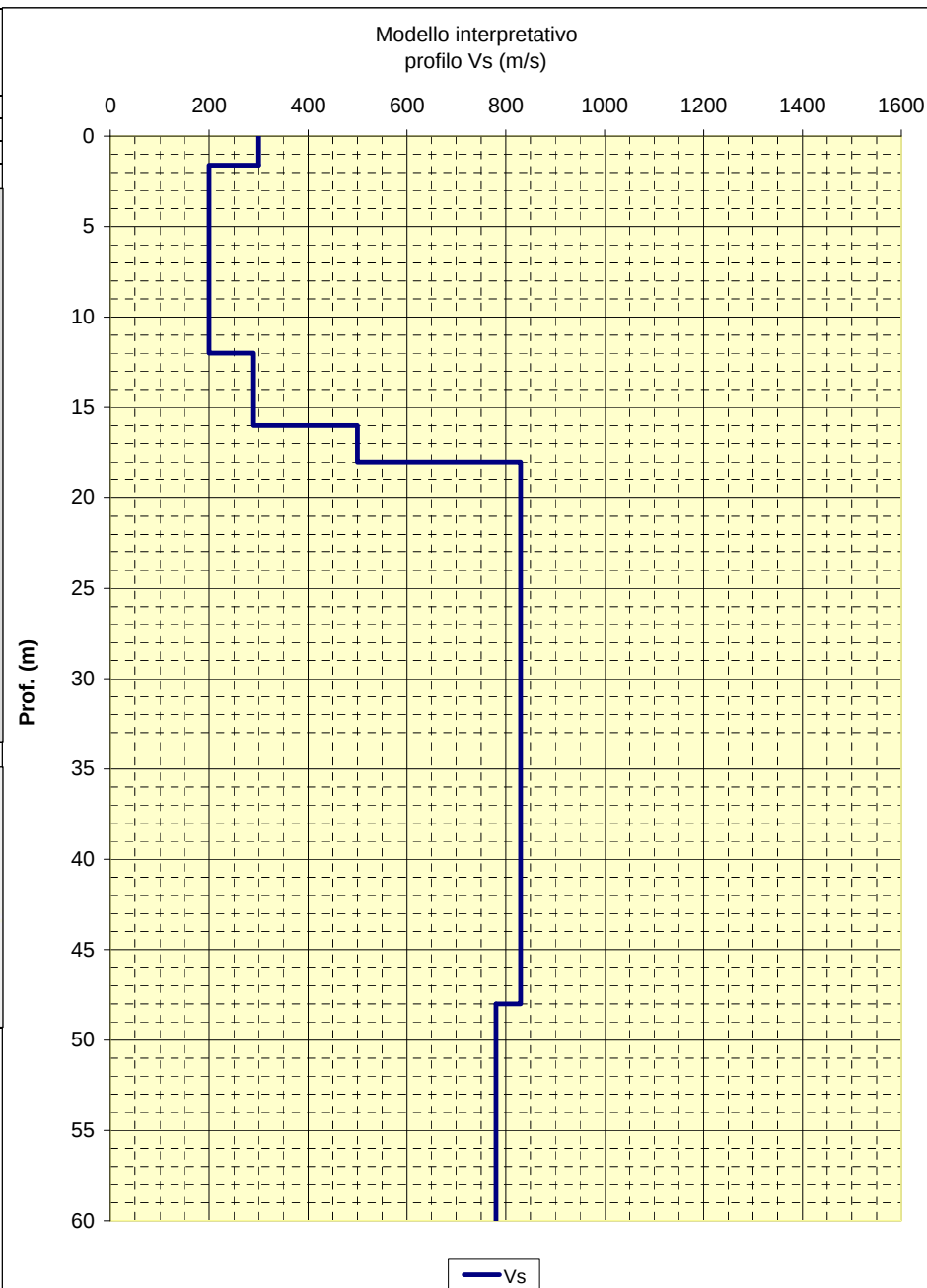
Curva di dispersione

Note:

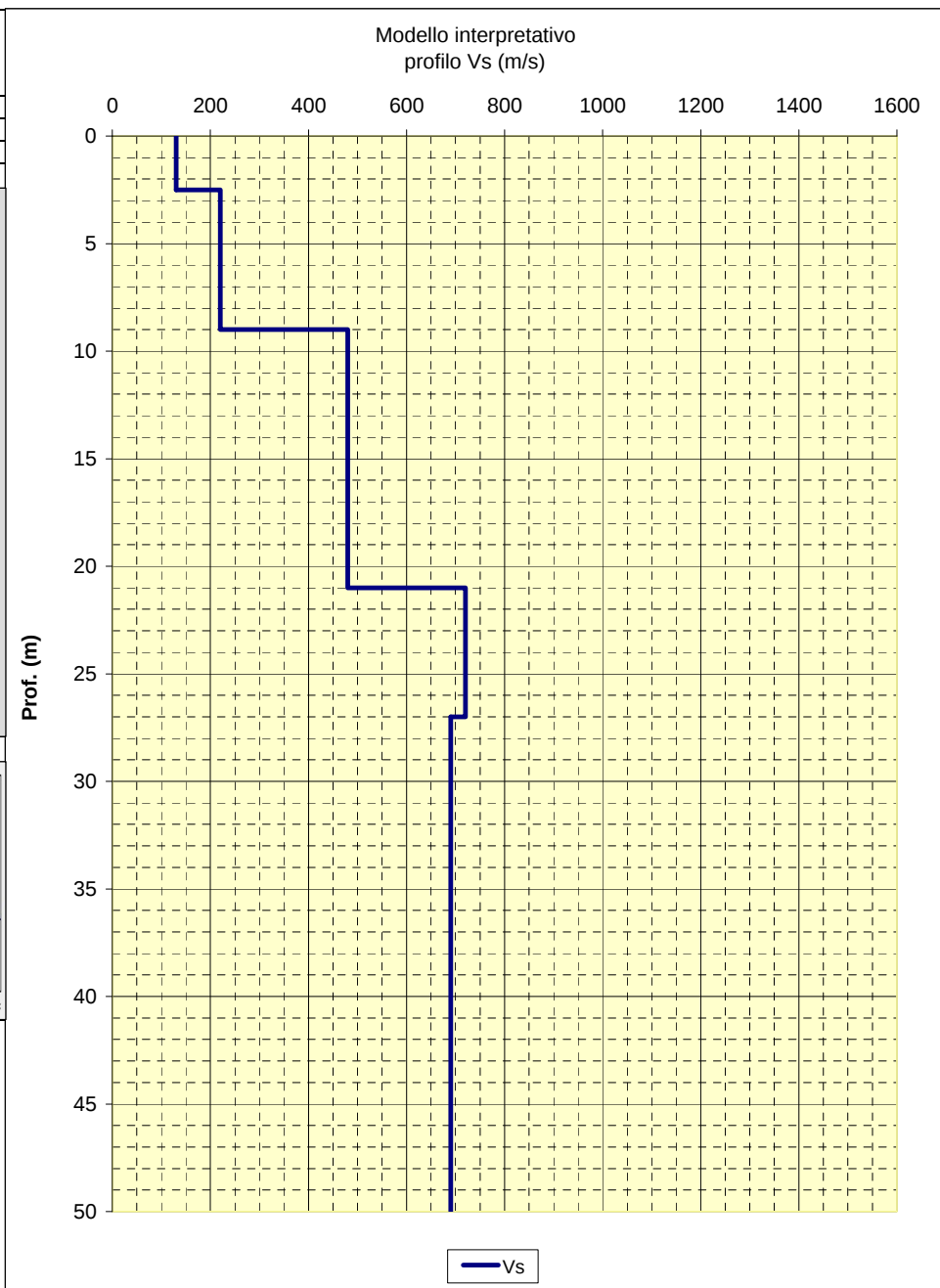
Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	1	1	380
2	1	11.5	10.5	260
3	11.5	15	3.5	450
4	15	24	9	970
5	24	INF	INF	1090
6				
7				
8				
9				
10				

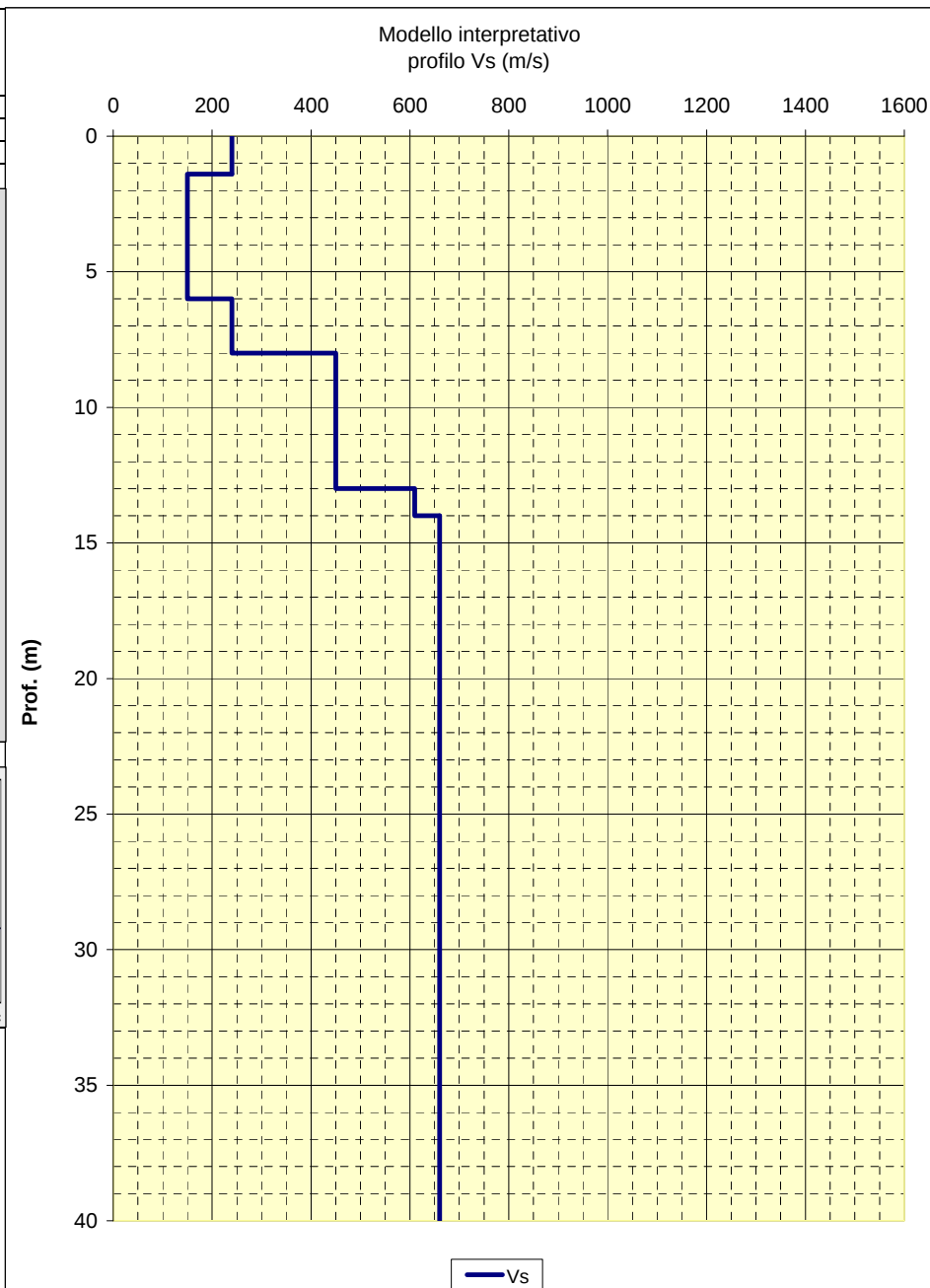
Modello interpretativo
profilo Vs (m/s)

— Vs

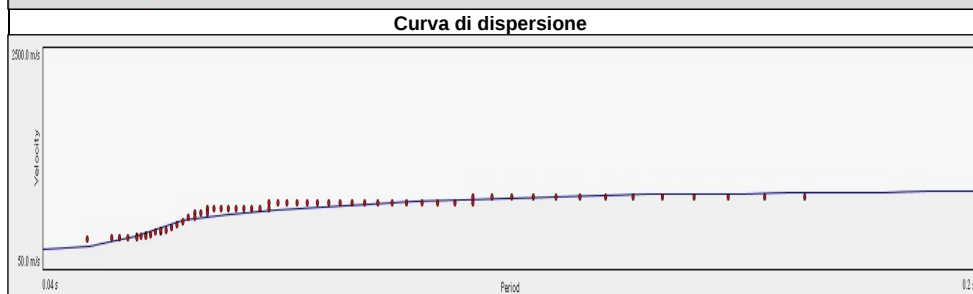
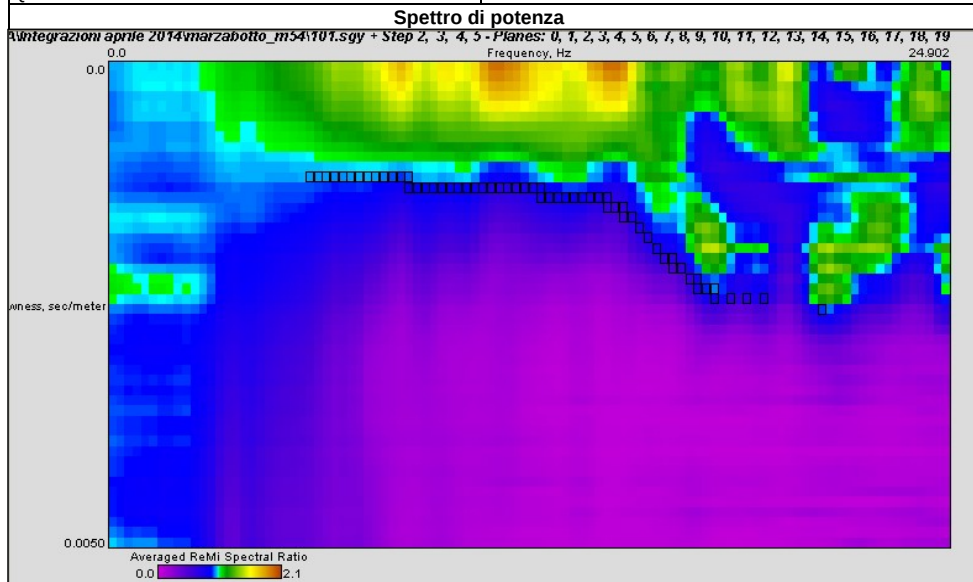


CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R52
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 08-04-2014	CANTIERE: Pian di Venola
QUOTA: 149 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

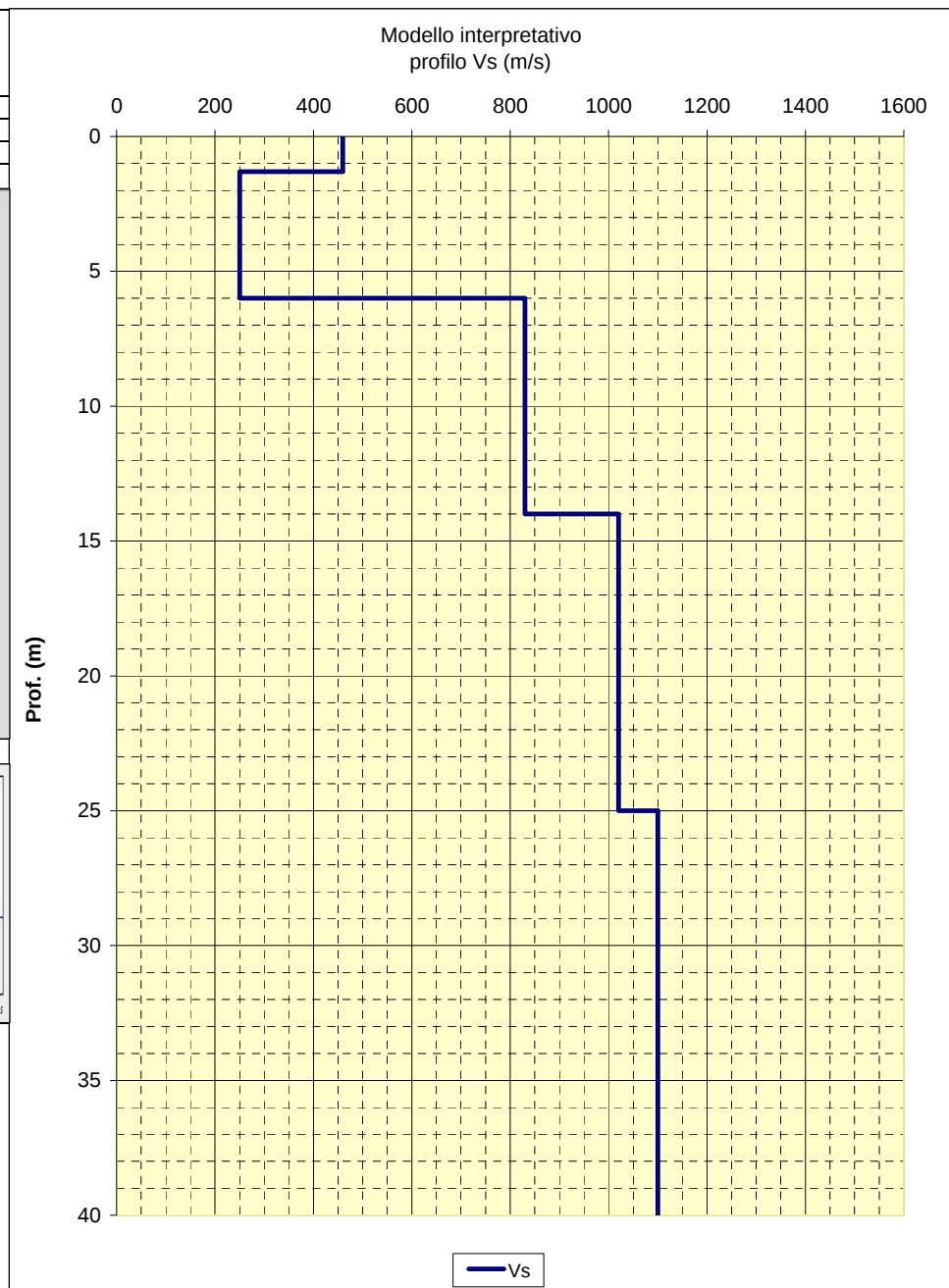




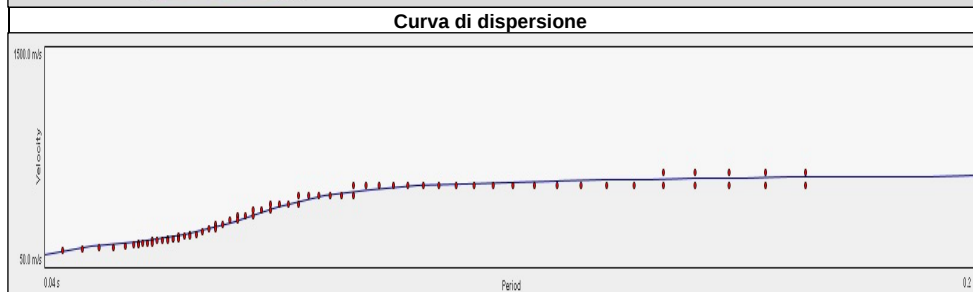
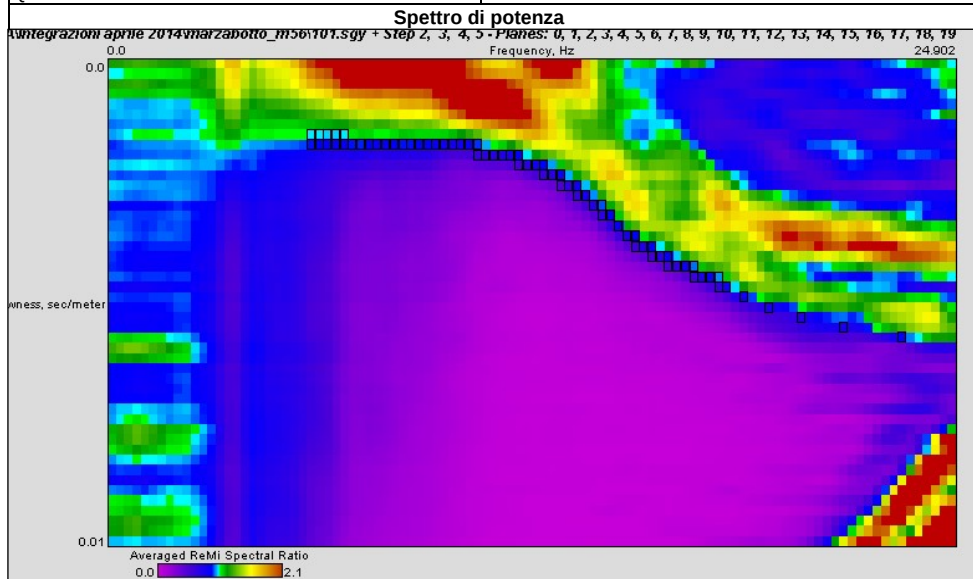
CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R54
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 08-04-2014	CANTIERE: Sassello
QUOTA: 126 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



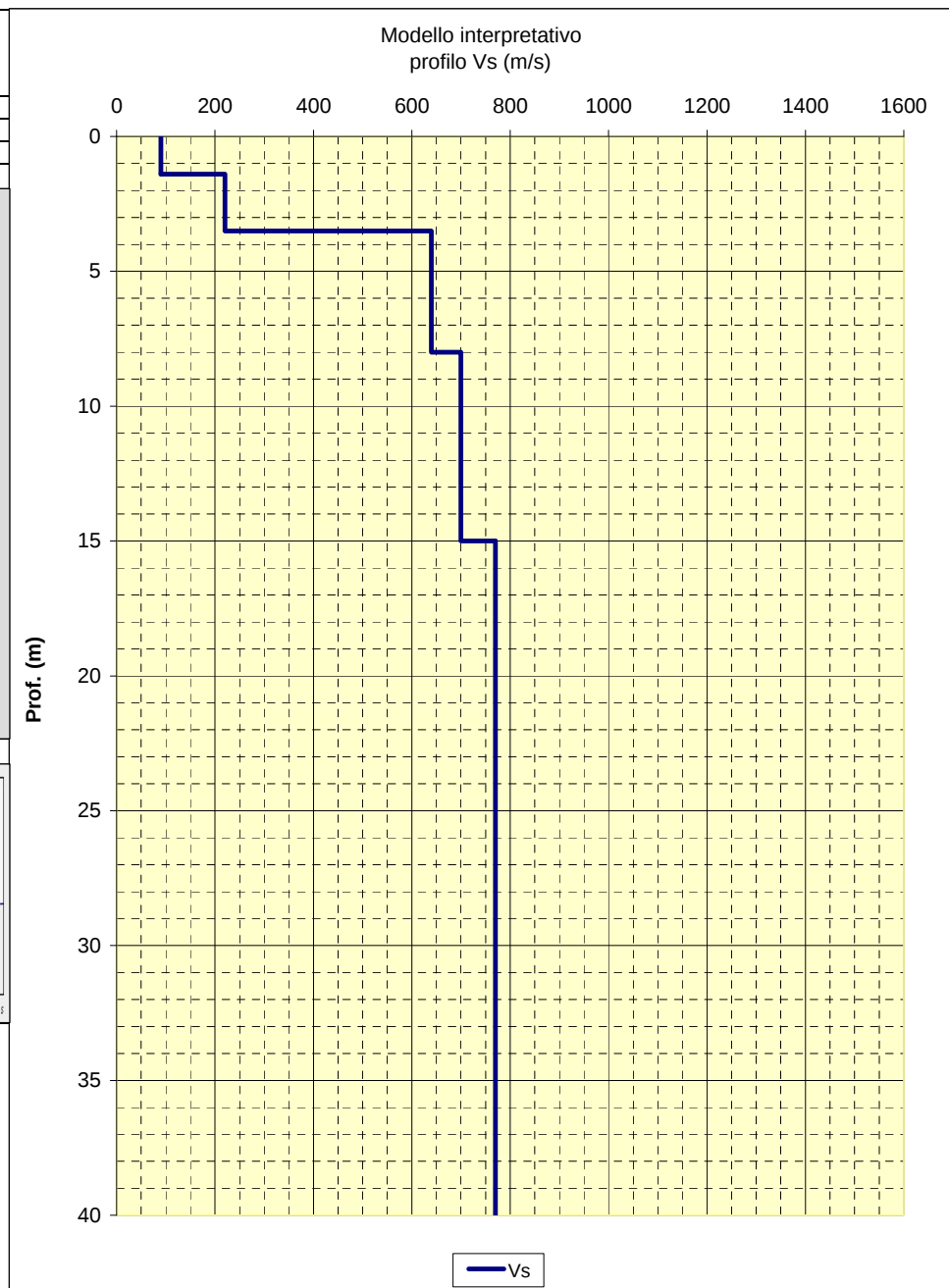
Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	1.3	1.3	460
	2	1.3	6	4.7	250
	3	6	14	8	830
	4	14	25	11	1020
	5	25	INF	INF	1100
	6				
	7				
	8				
	9				
	10				



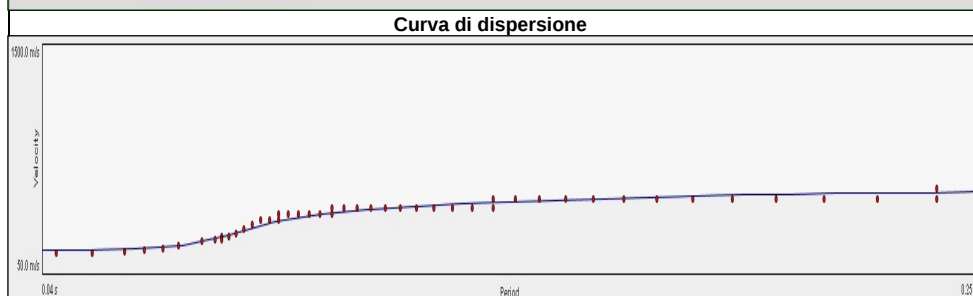
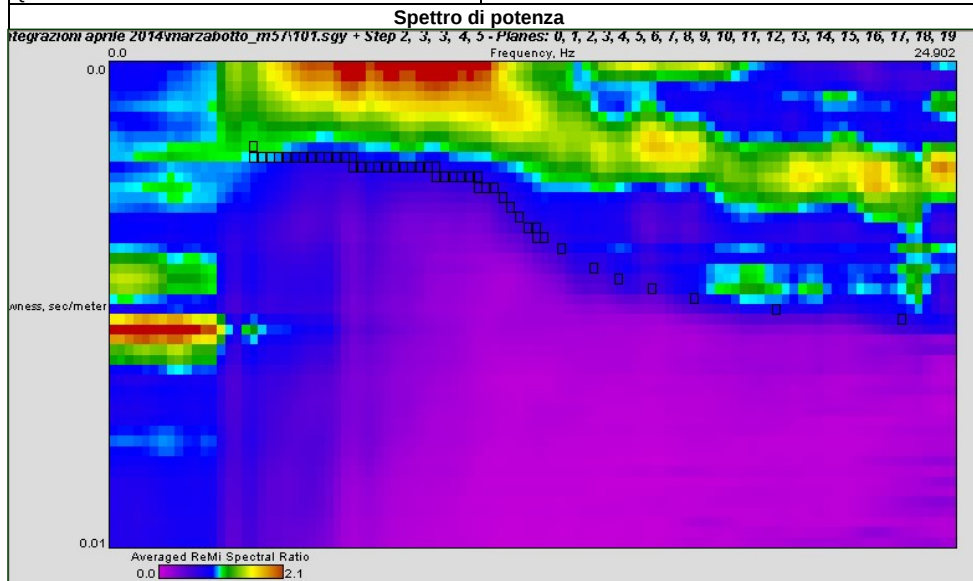
CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R56
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 08-04-2014	CANTIERE: Sassetto
QUOTA: 126 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



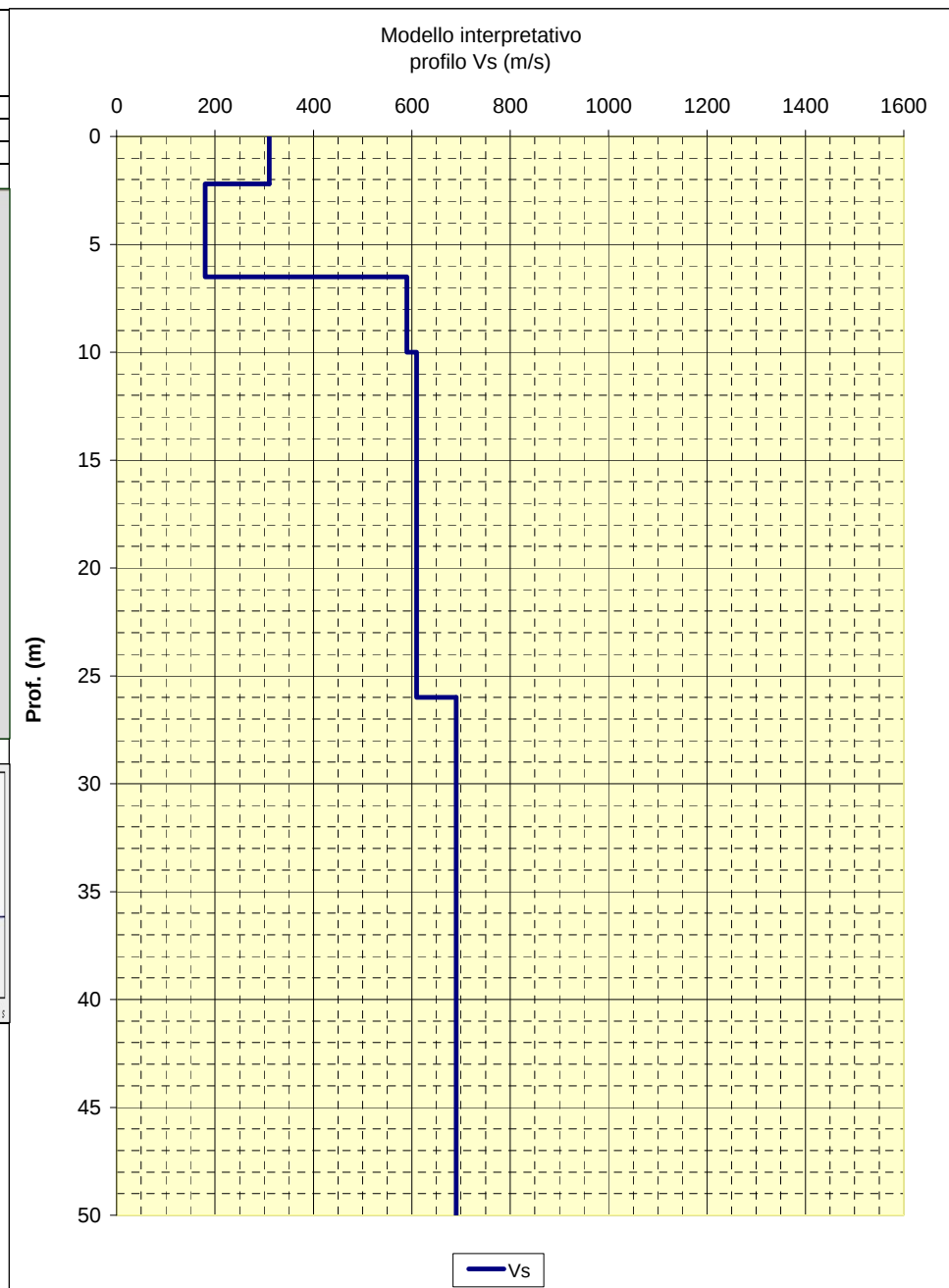
Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	1.4	1.4	90
	2	1.4	3.5	2.1	220
	3	3.5	8	4.5	640
	4	8	15	7	700
	5	15	INF	INF	770
	6				
	7				
	8				
	9				
	10				



CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R57
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 08-04-2014	CANTIERE: Sassello
QUOTA: 126 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	2.2	2.2	310
	2	2.2	6.5	4.3	180
	3	6.5	10	3.5	590
	4	10	26	16	610
	5	26	INF	INF	690
	6				
	7				
	8				
	9				
	10				



INDAGINI GEOFISICHE HVSr

STUDIO GEOLOGICO CENTROGEO

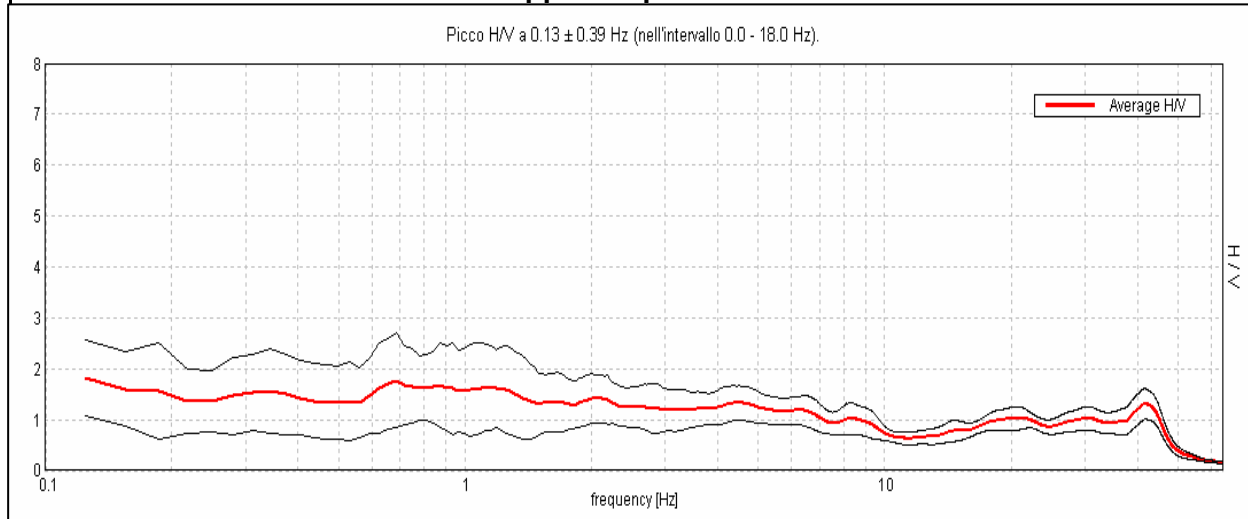
42015 Correggio (RE) - Piazza S. Quirino, 6 - tel 0522/641001 - Fax: 632162

STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H01
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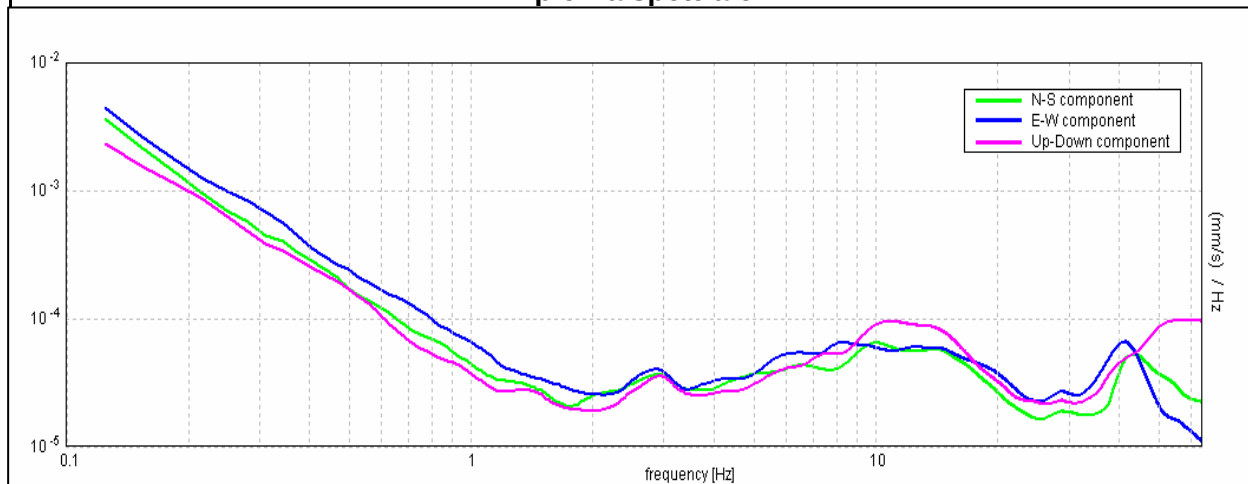
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Pioppe di Salvaro
QUOTA: 135 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

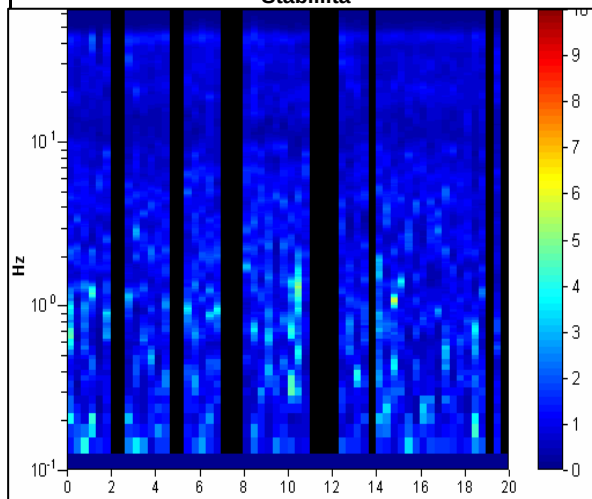
Rapporto spettrale



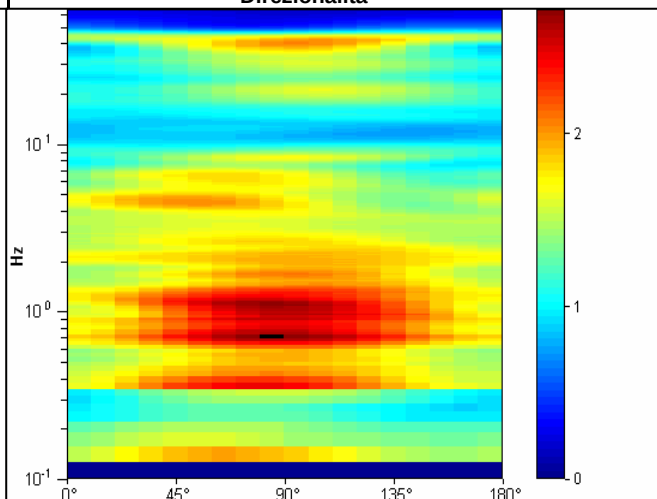
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H02

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Sibano

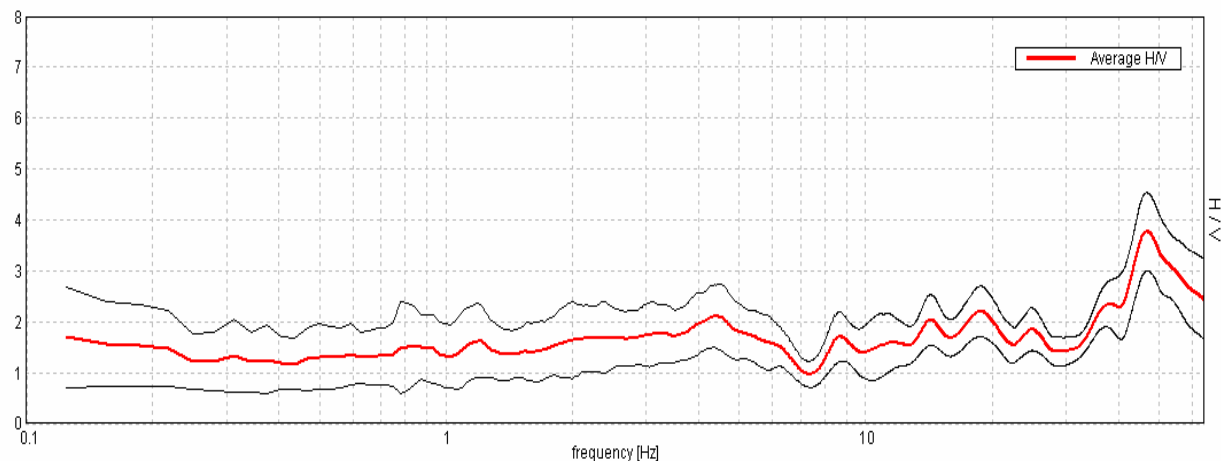
QUOTA: 140 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

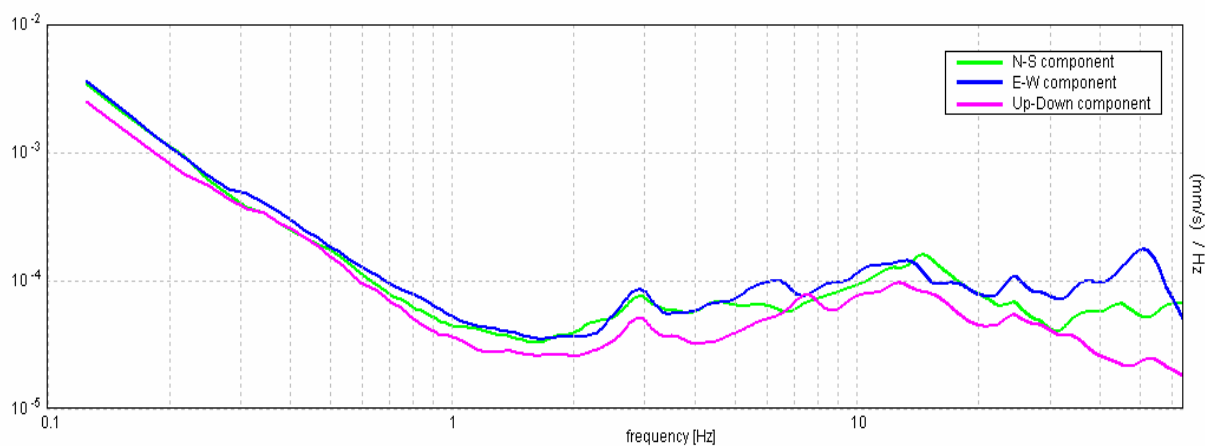
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

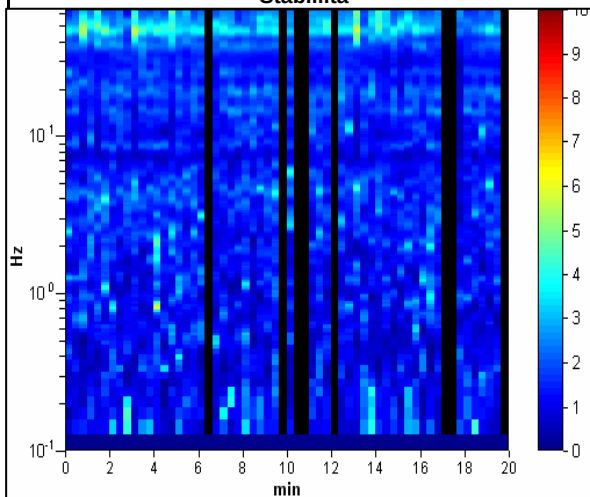
Max. HV at 4.38 ± 2.02 Hz. (In the range 0.0 - 18.0 Hz).



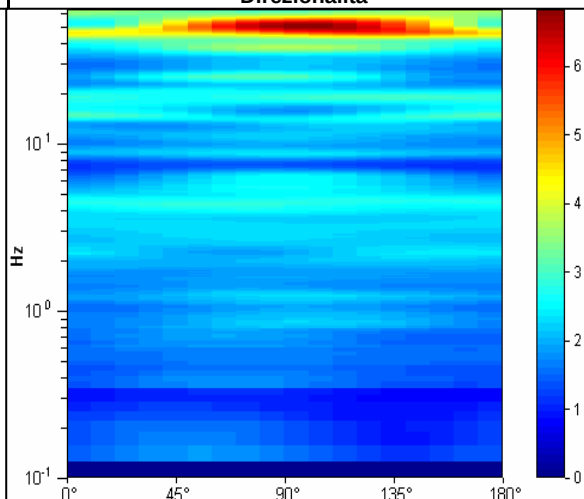
Ampiezza spettrale



Stabilità



Direzionalità



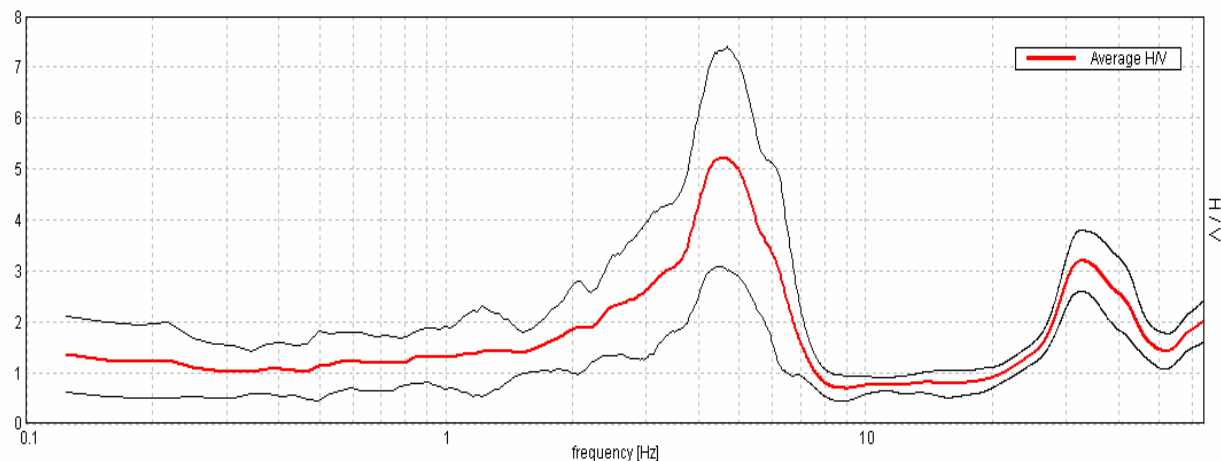
STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H03
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LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Pian di Venola
QUOTA: 150 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

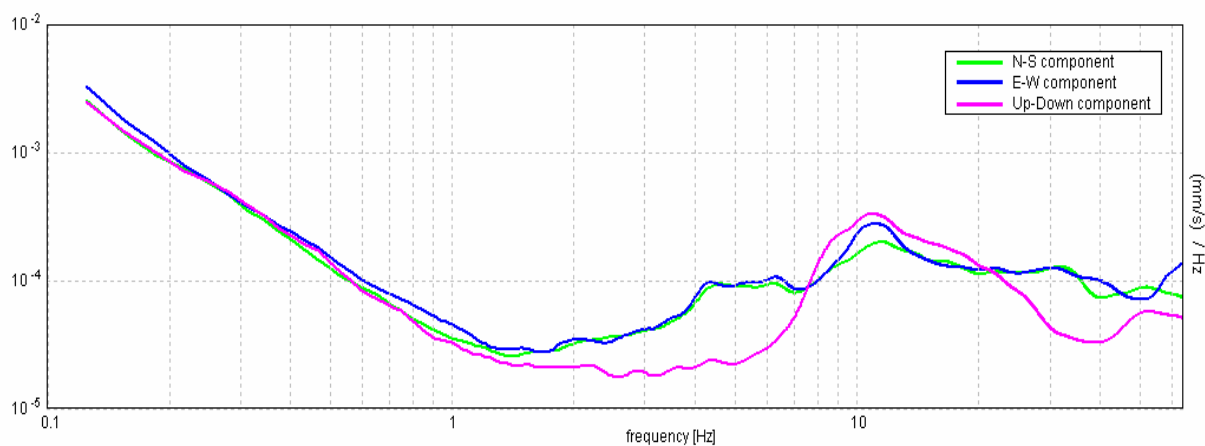
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

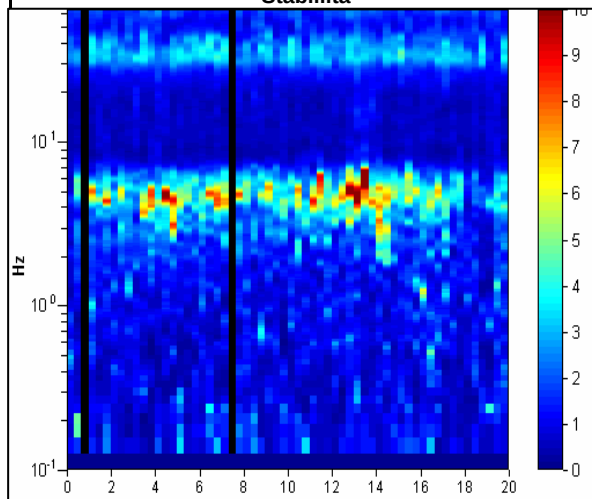
Picco H/V a 4.5 ± 0.78 Hz (nell'intervallo 0.0 - 18.0 Hz).



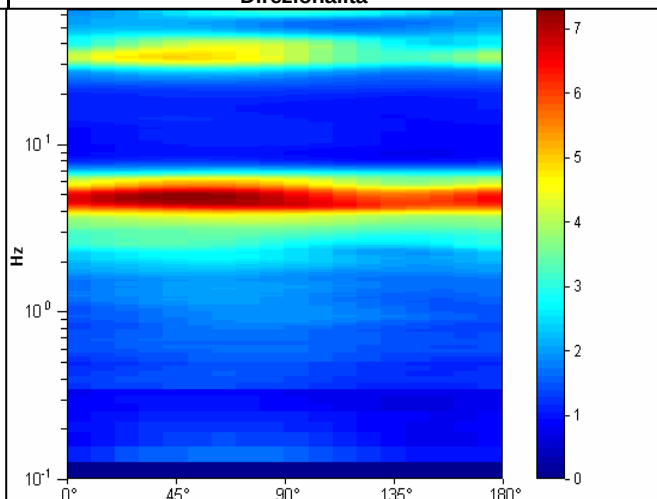
Ampiezza spettrale



Stabilità



Direzionalità

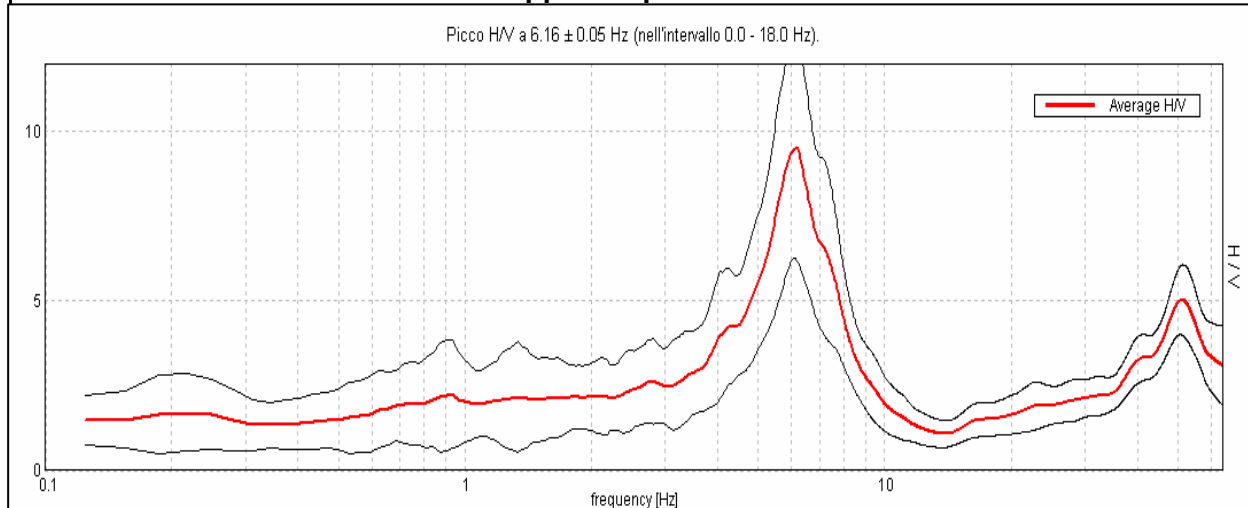


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H04
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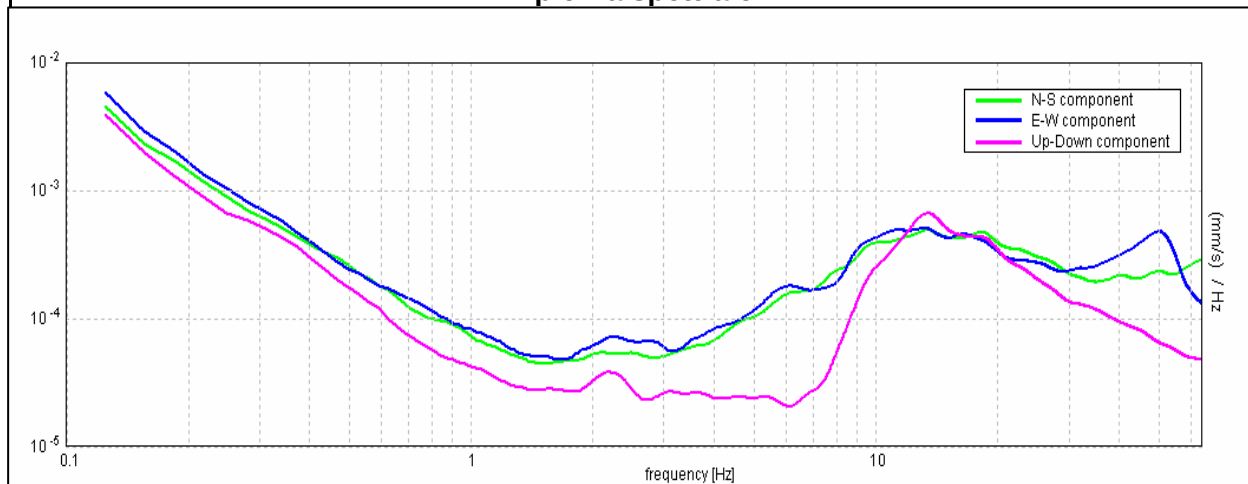
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Pian di Venola
QUOTA: 150 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

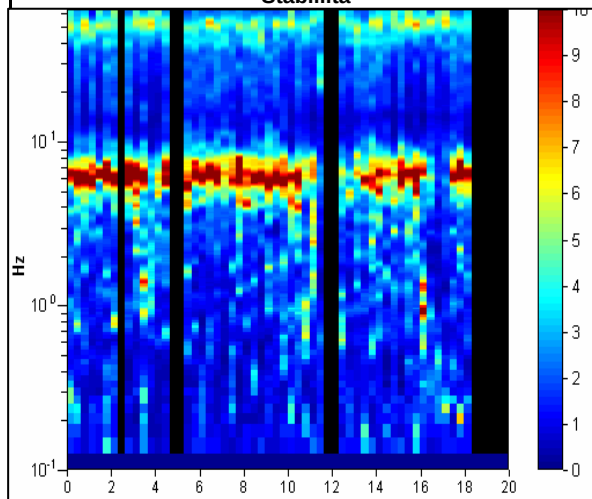
Rapporto spettrale



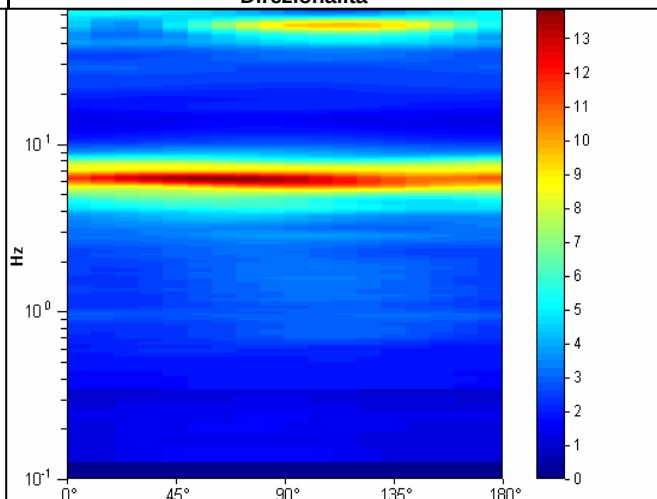
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H05

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

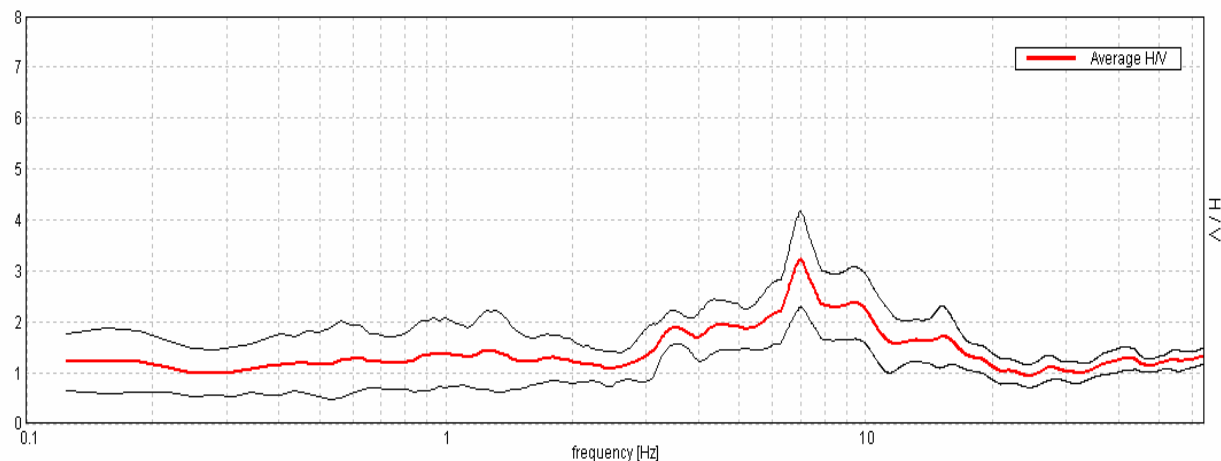
QUOTA: 130 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

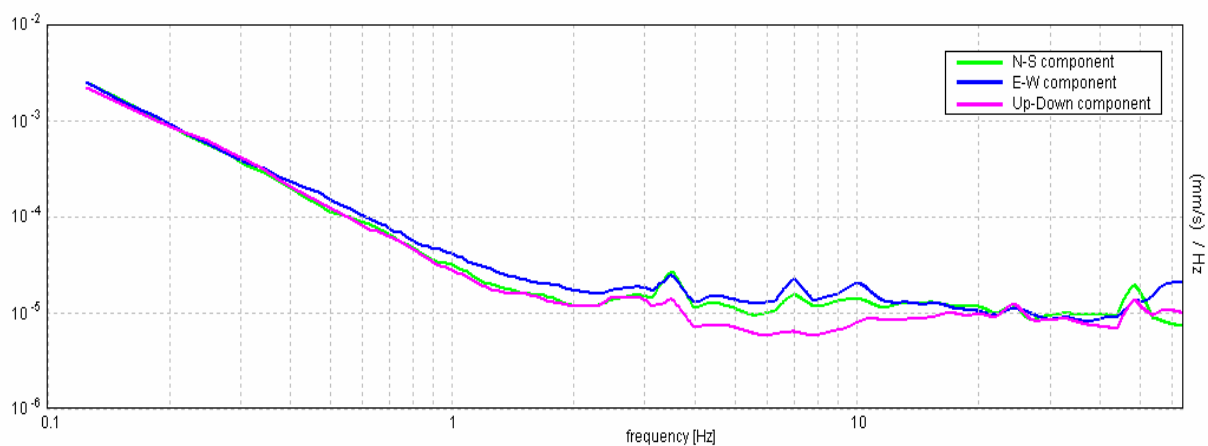
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

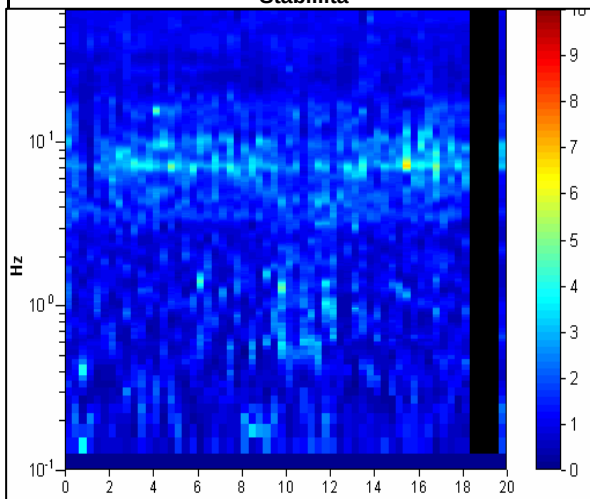
Picco HV a 7.0 ± 0.4 Hz (nell'intervallo 0.0 - 18.0 Hz).



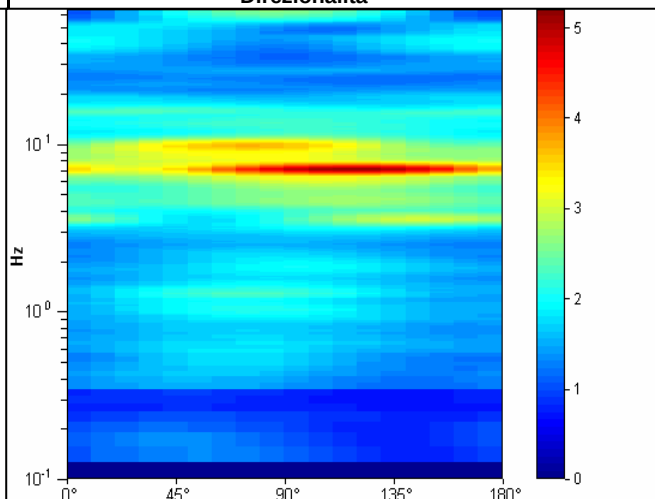
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H06

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

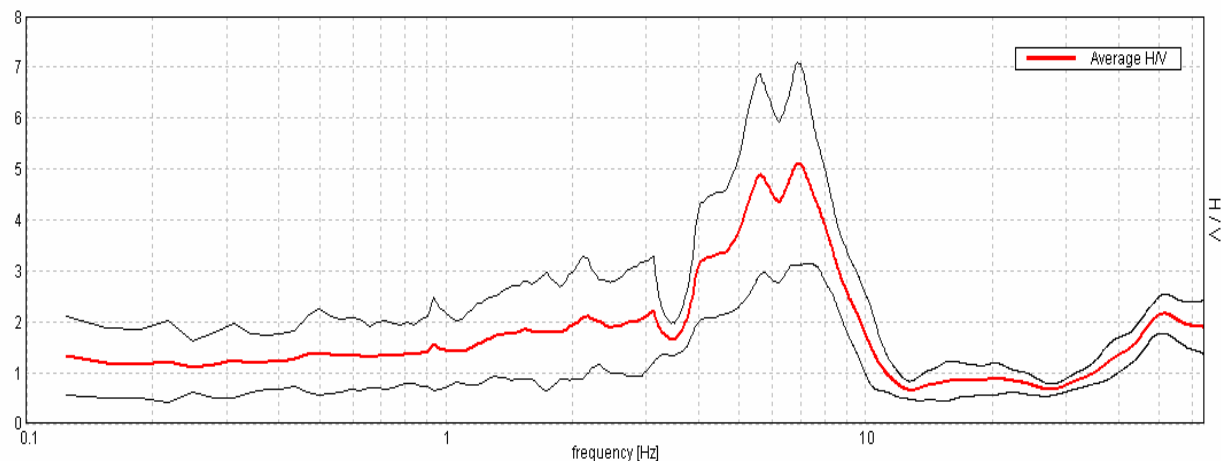
QUOTA: 125 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

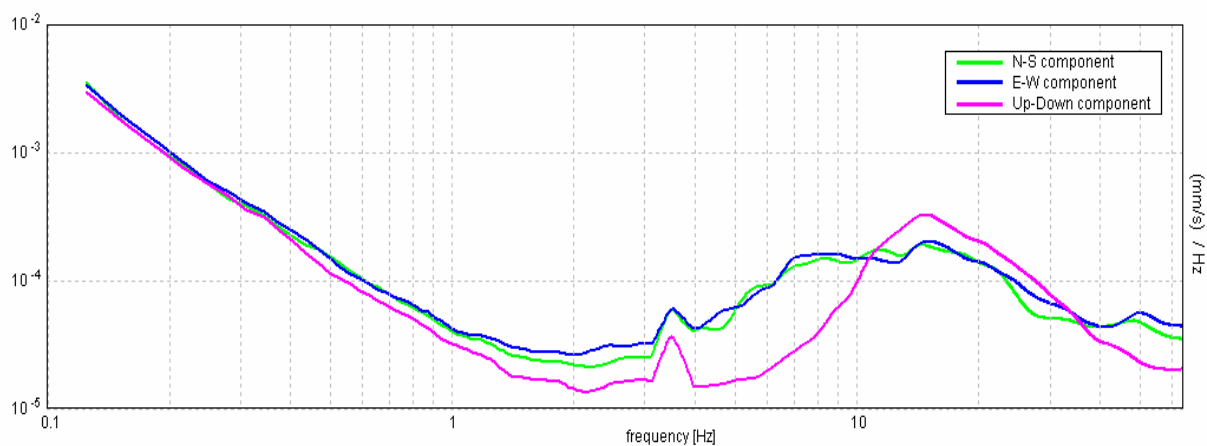
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

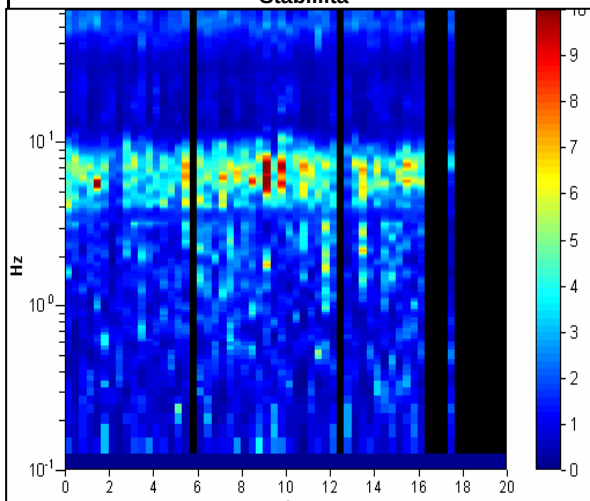
Picco H/V a 6.88 ± 0.69 Hz (nell'intervallo 0.0 - 18.0 Hz).



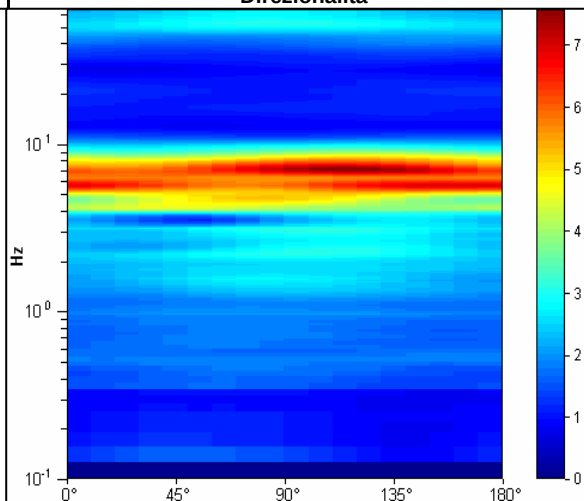
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H07

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

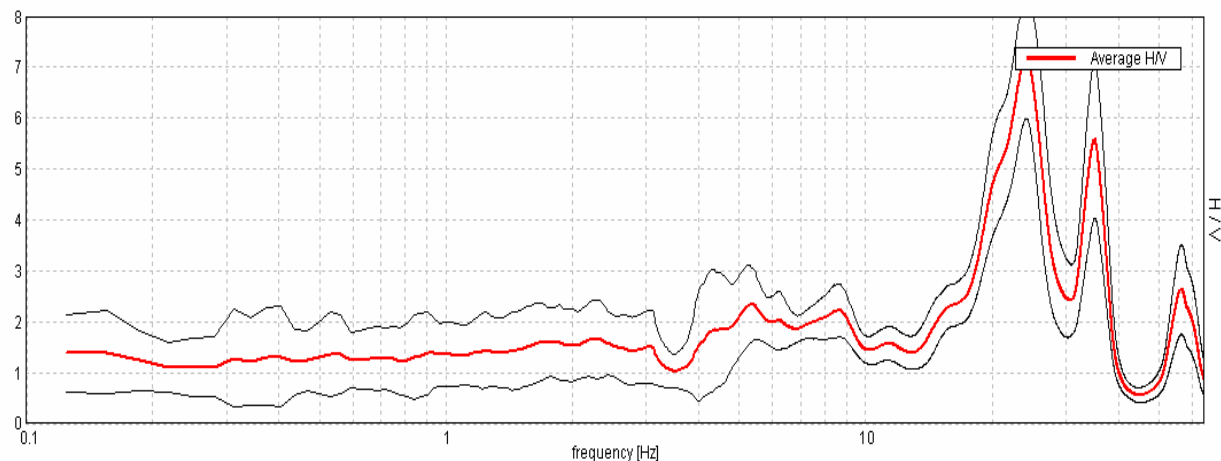
QUOTA: 150 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

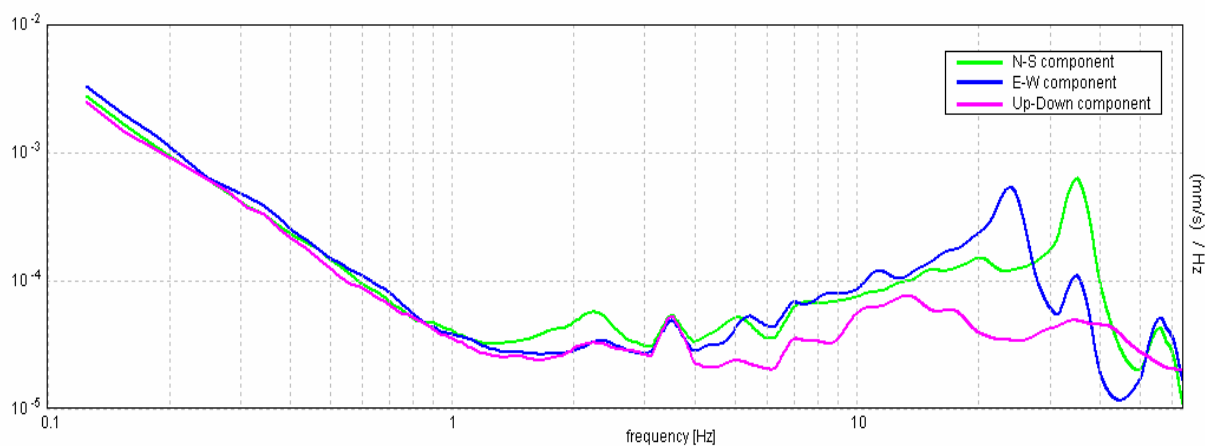
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

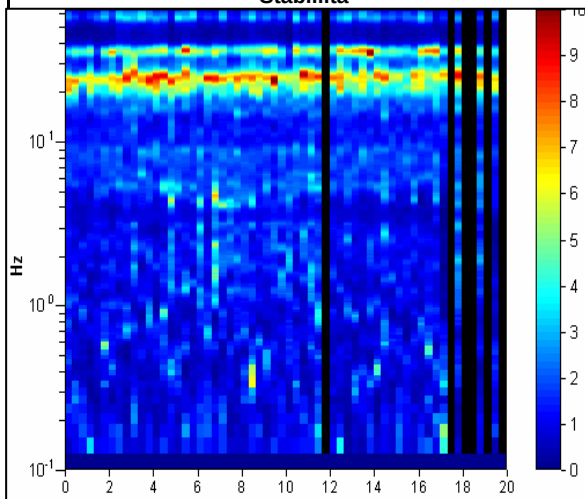
Picco HV a 17.97 ± 0.03 Hz (nell'intervallo 0.0 - 18.0 Hz).



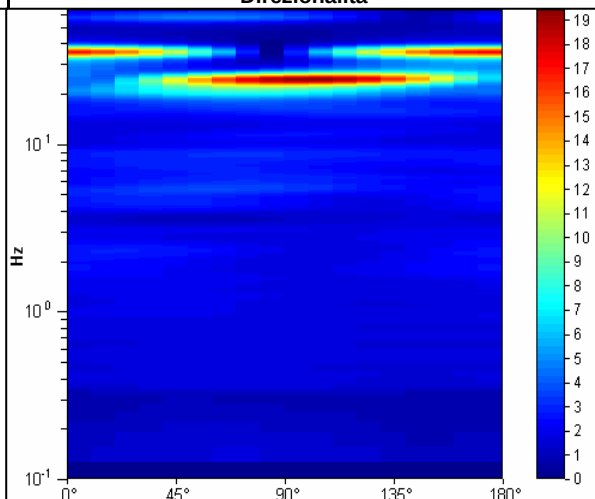
Ampiezza spettrale



Stabilità



Direzionalità

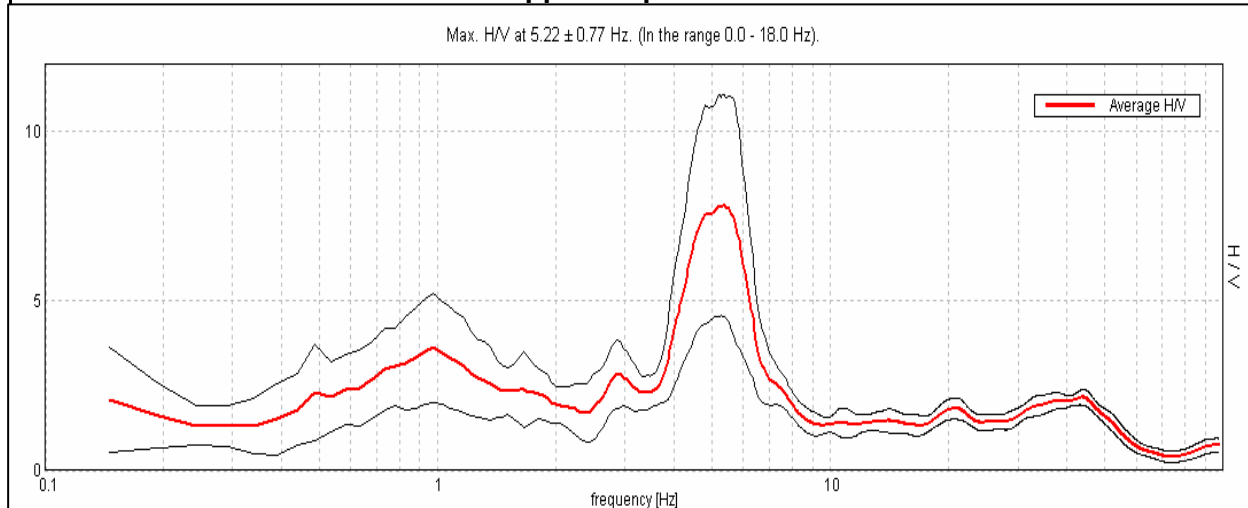


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H08
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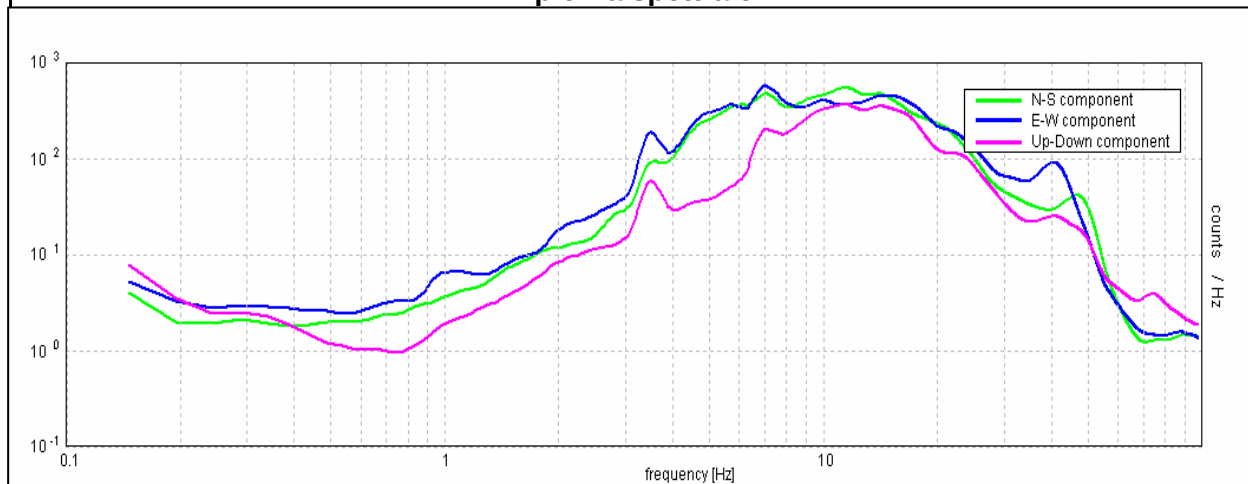
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-10-2013	CANTIERE: Marzabotto
QUOTA: 120 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

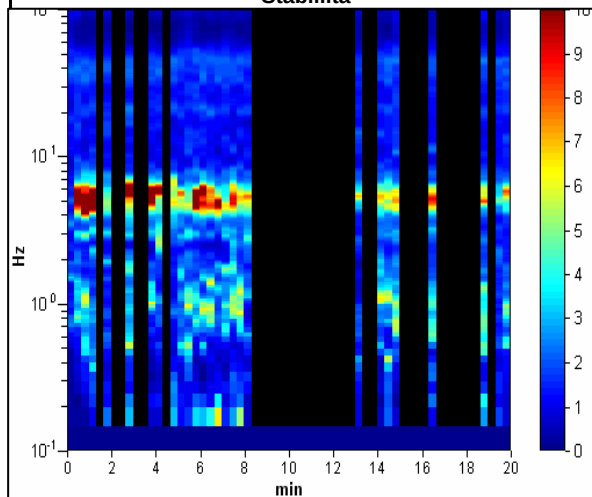
Rapporto spettrale



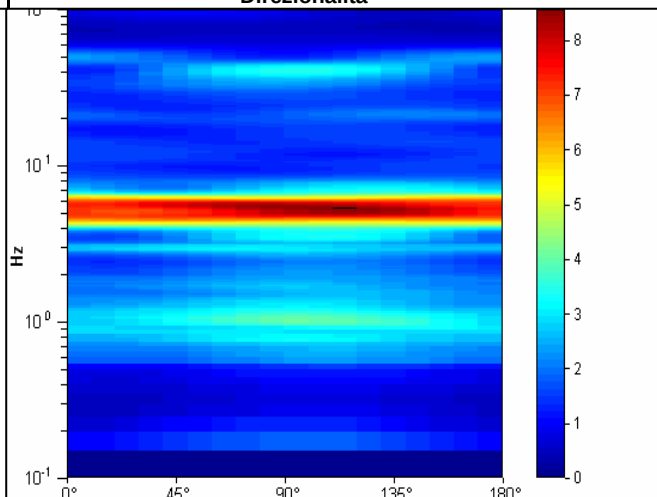
Ampiezza spettrale



Stabilità



Direzionalità

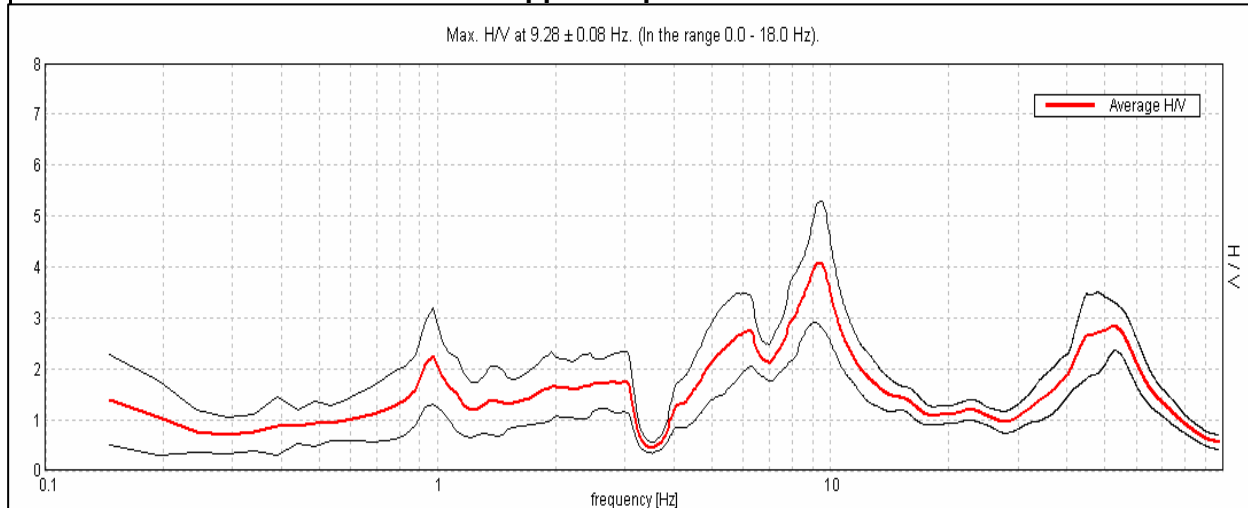


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H09
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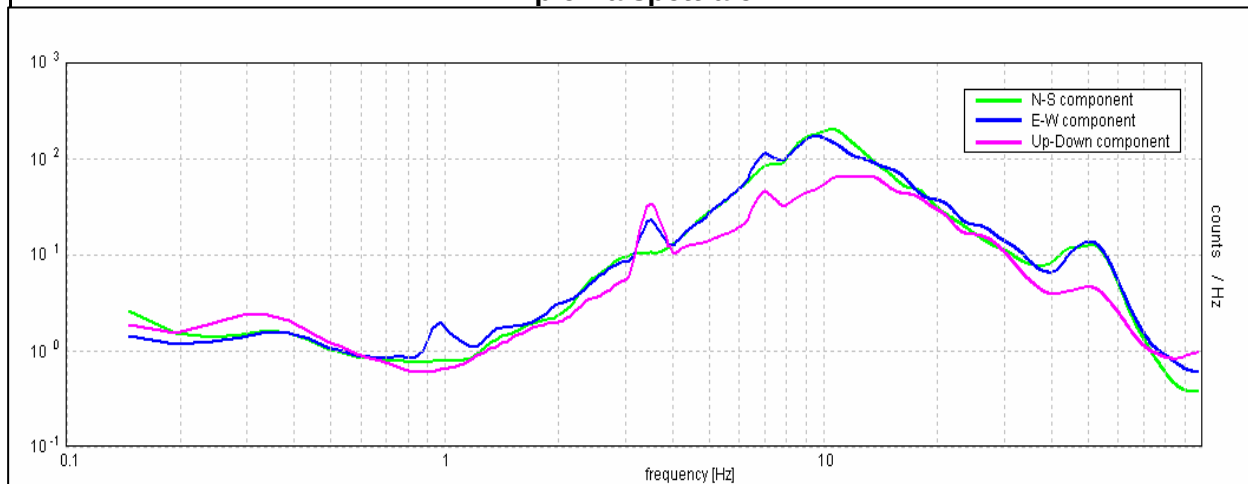
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-10-2013	CANTIERE: Lama di Reno
QUOTA: 110 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

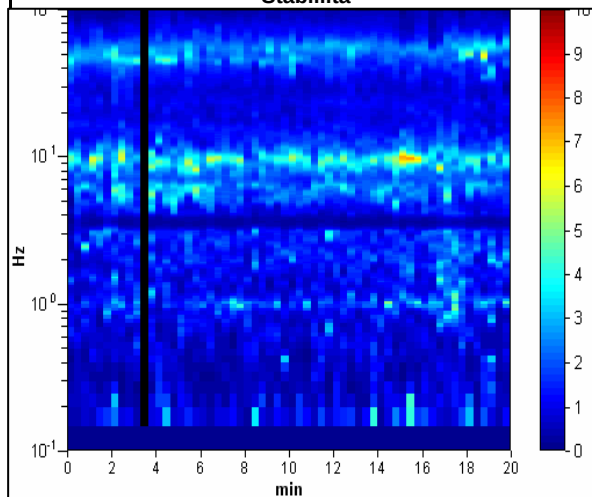
Rapporto spettrale



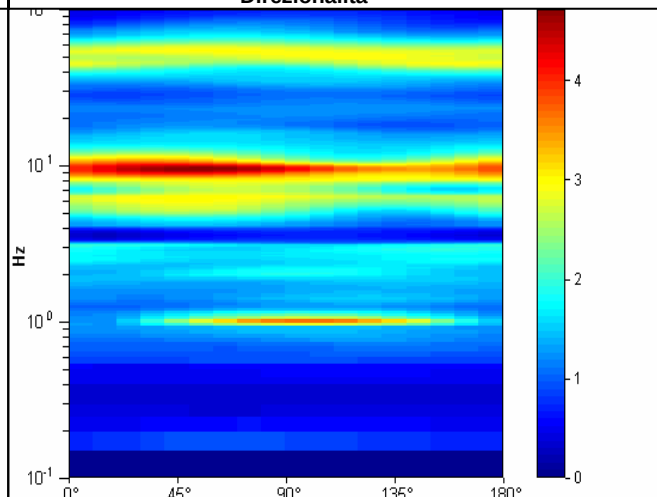
Ampiezza spettrale



Stabilità



Direzionalità

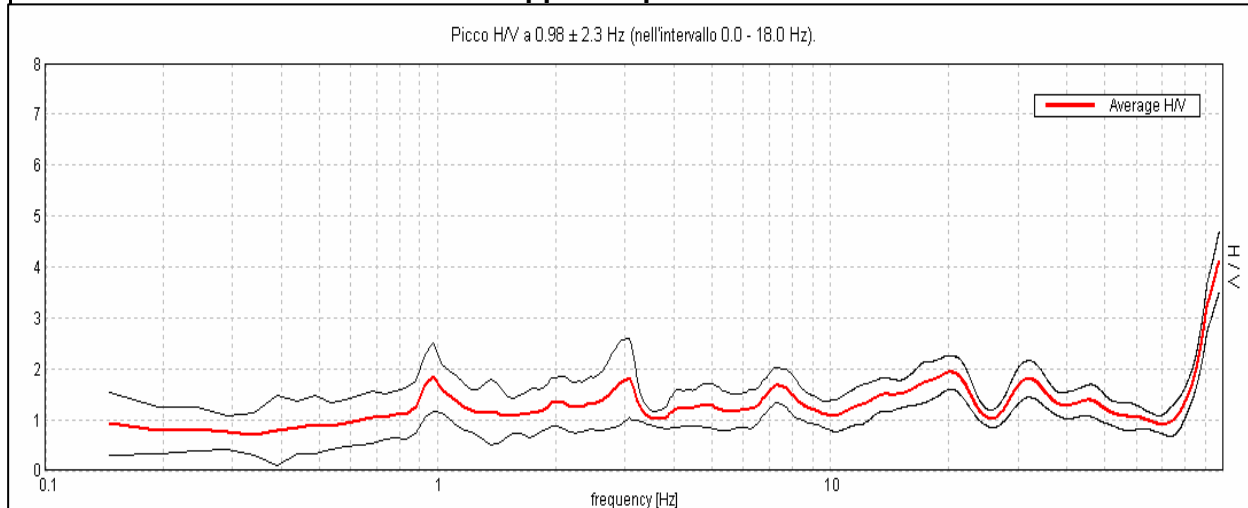


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H10
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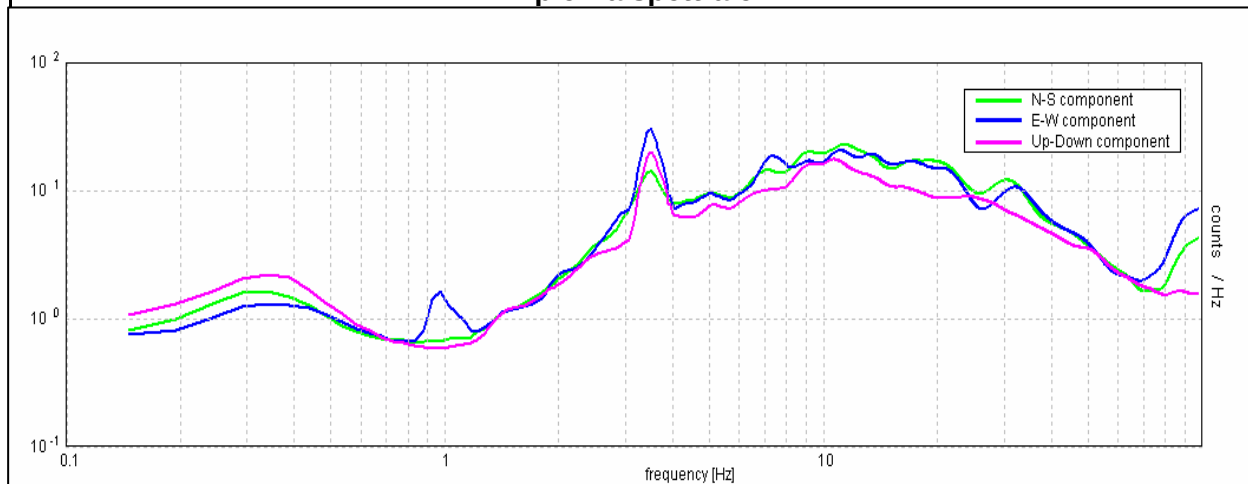
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-10-2013	CANTIERE: Bendinella
QUOTA: 150 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

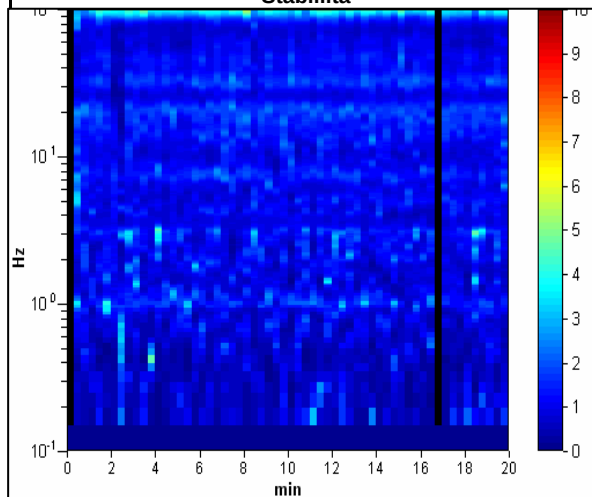
Rapporto spettrale



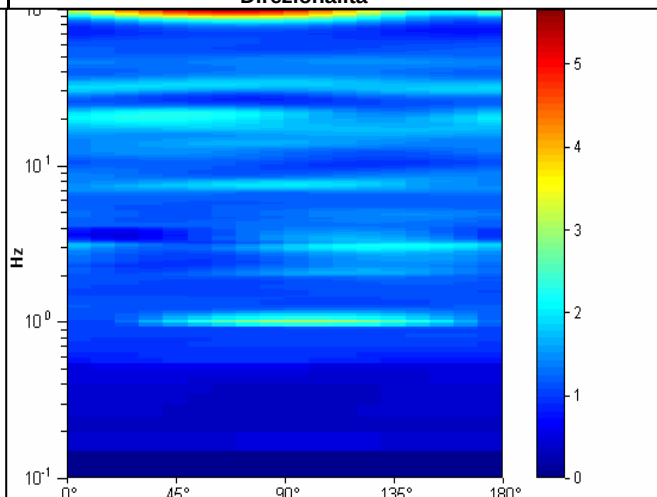
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H11

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 23-10-2013

CANTIERE: Bendinella

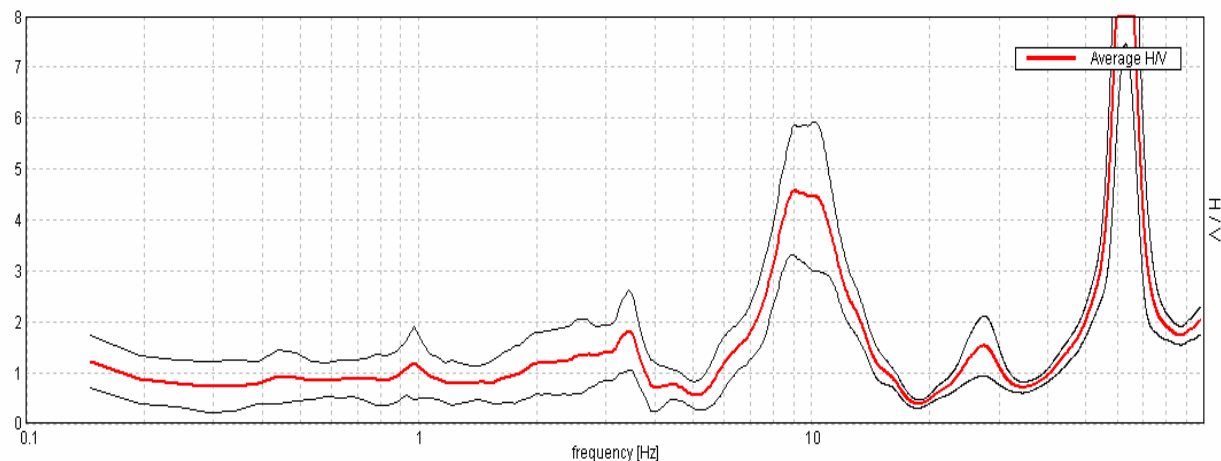
QUOTA: 120 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

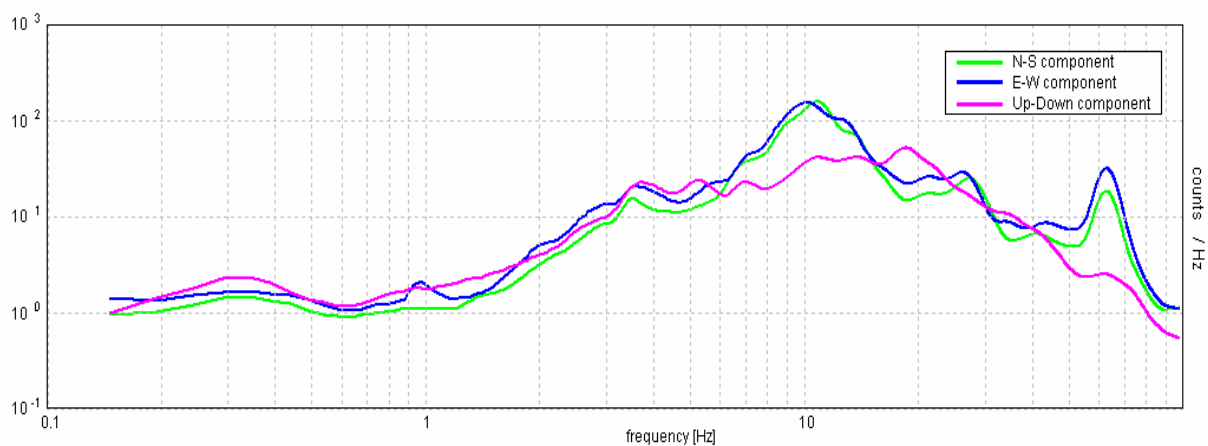
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

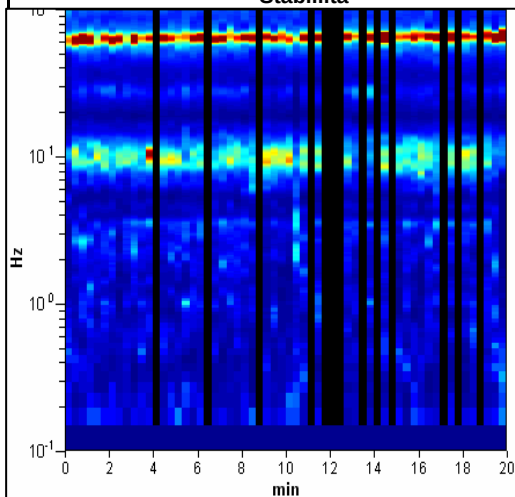
Picco H/V a 9.03 ± 0.5 Hz (nell'intervallo 0.0 - 18.0 Hz).



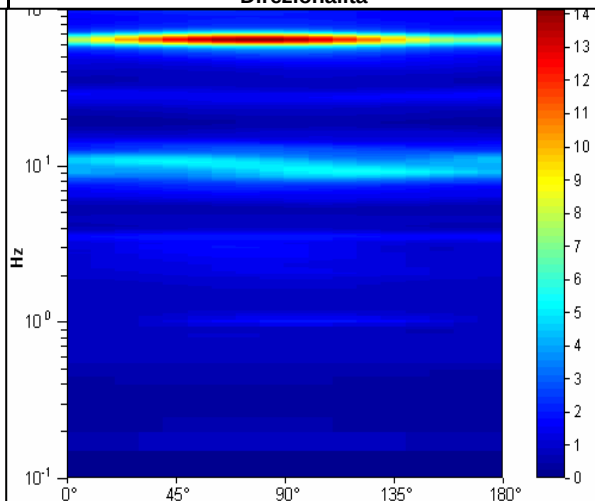
Ampiezza spettrale



Stabilità



Direzionalità

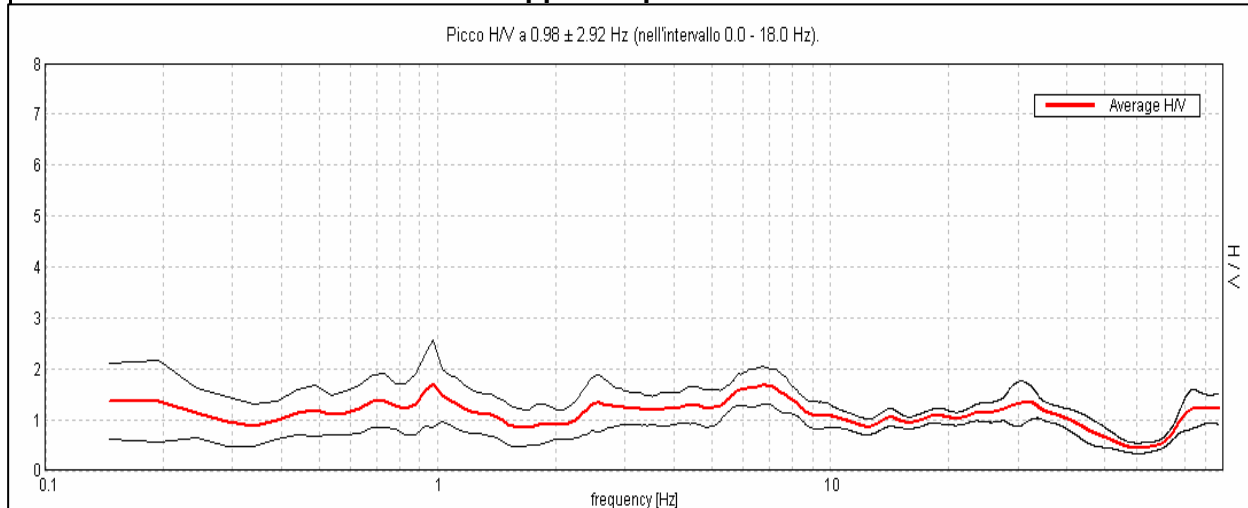


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H12
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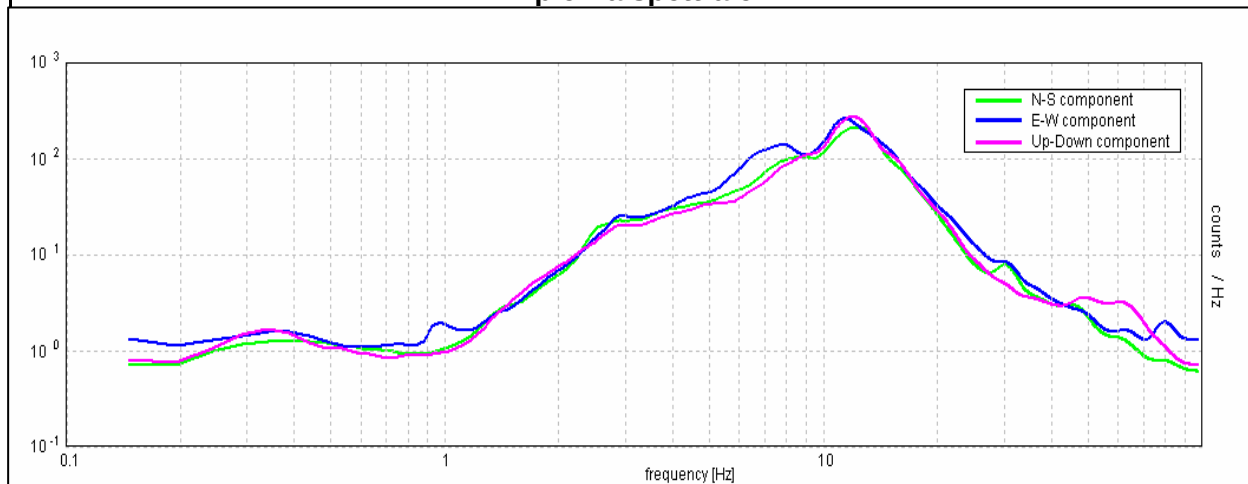
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-10-2013	CANTIERE: Gardelletta
QUOTA: 185 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

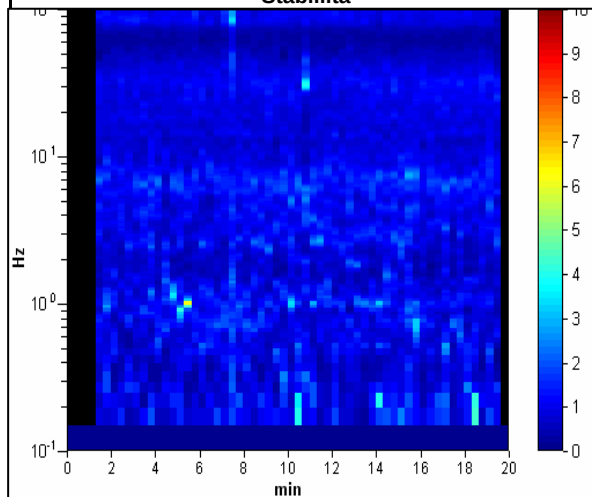
Rapporto spettrale



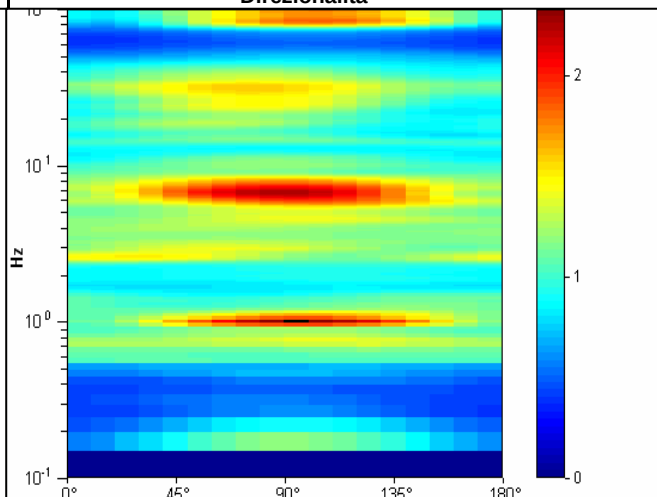
Ampiezza spettrale

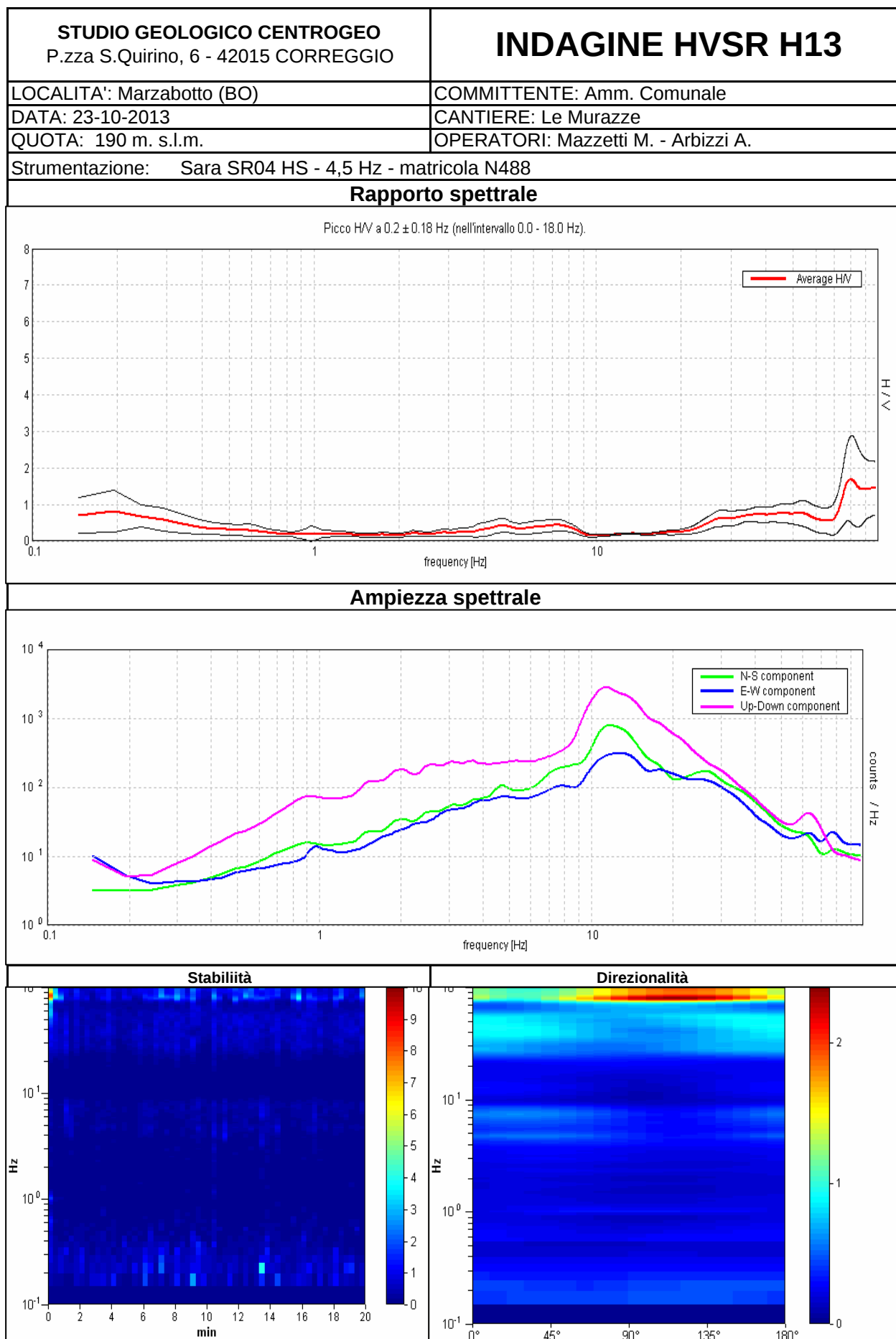


Stabilità



Direzionalità



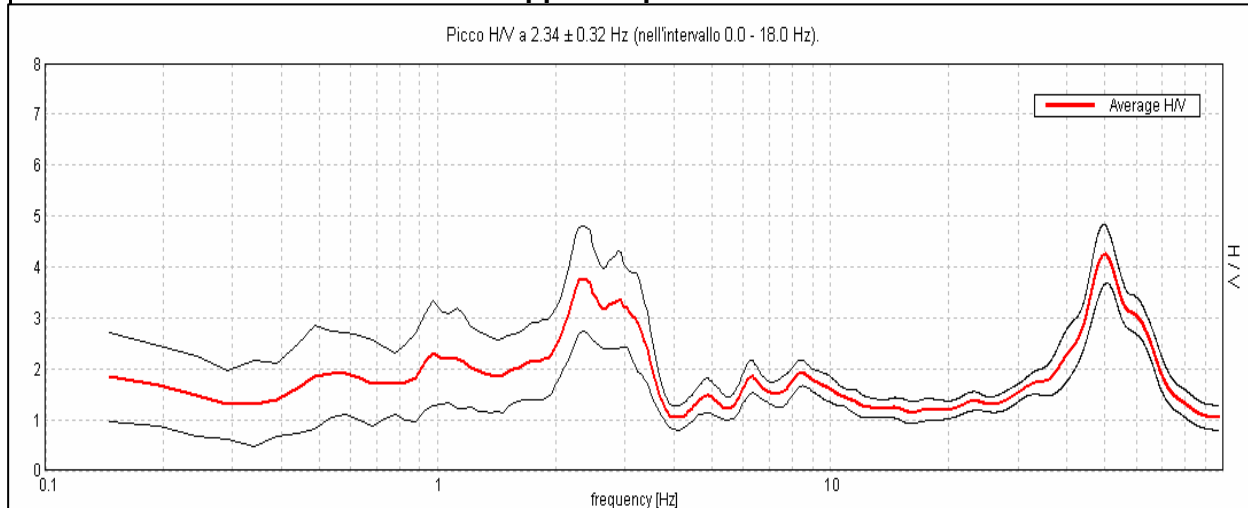


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H14
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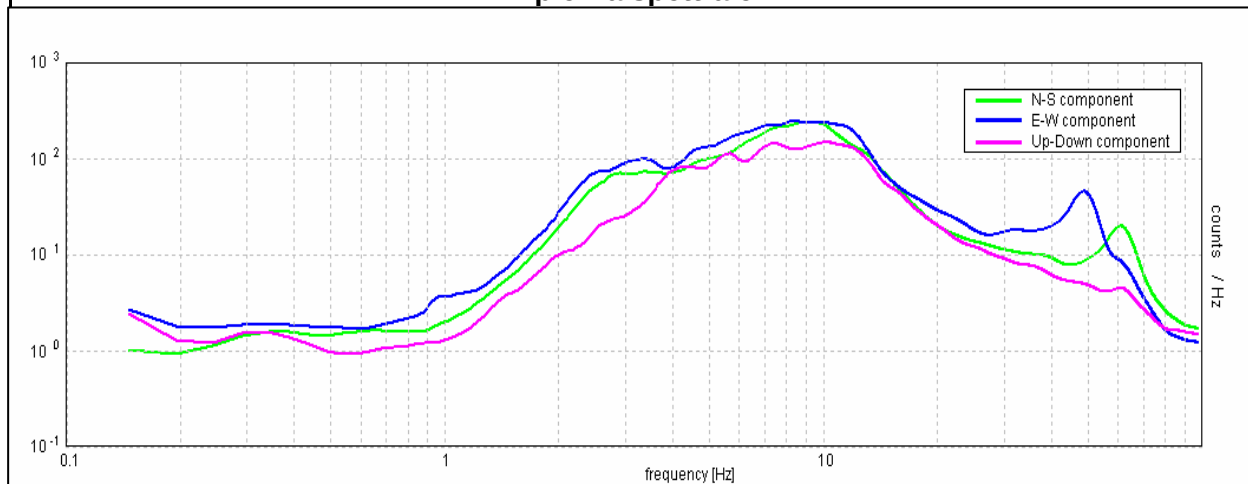
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-10-2013	CANTIERE: L'America
QUOTA: 270 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

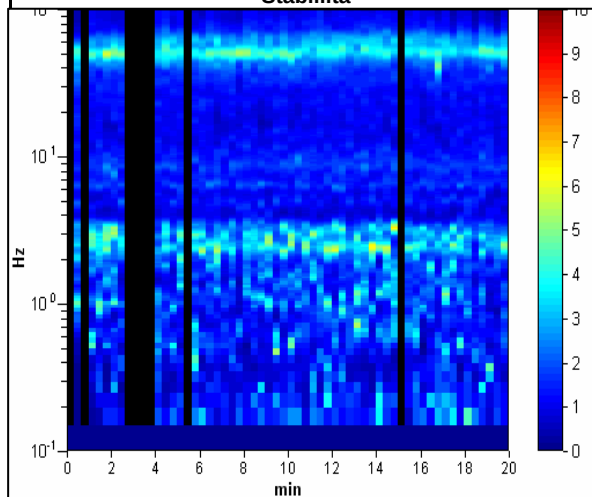
Rapporto spettrale



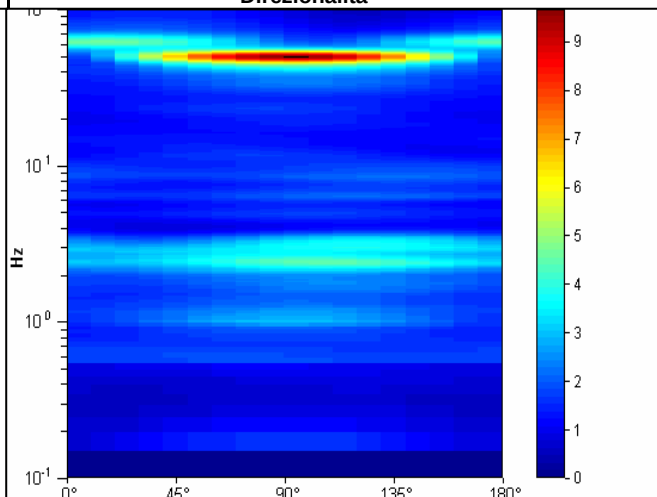
Ampiezza spettrale



Stabilità



Direzionalità

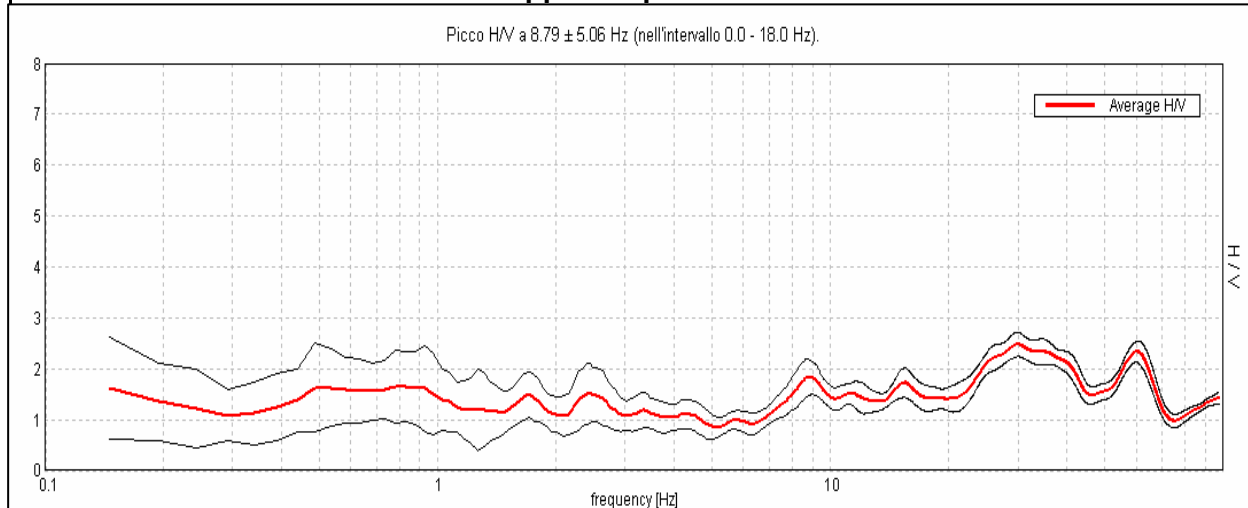


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H15
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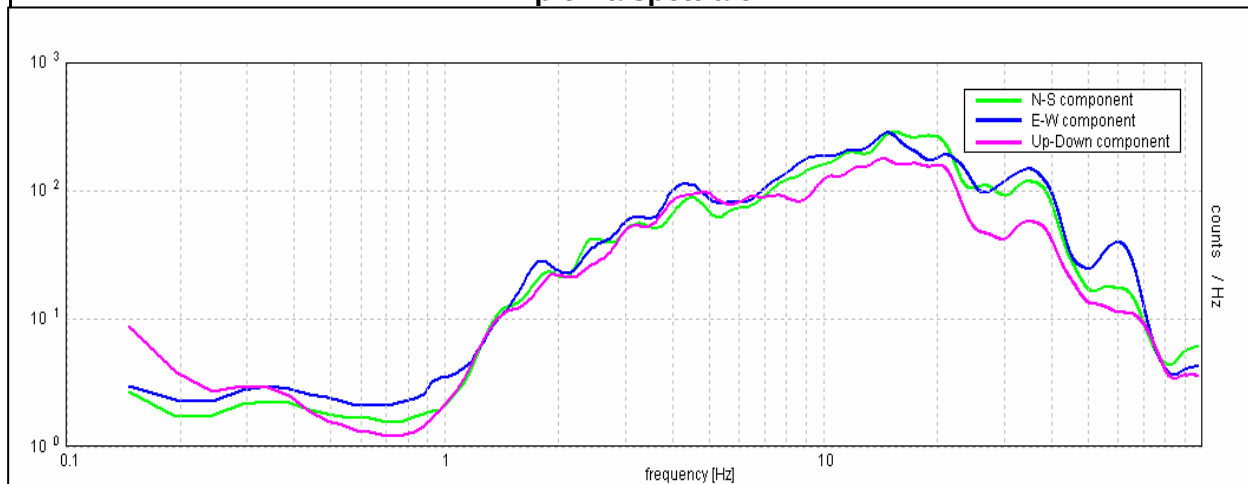
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 23-10-2013	CANTIERE: Casetta
QUOTA: 270 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

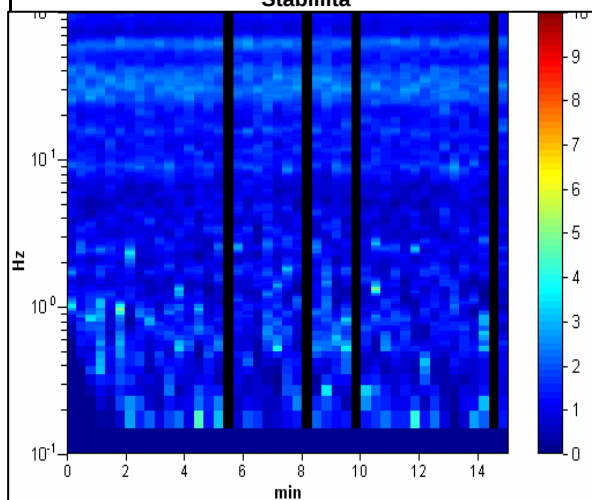
Rapporto spettrale



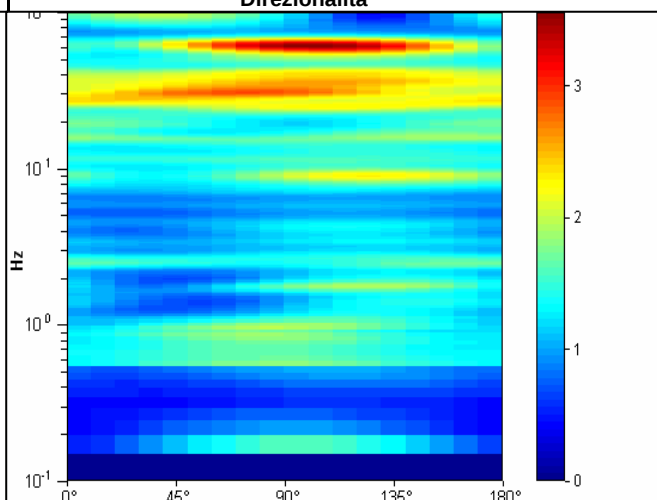
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H16

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 25-10-2013

CANTIERE: Allocco di Sopra

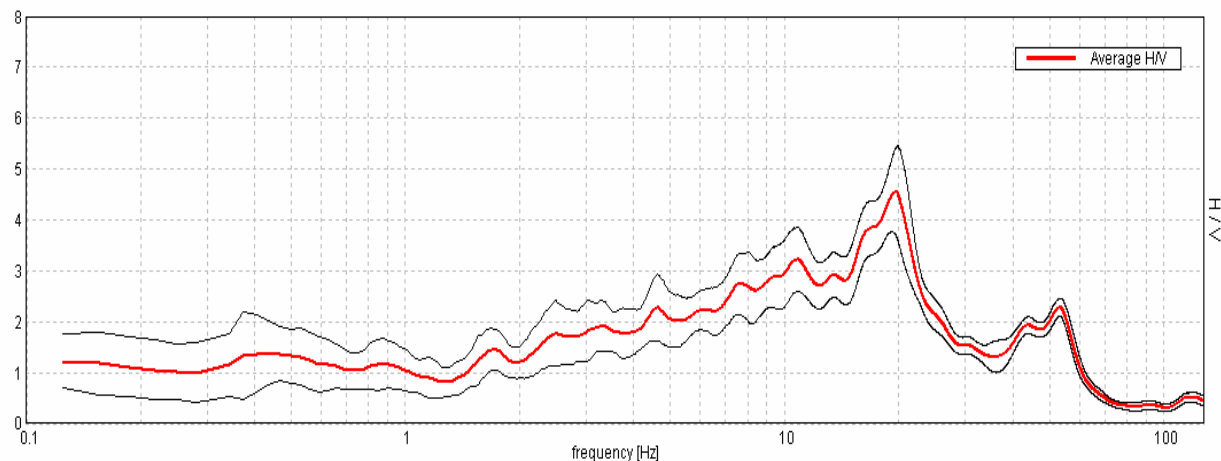
QUOTA: 220 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

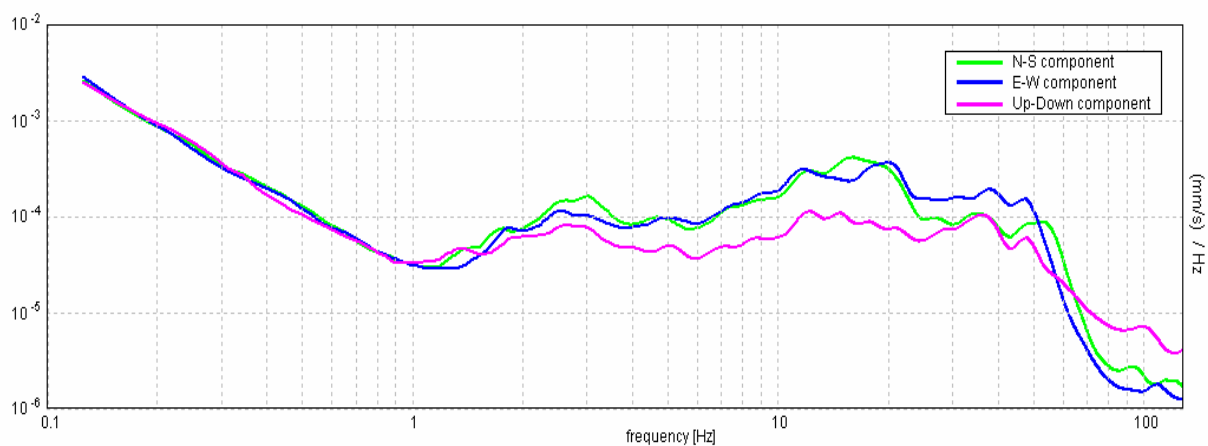
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

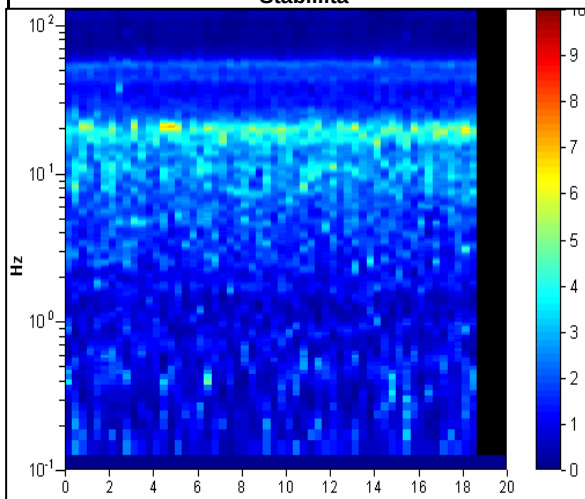
Picco H/V a 17.97 ± 2.7 Hz (nell'intervallo 0.0 - 18.0 Hz).



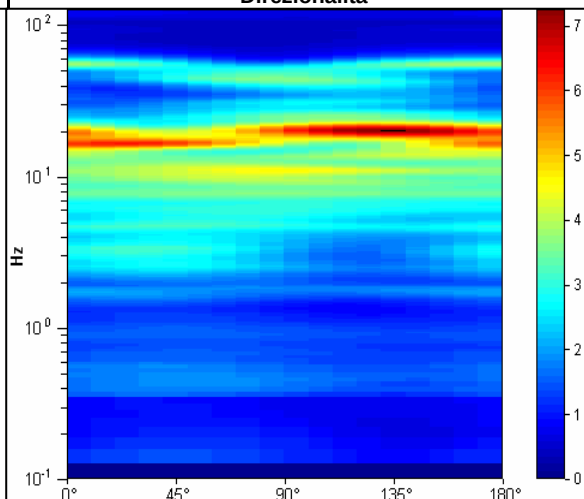
Ampiezza spettrale



Stabilità



Direzionalità

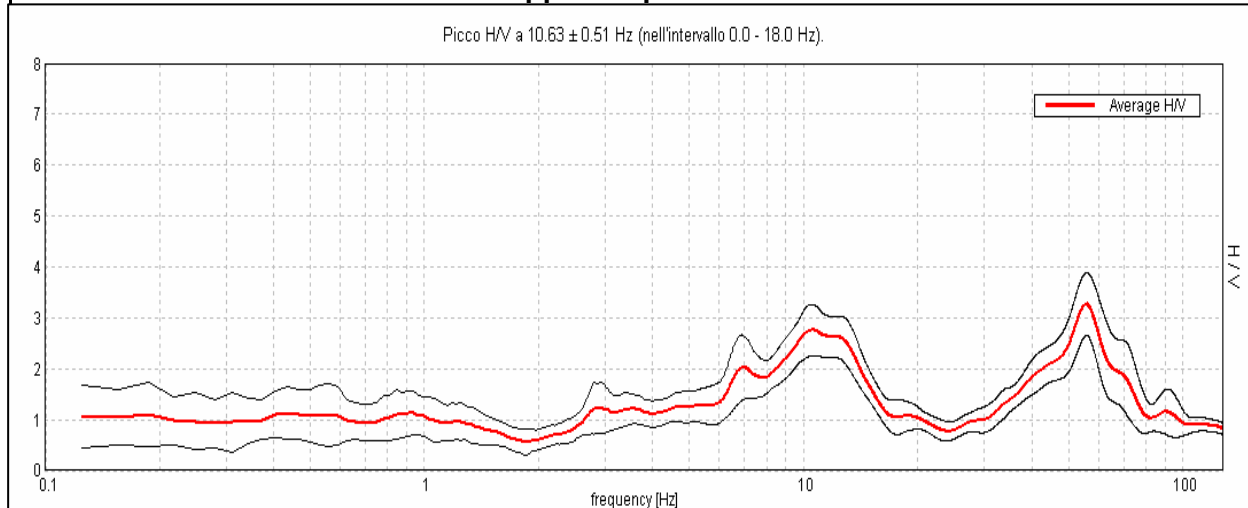


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H17
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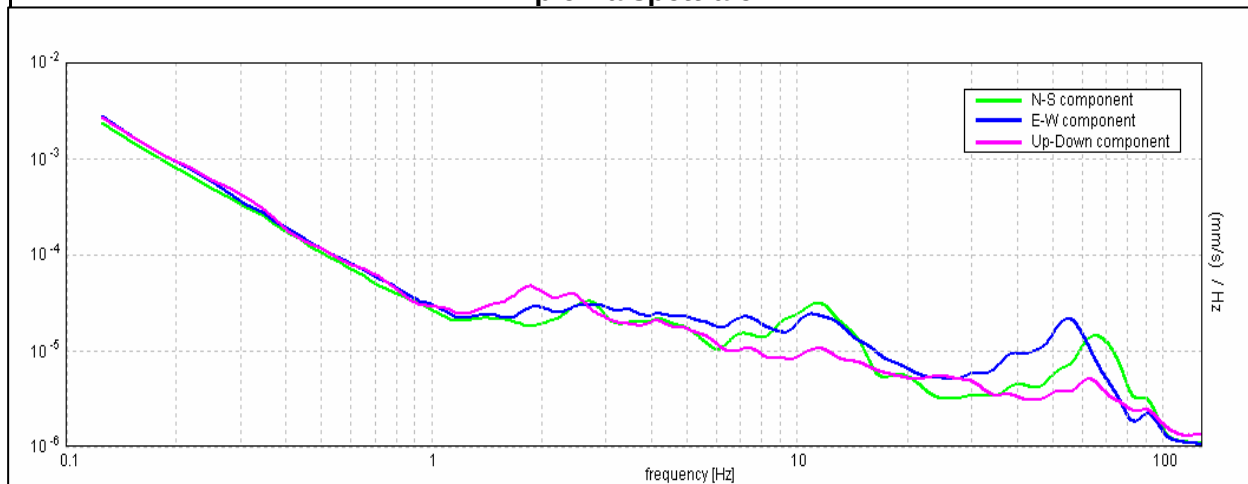
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 25-10-2013	CANTIERE: Via Carbonara
QUOTA: 175 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

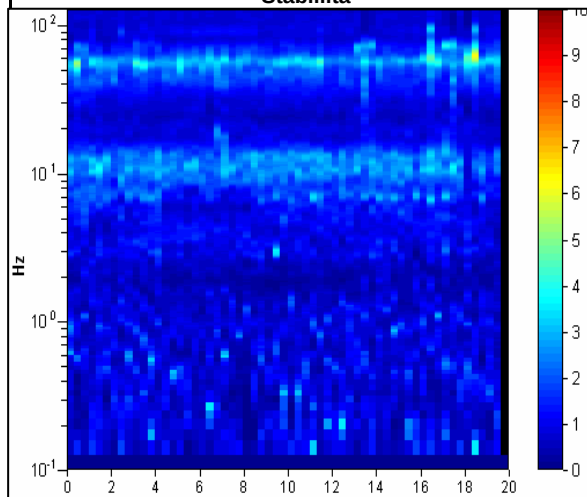
Rapporto spettrale



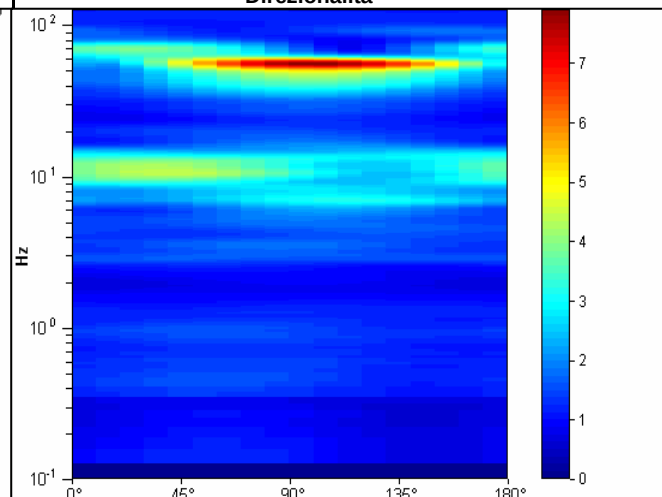
Ampiezza spettrale



Stabilità



Direzionalità

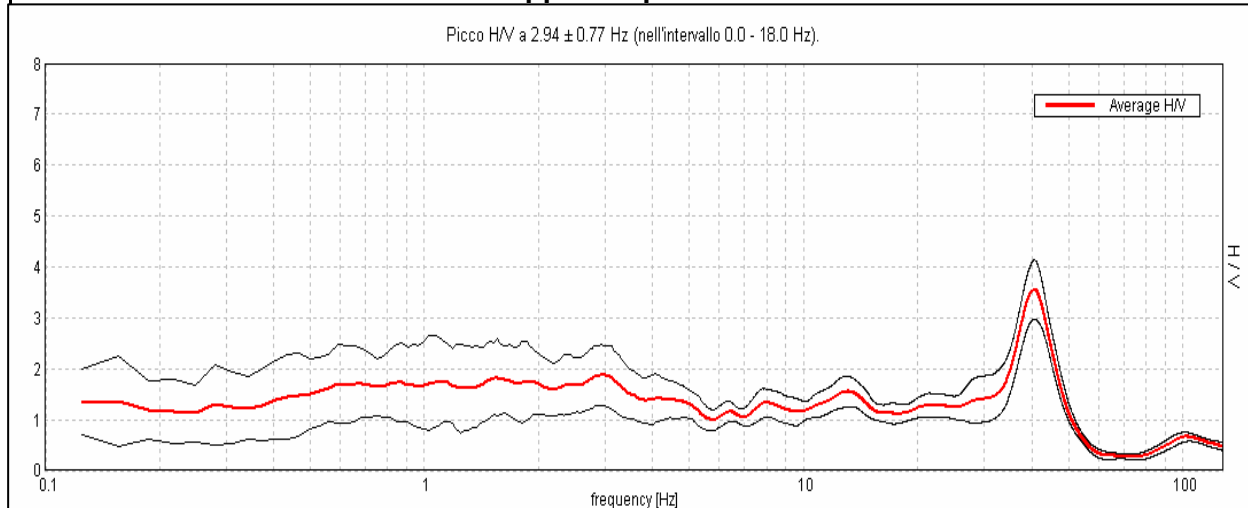


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H18
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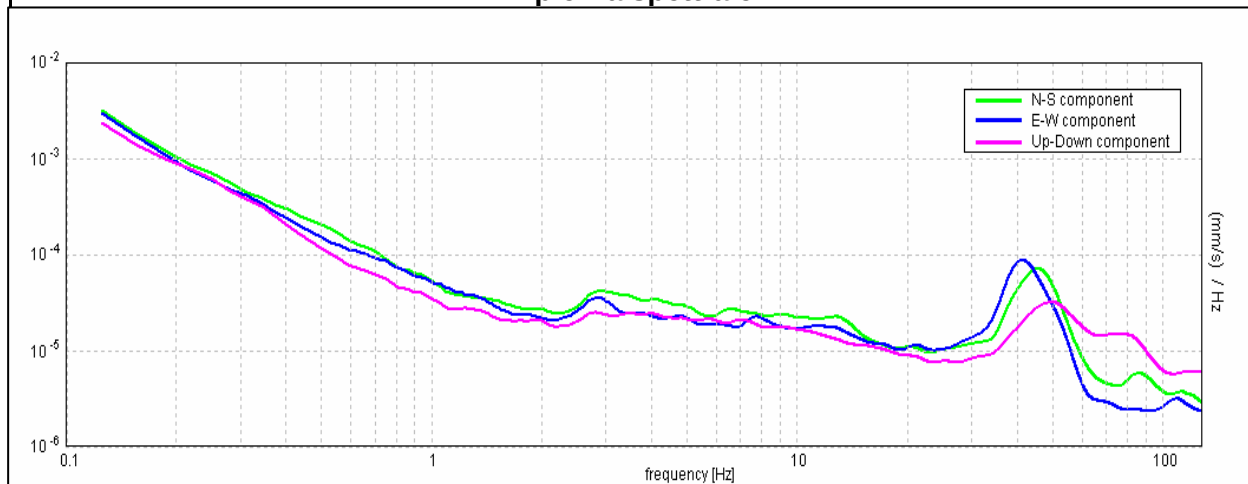
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 25-10-2013	CANTIERE: Sirano
QUOTA: 125 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

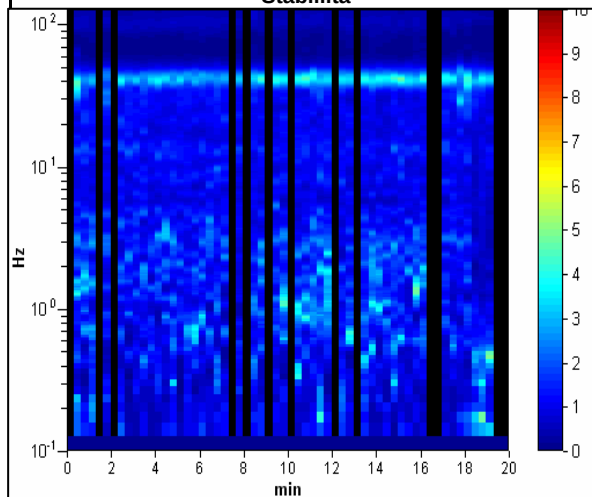
Rapporto spettrale



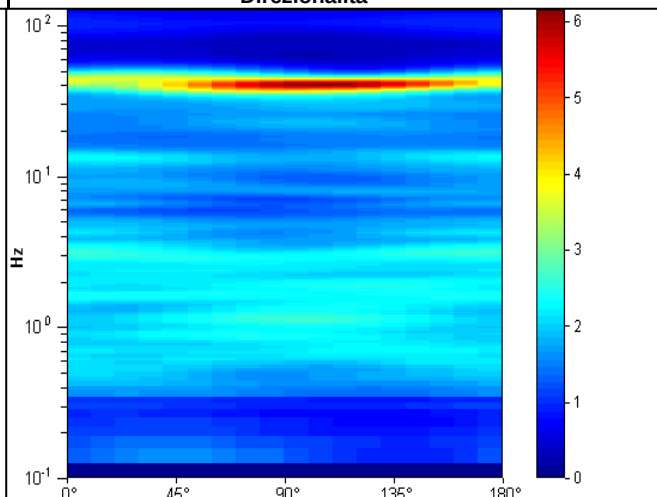
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H19

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 25-10-2013

CANTIERE: Sirano

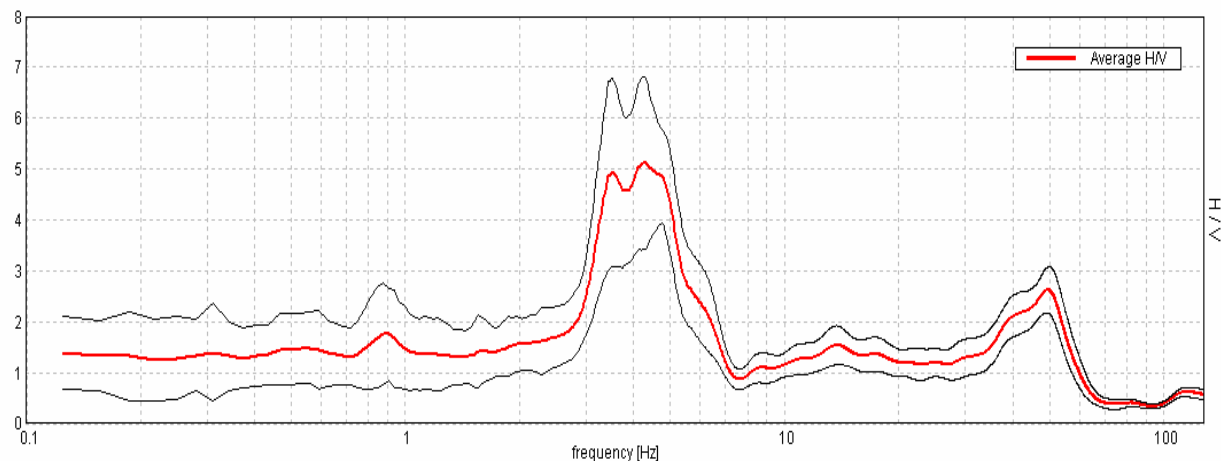
QUOTA: 150 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

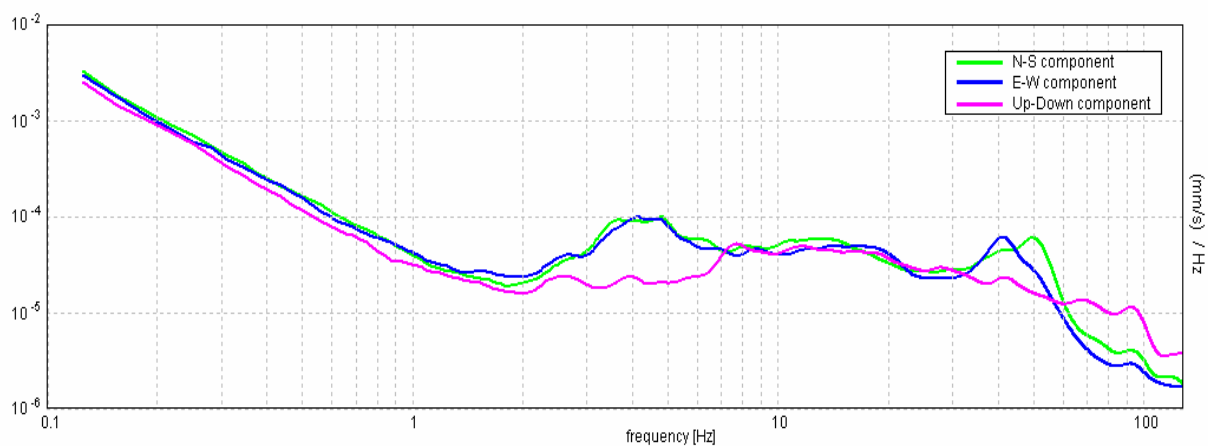
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

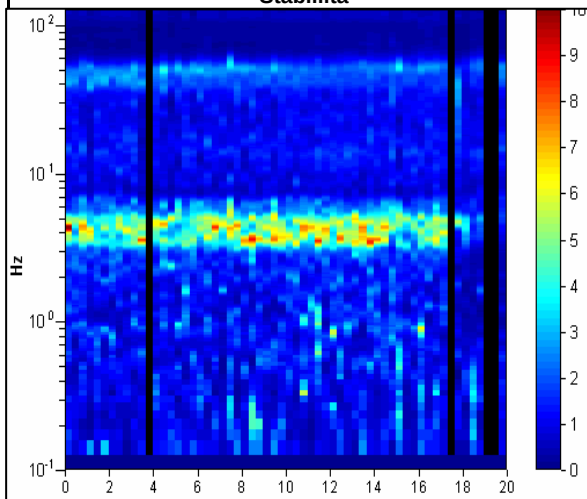
Picco H/V a 4.25 ± 0.1 Hz (nell'intervallo 0.0 - 18.0 Hz).



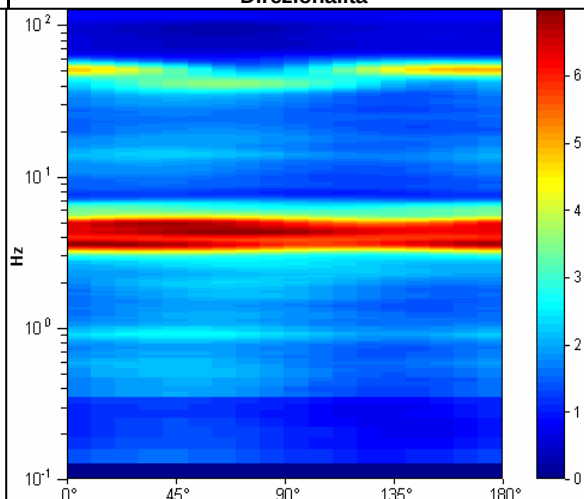
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H20

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 25-10-2013

CANTIERE: Sirano

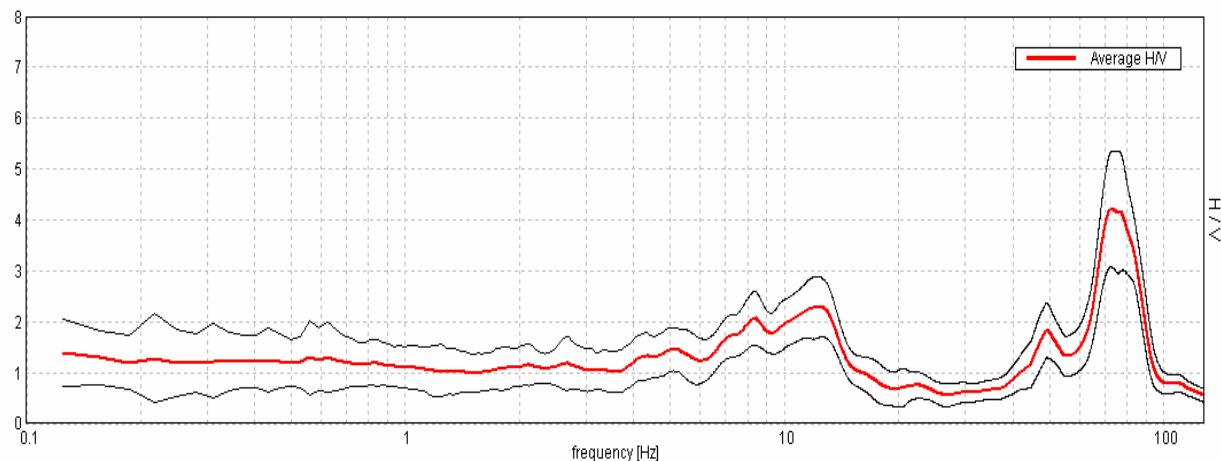
QUOTA: 140 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

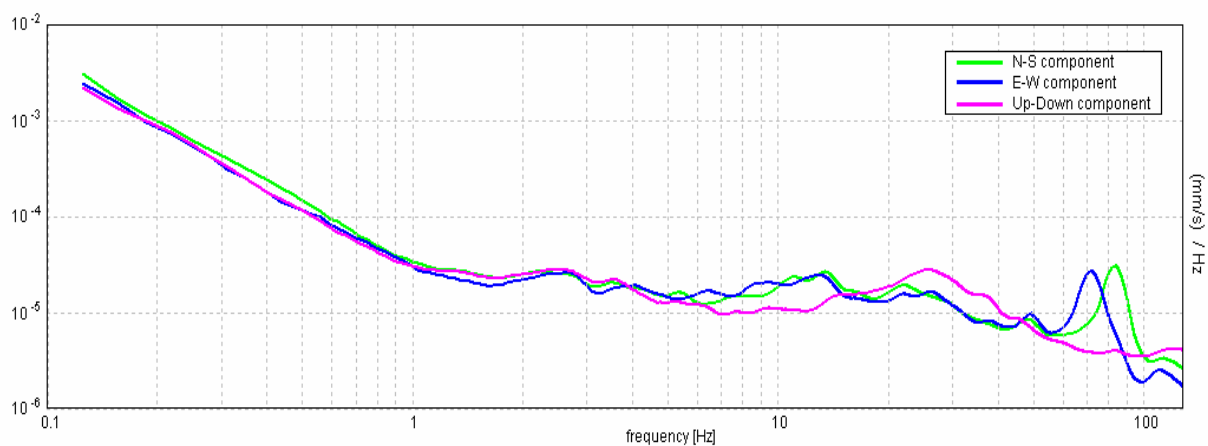
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

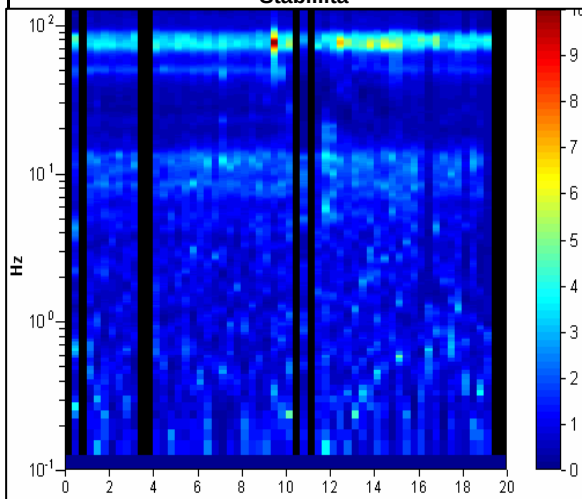
Picco HV a 12.41 ± 2.96 Hz (nell'intervallo 0.0 - 18.0 Hz).



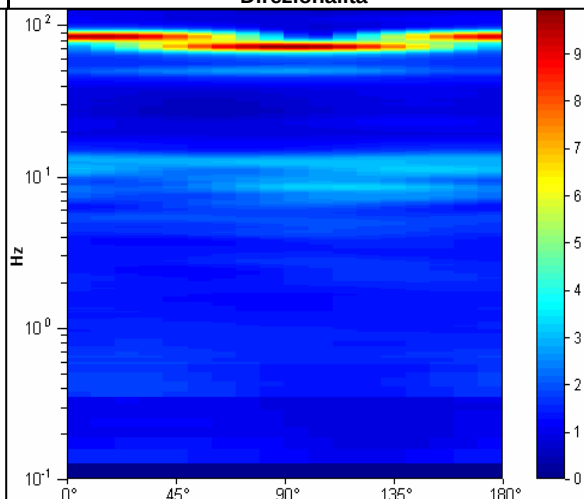
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H21

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Allocco di Sopra

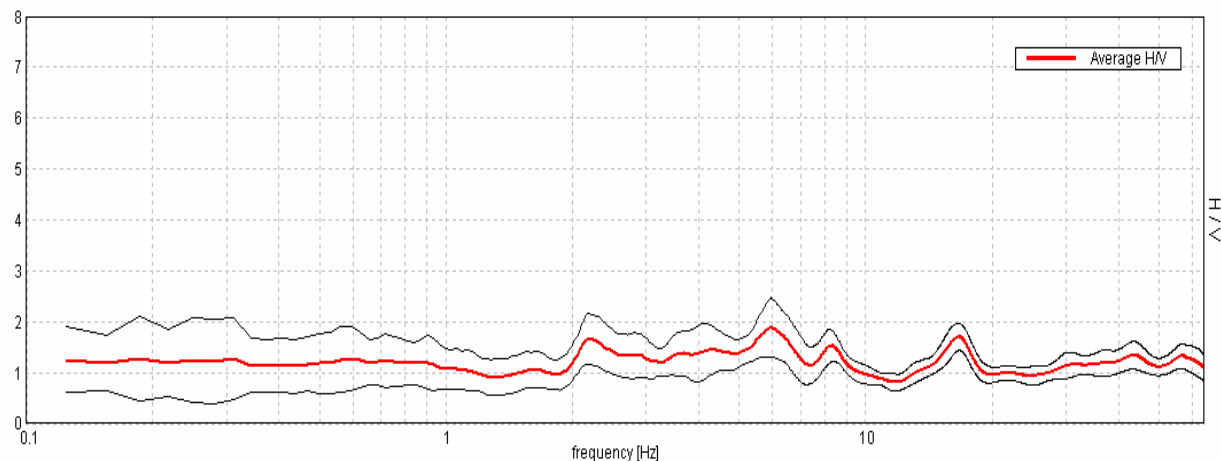
QUOTA: 155 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

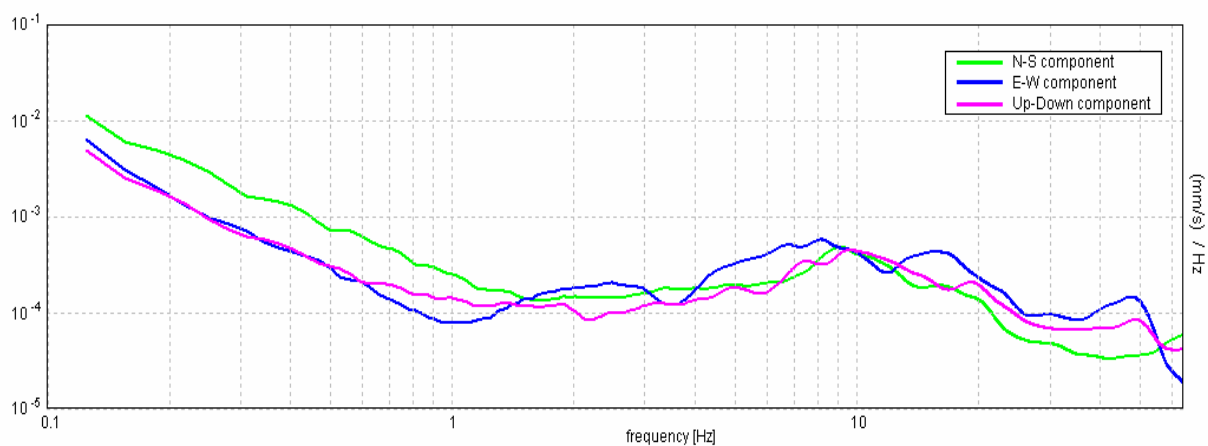
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

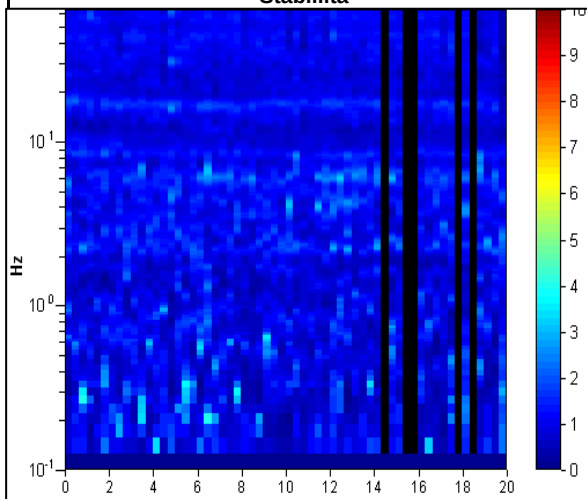
Picco H/V a 5.94 ± 6.92 Hz (nell'intervallo 0.0 - 18.0 Hz).



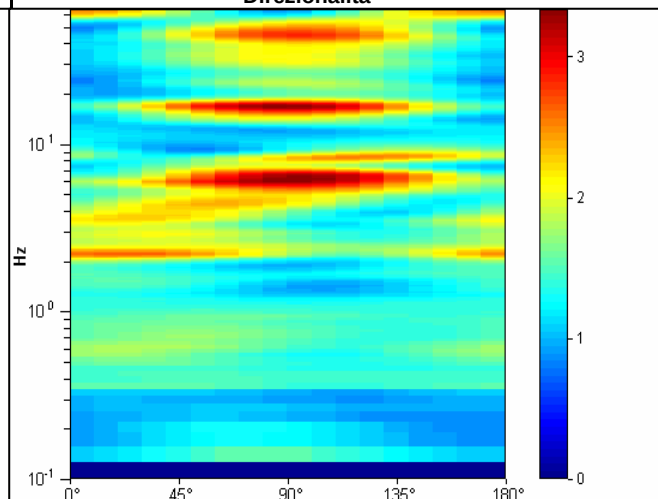
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H22

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Allocco di Sopra

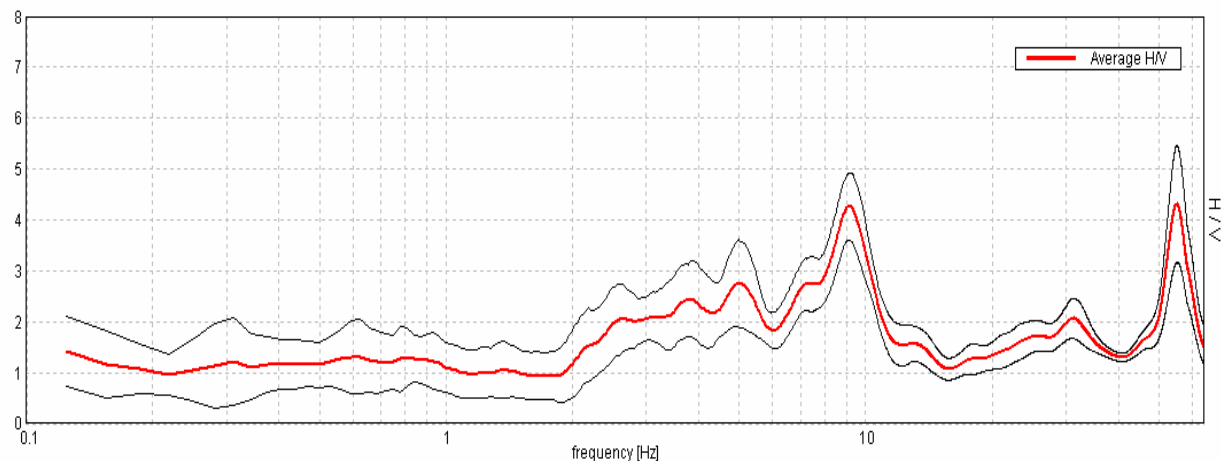
QUOTA: 140 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

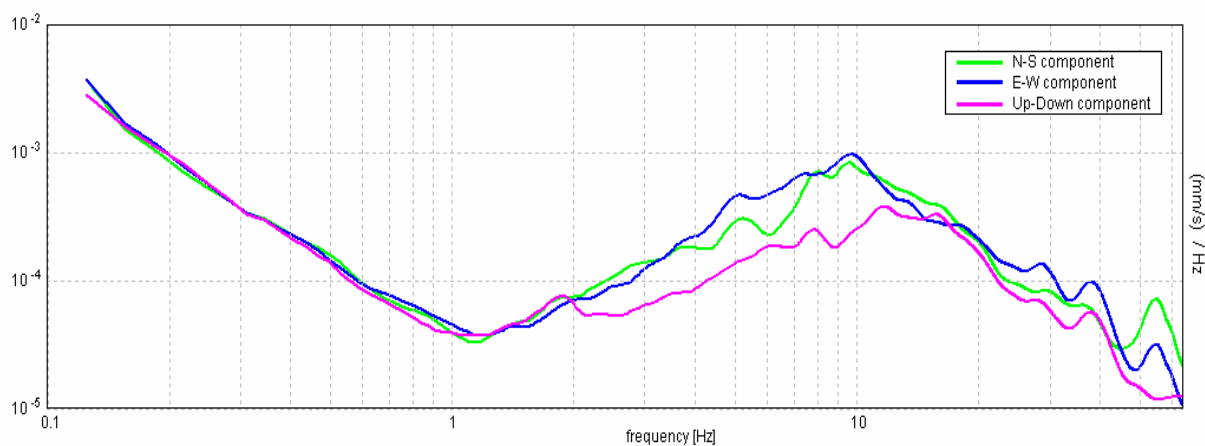
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

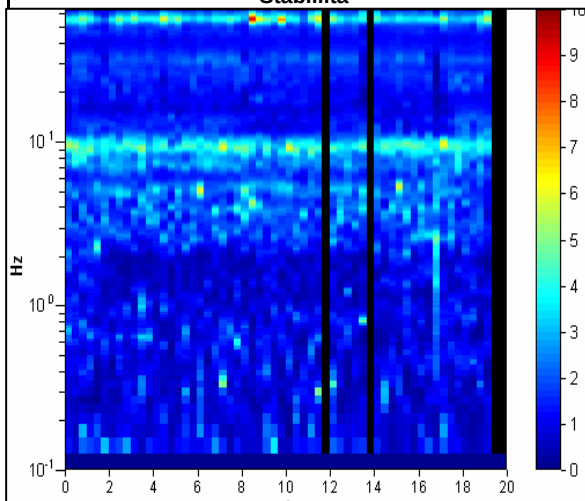
Picco H/V a 9.06 ± 0.1 Hz (nell'intervallo 0.0 - 18.0 Hz).



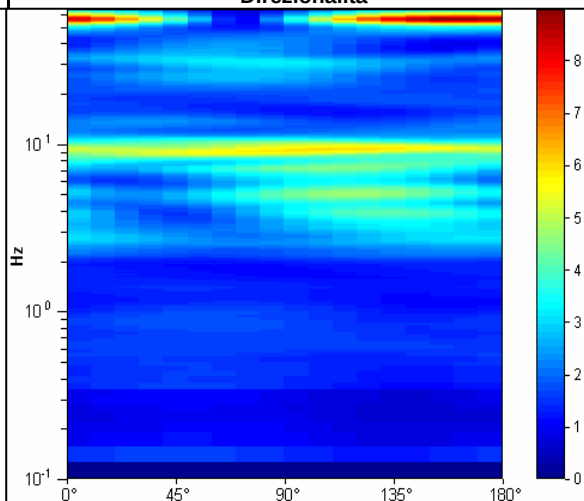
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H23

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Sirano

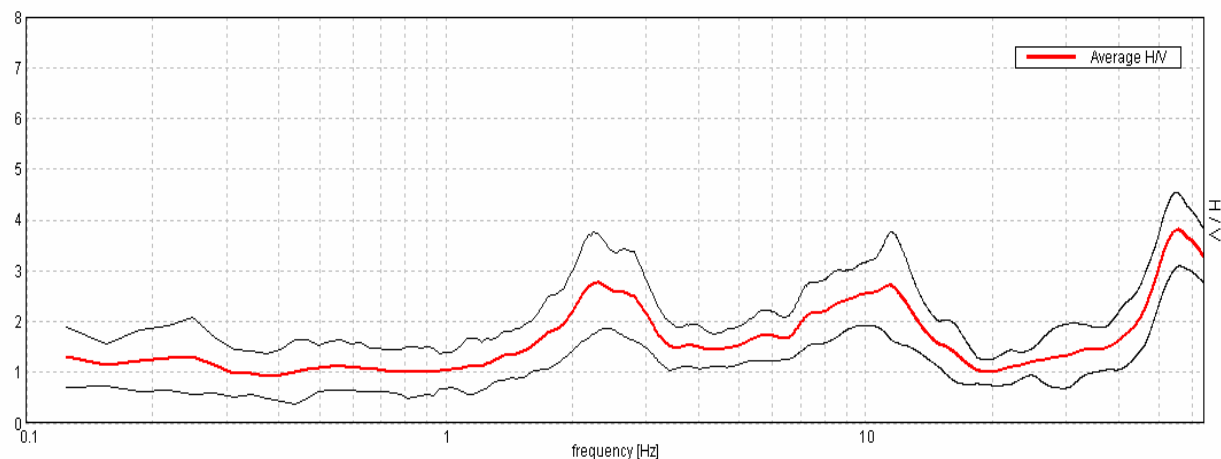
QUOTA: 143 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

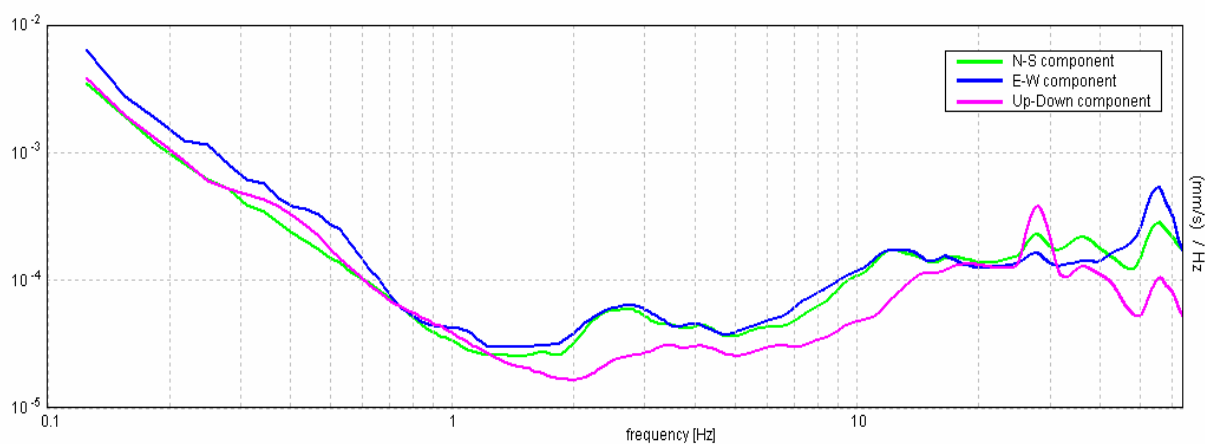
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

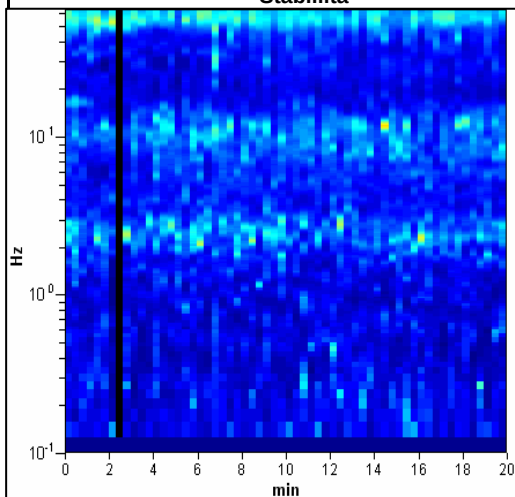
Picco H/V a 2.31 ± 2.6 Hz (nell'intervallo 0.0 - 18.0 Hz).



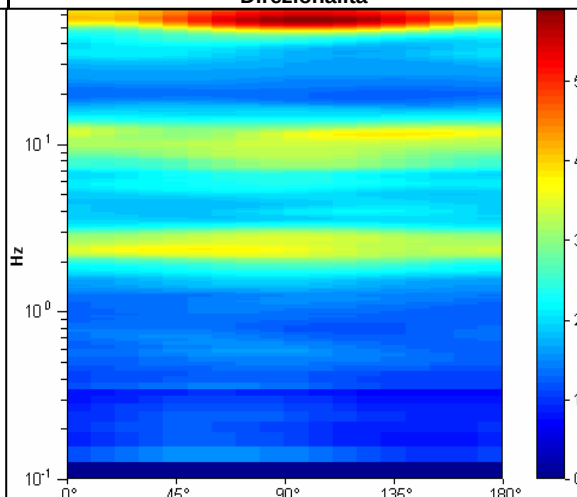
Ampiezza spettrale



Stabilità



Direzionalità

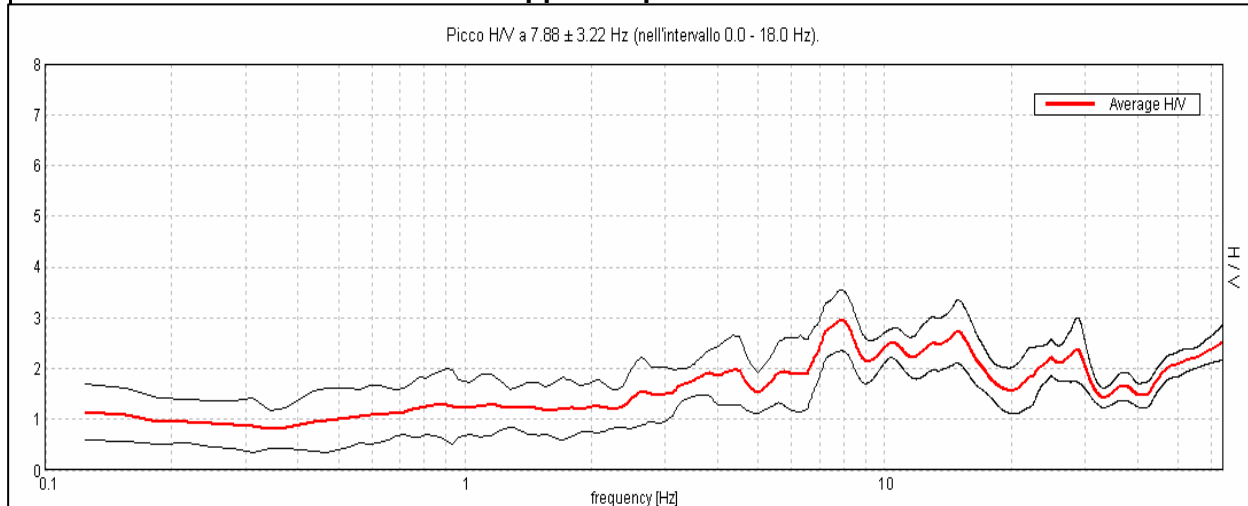


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H24
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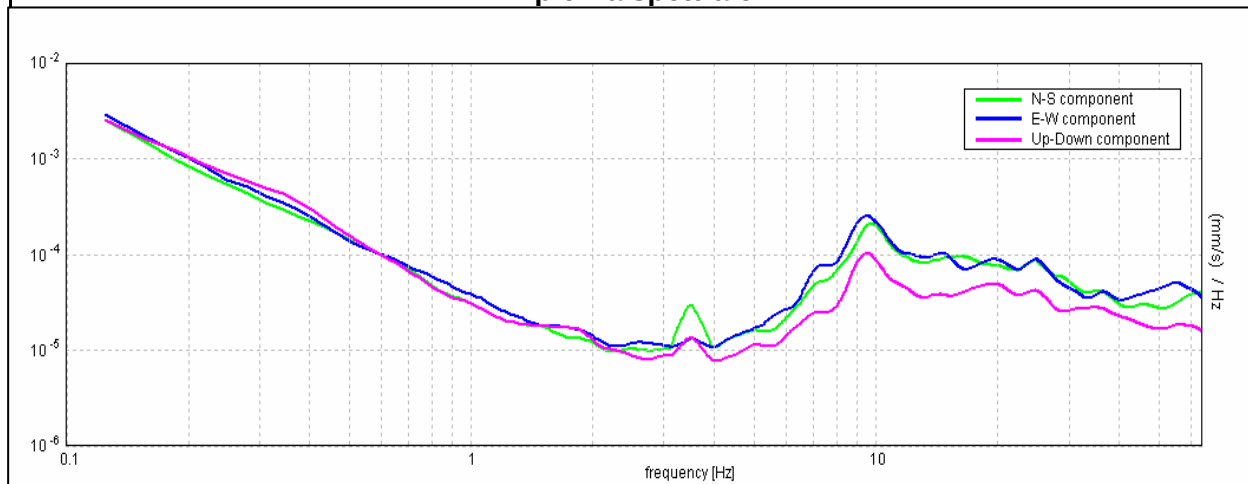
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Lama di Reno
QUOTA: 110 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

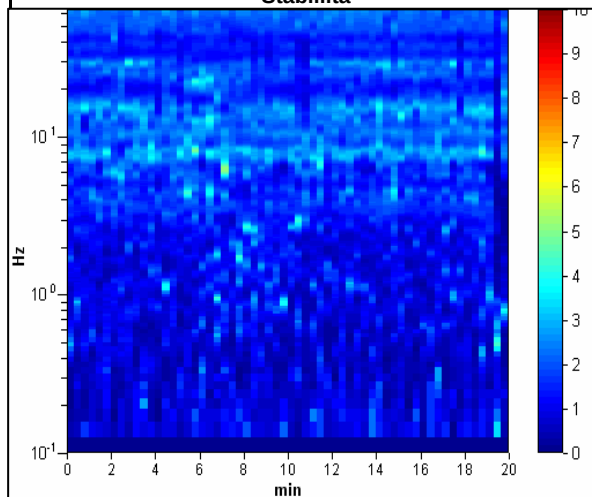
Rapporto spettrale



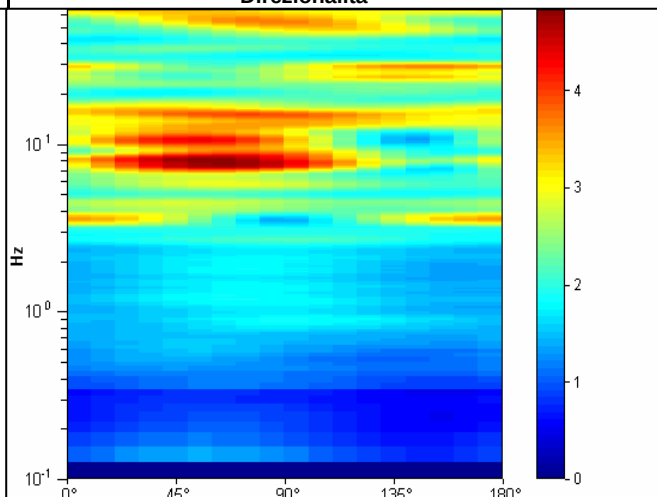
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H25

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Lama di Reno

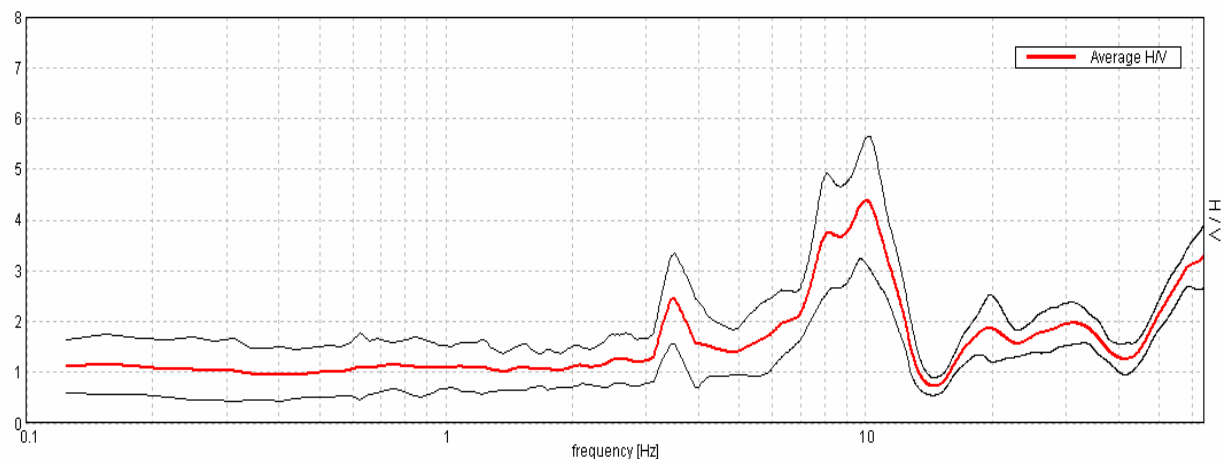
QUOTA: 110 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

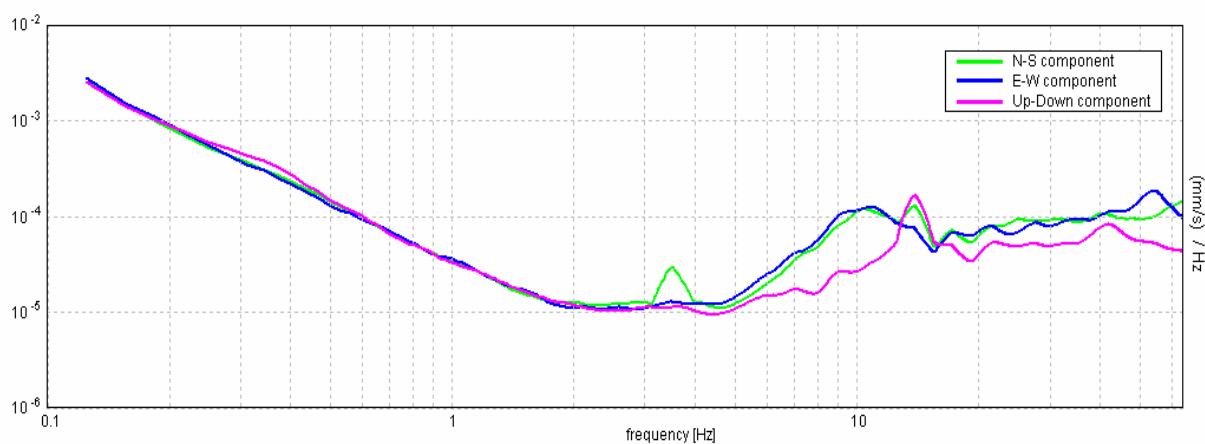
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

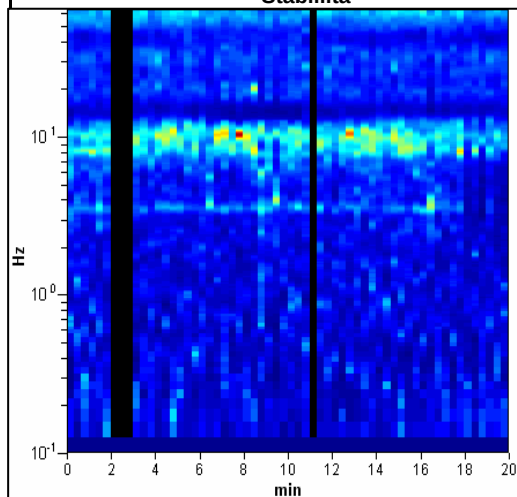
Picco H/V a 10.0 ± 0.79 Hz (nell'intervallo 0.0 - 18.0 Hz).



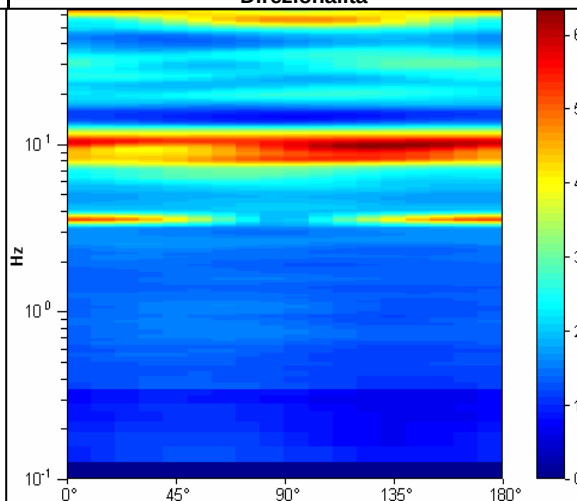
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H26

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

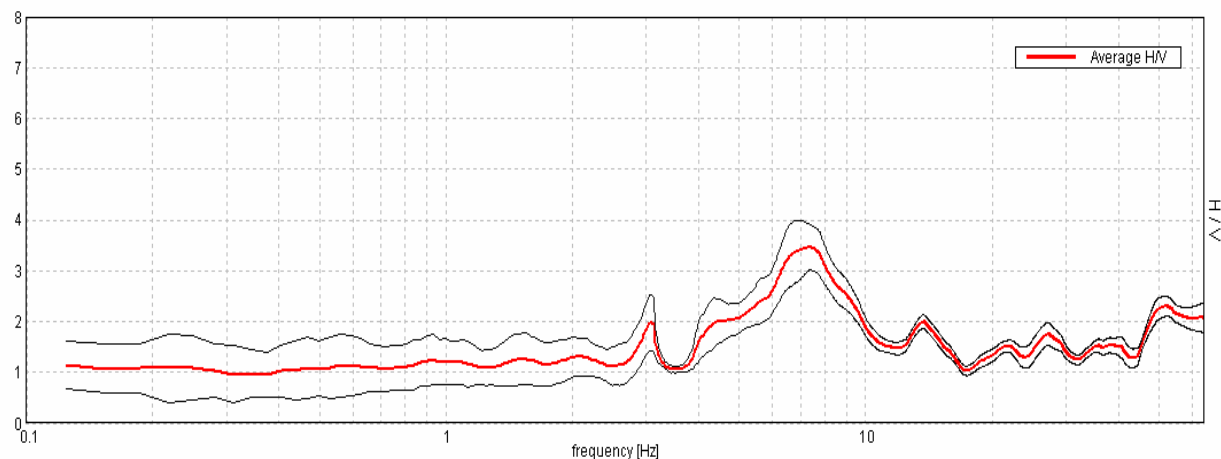
QUOTA: 120 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

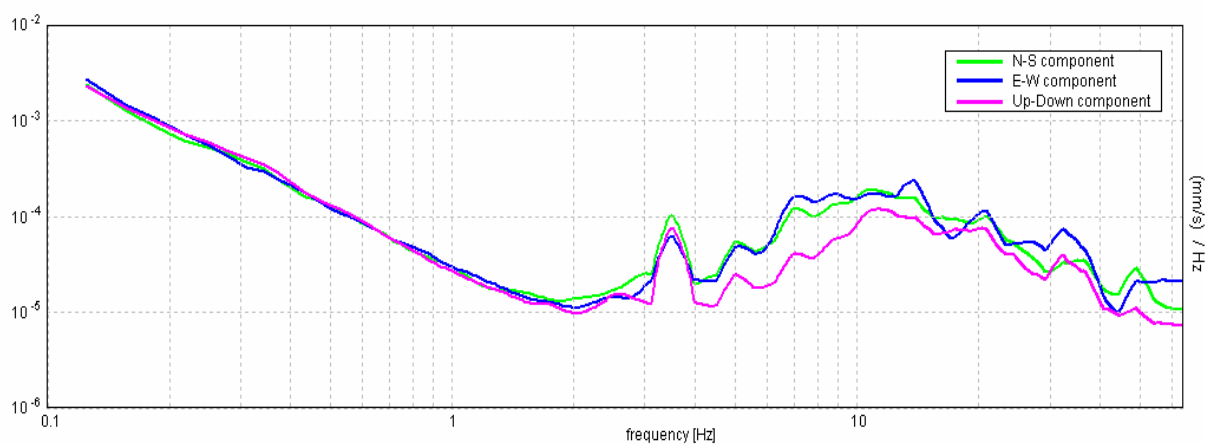
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

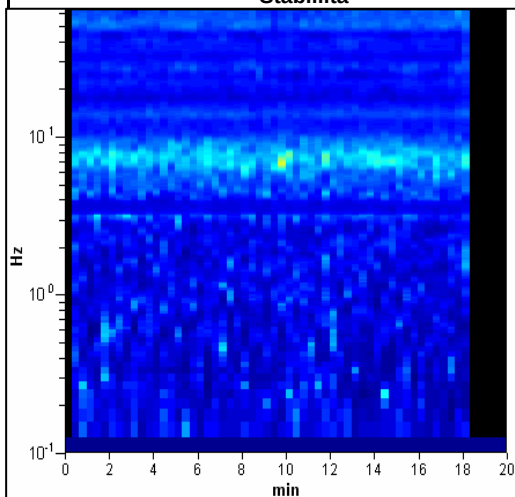
Picco H/V a 7.34 ± 0.13 Hz (nell'intervallo 0.0 - 18.0 Hz).



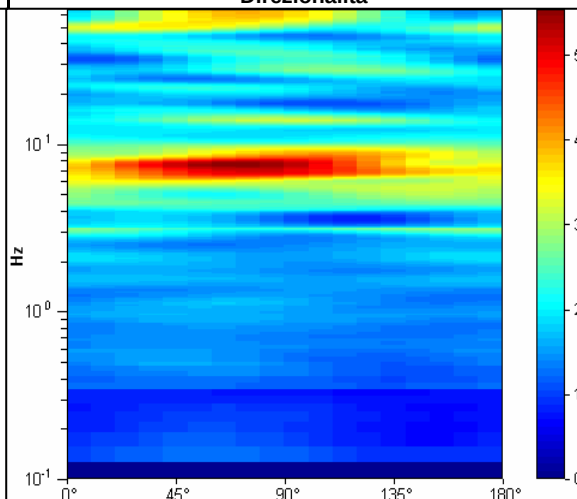
Ampiezza spettrale



Stabilità



Direzionalità



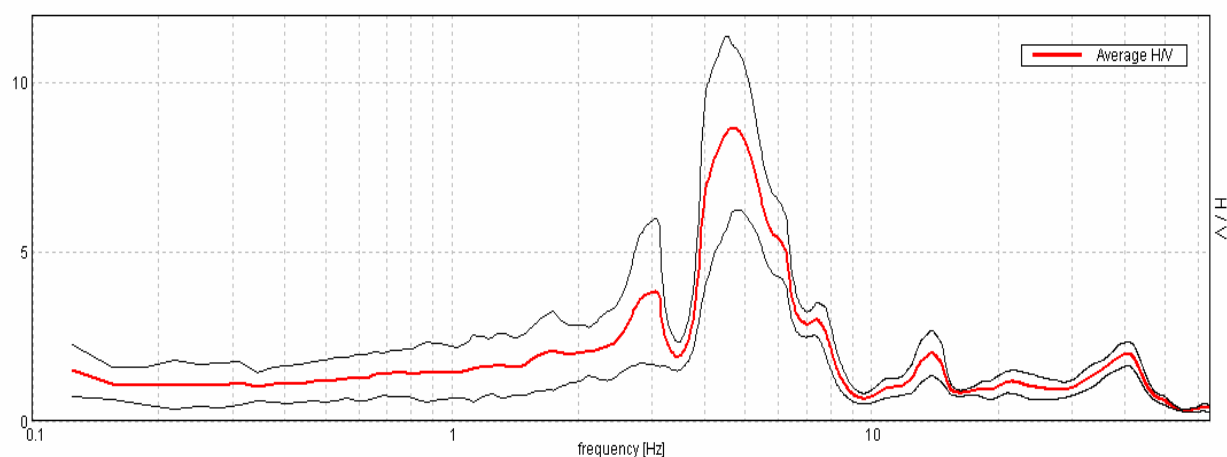
STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H27
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LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Marzabotto
QUOTA: 130 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

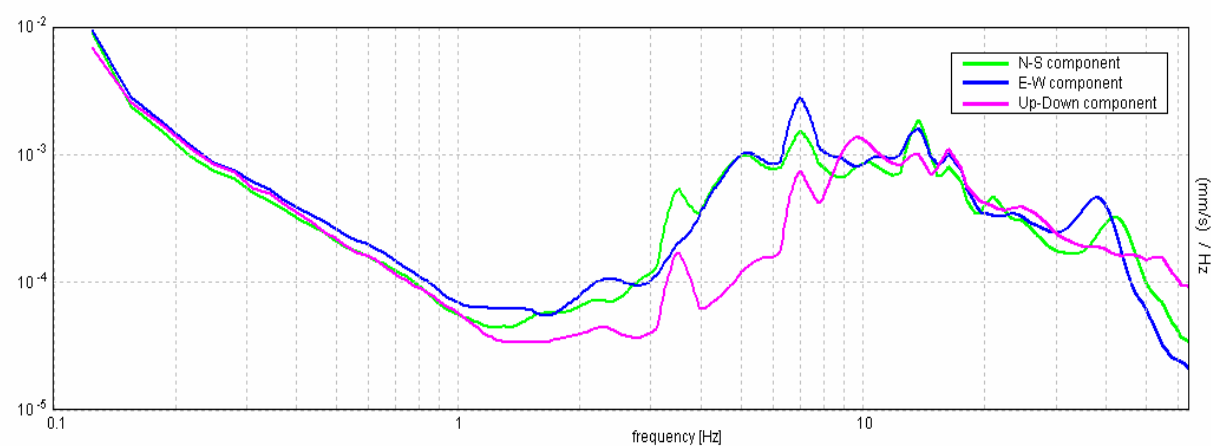
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

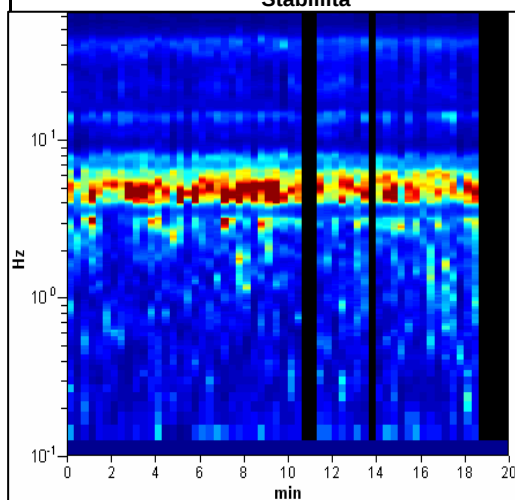
Picco H/V a 4.69 ± 0.16 Hz (nell'intervallo 0.0 - 18.0 Hz).



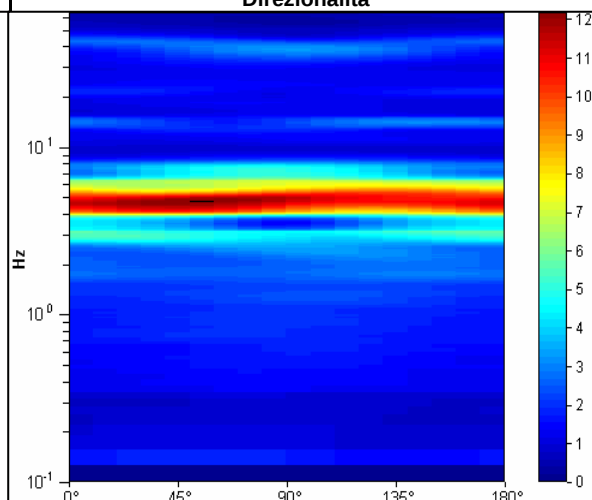
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H28

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

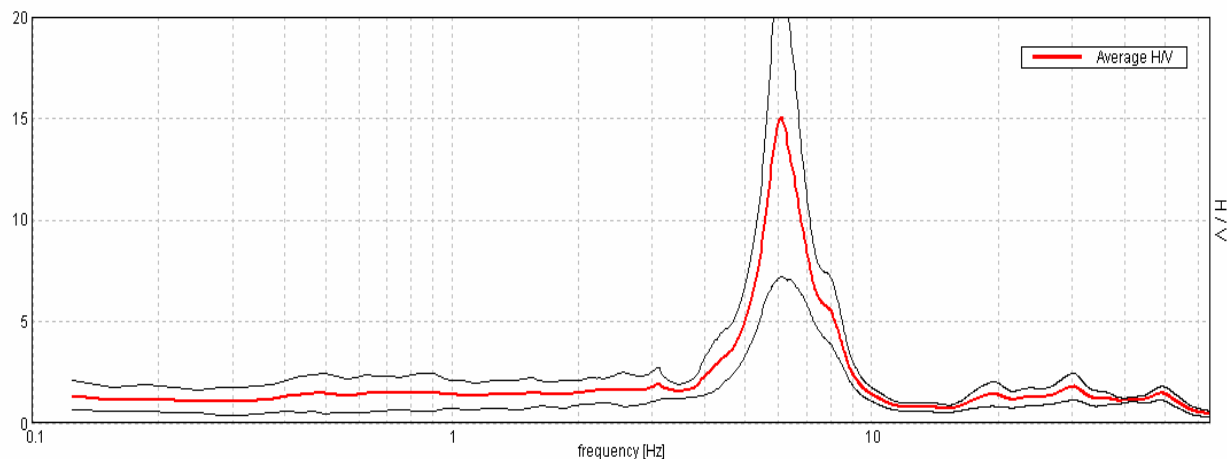
QUOTA: 130 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

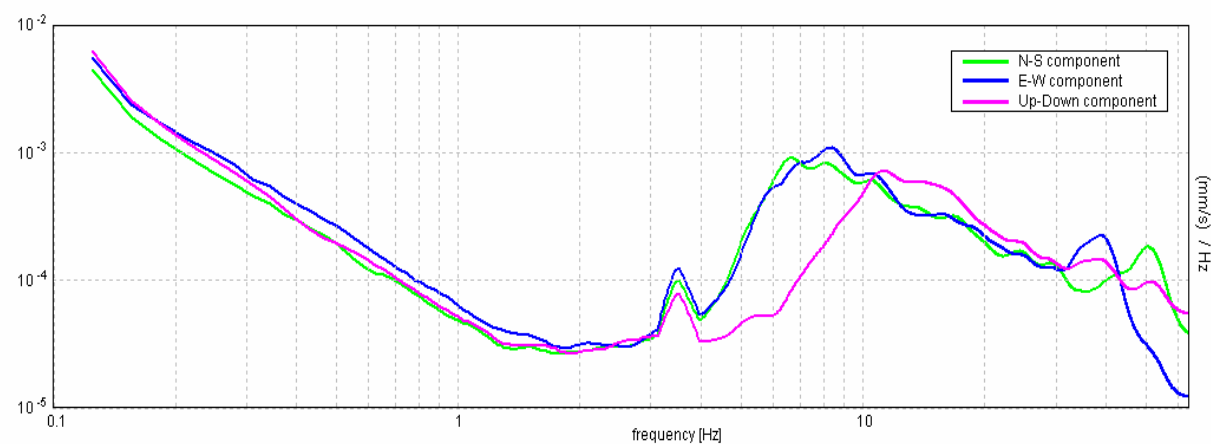
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

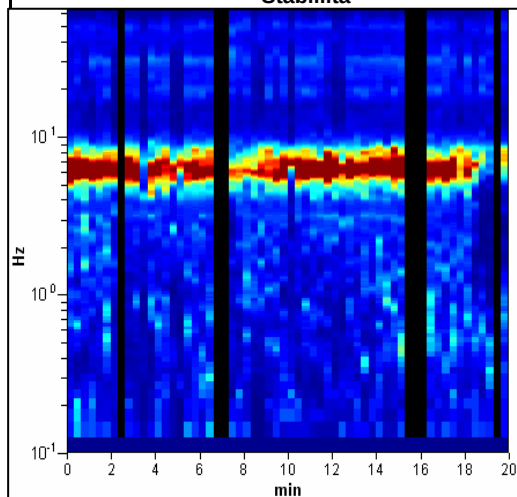
Picco H/V a 6.09 ± 0.04 Hz (nell'intervallo 0.0 - 18.0 Hz).



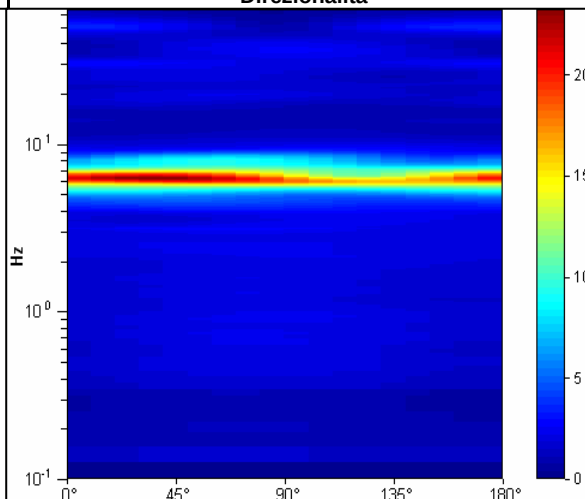
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H29

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

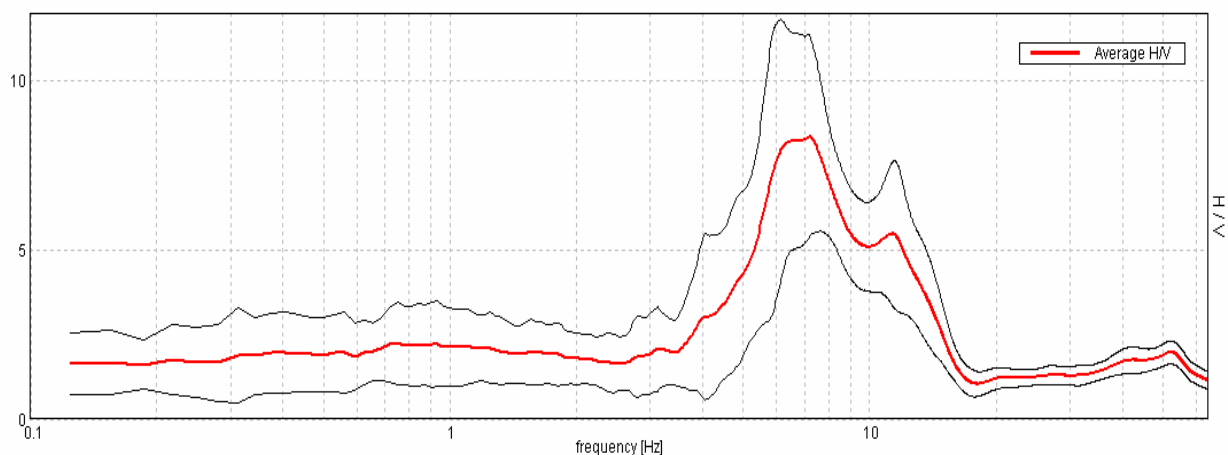
QUOTA: 130 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

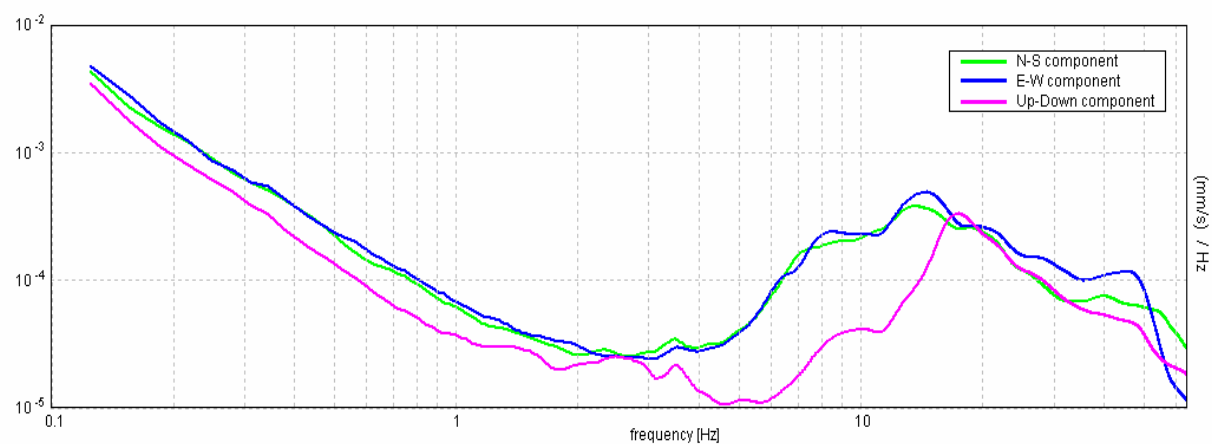
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

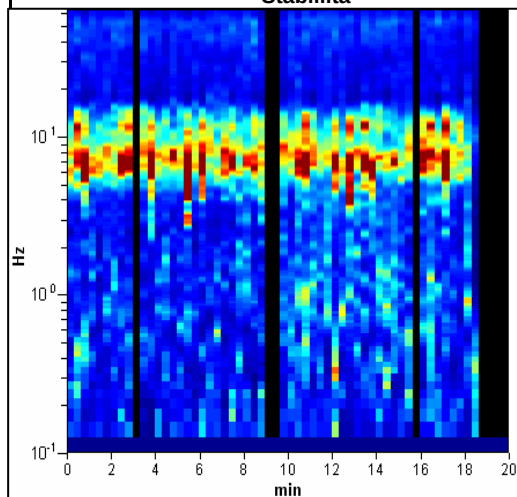
Picco H/V a 7.19 ± 0.81 Hz (nell'intervallo 0.0 - 18.0 Hz).



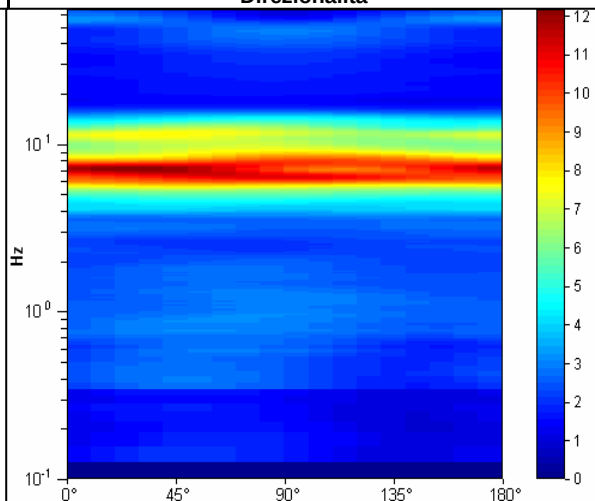
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H30

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Marzabotto

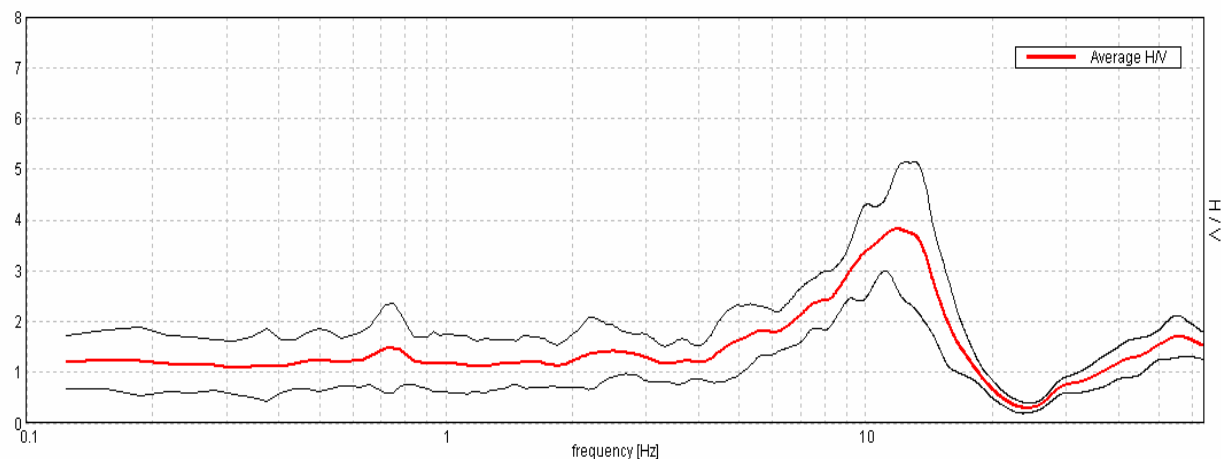
QUOTA: 125 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

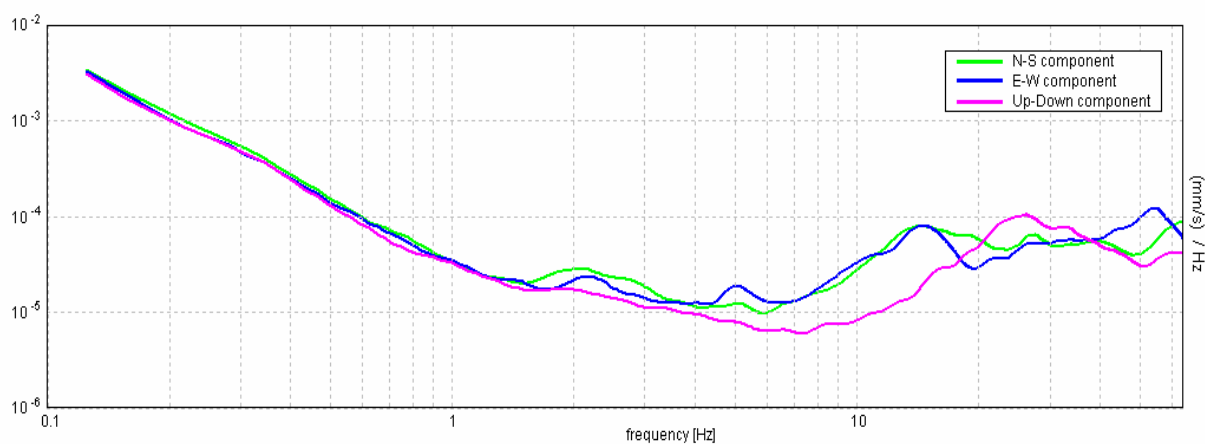
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

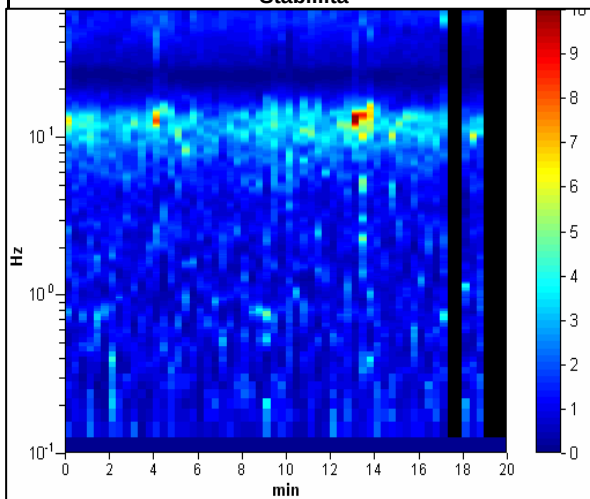
Picco HV a 11.78 ± 0.21 Hz (nell'intervallo 0.0 - 18.0 Hz).



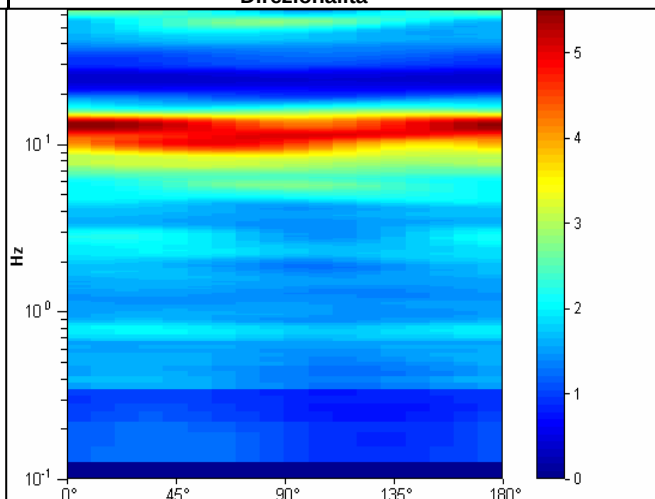
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H31

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Pian di Venola

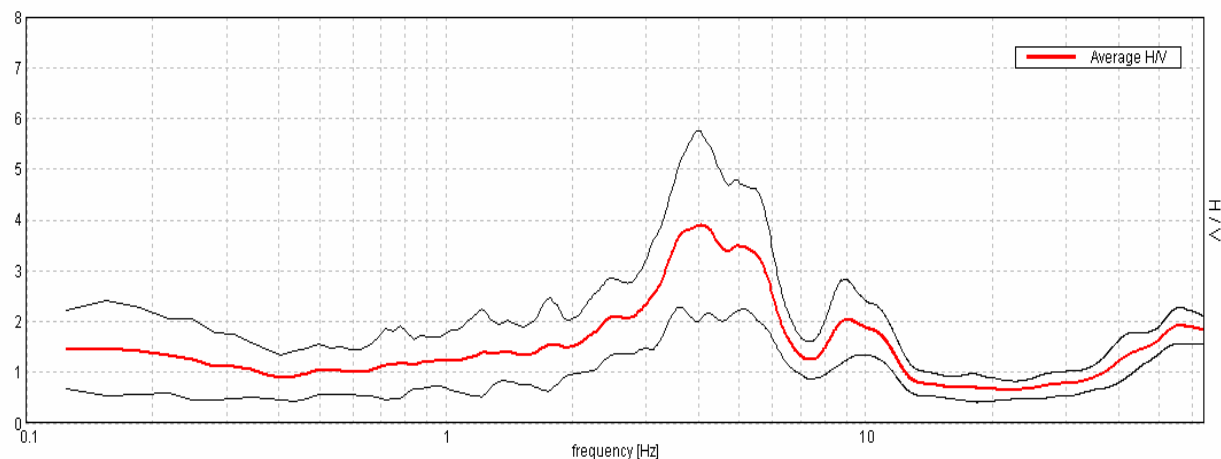
QUOTA: 155 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

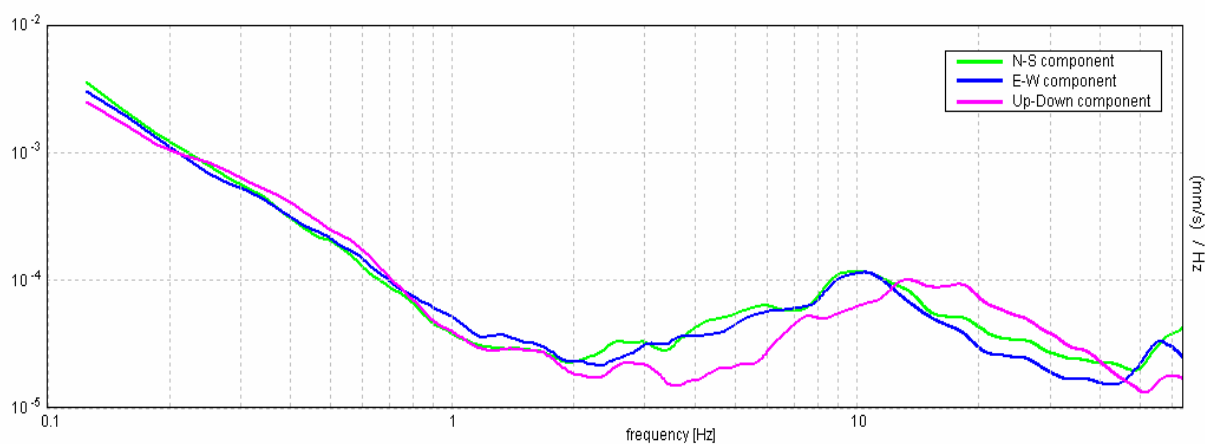
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

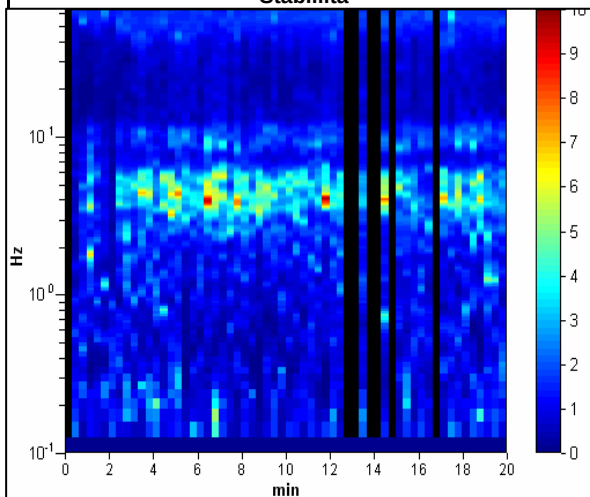
Picco H/V a 4.06 ± 0.79 Hz (nell'intervallo 0.0 - 18.0 Hz).



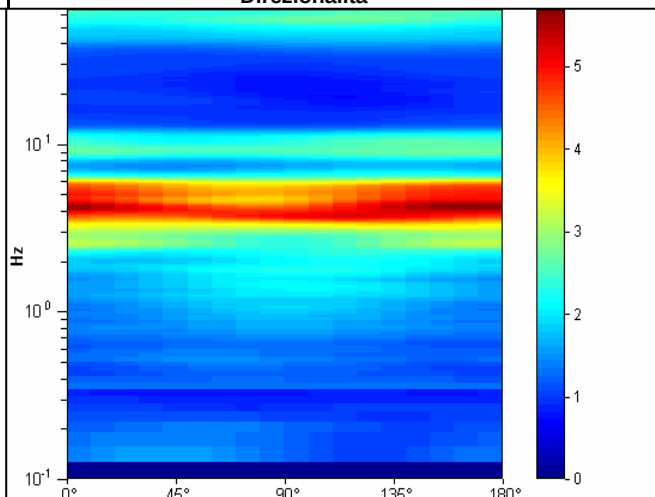
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H32

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Sibano

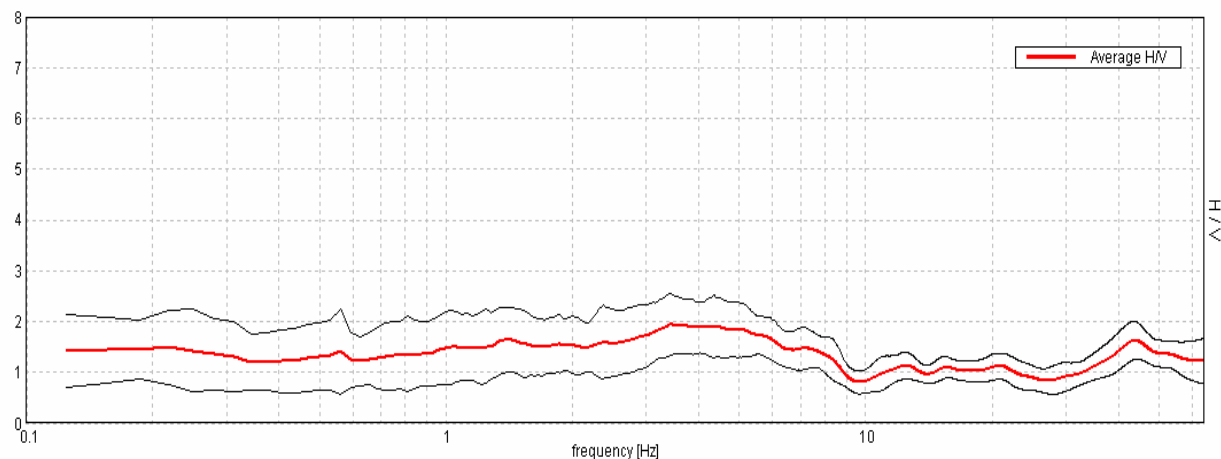
QUOTA: 155 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

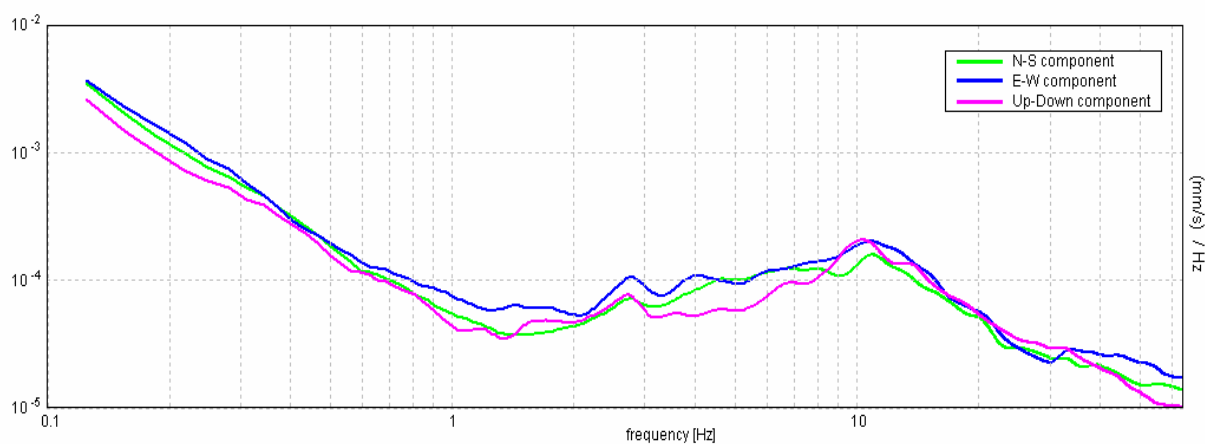
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

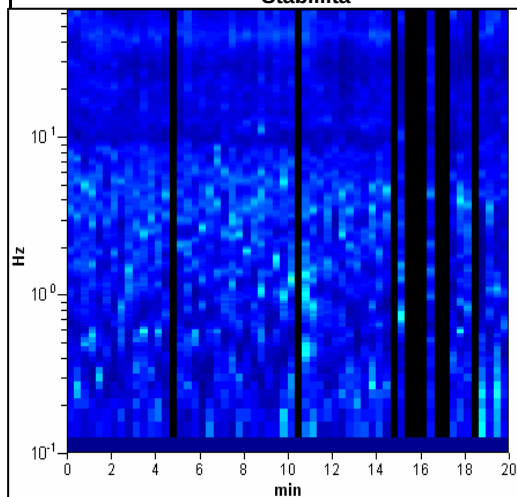
Picco H/V a 3.44 ± 0.84 Hz (nell'intervallo 0.0 - 18.0 Hz).



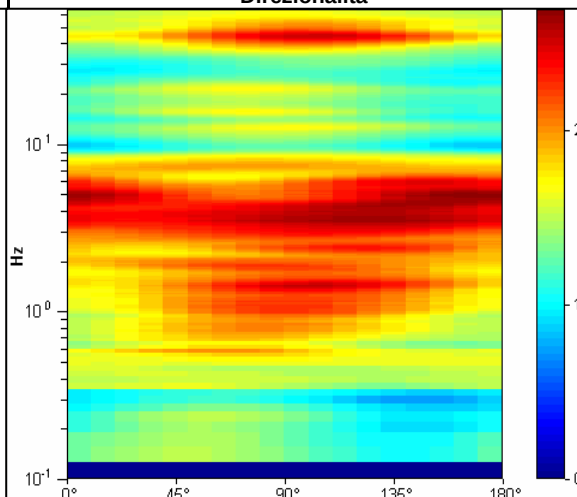
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H33

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 19-12-2013

CANTIERE: Capoluogo

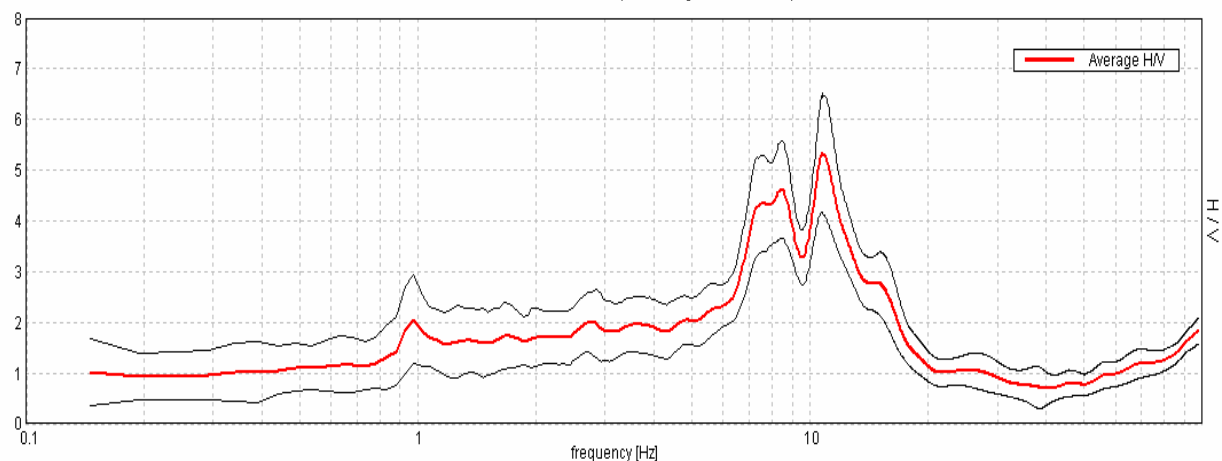
QUOTA: 178 m. s.l.m.

OPERATORI: Arbizzi A.

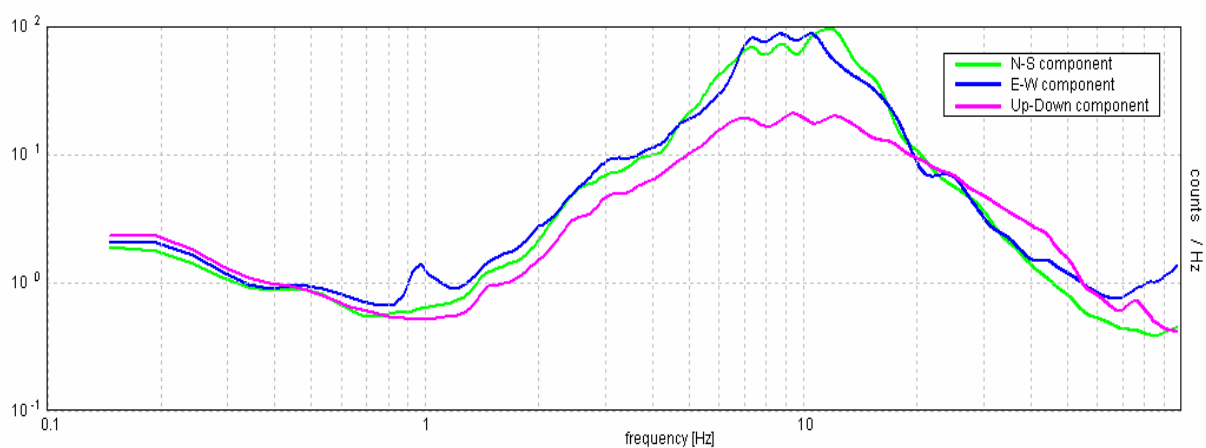
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

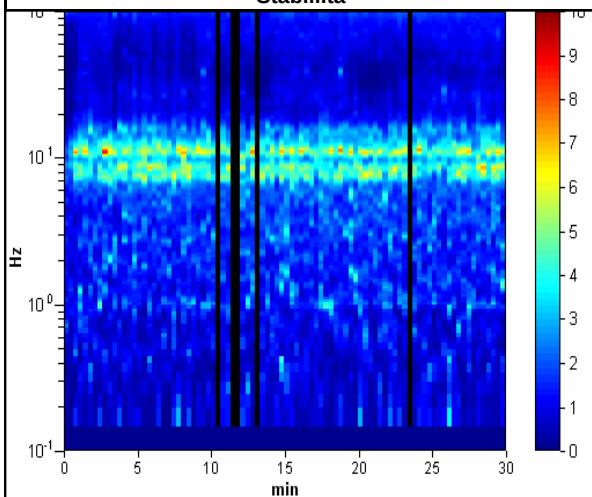
Max. HV at 10.74 ± 0.3 Hz. (In the range 0.0 - 18.0 Hz).



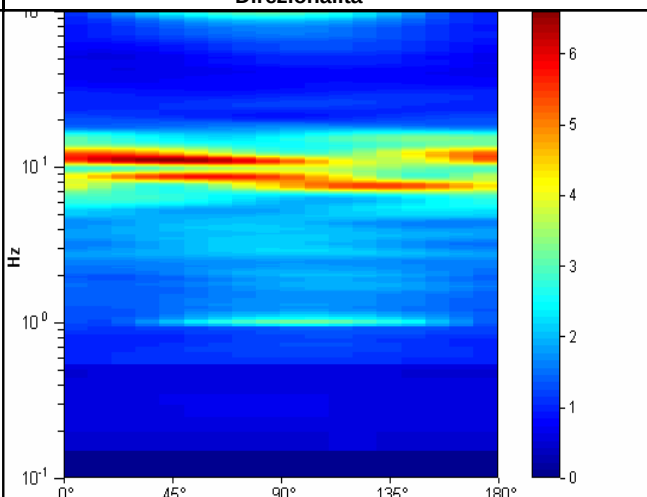
Ampiezza spettrale

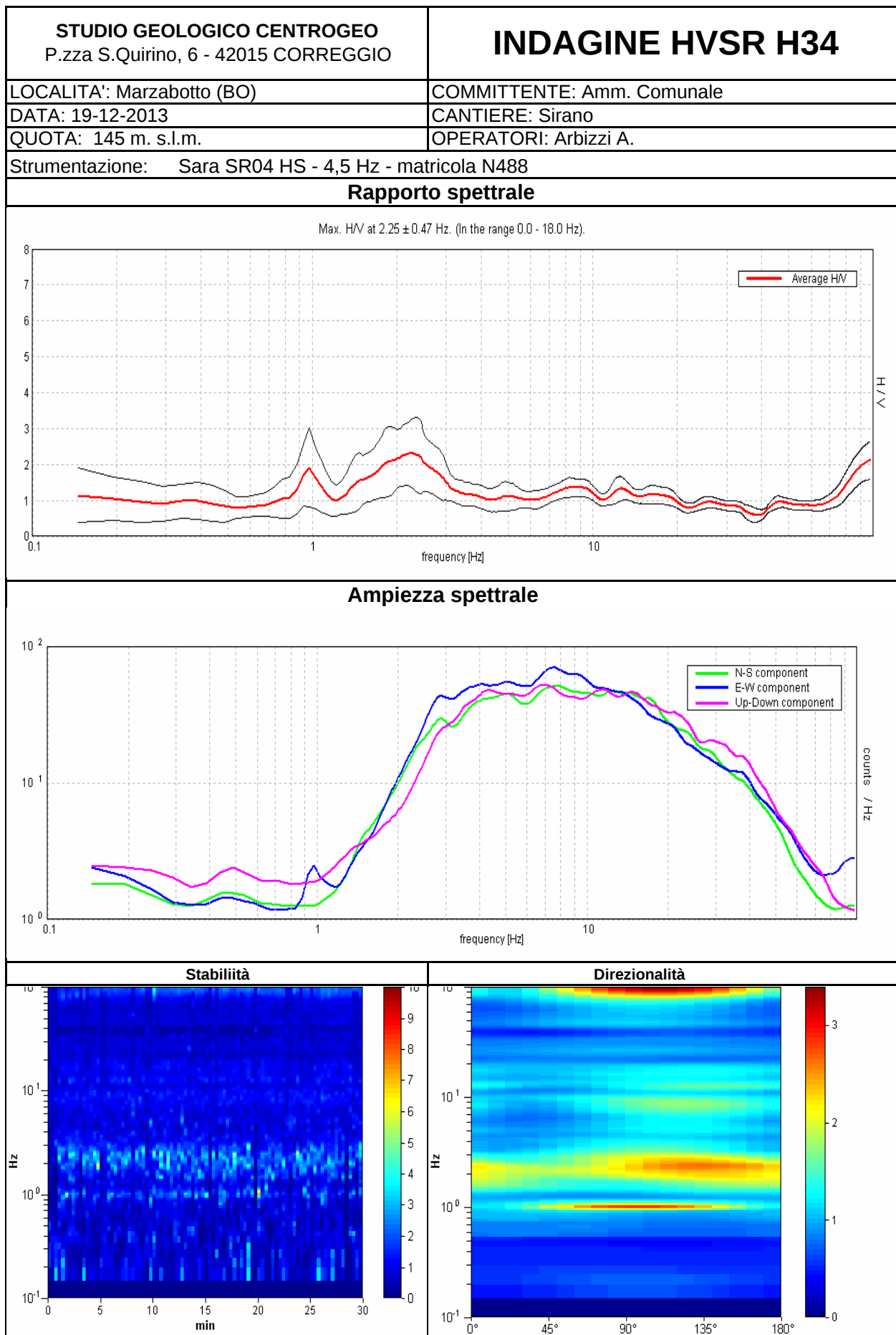


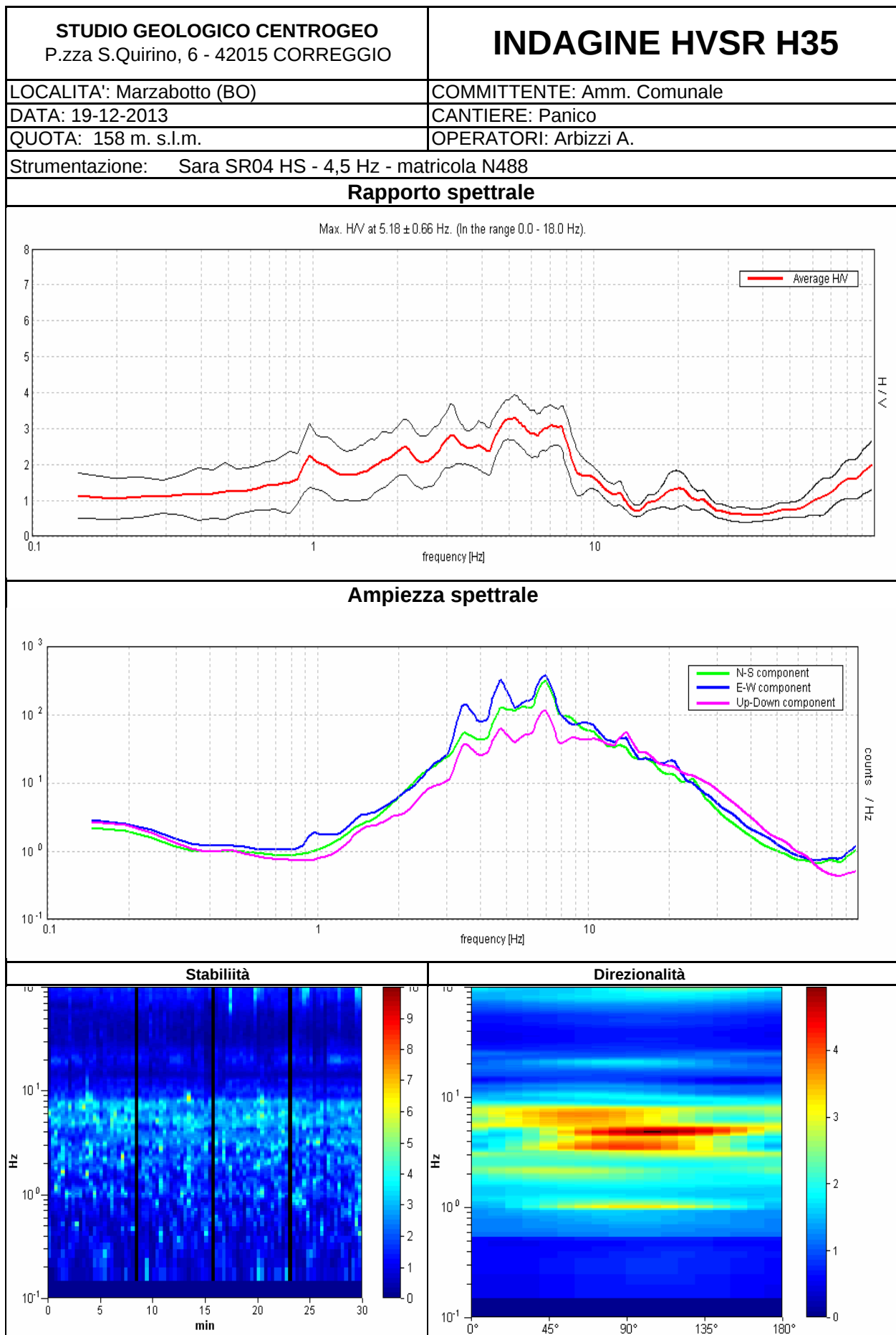
Stabilità

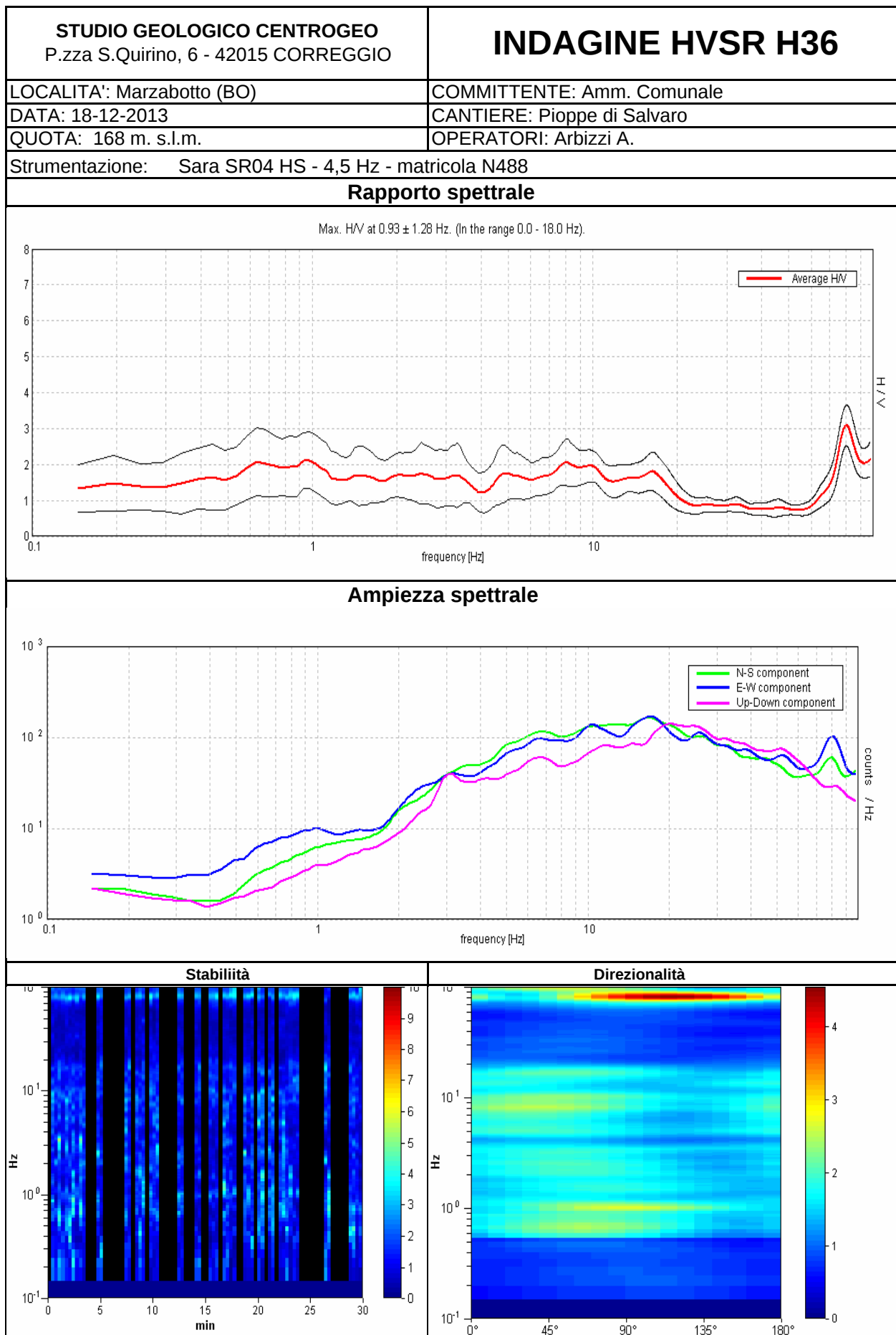


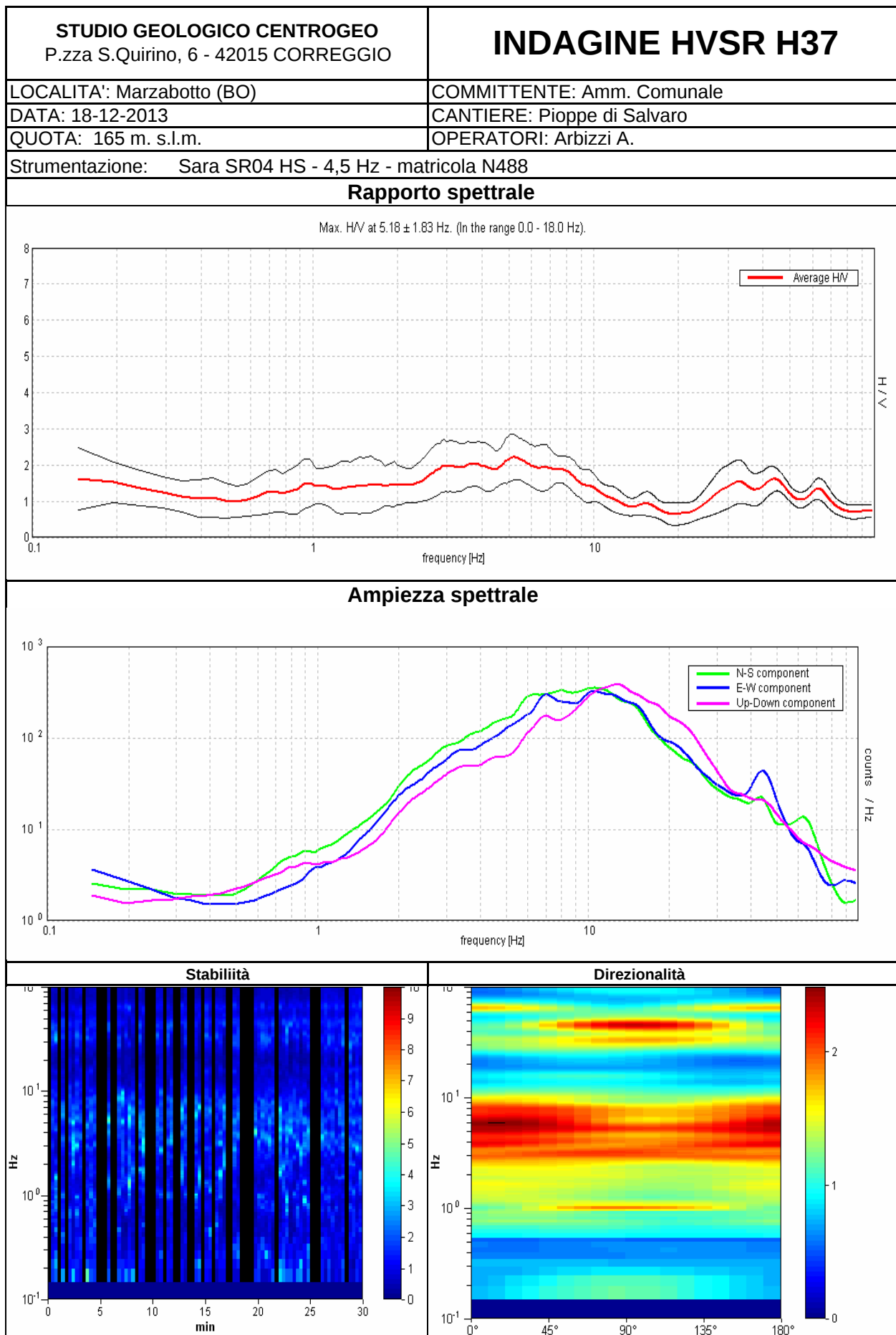
Direzionalità









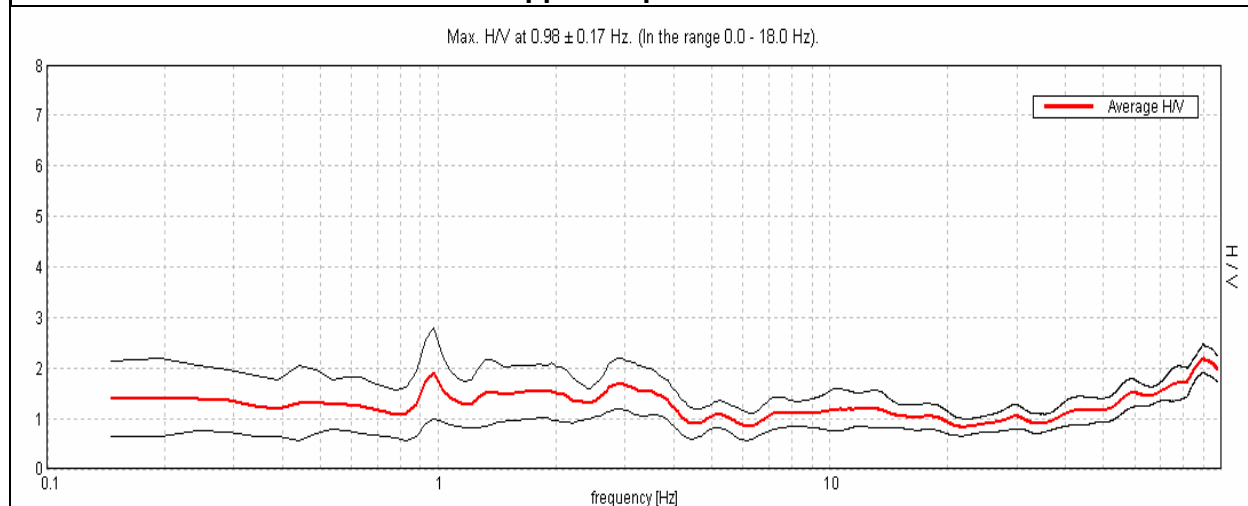


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H38
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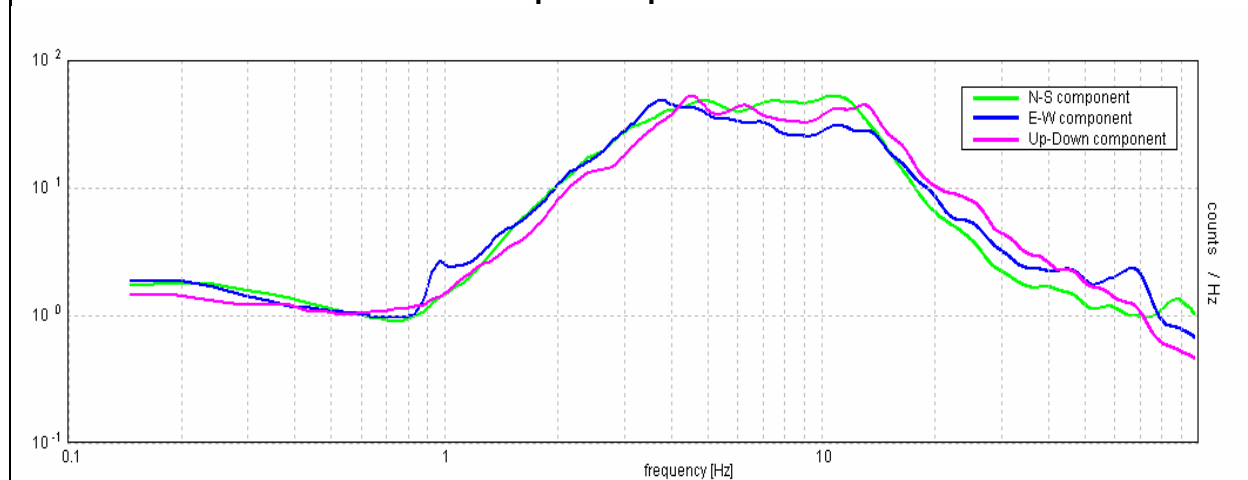
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 18-12-2013	CANTIERE: Sibano
QUOTA: 183 m. s.l.m.	OPERATORI: Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

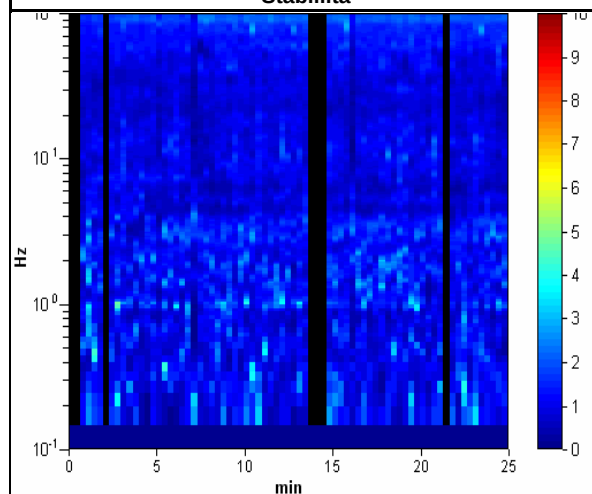
Rapporto spettrale



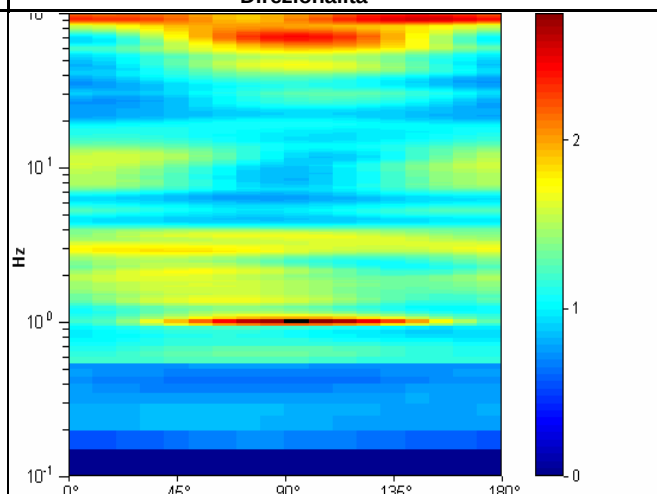
Ampiezza spettrale



Stabilità



Direzionalità

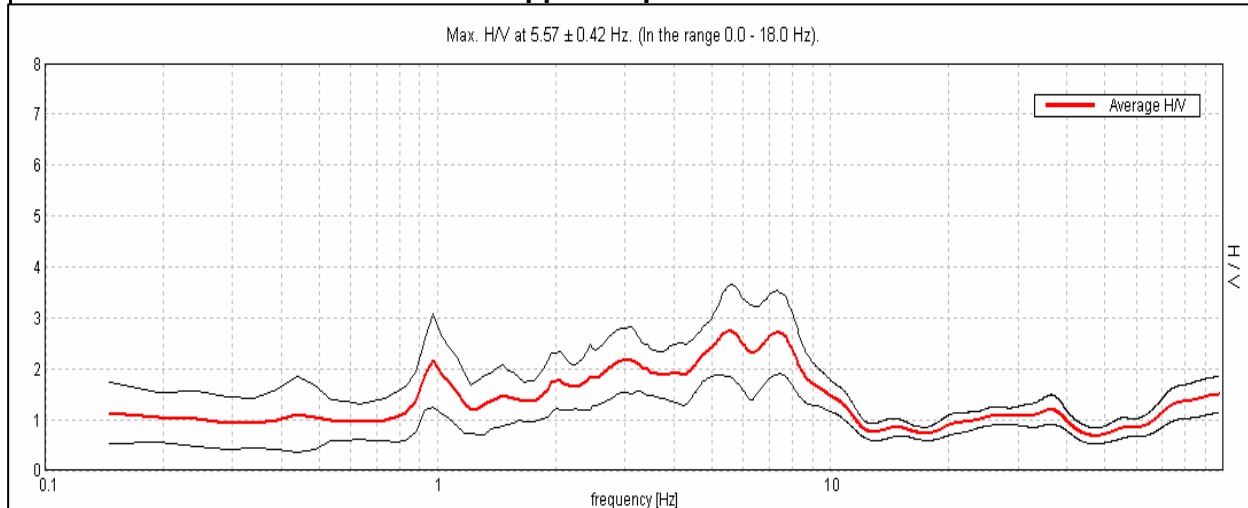


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H39
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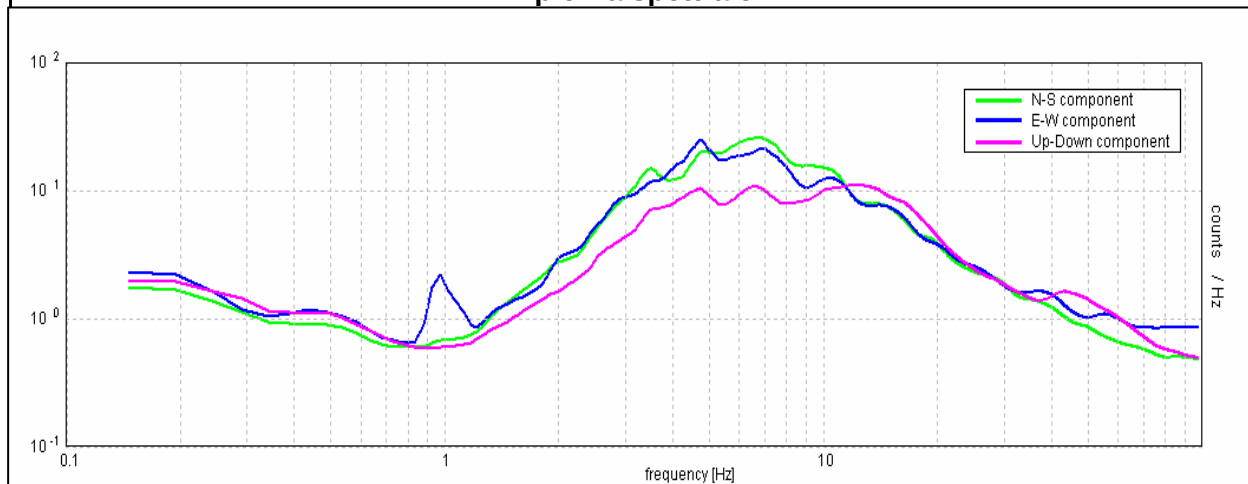
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 19-12-2013	CANTIERE: Sperticano
QUOTA: 170 m. s.l.m.	OPERATORI: Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

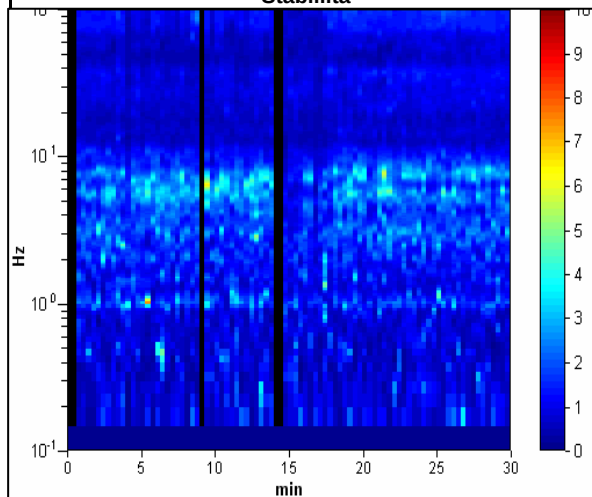
Rapporto spettrale



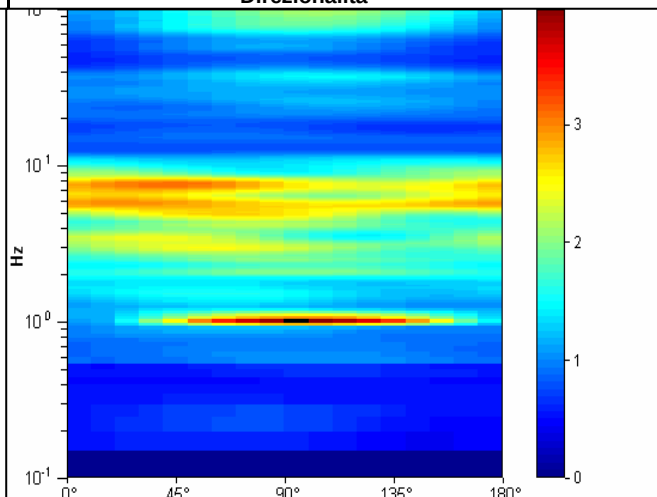
Ampiezza spettrale



Stabilità



Direzionalità

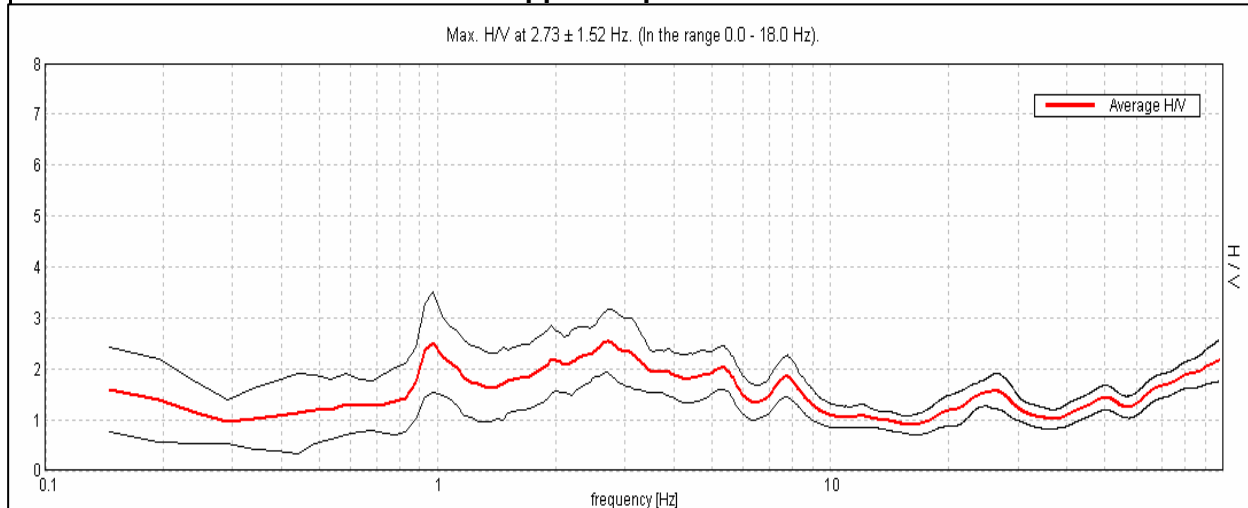


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H40
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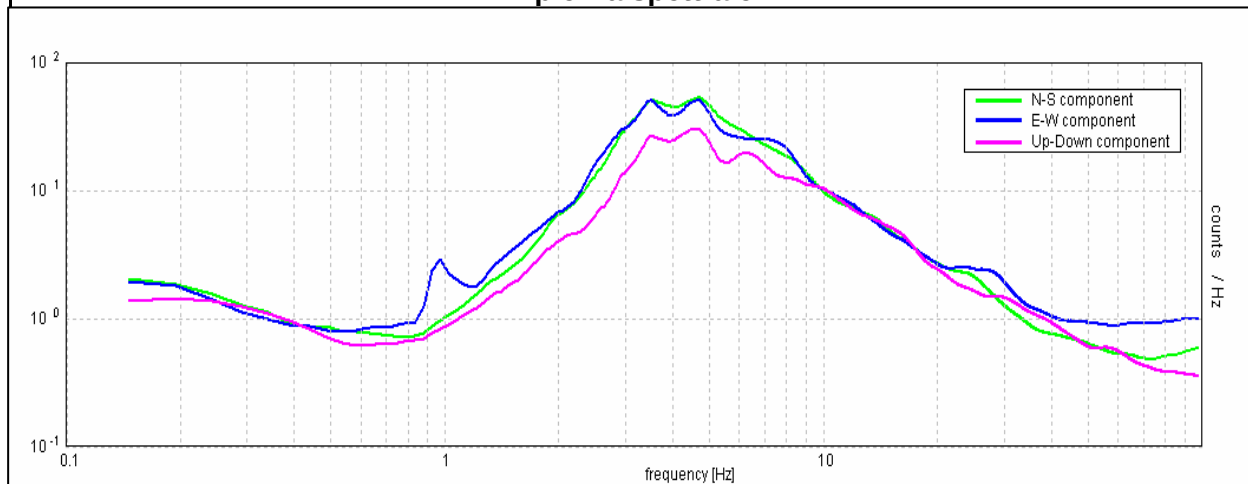
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 18-12-2013	CANTIERE: Sperticano
QUOTA: 215 m. s.l.m.	OPERATORI: Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

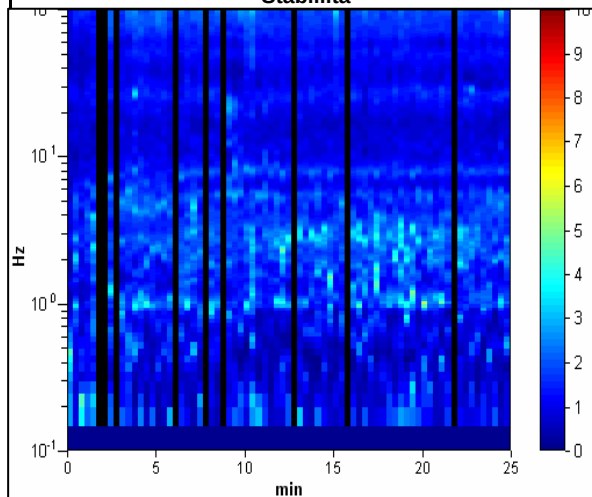
Rapporto spettrale



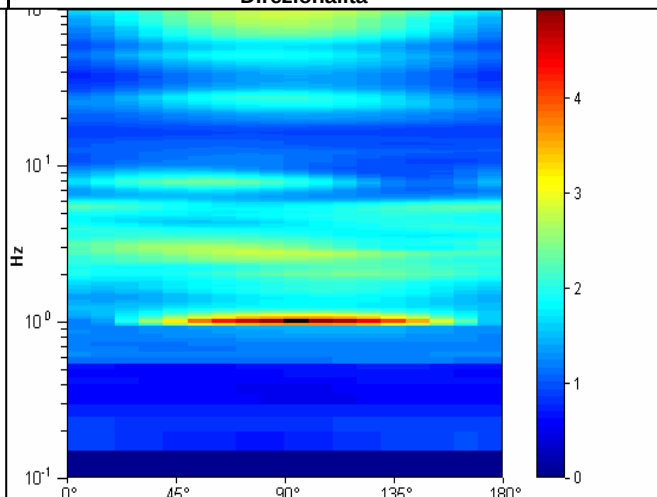
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H41

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 19-12-2013

CANTIERE: Cà Lamma

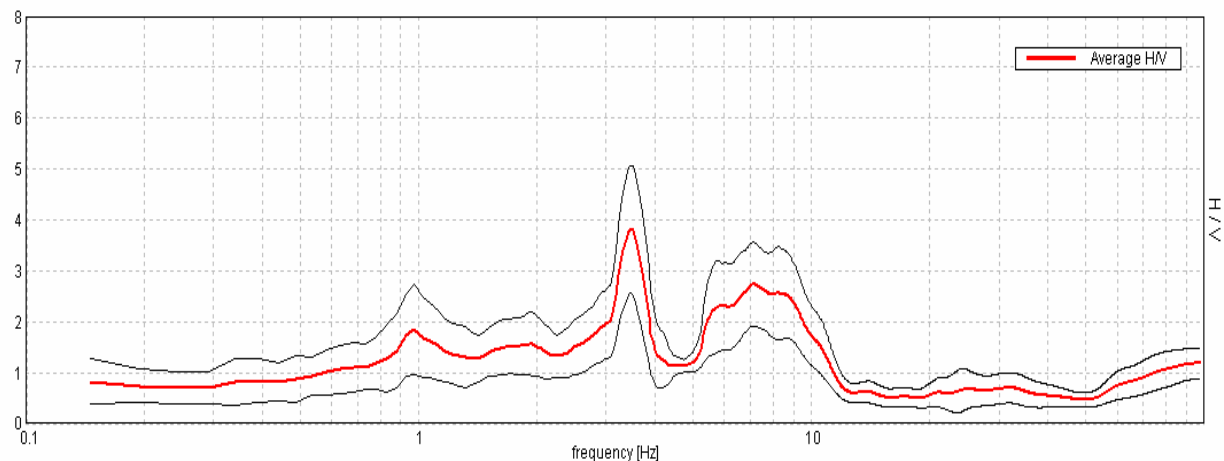
QUOTA: 215 m. s.l.m.

OPERATORI: Arbizzi A.

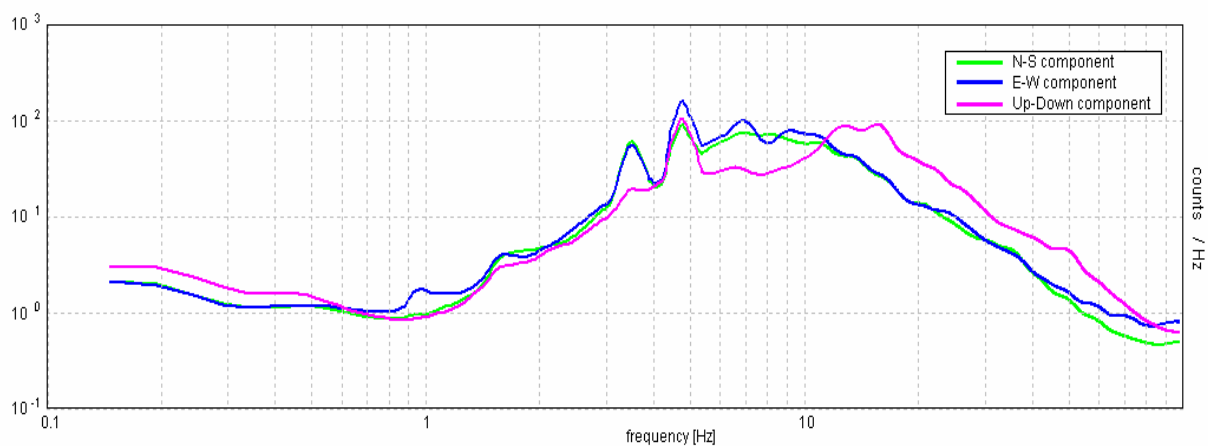
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

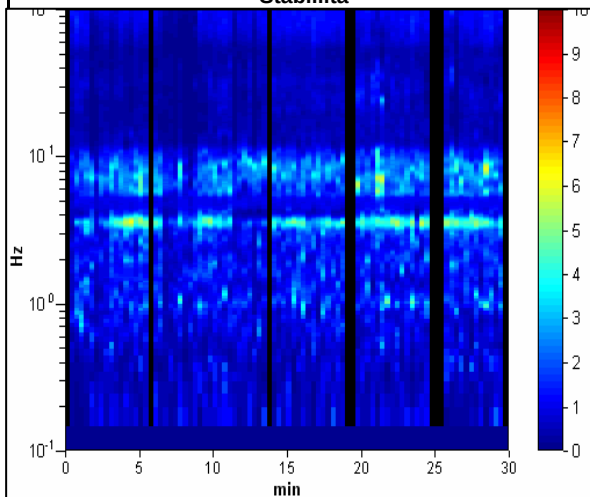
Max. H/V at 3.47 ± 1.16 Hz. (In the range 0.0 - 18.0 Hz).



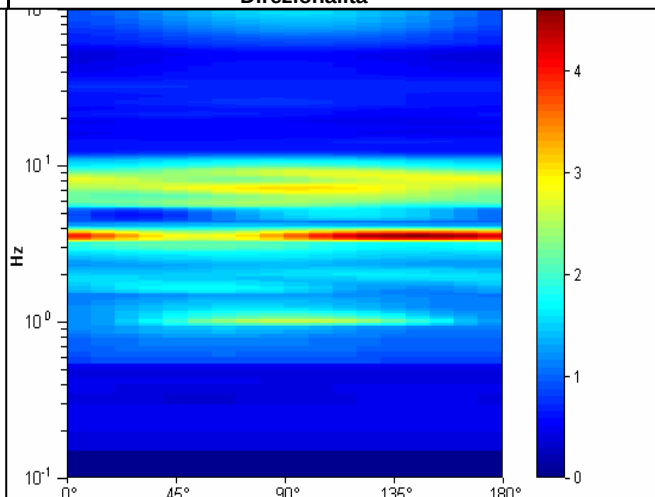
Ampiezza spettrale



Stabilità



Direzionalità

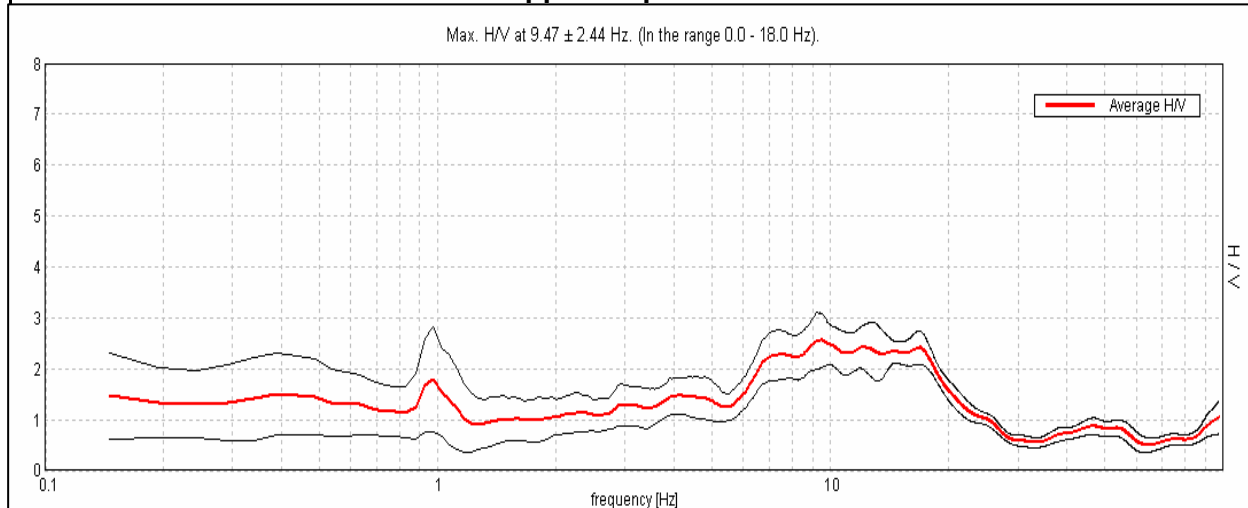


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H42
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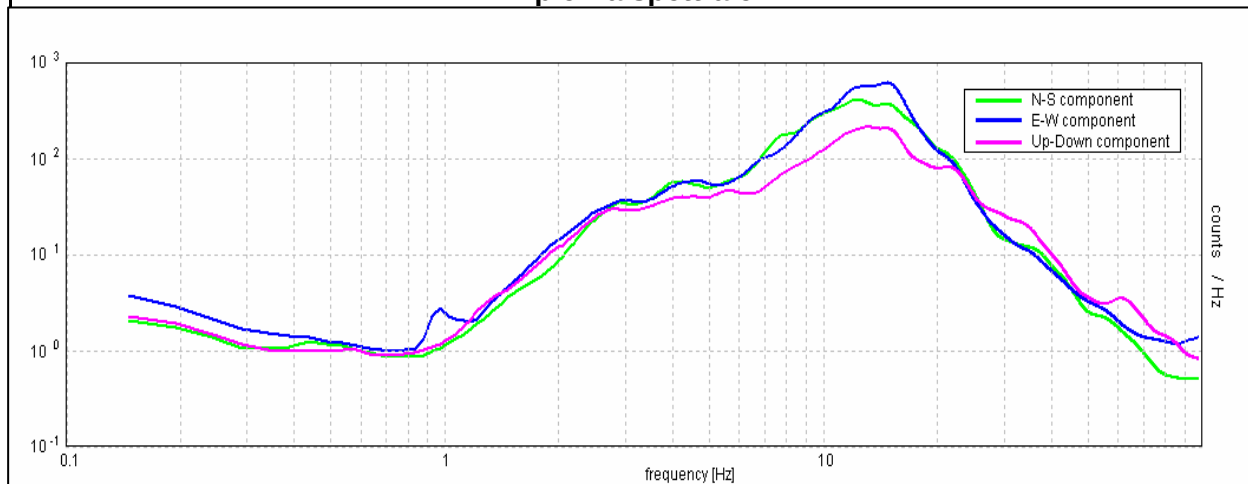
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 19-12-2013	CANTIERE: Gardelletta
QUOTA: 185 m. s.l.m.	OPERATORI: Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

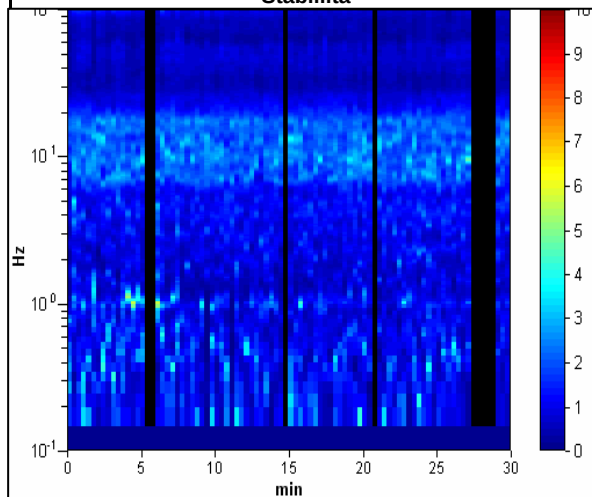
Rapporto spettrale



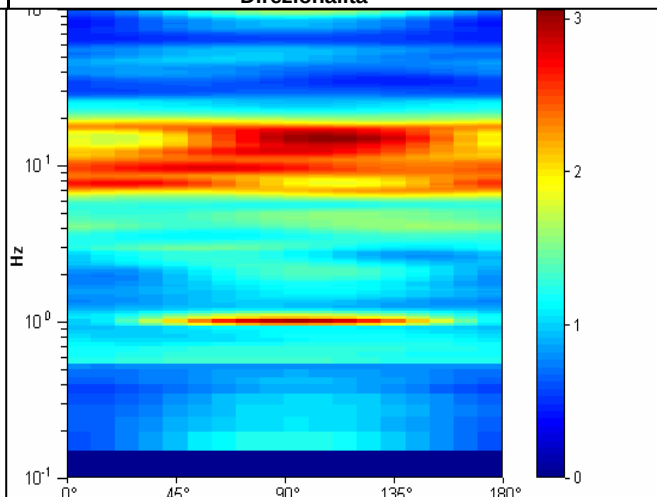
Ampiezza spettrale



Stabilità



Direzionalità

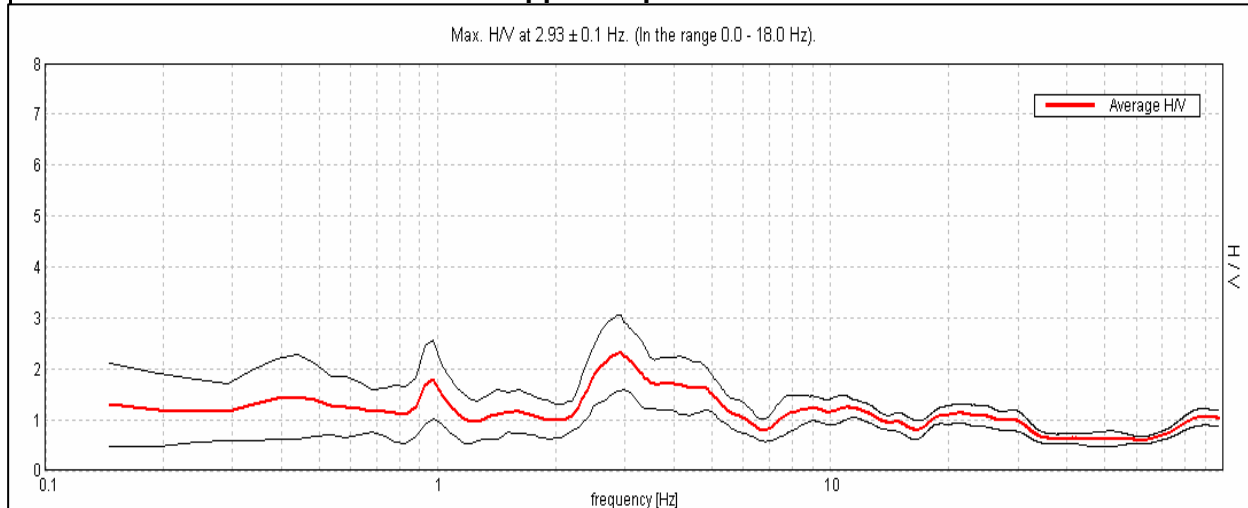


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H43
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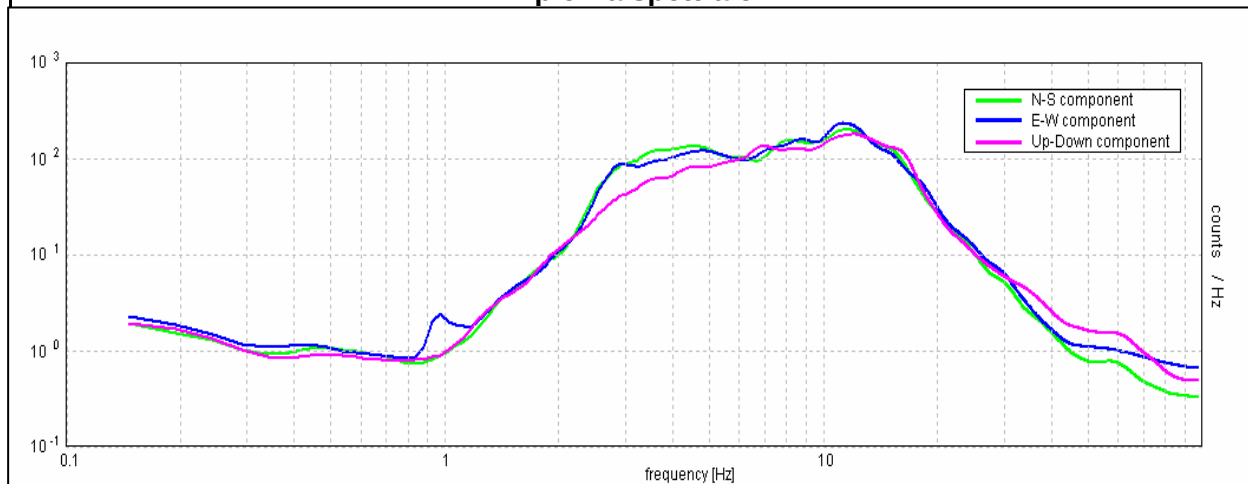
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 19-12-2013	CANTIERE: Gardelletta
QUOTA: 180 m. s.l.m.	OPERATORI: Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

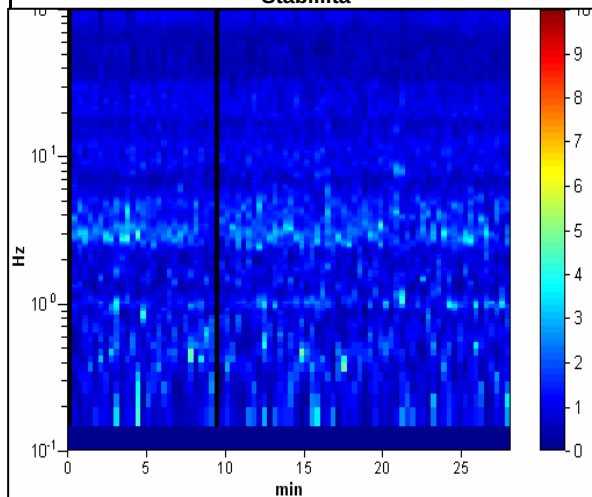
Rapporto spettrale



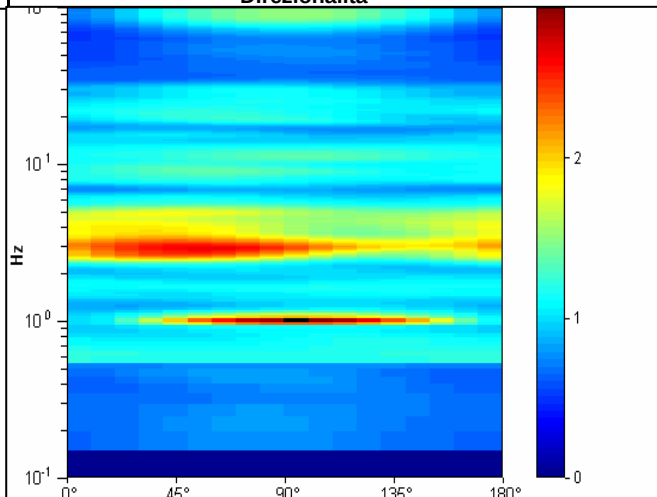
Ampiezza spettrale

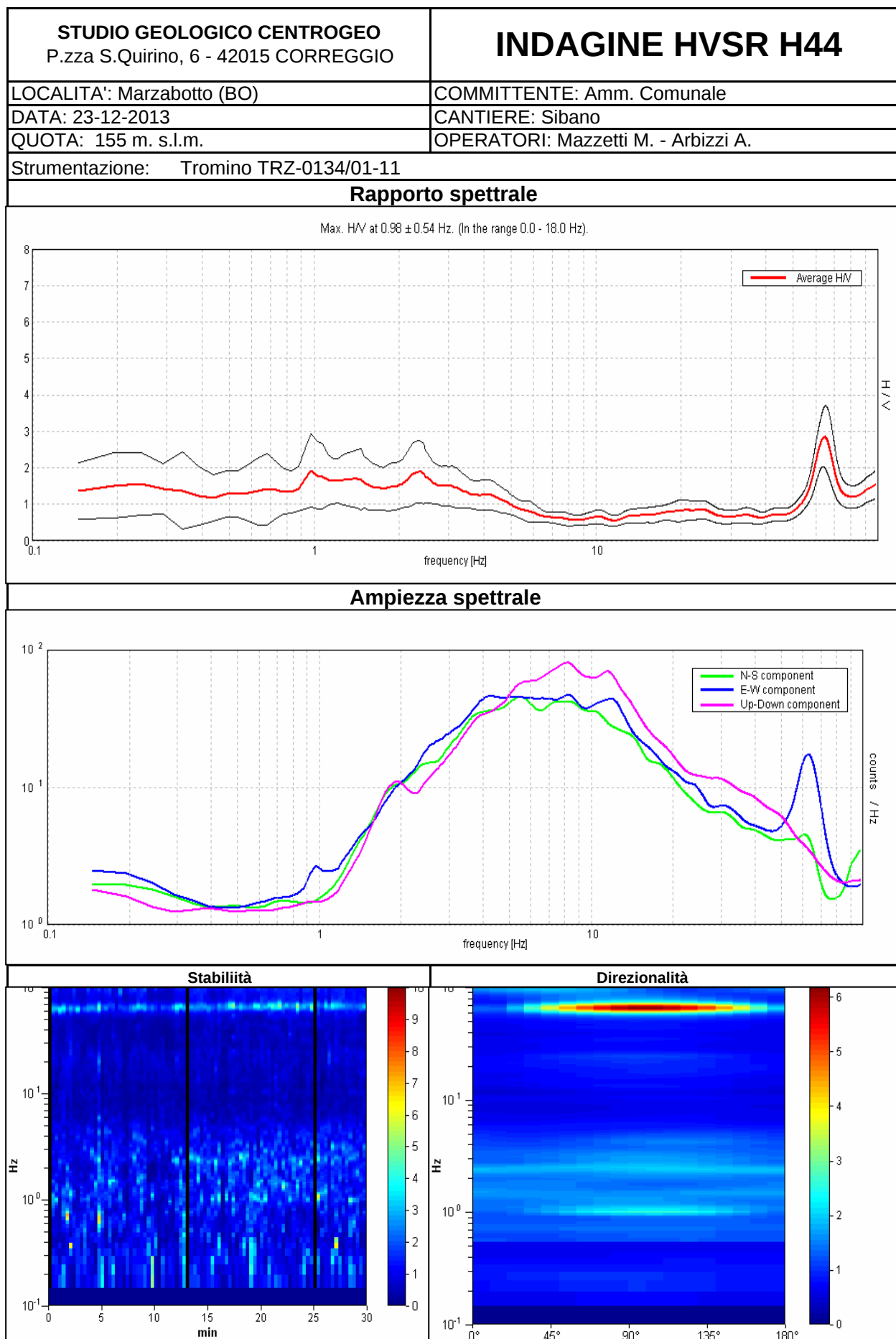


Stabilità



Direzionalità





STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H45

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 19-12-2013

CANTIERE: Sperticano

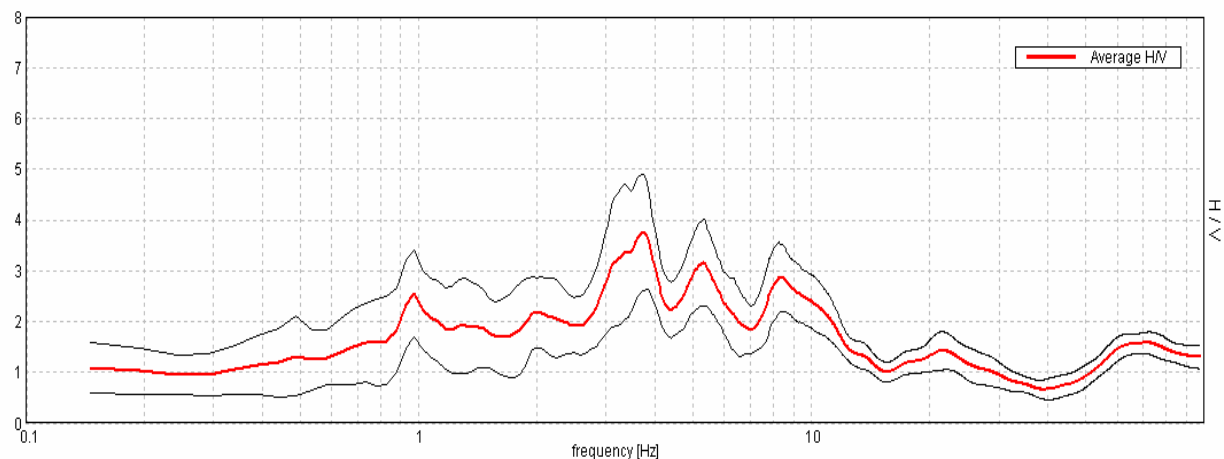
QUOTA: 160 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

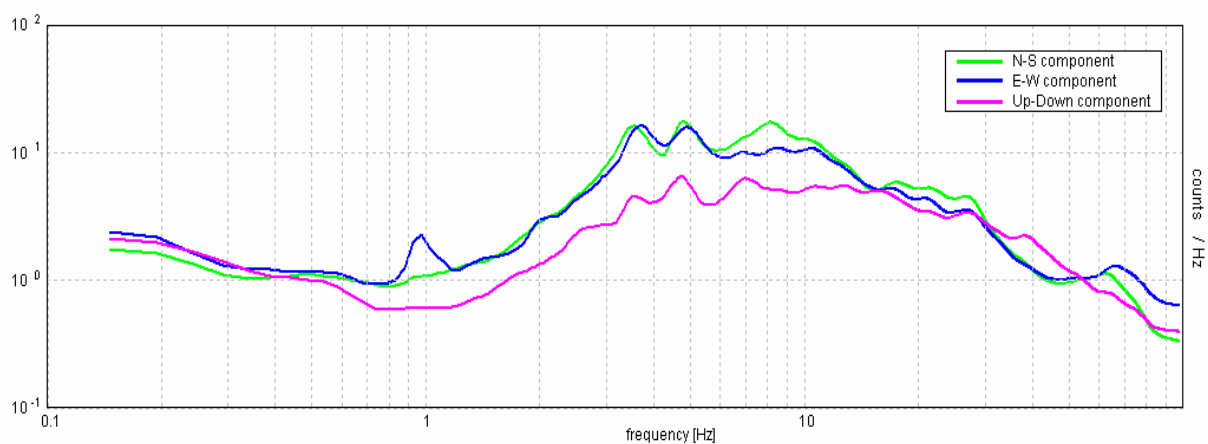
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

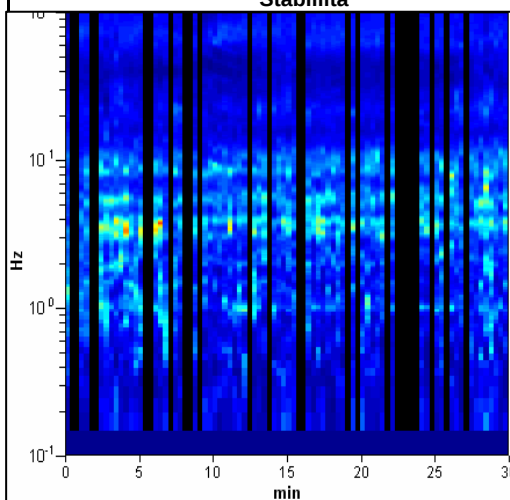
Max. HV at 3.71 ± 0.57 Hz. (in the range 0.0 - 18.0 Hz).



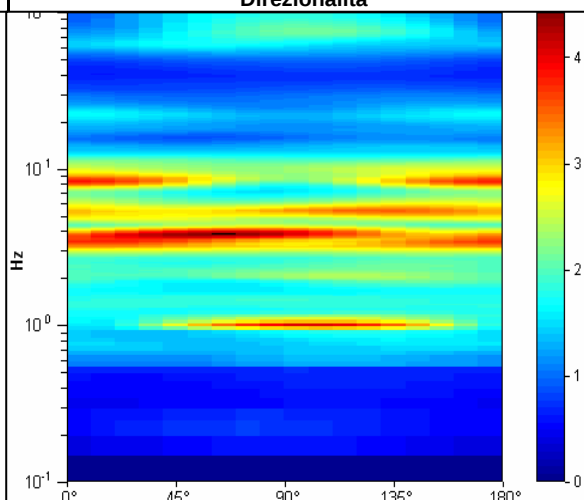
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H46

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 23-12-2013

CANTIERE: Pian di Venola

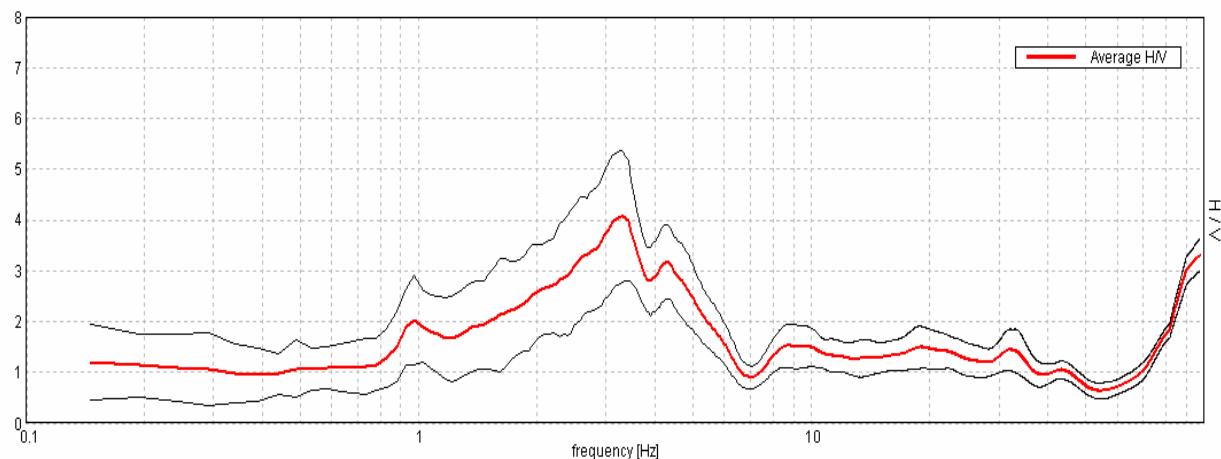
QUOTA: 160 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

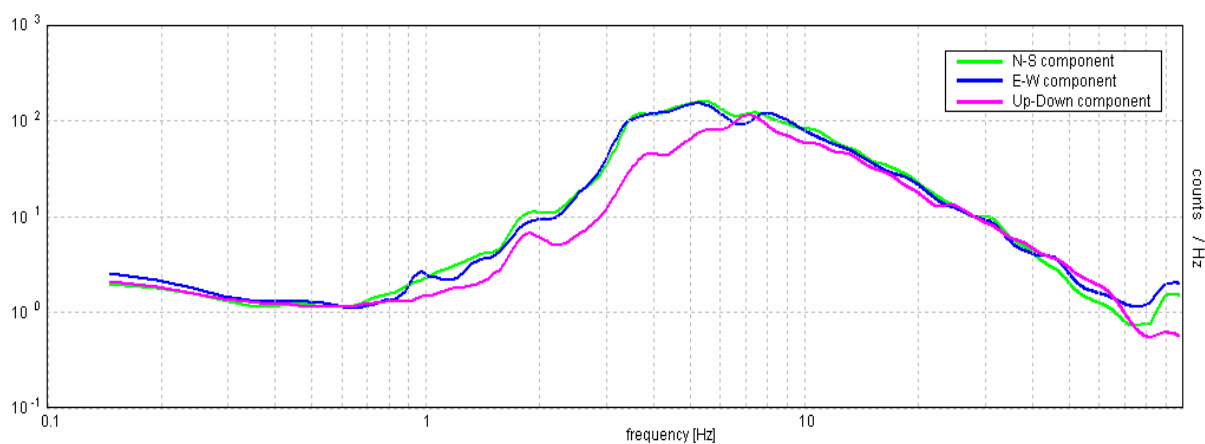
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

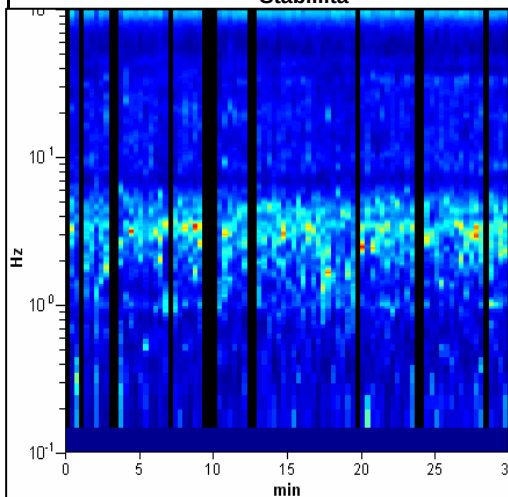
Max. HV at 3.27 ± 0.09 Hz. (in the range 0.0 - 18.0 Hz).



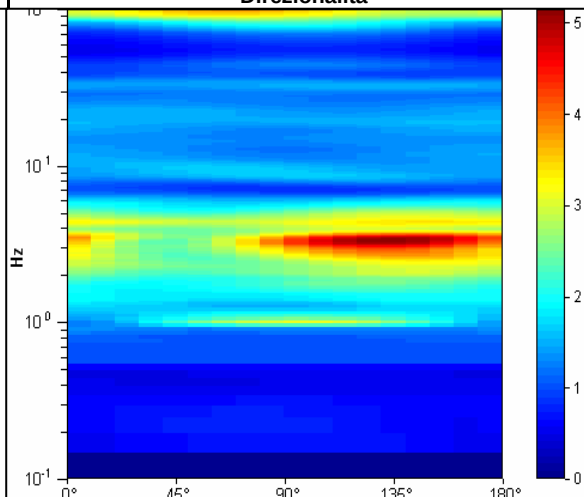
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H47

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 23-12-2013

CANTIERE: Marzabotto

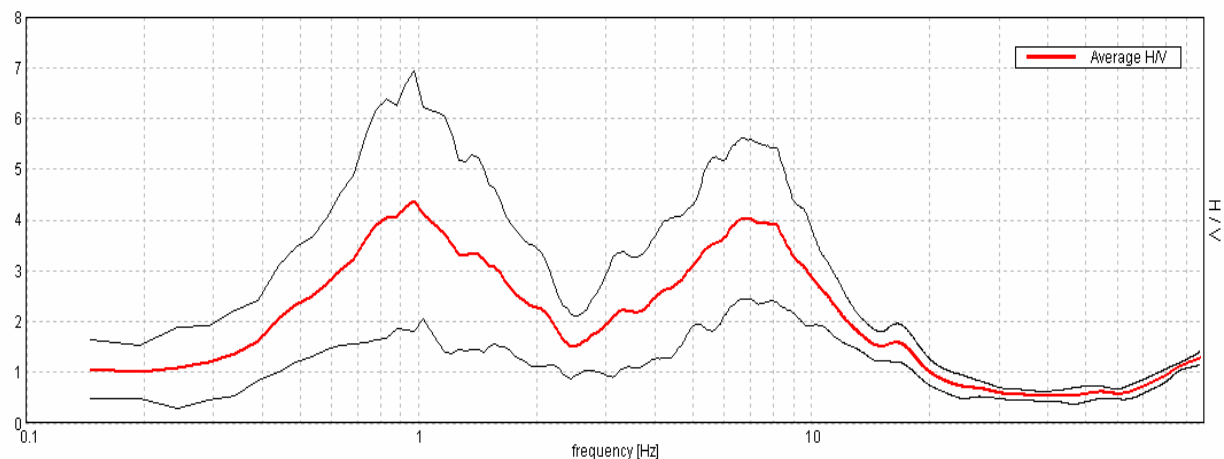
QUOTA: 160 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

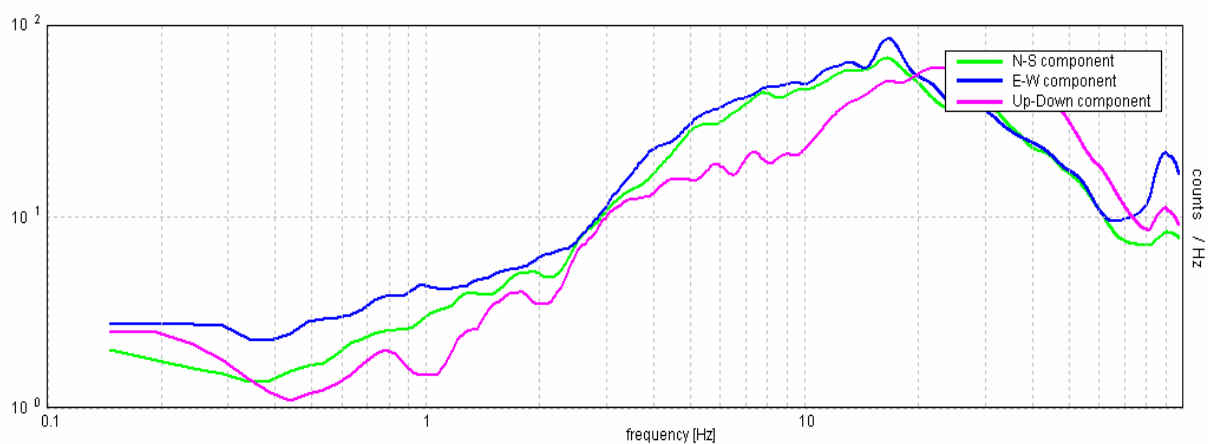
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

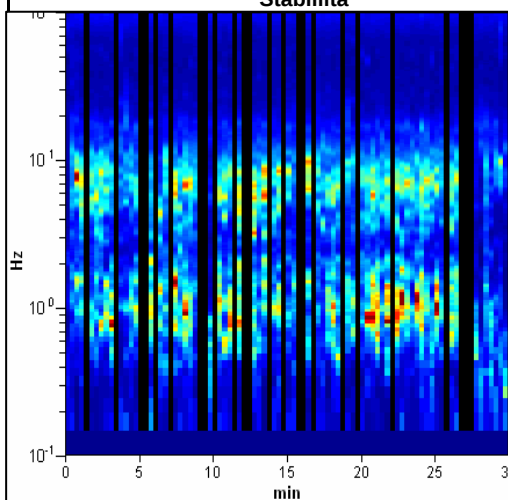
Max. HVV at 0.98 ± 5.43 Hz. (In the range 0.0 - 18.0 Hz).



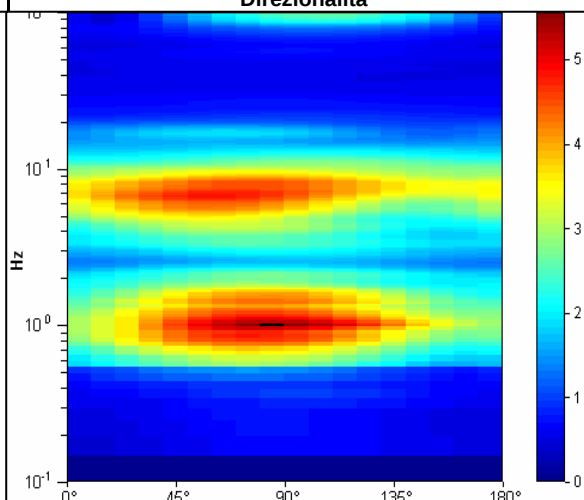
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H48

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 23-12-2013

CANTIERE: Panico

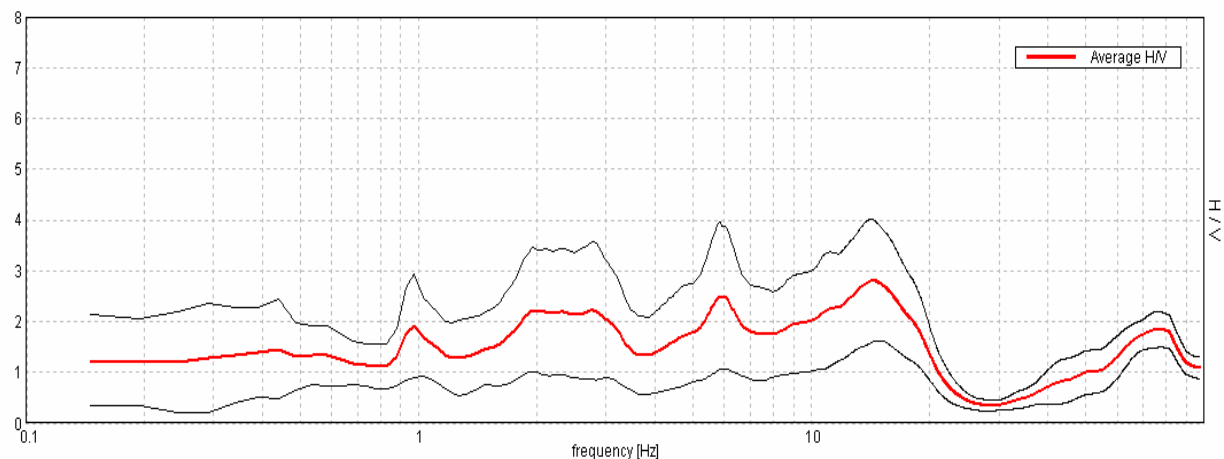
QUOTA: 160 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

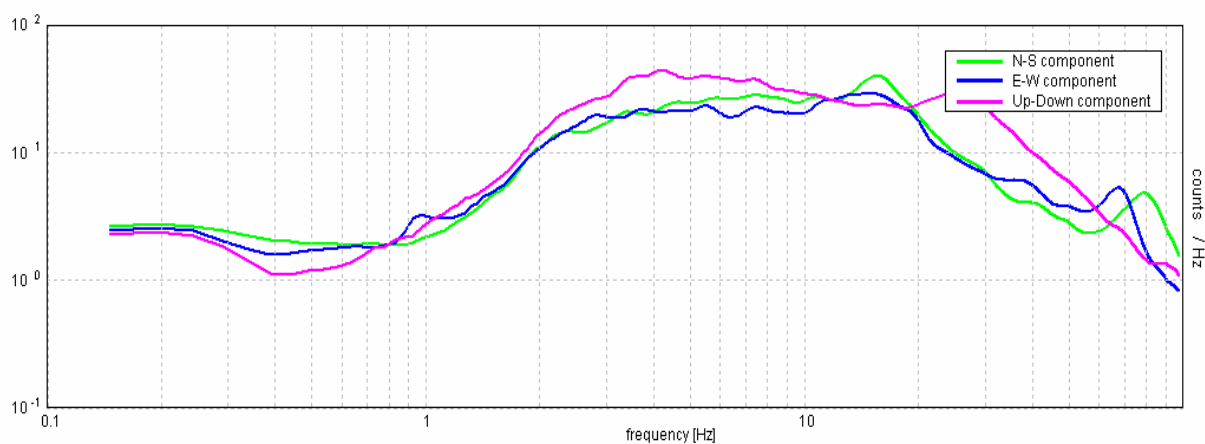
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

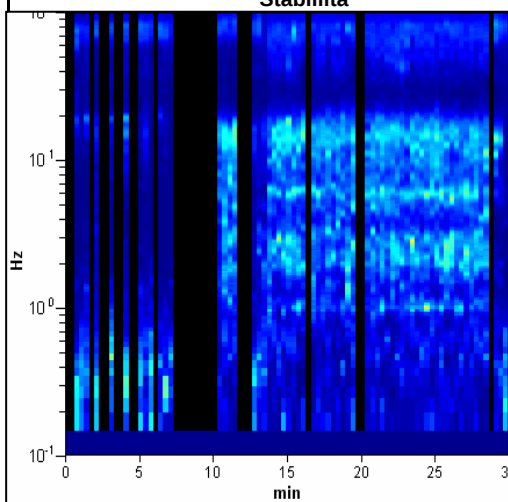
Max. H/V at 14.31 ± 8.59 Hz. (In the range 0.0 - 18.0 Hz).



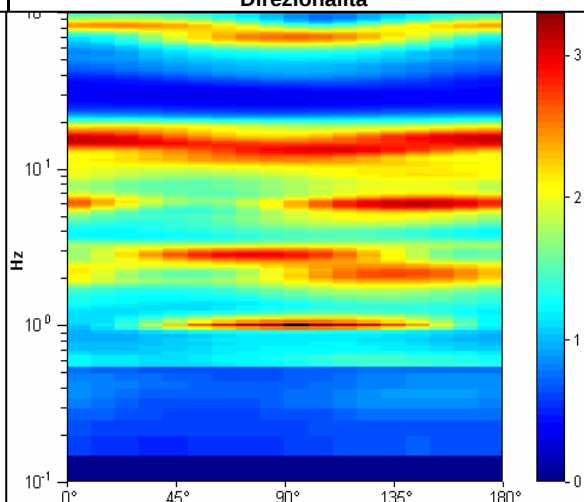
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H49

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 23-12-2013

CANTIERE: La Cà

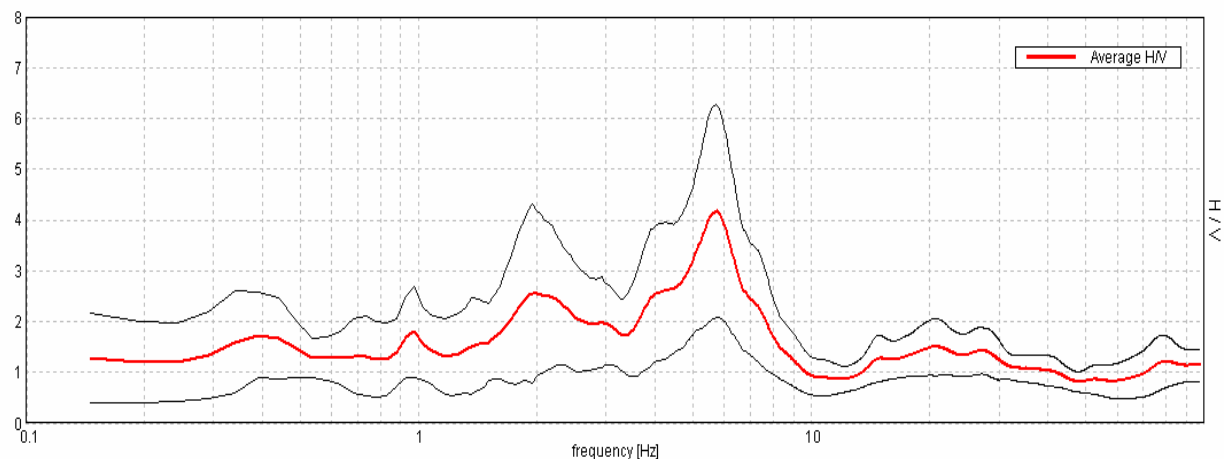
QUOTA: 150 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

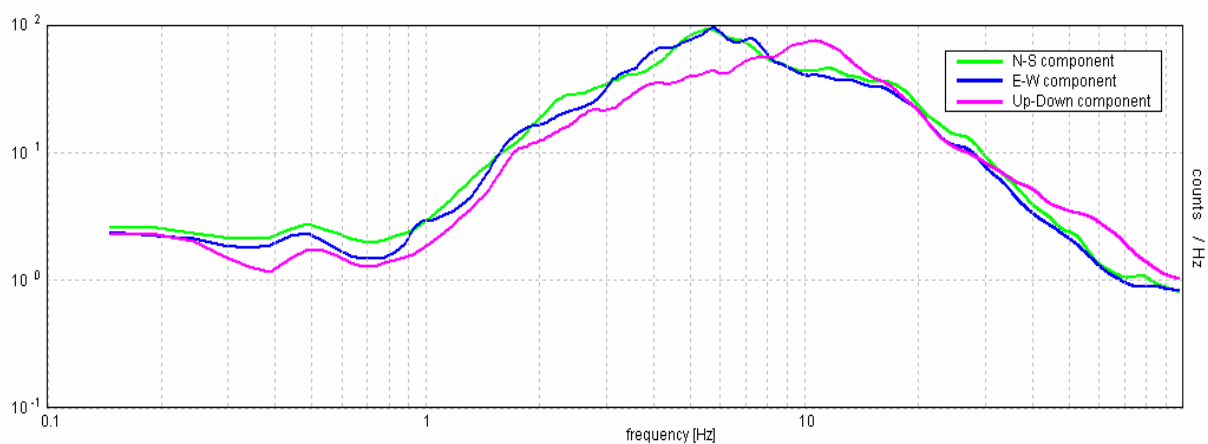
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

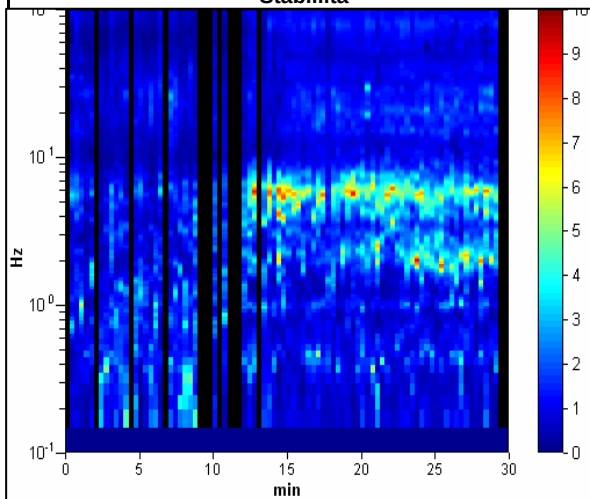
Max. HV at 5.71 ± 1.55 Hz. (In the range 0.0 - 18.0 Hz).



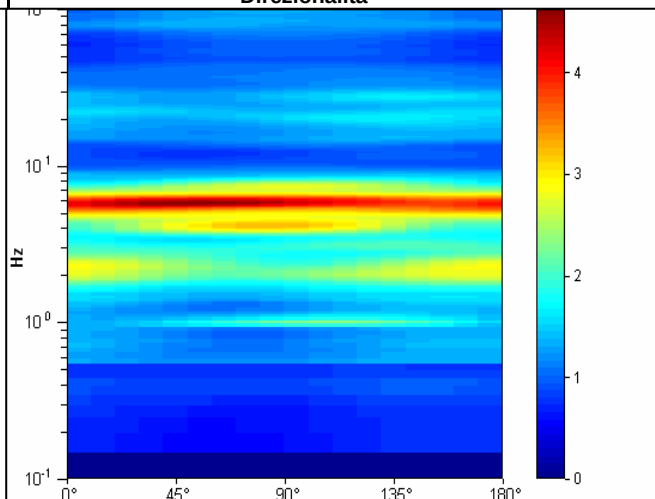
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H50

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 23-12-2013

CANTIERE: Sirano

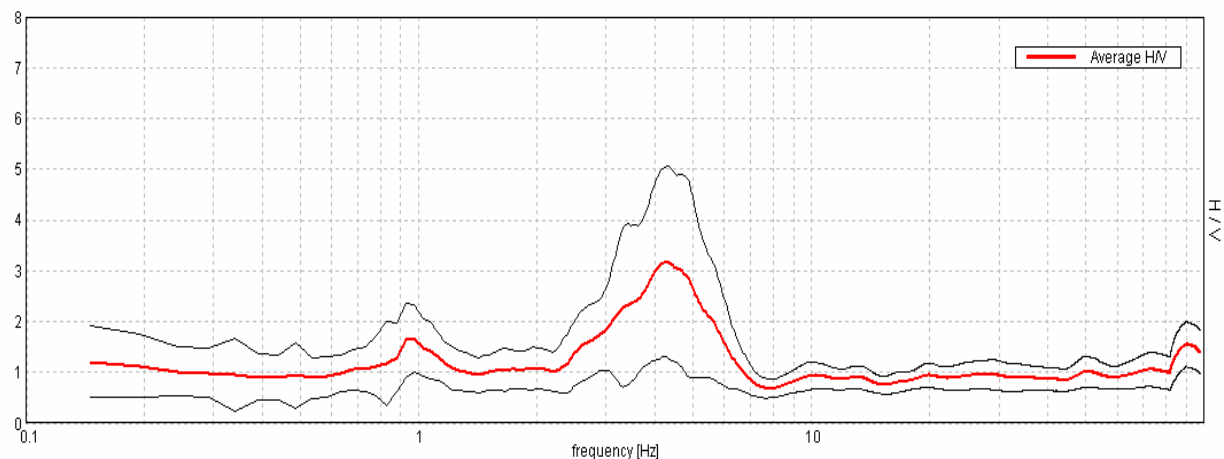
QUOTA: 160 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

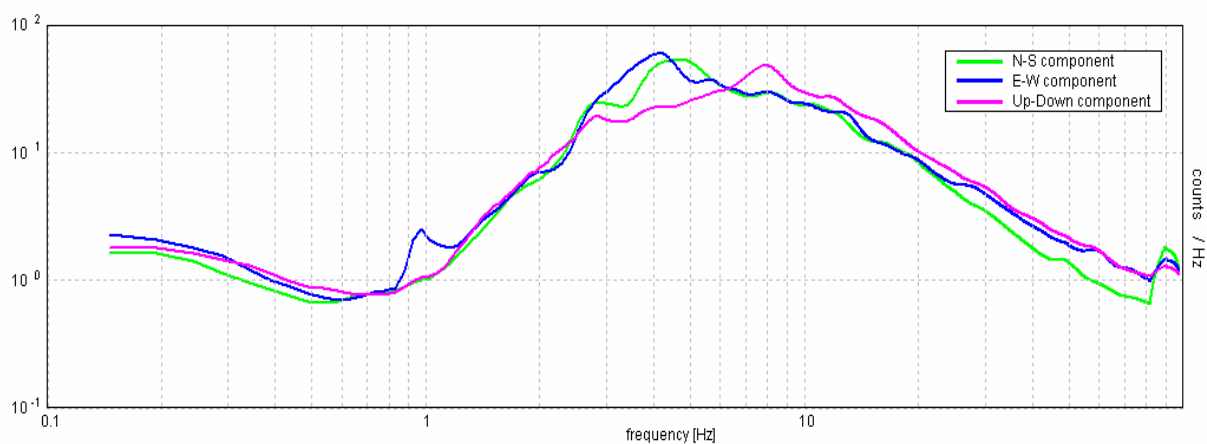
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

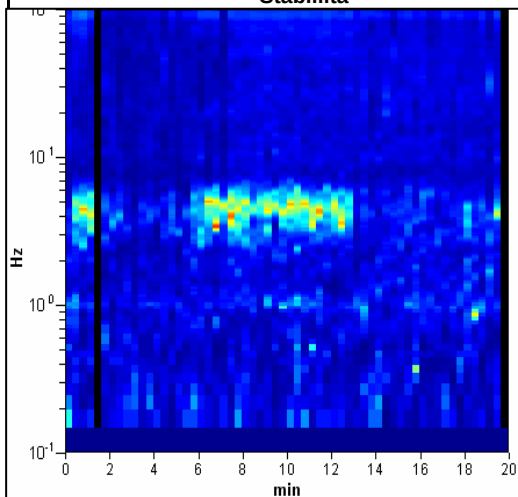
Max. HV at 4.25 ± 0.55 Hz. (in the range 0.0 - 18.0 Hz).



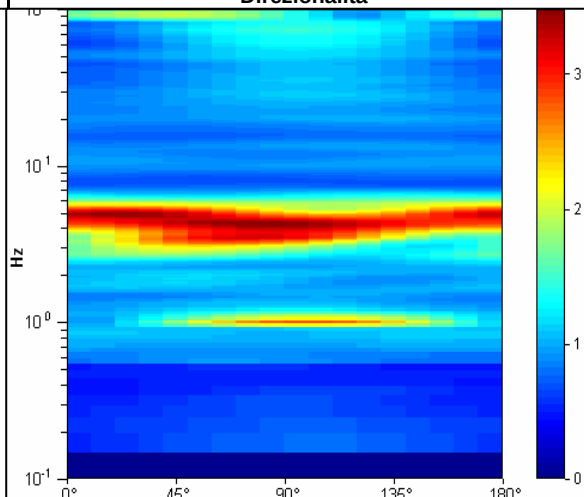
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S.Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H51

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 08-04-2014

CANTIERE: Pian di Venola

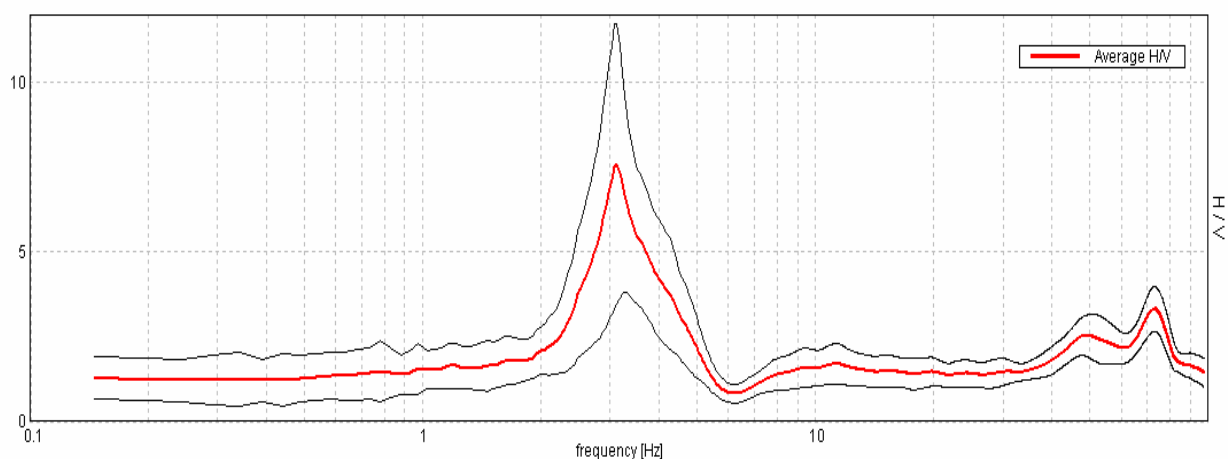
QUOTA: 157 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

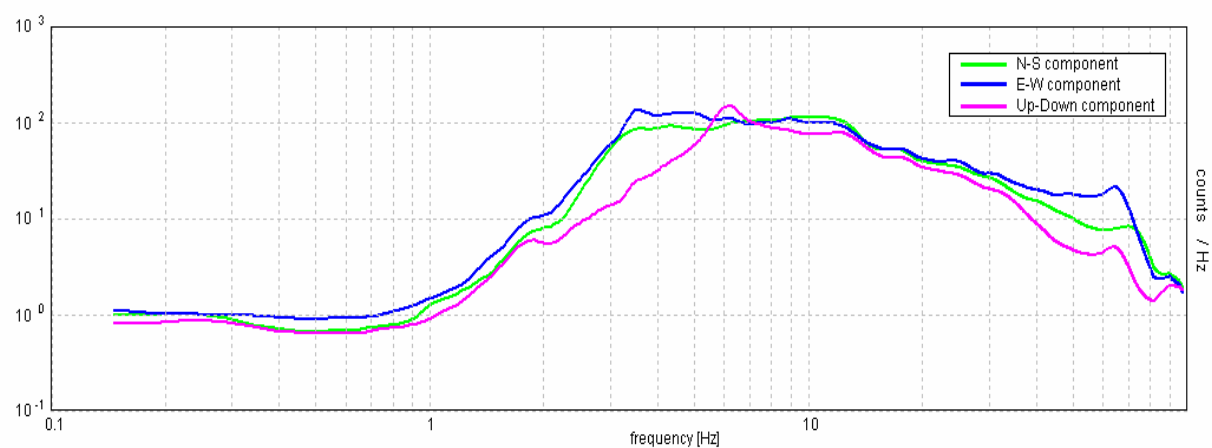
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

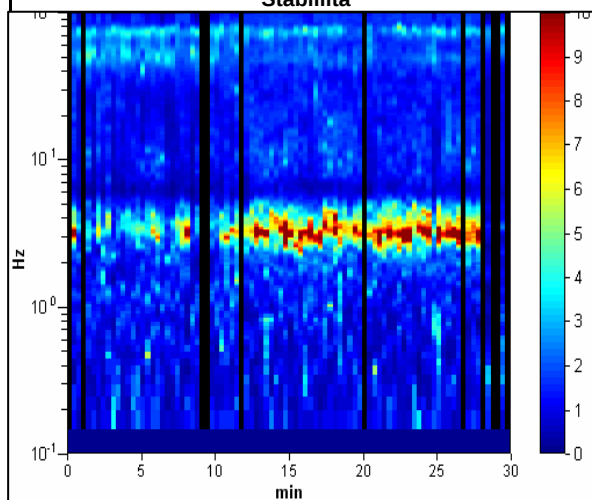
Max. HV at 3.13 ± 0.05 Hz. (In the range 0.4 - 18.0 Hz).



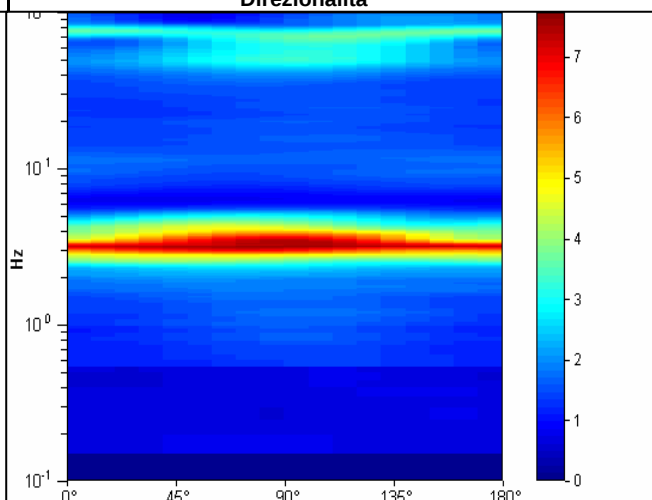
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H52

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 08-04-2014

CANTIERE: Pian di Venola

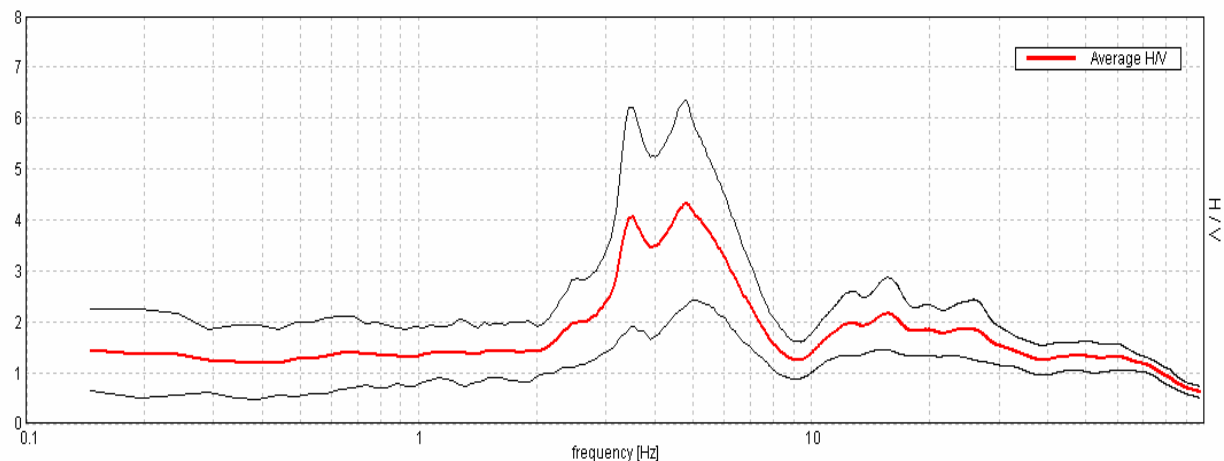
QUOTA: 149 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

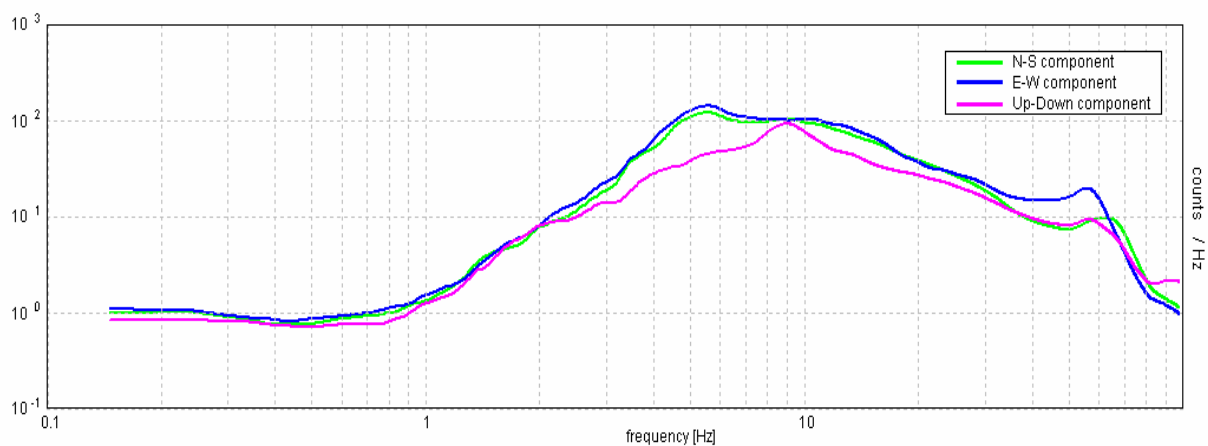
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

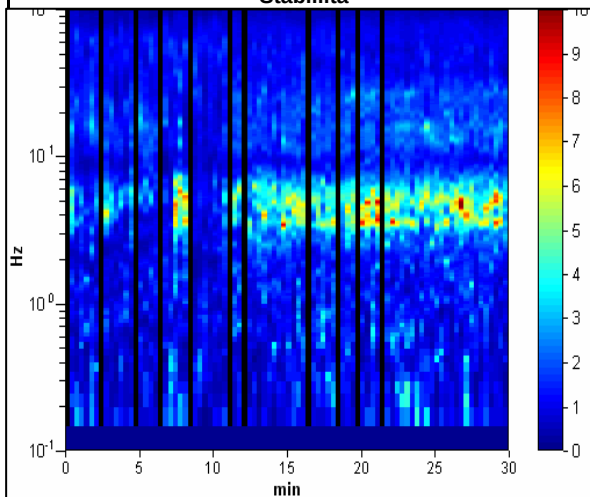
Max. HV at 4.83 ± 0.26 Hz. (in the range 0.4 - 18.0 Hz).



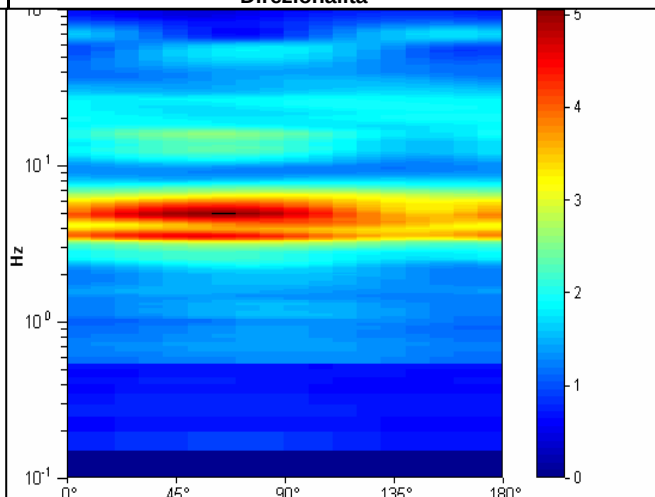
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H53

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 08-04-2014

CANTIERE: Pian di Venola

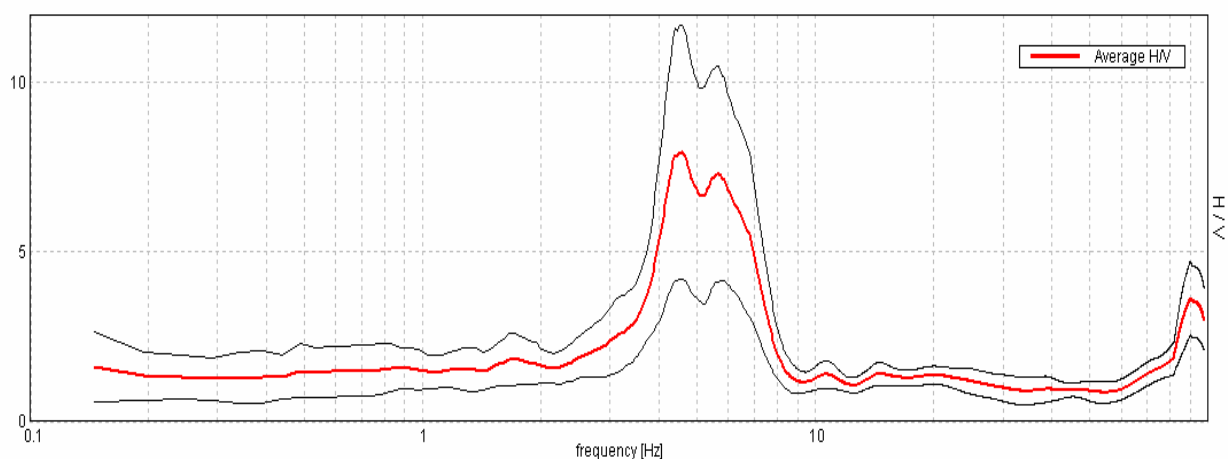
QUOTA: 144 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

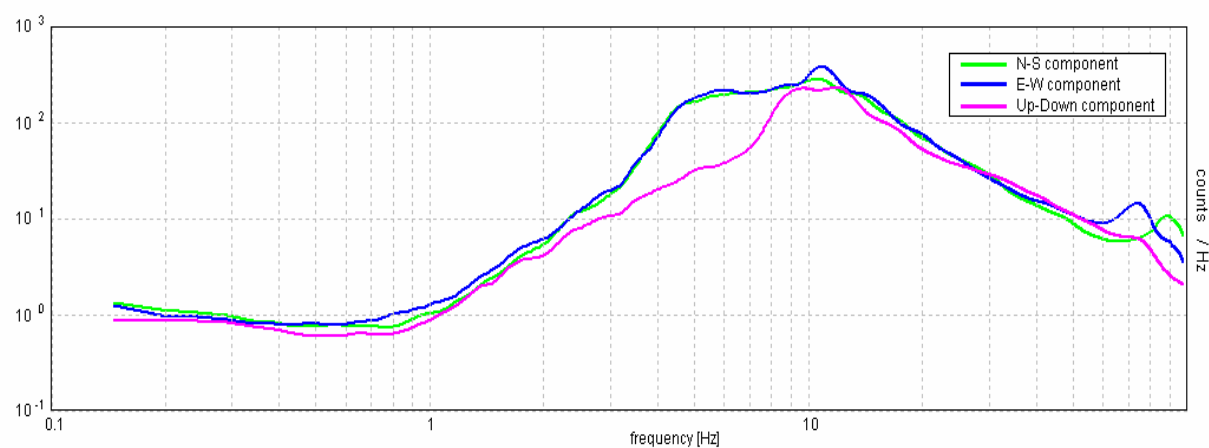
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

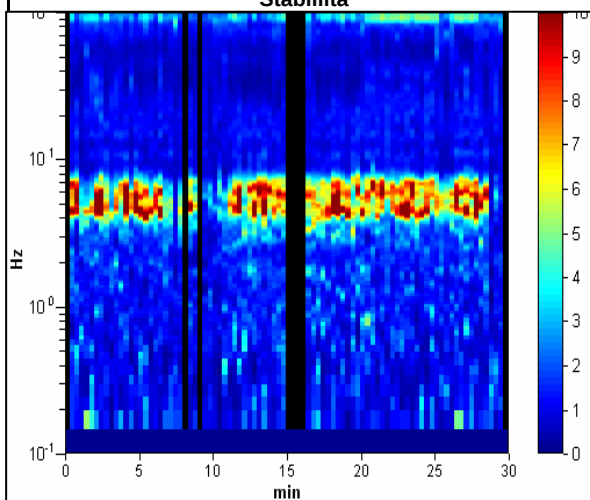
Max. HV at 4.54 ± 0.08 Hz. (In the range 0.4 - 18.0 Hz).



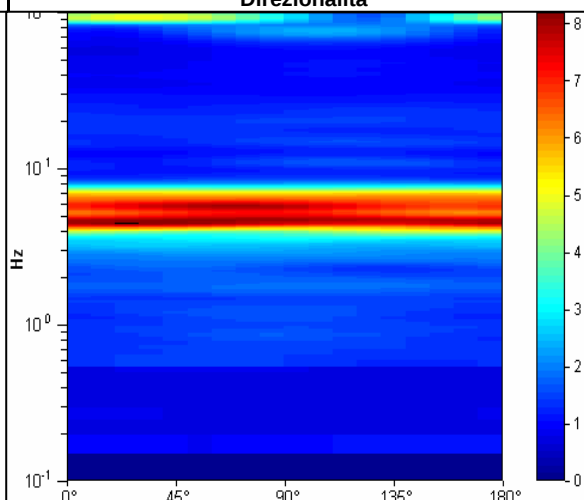
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H54

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 08-04-2014

CANTIERE: Sasdello

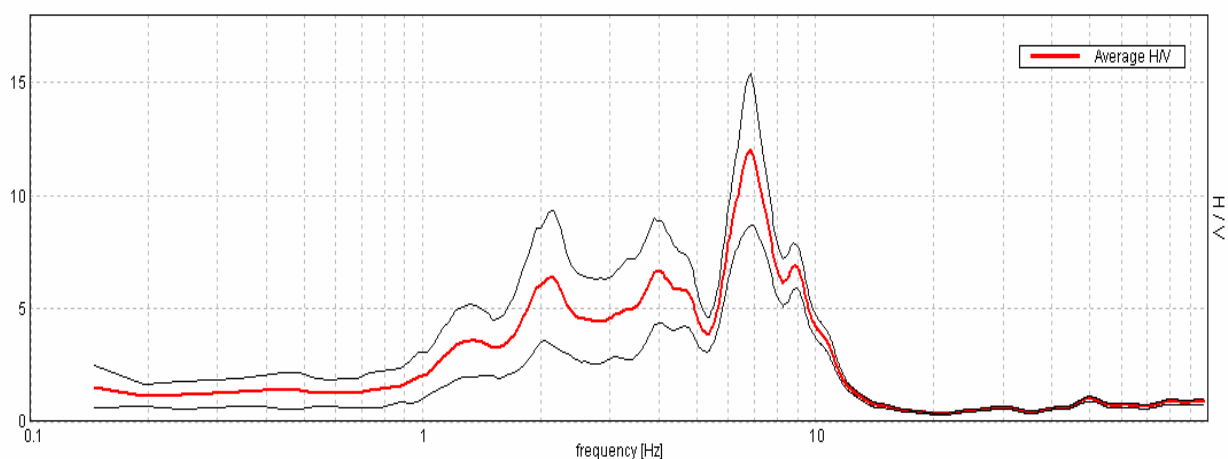
QUOTA: 126 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

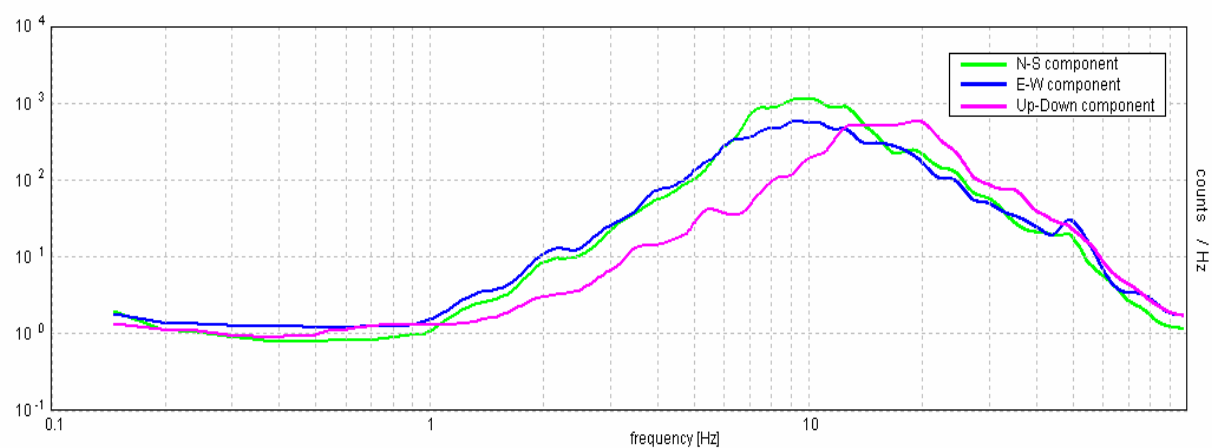
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

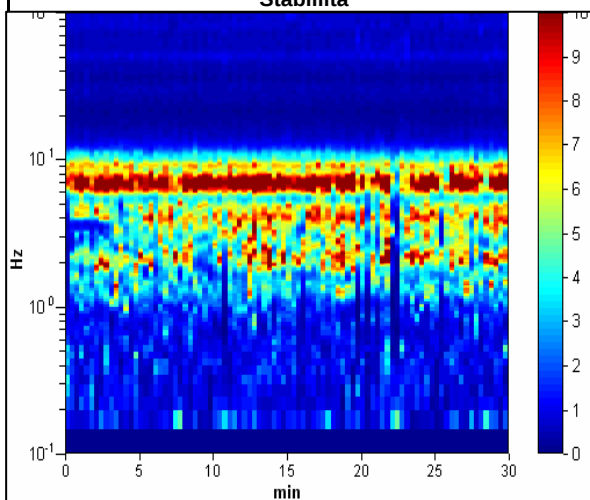
Max. HV at 6.84 ± 0.05 Hz. (in the range 0.4 - 18.0 Hz).



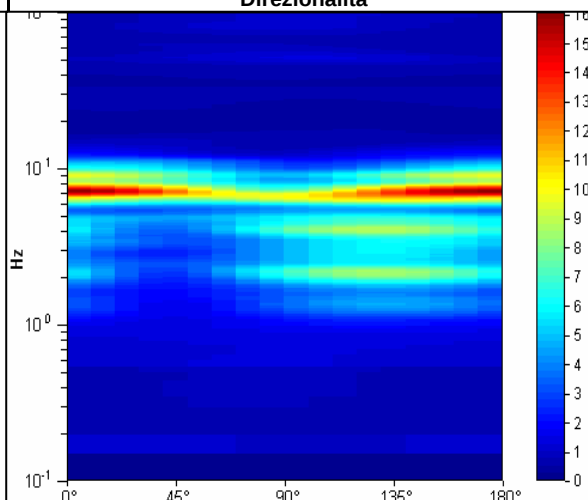
Ampiezza spettrale



Stabilità



Direzionalità



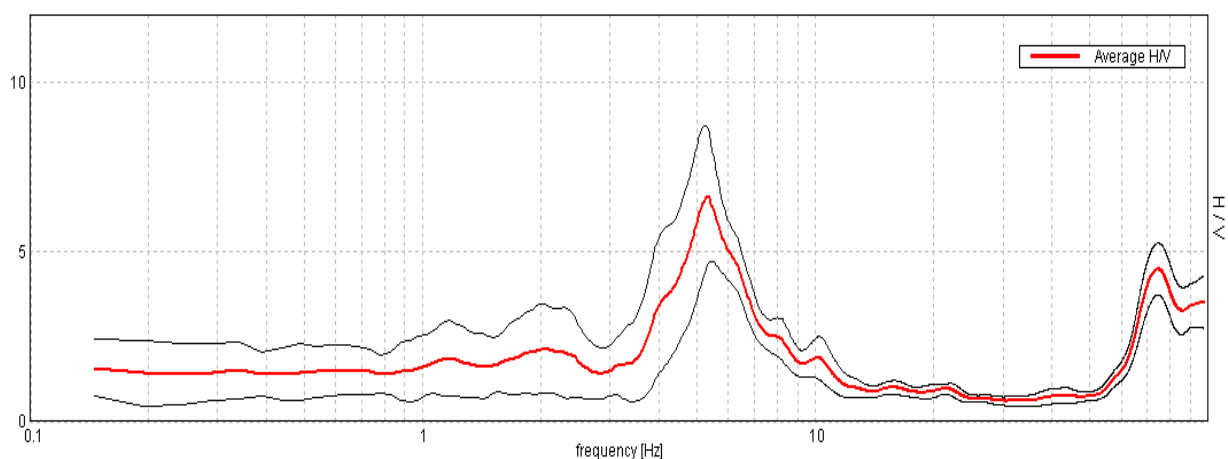
STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H55
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LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 08-04-2014	CANTIERE: Sasdello
QUOTA: 135 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

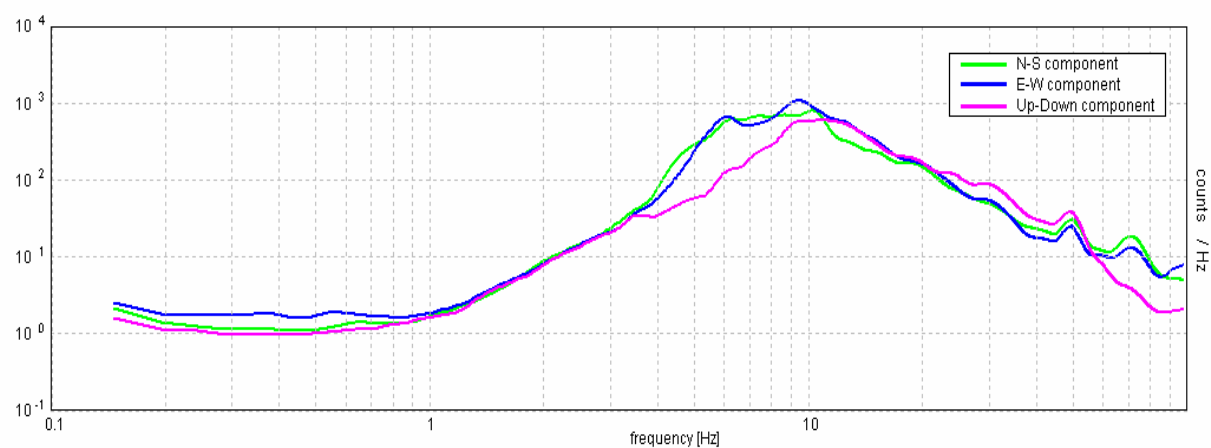
Strumentazione: Tromino TRZ-0134/01-11

Rapporto spettrale

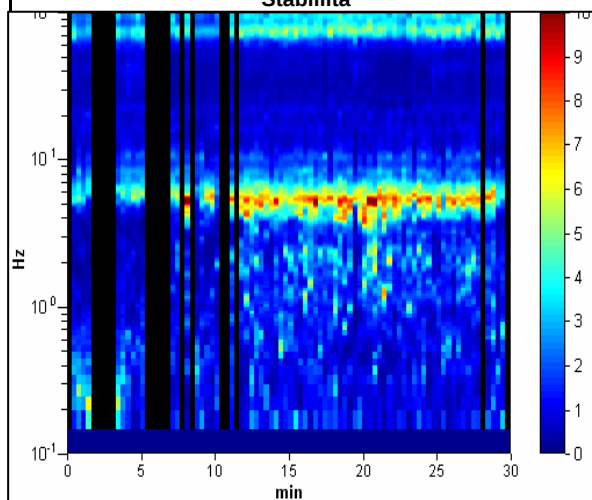
Max. HV at 5.32 ± 0.24 Hz. (In the range 0.4 - 18.0 Hz).



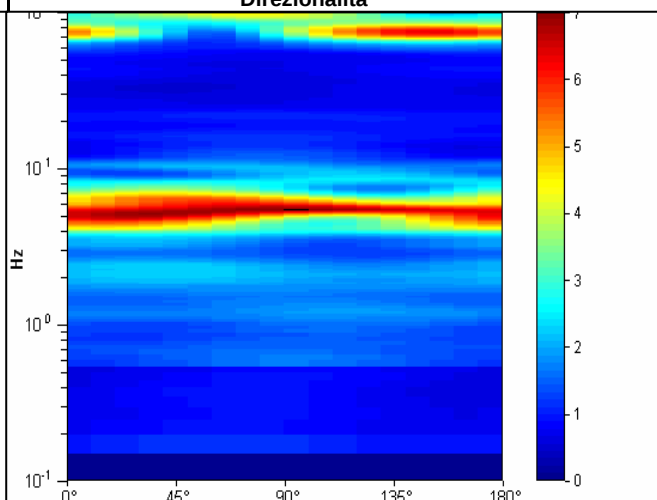
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H56

LOCALITA': Marzabotto (BO)

COMMITTENTE: Amm. Comunale

DATA: 08-04-2014

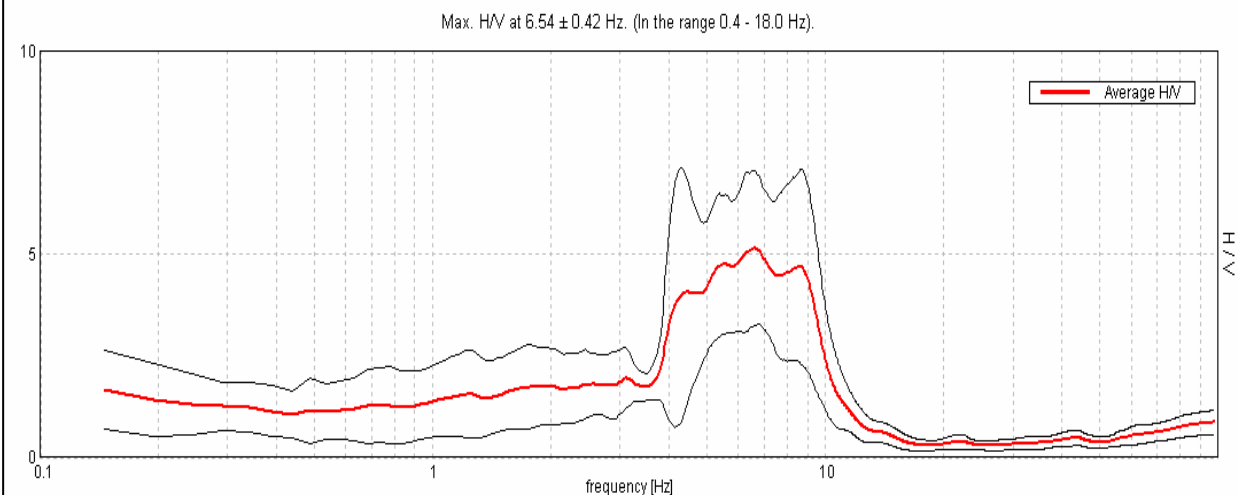
CANTIERE: Sasdello

QUOTA: 126 m. s.l.m.

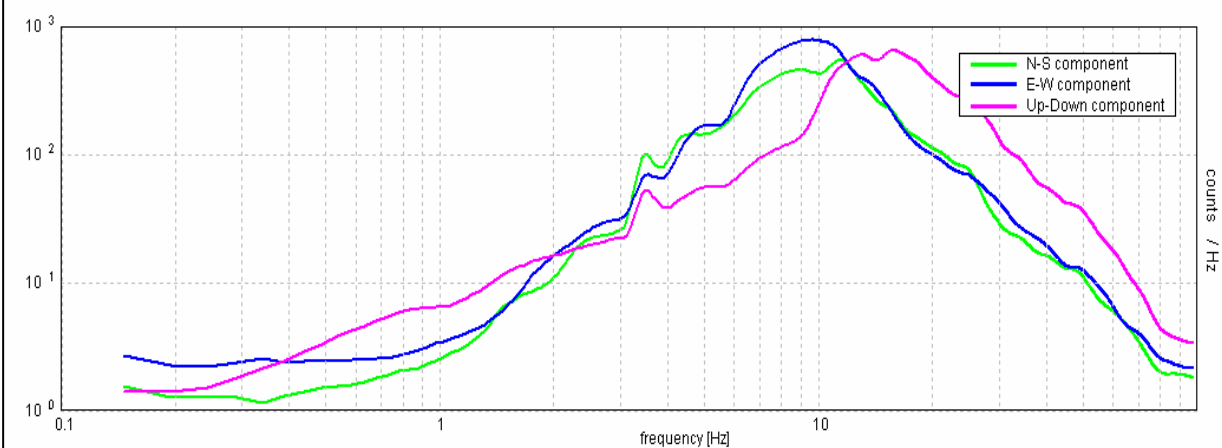
OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

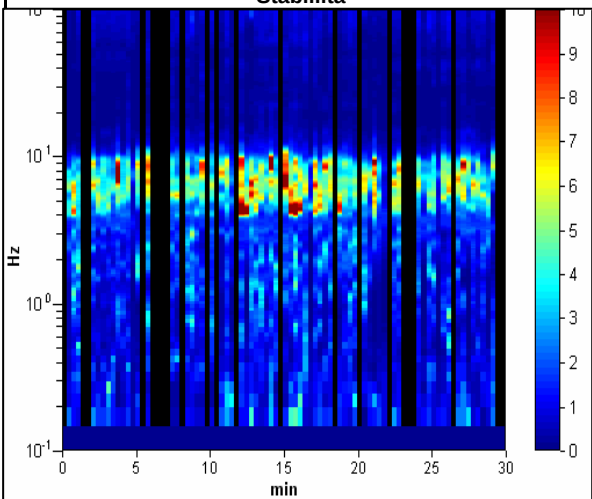
Rapporto spettrale



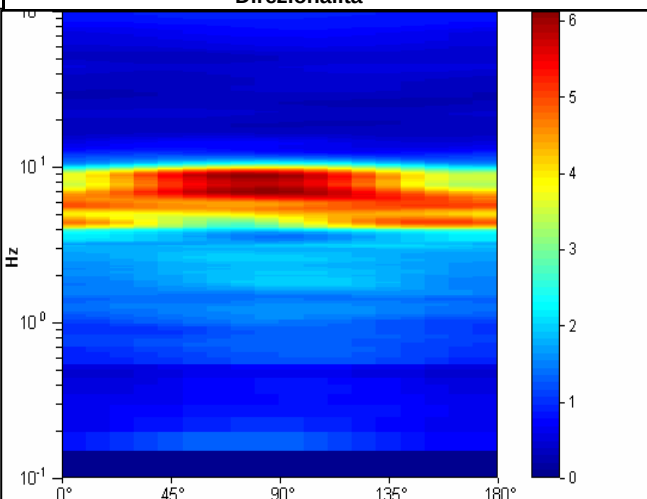
Ampiezza spettrale



Stabilità



Direzionalità

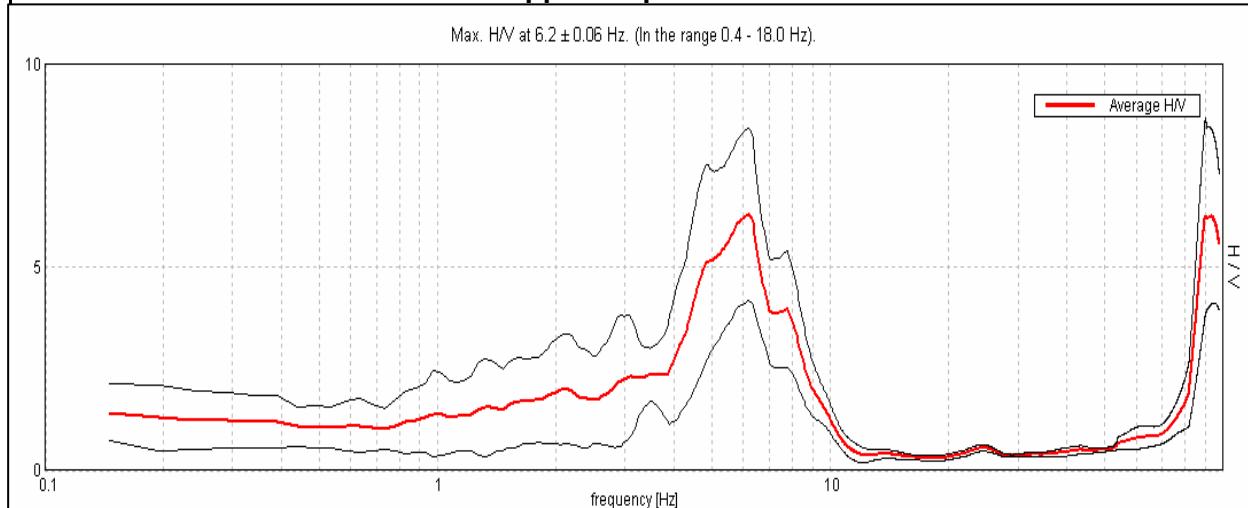


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H57
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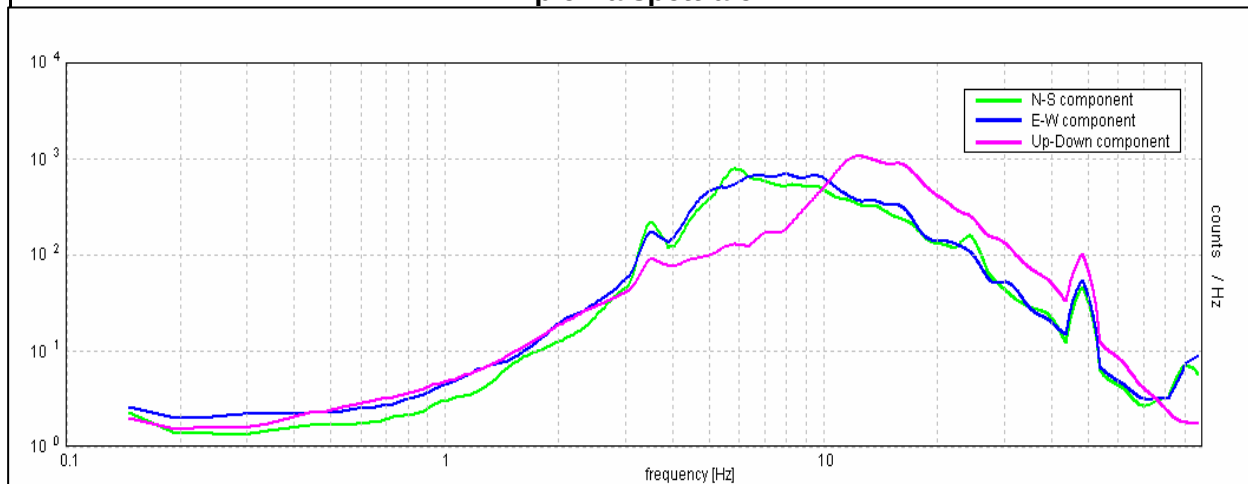
LOCALITA': Marzabotto (BO)	COMMITTENTE: Amm. Comunale
DATA: 08-04-2014	CANTIERE: Sasdello
QUOTA: 126 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Tromino TRZ-0134/01-11

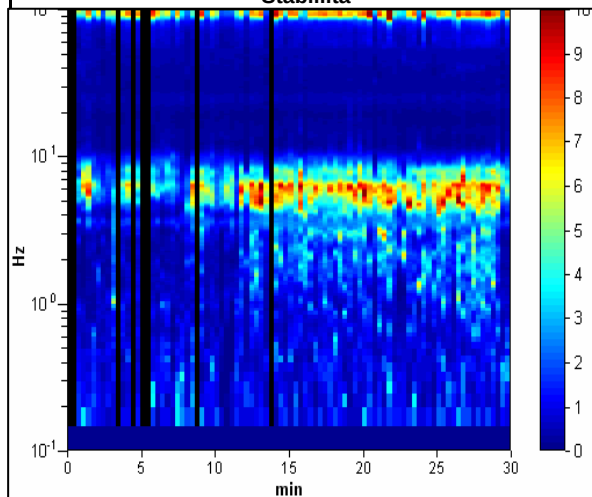
Rapporto spettrale



Ampiezza spettrale



Stabilità



Direzionalità

