



PROTEZIONE CIVILE
 Presidenza del Consiglio dei Ministri
 Dipartimento della Protezione Civile



Regione Emilia-Romagna



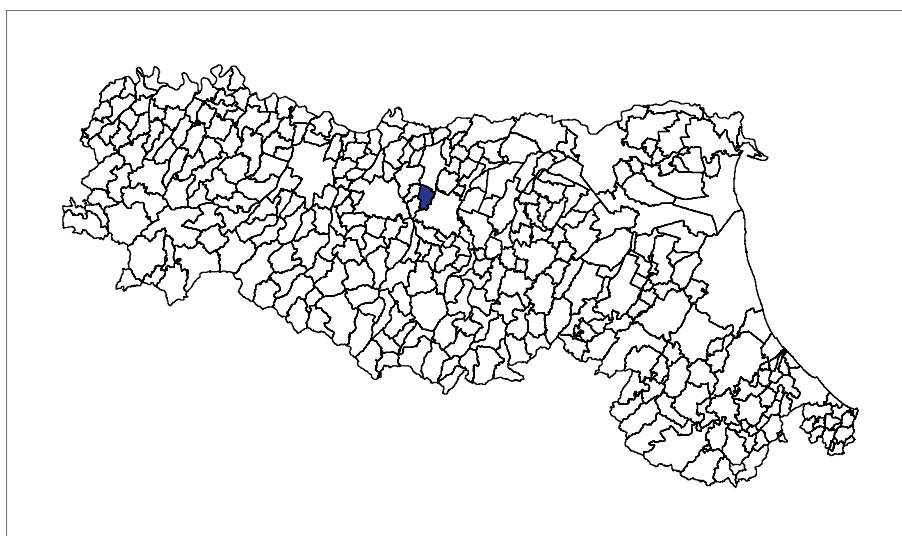
**CONFERENZA DELLE REGIONI E
 DELLE PROVINCE AUTONOME**

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

MICROZONAZIONE SISMICA

Indagini Geognostiche e Geofisiche

Regione Emilia-Romagna
Comune di Campogalliano



Regione Emilia Romagna <i>Studio realizzato con il contributo di cui all'OPCM 4007/2012.</i> <i>Coordinamento della Regione Emilia-Romagna - Servizio Geologico Luca Martelli</i> <i>Coordinamento della Provincia di Modena - Servizio Urbanistica e SIT Antronella Manicardi</i>	Soggetto realizzatore Studio Geologico CENTROGEO Progetto: Gian Pietro Mazzetti Collaboratori: Stefano Gilli, Andrea Arbizzi, Mauro Mazzetti Elaborazioni GIS: Studio Benaglia Professionisti Associati Corrado Ugoletti	Amministrazione comunale <i>Sindaco:</i> Stefania Zanni <i>Responsabile Settore Servizio del Territorio:</i> Ivano Leoni	
		Data Aprile 2013	

INDAGINI DI NUOVA ESECUZIONE

STUDIO GEOLOGICO CENTROGEO

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

**STENDIMENTI SISMICI
ATTIVI/PASSIVI
MASW/Re.Mi.**

STUDIO GEOLOGICO CENTROGEO

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

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

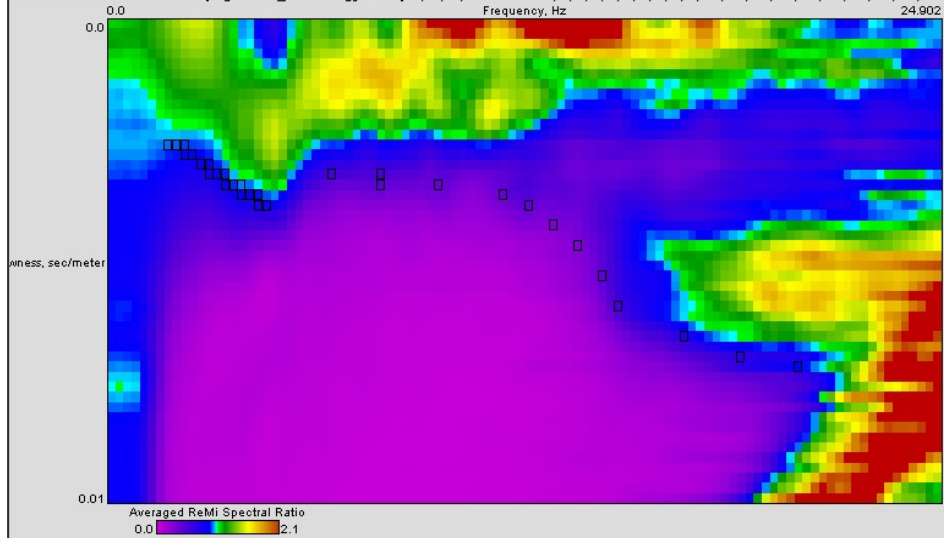
CANTIERE: Microzonazione sismica 2013

QUOTA: 41 m slm

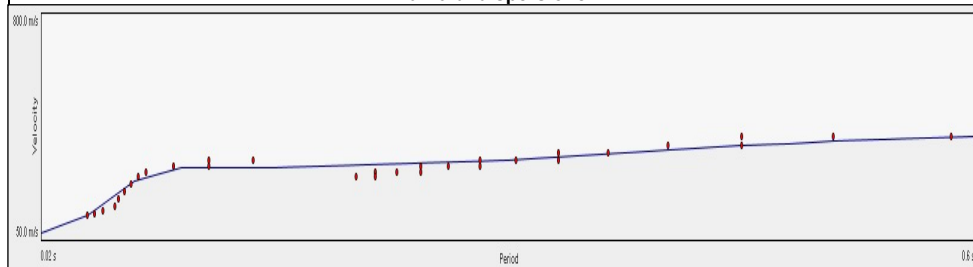
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FILE: CAMPOGALLIANO\campogalliano_01\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



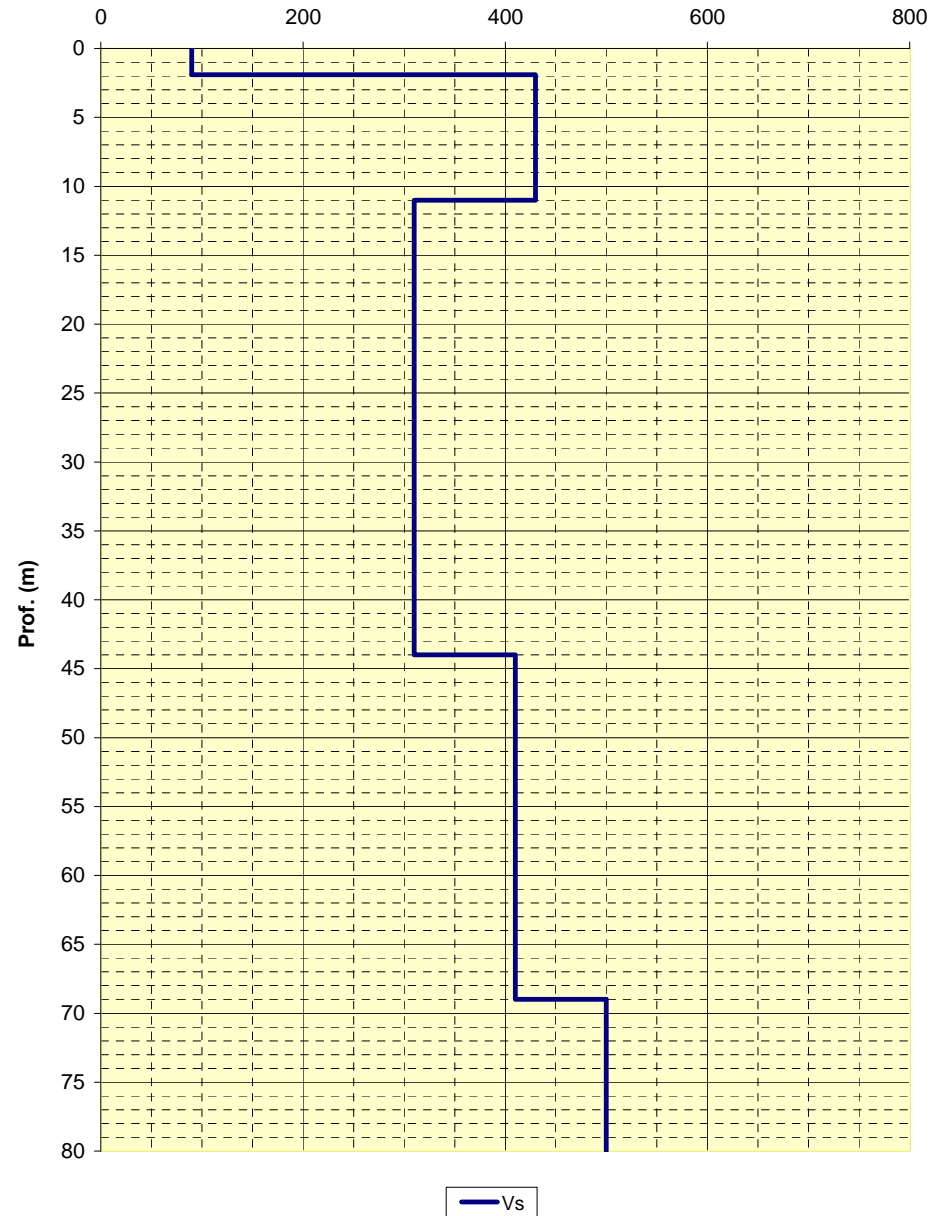
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	1.9	1.9	90
2	1.9	11	9.1	430
3	11	44	33	310
4	44	69	25	410
5	69	INF	INF	500
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
02

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

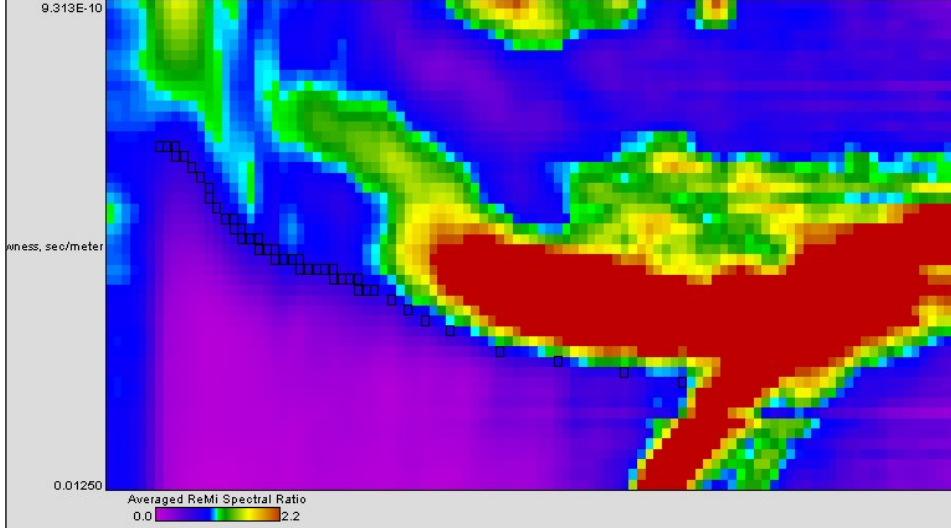
CANTIERE: Microzonazione sismica 2013

QUOTA: 43 m slm

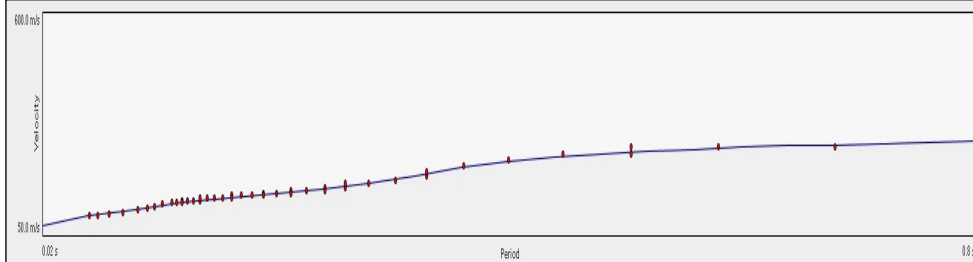
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Settings: S:\GMI_CENTROGEO\Desktop\SISMICA\CAMPOGALLIANO\campogalliano_02\101.sgy + Step 2, 3, 4, 5 - Planes: 6, 7, 10, 12, 13, 15
Frequency, Hz 24,902



Curva di dispersione

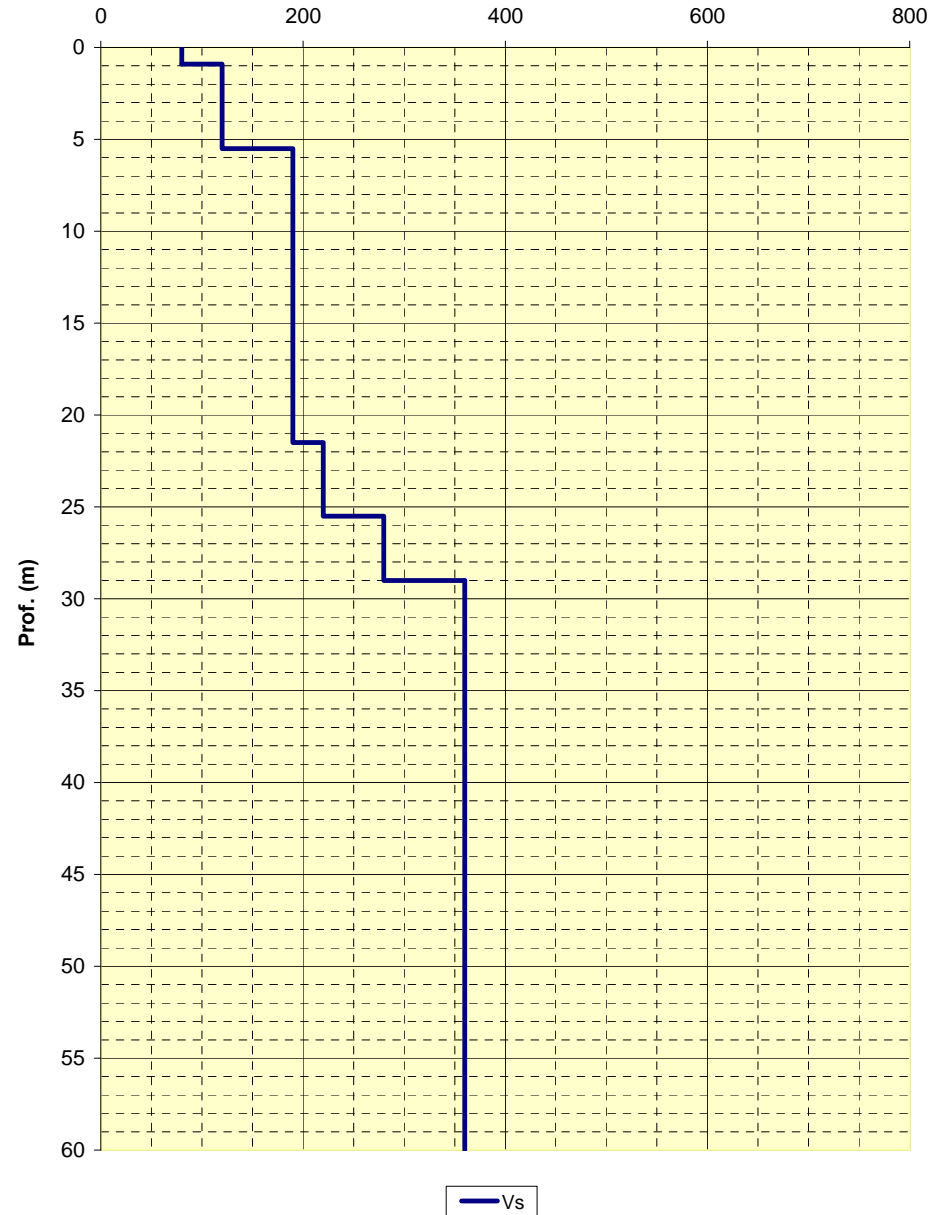


Note:

Modello interpretativo

Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	0.9	0.9	80
2	0.9	5.5	4.6	120
3	5.5	21.5	16	190
4	21.5	25.5	4	220
5	25.5	29	3.5	280
6	29	INF	INF	360
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
03

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

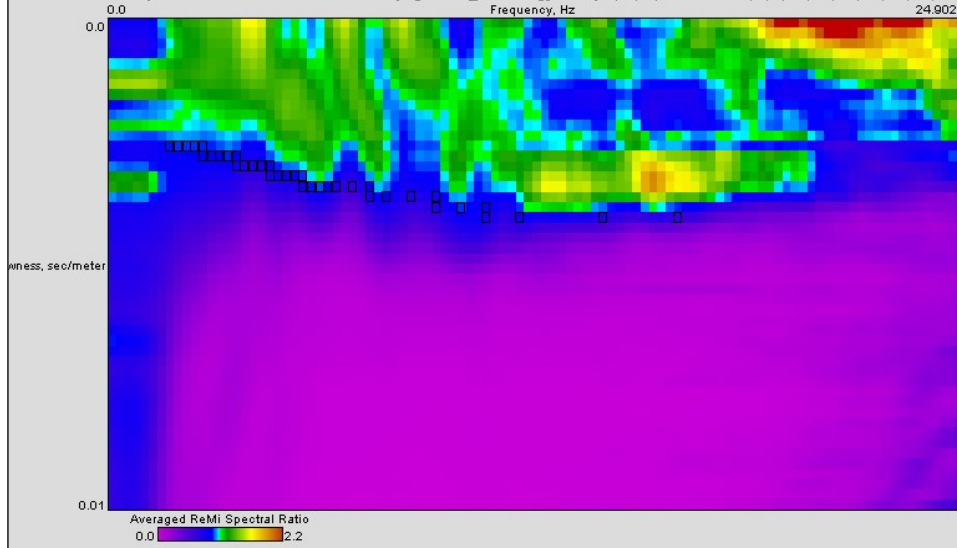
CANTIERE: Microzonazione sismica 2013

QUOTA: 42 m slm

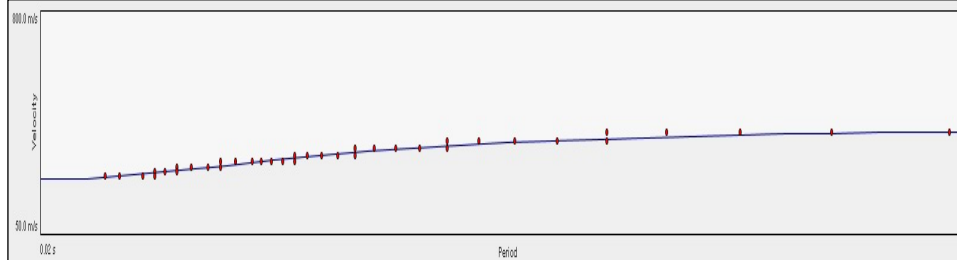
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

C:\CENTROGEO\Desktop\SISIMCA\CAMPUGALLIANO\Campogalliano_03\101.Svy + Step 2, 3, 4, 5 - Planes: 1, 5, 7, 10, 13, 14, 15, 16, 17, 20



Curva di dispersione

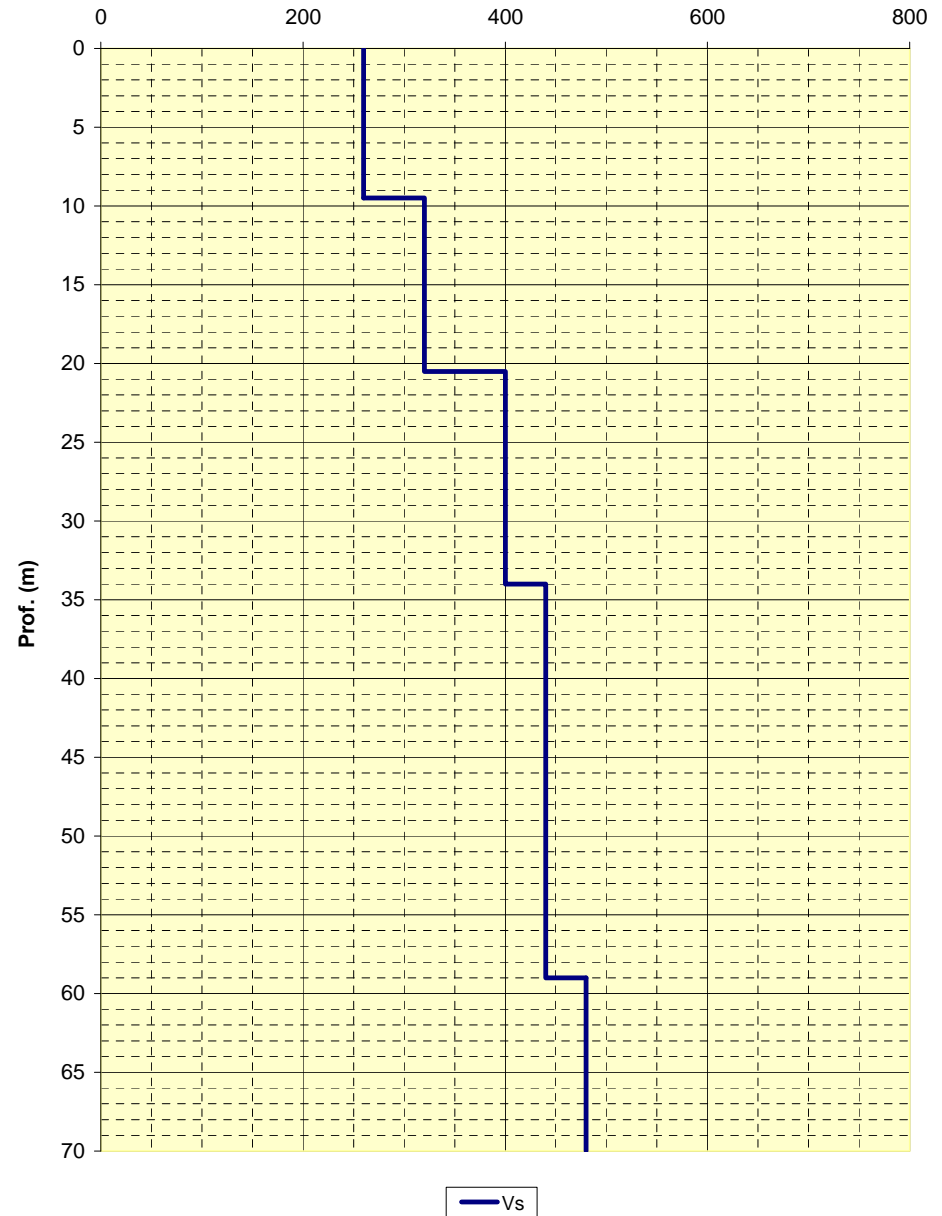


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	9.5	260
2	9.5	20.5	320
3	20.5	34	400
4	34	59	440
5	59	INF	480
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
04

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

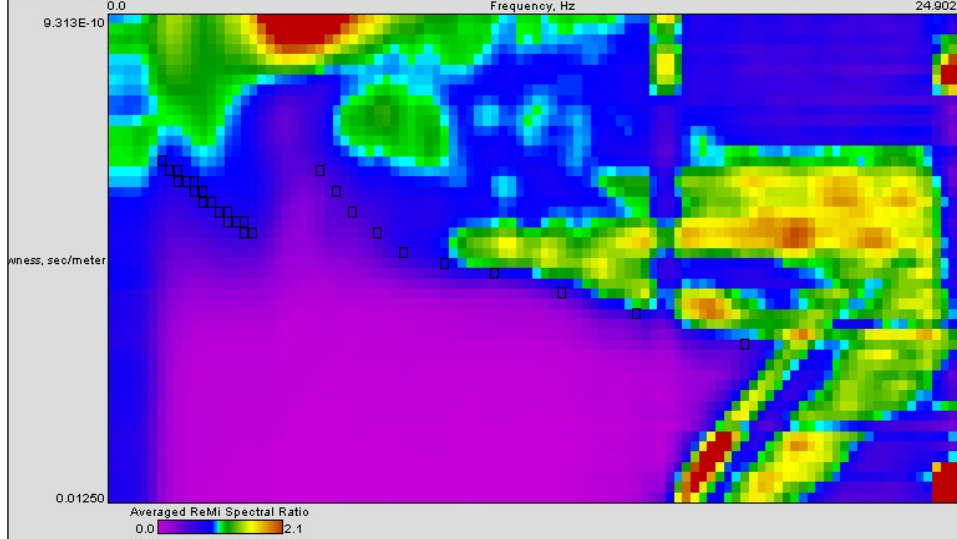
CANTIERE: Microzonazione sismica 2013

QUOTA: 41 m slm

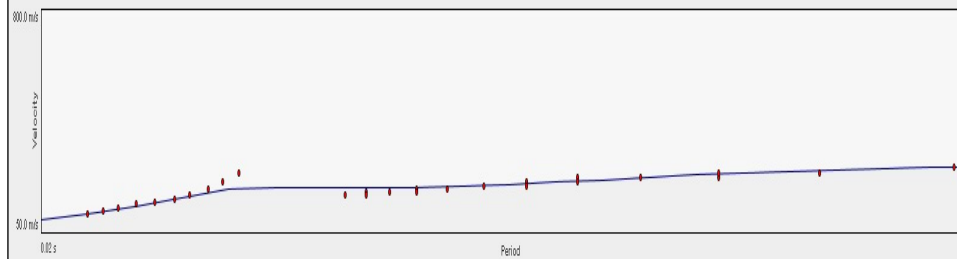
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

VCAMP0GALLIANO_campogalliano_04\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, 20



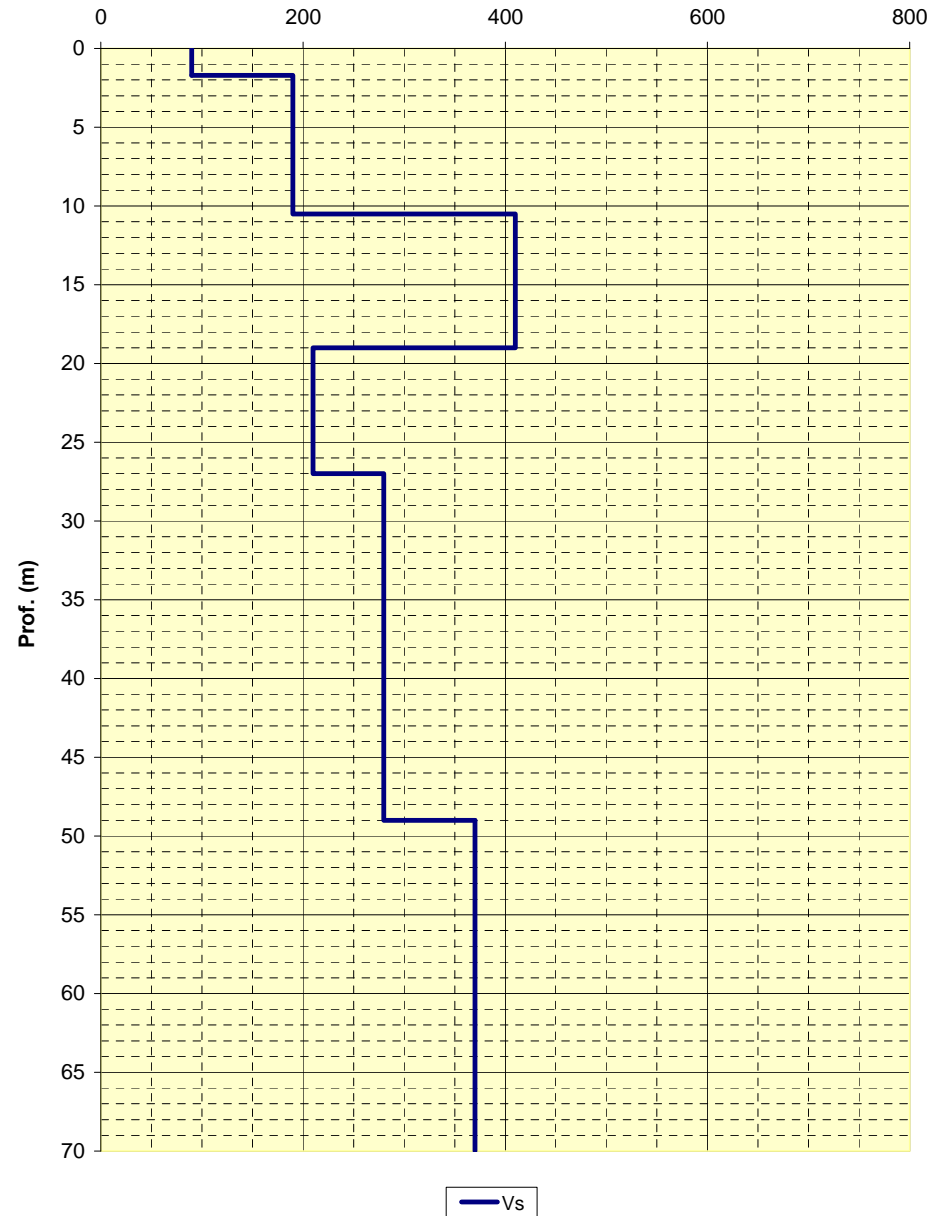
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	1.7	1.7	90
2	1.7	10.5	8.8	190
3	10.5	19	8.5	410
4	19	27	8	210
5	27	49	22	280
6	49	INF	INF	370
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
05

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

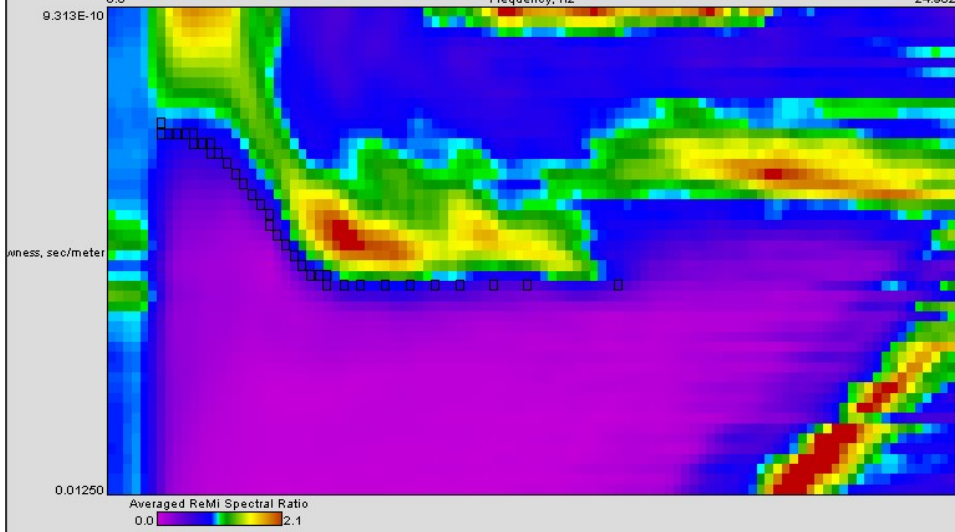
CANTIERE: Microzonazione sismica 2013

QUOTA: 43 m slm

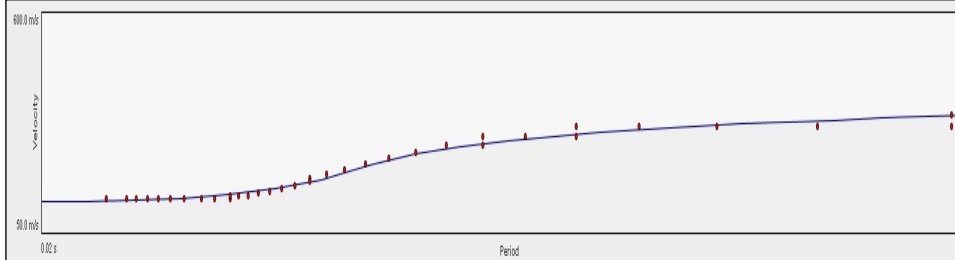
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FILE: C:\CAMPOGALLIANO\campogalliano_05\107.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

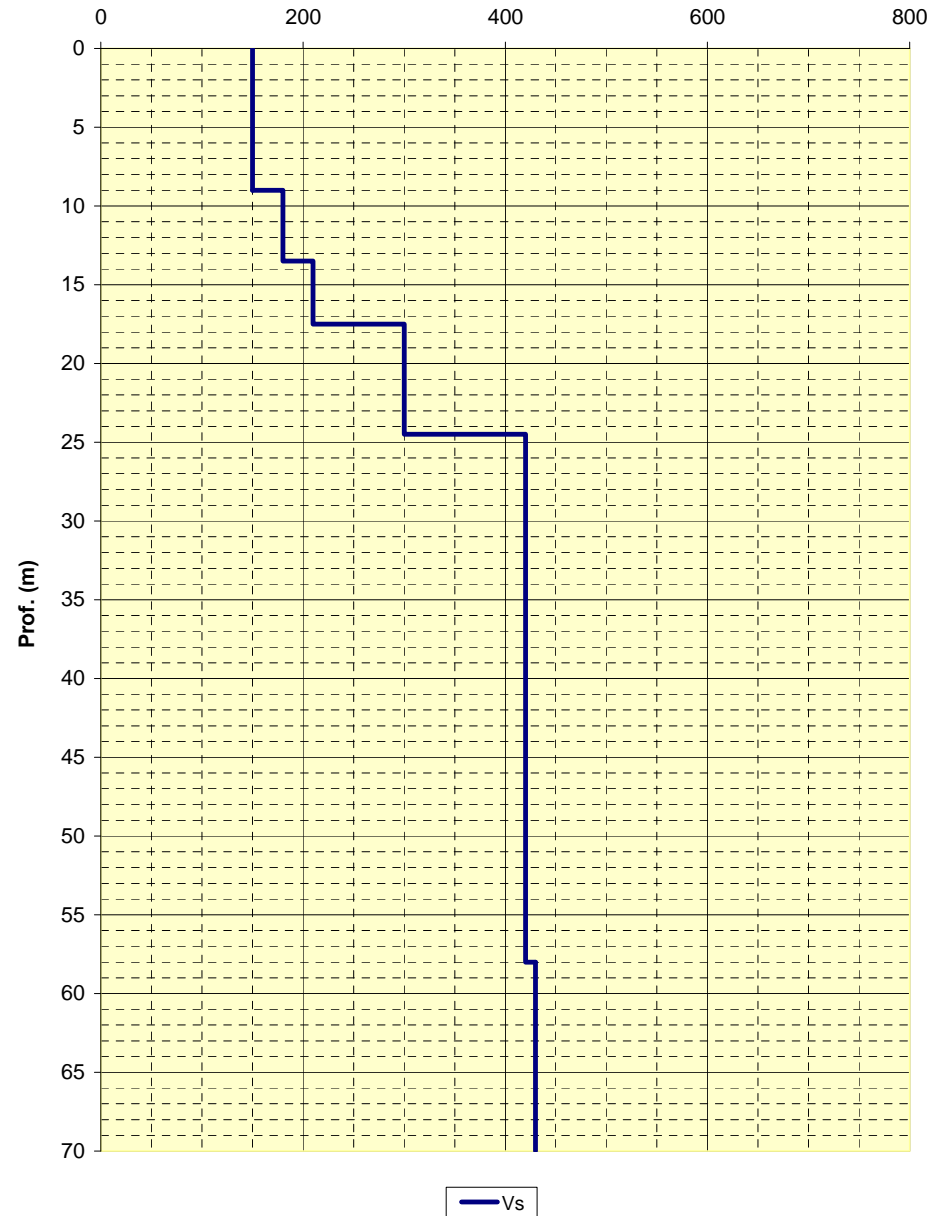


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	9	150
2	9	13.5	180
3	13.5	17.5	210
4	17.5	24.5	300
5	24.5	58	420
6	58	INF	430
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

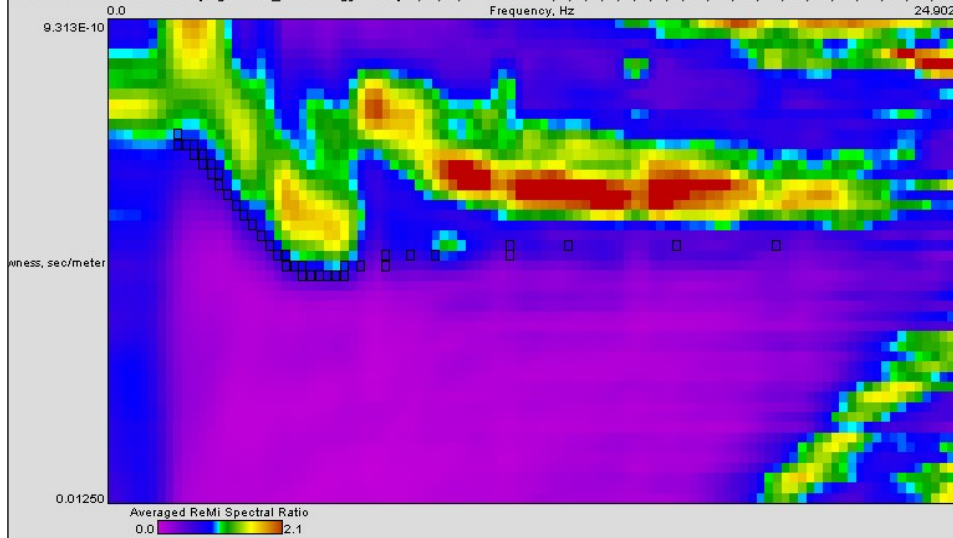
CANTIERE: Microzonazione sismica 2013

QUOTA: 46 m slm

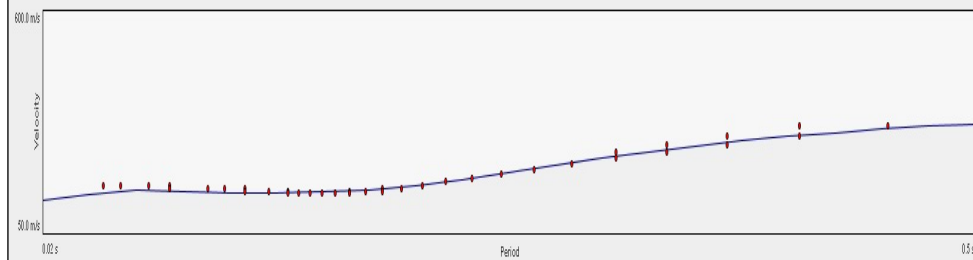
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

C:\CAMPUGALLIANO\campogalliano_06\101.sgy - Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20



Curva di dispersione

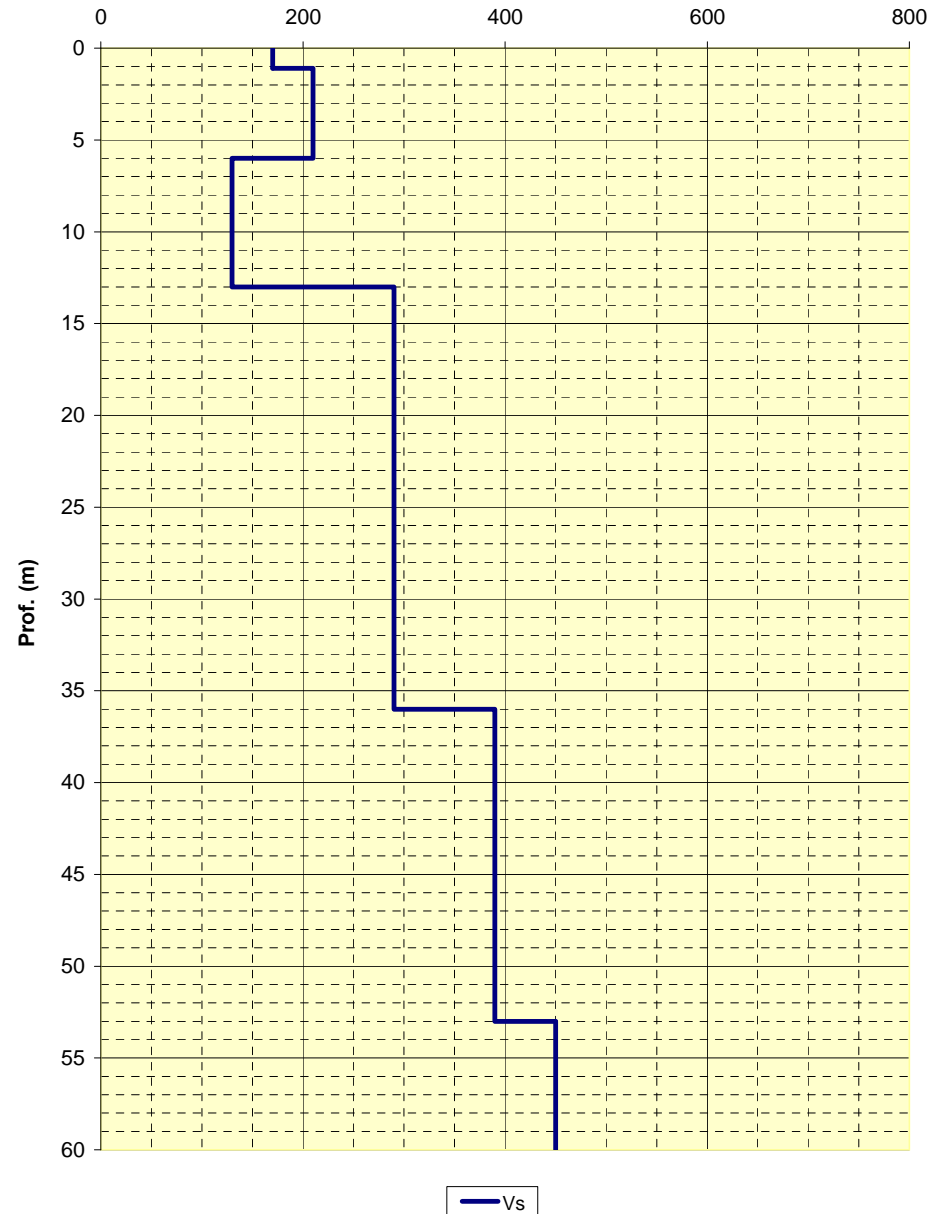


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.1	170
2	1.1	6	210
3	6	13	130
4	13	36	290
5	36	53	390
6	53	INF	450
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
07

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

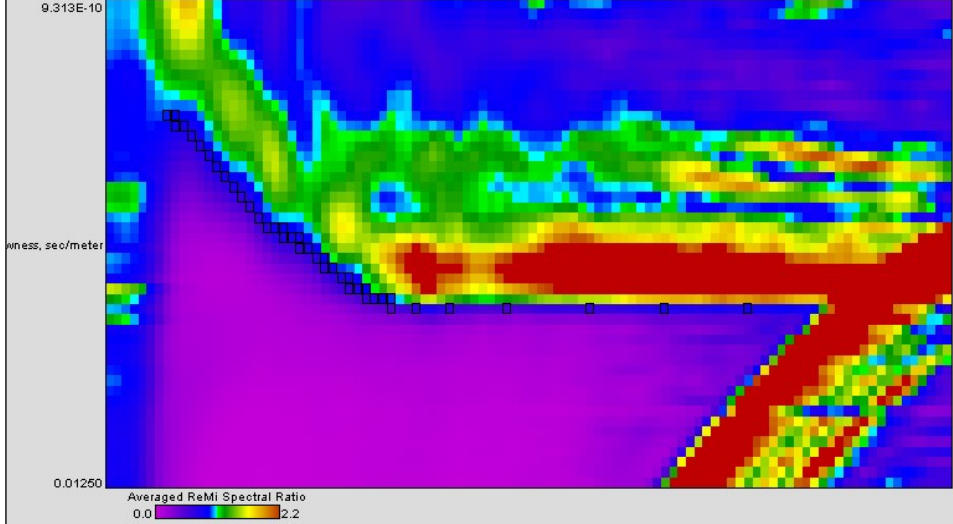
CANTIERE: Microzonazione sismica 2013

QUOTA: 45 m slm

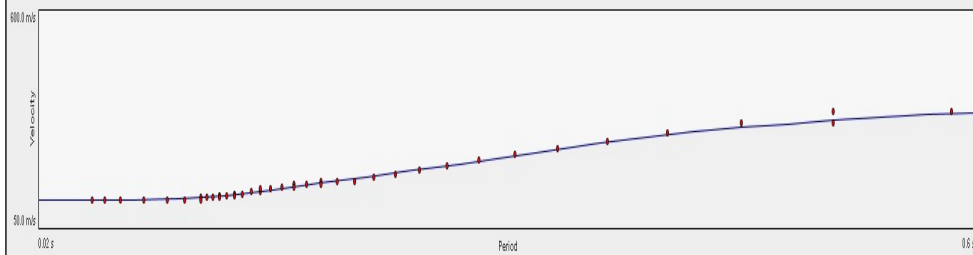
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Sgmi.CENTROGEO\Desktop\SISMICA\CAMPOGALLIANO\Campogalliano_07\071.Sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 10, 12, 14, 15
0.0 Frequency, Hz 24.902



Curva di dispersione

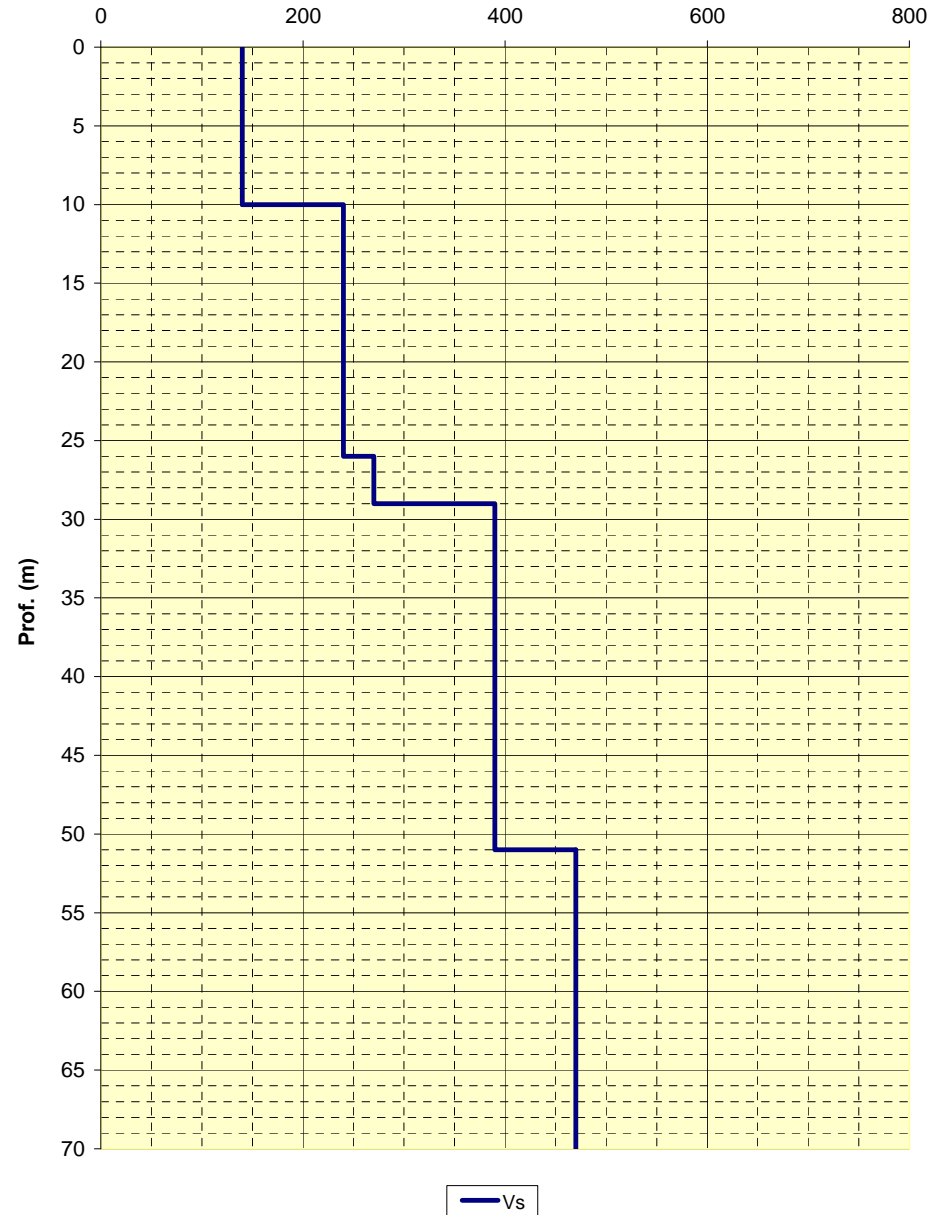


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	10	140
2	10	26	240
3	26	29	270
4	29	51	390
5	51	INF	470
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
08

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

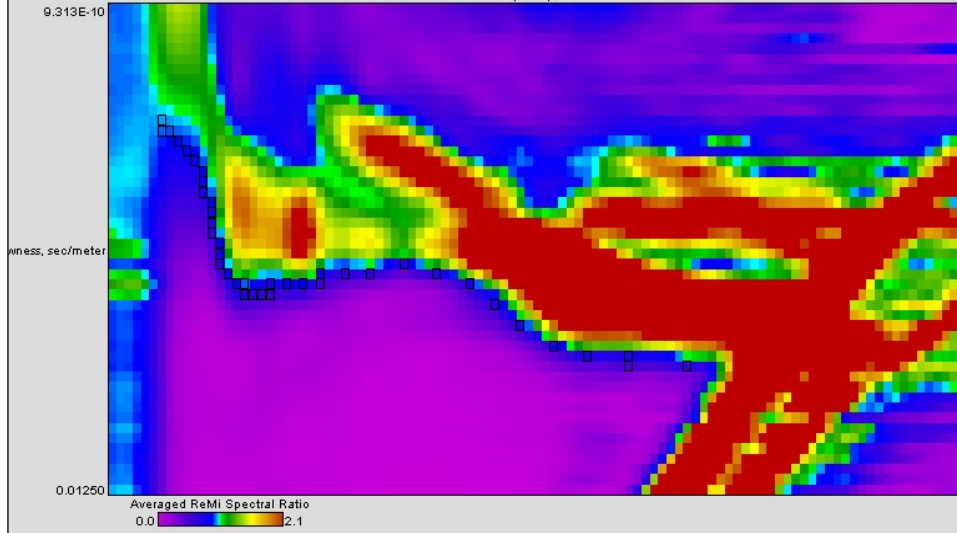
CANTIERE: Microzonazione sismica 2013

QUOTA: 41 m slm

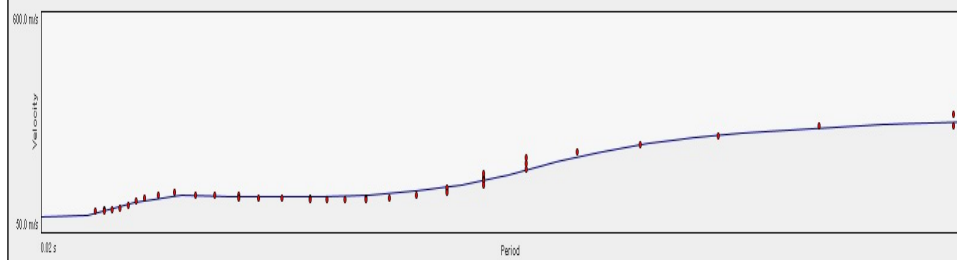
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

S:\Sism.CENTROGEO\Desktop\SISMICA\CAMPUGALLIANO\Campogalliano_08\101.sgy - Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 14, 15, 16, 19



Curva di dispersione

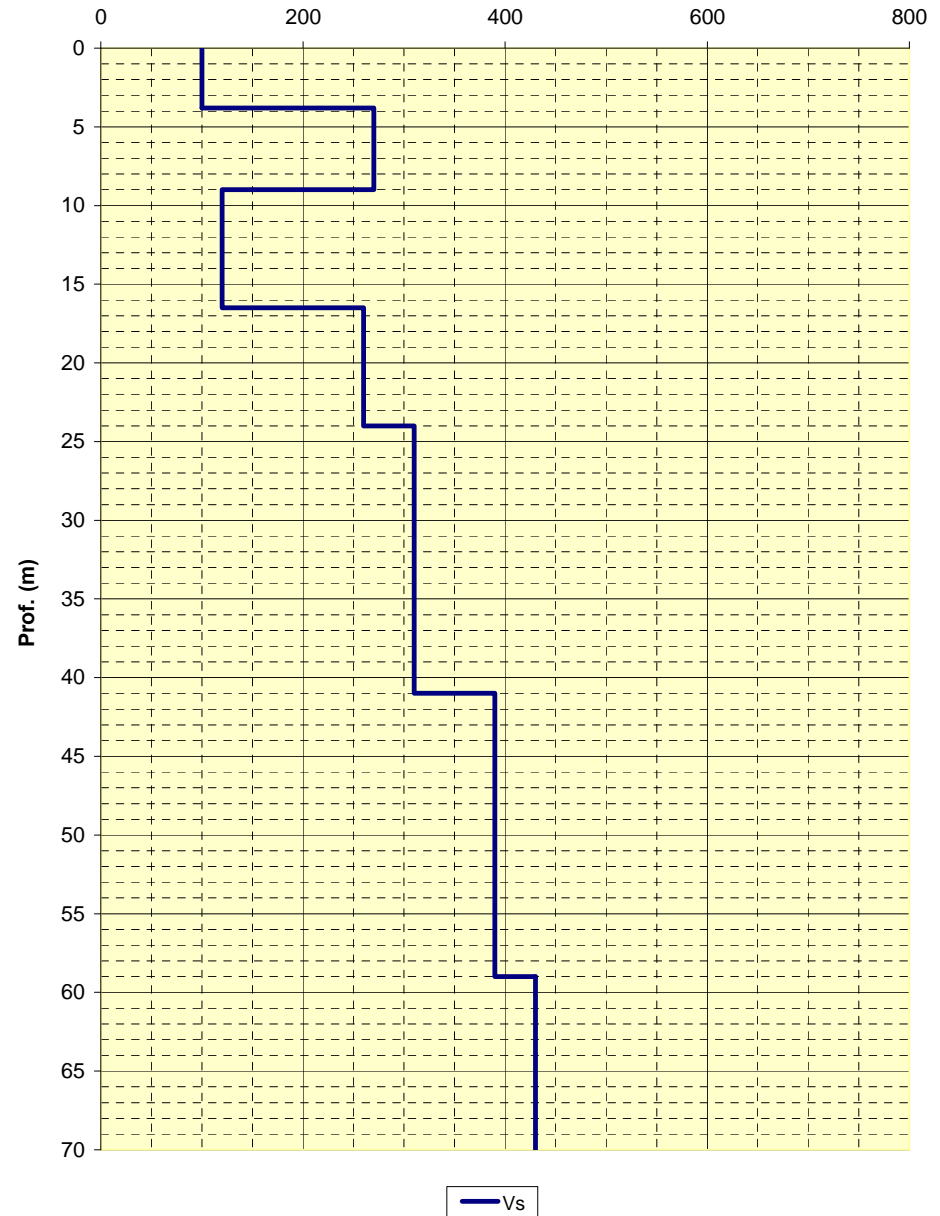


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	3.8	100
2	3.8	9	270
3	9	16.5	120
4	16.5	24	260
5	24	41	310
6	41	59	390
7	59	INF	430
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

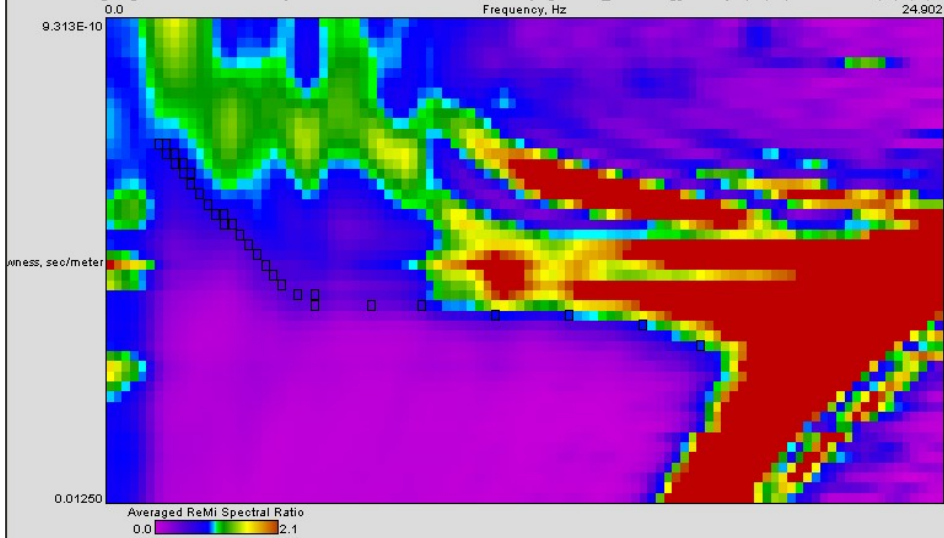
CANTIERE: Microzonazione sismica 2013

QUOTA: 40 m slm

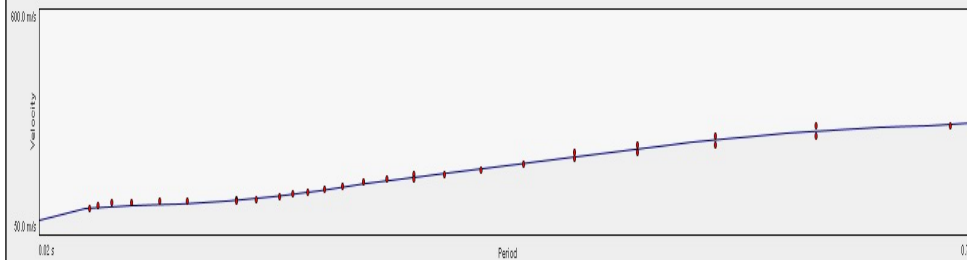
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

File and Settings: C:\Program Files\CENTROGEO\Desktop\SISMICA\CAMPOGALLIANO\Campogalliano_09\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4



Curva di dispersione

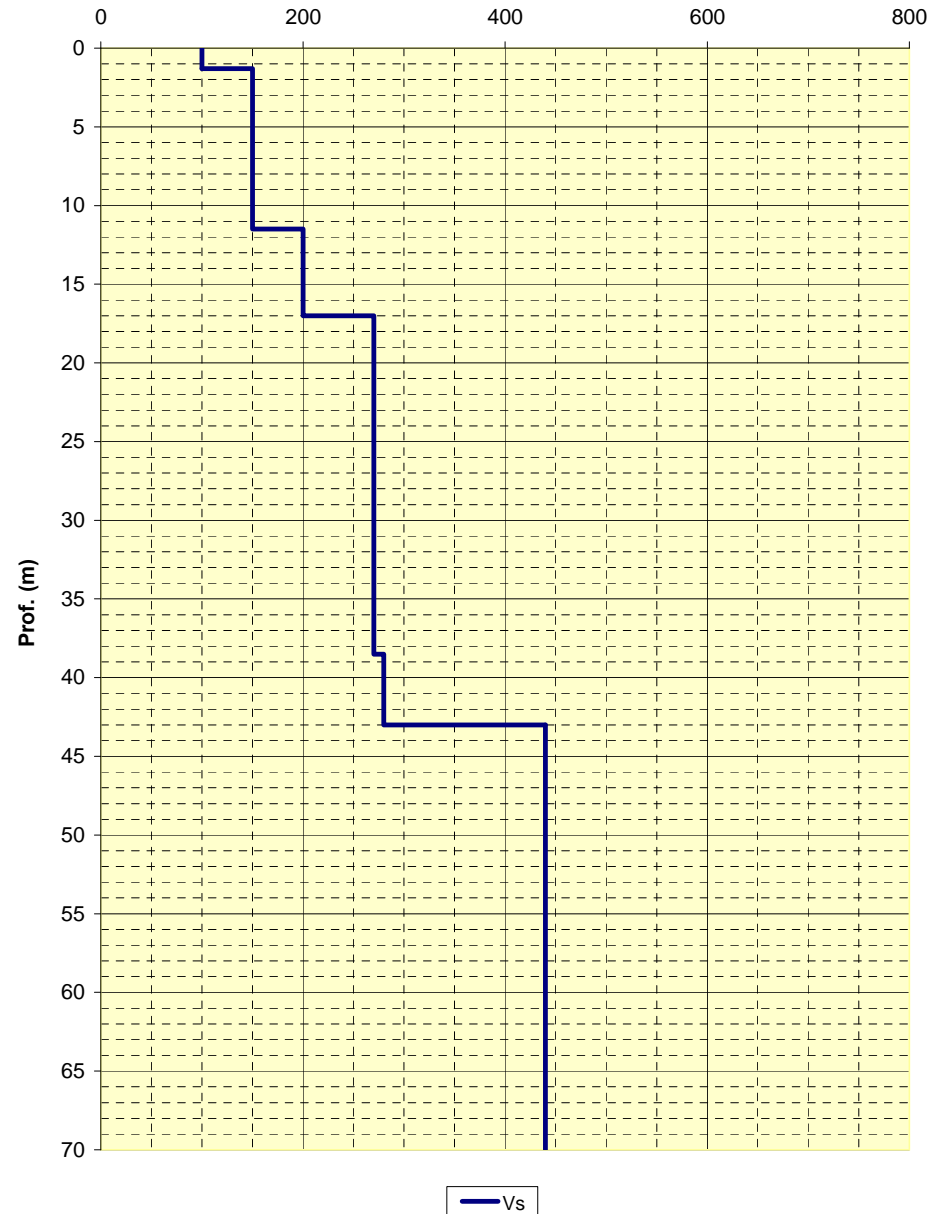


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	1.3	100
2	1.3	11.5	150
3	11.5	17	200
4	17	38.5	270
5	38.5	43	280
6	43	INF	440
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)

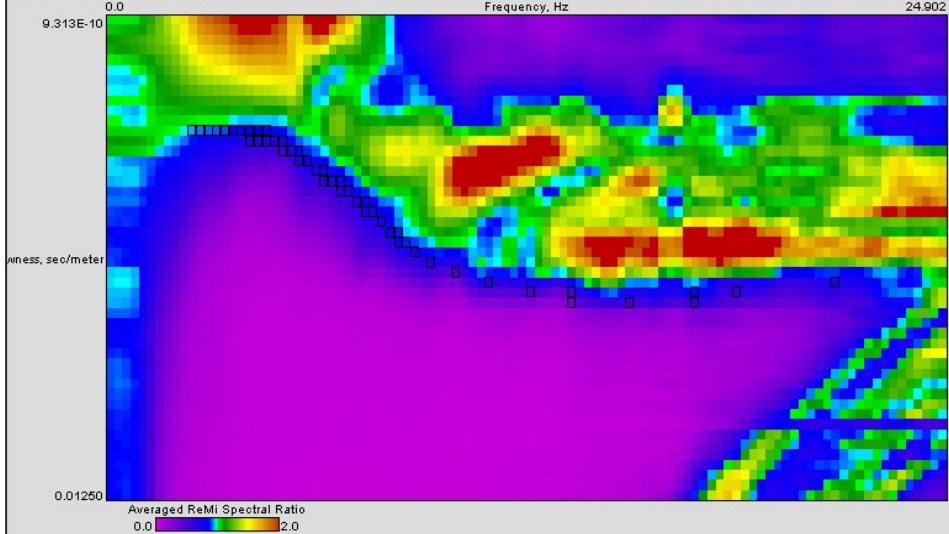


LOCALITA': Campogalliano (MO)
DATA: 20-02-2013
QUOTA: 40 m slm

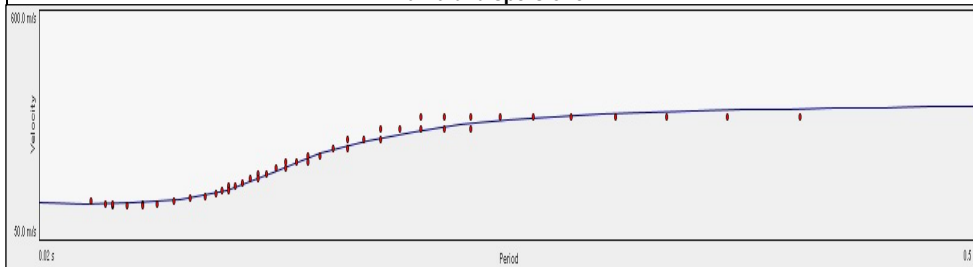
COMMITTENTE: Amm. Comun. Campogalliano
CANTIERE: Microzonazione sismica 2013
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FC:\CAMPOGALLIANO\campogalliano_10\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



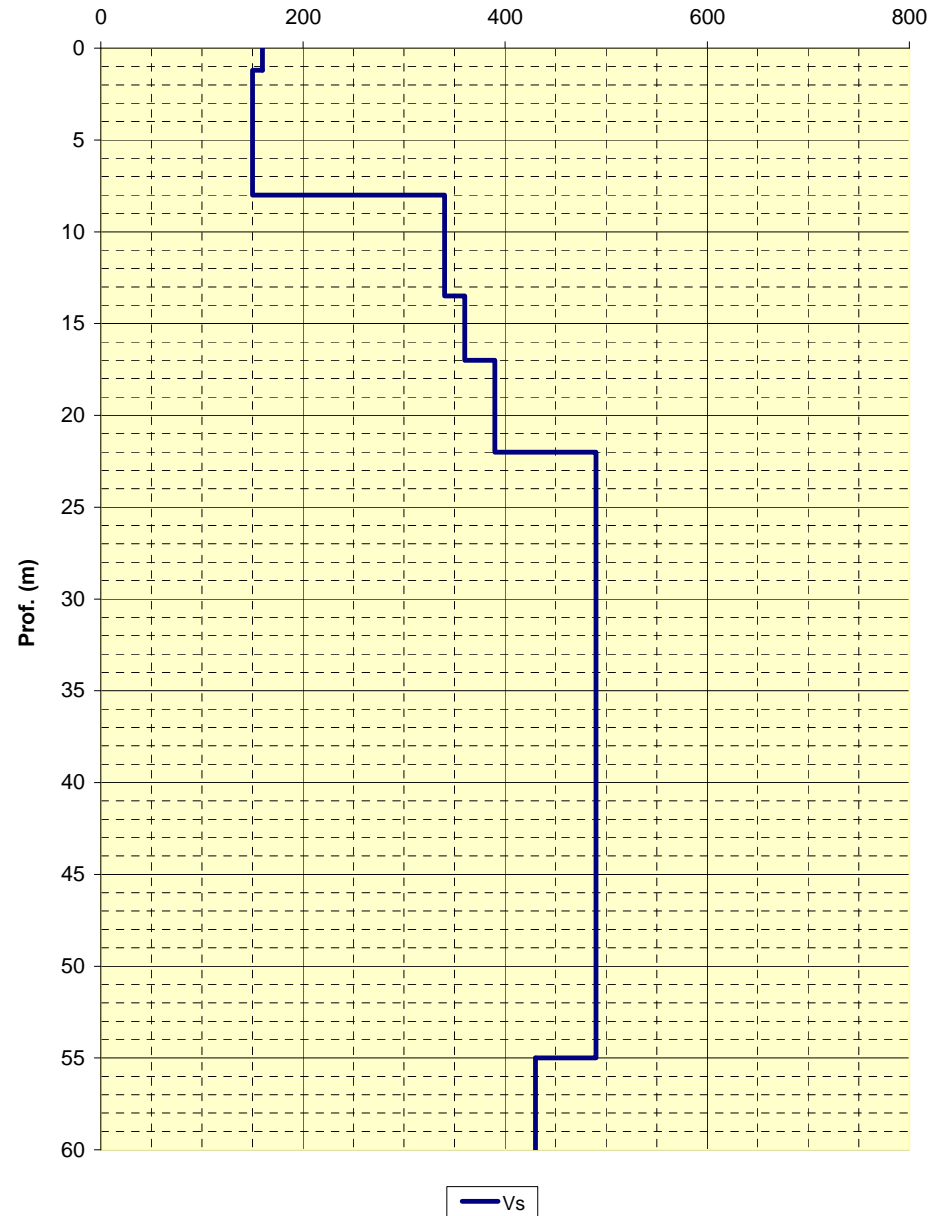
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	1.2	1.2	160
2	1.2	8	6.8	150
3	8	13.5	5.5	340
4	13.5	17	3.5	360
5	17	22	5	390
6	22	55	33	490
7	55	INF	INF	430
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)

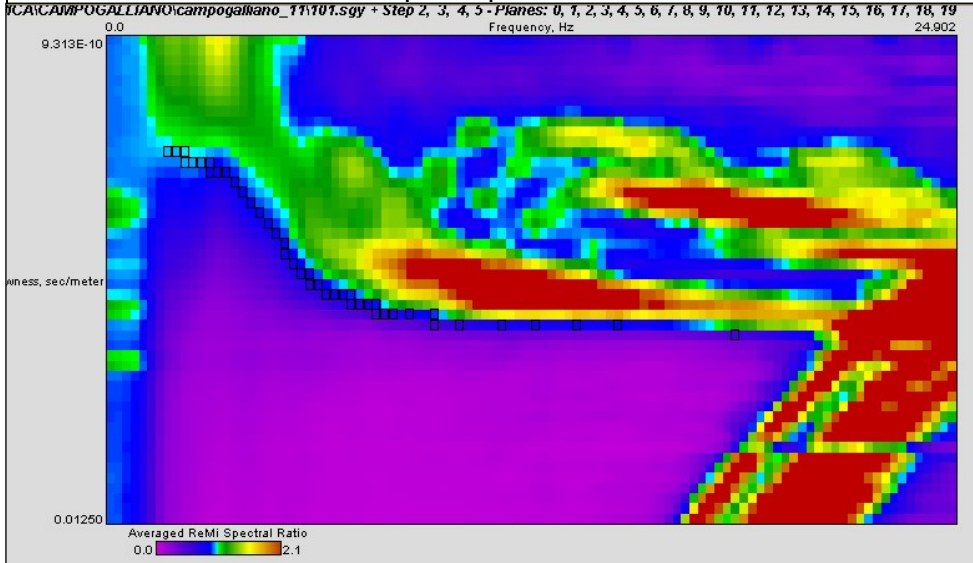


STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 Correggio (RE)

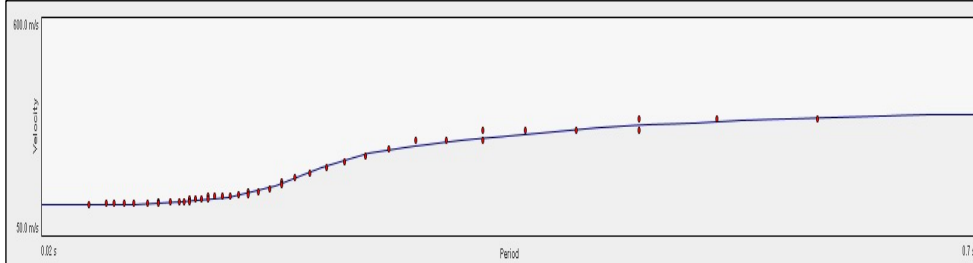
INDAGINE Re.Mi./MASW
11

LOCALITA': Campogalliano (MO) COMMITTENTE: Amm. Comun. Campogalliano
DATA: 20-02-2013 CANTIERE: Microzonazione sismica 2013
QUOTA: 37 m slm OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione

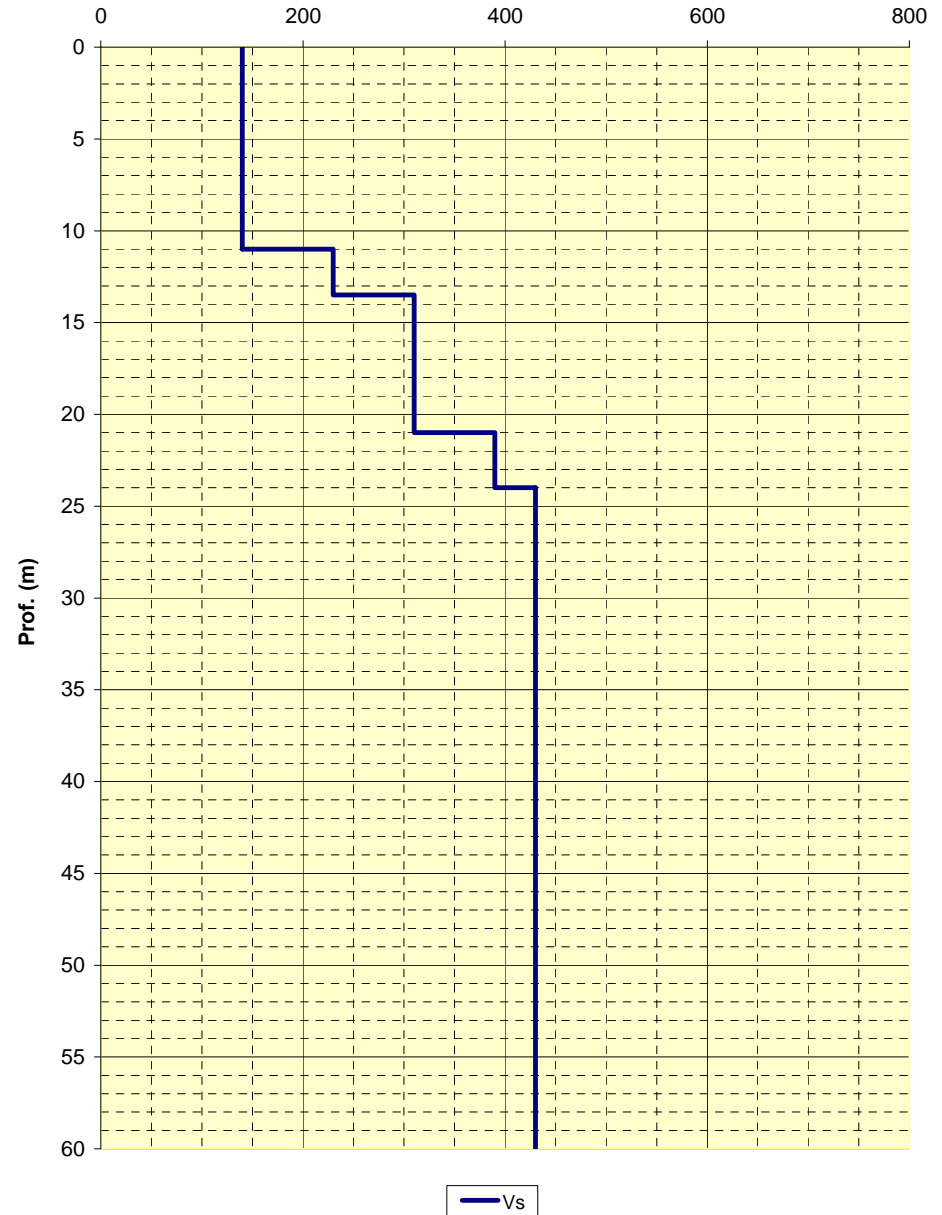


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0 - 11	11	140
2	11 - 13.5	2.5	230
3	13.5 - 21	7.5	310
4	21 - 24	3	390
5	24 - INF	INF	430
6			
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
12

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

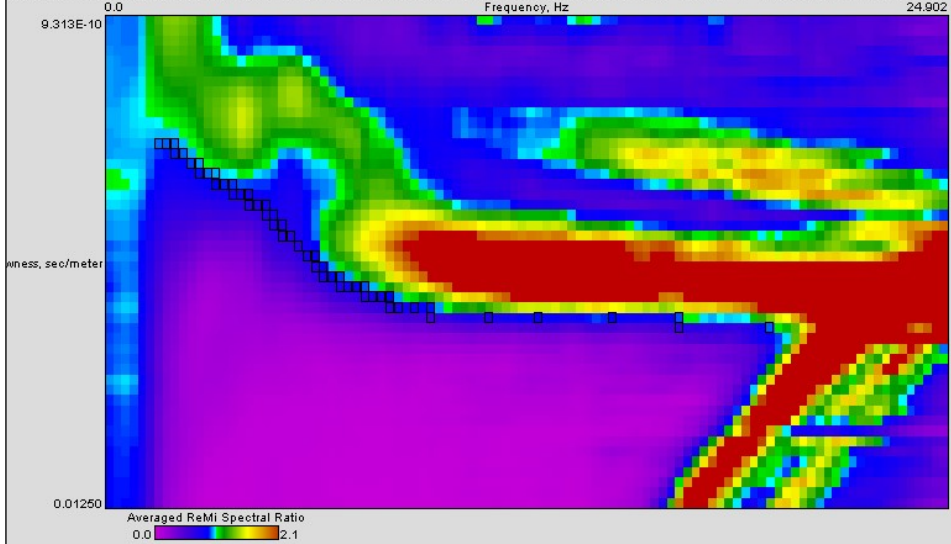
CANTIERE: Microzonazione sismica 2013

QUOTA: 37 m slm

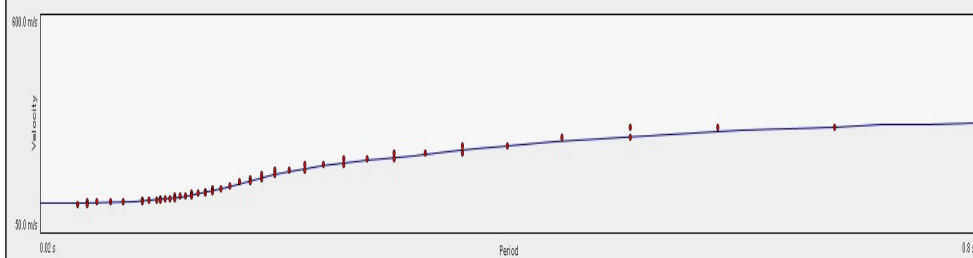
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

and Settings'sgml.C:\IRGEO\Desktop\SISMICA\CAMPOGALLIANO\campogalliano_12\101.sgy + Step 2, 3, 4, 5 - Planes: 2, 5, 7, 8, 9, 10



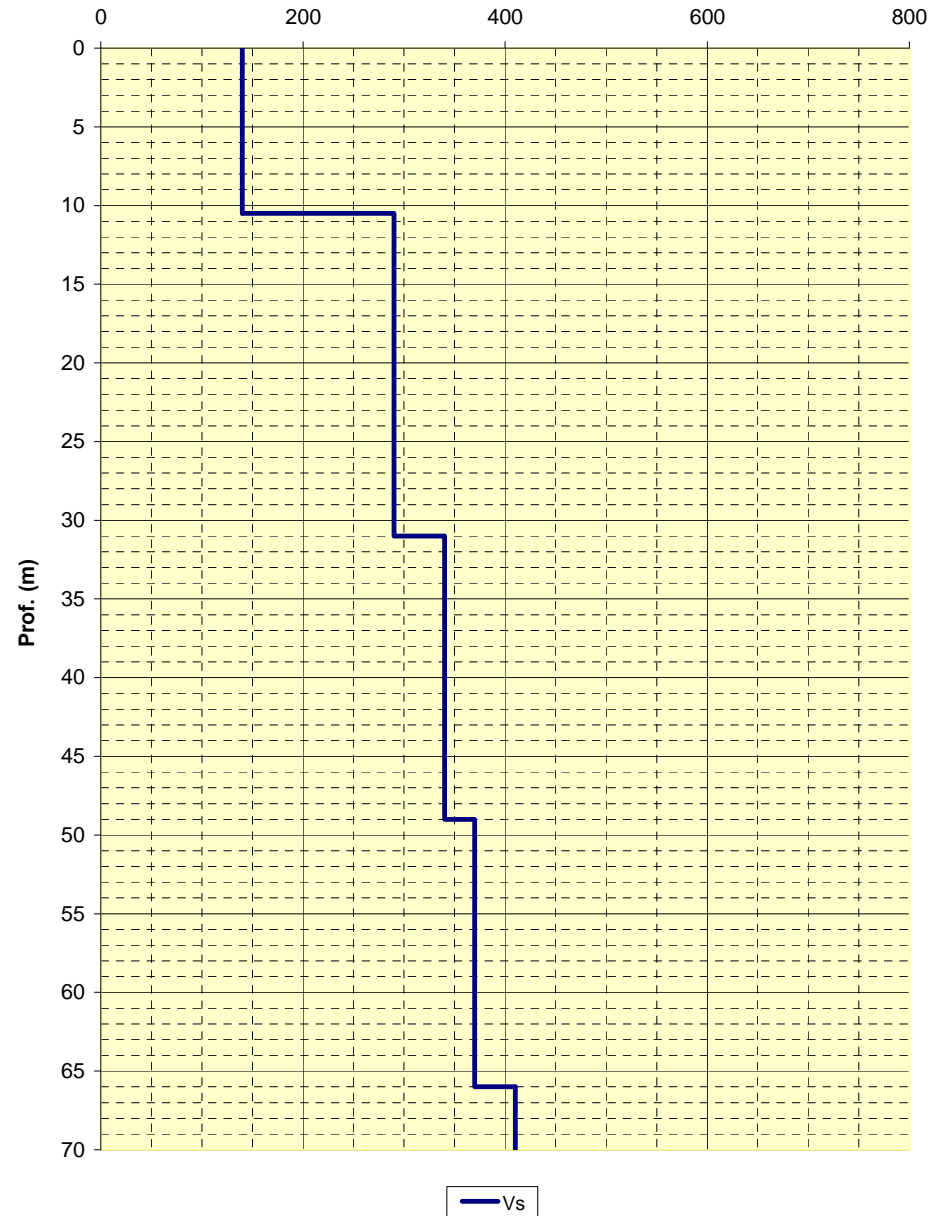
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	10.5	10.5	140
2	10.5	31	20.5	290
3	31	49	18	340
4	49	66	17	370
5	66	INF	INF	410
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
13

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

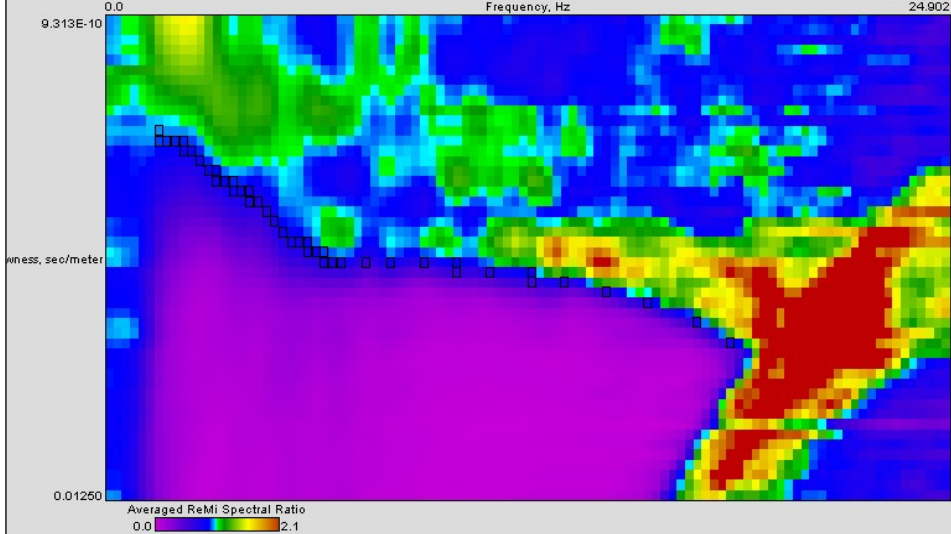
CANTIERE: Microzonazione sismica 2013

QUOTA: 37 m slm

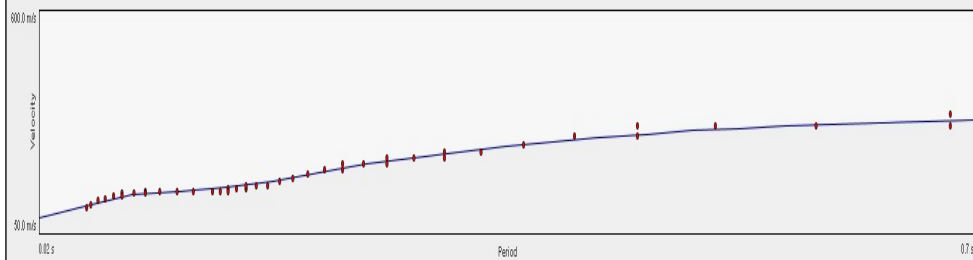
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Path: C:\Programmi\CENTROGEO\Desktop\SISMICA\CAMPUGALLIANO\Campogalliano_13\101.sgy + Step 2, 3, 4, 5 - Planes: 2, 3, 5, 6, 9, 11, 13, 14



Curva di dispersione

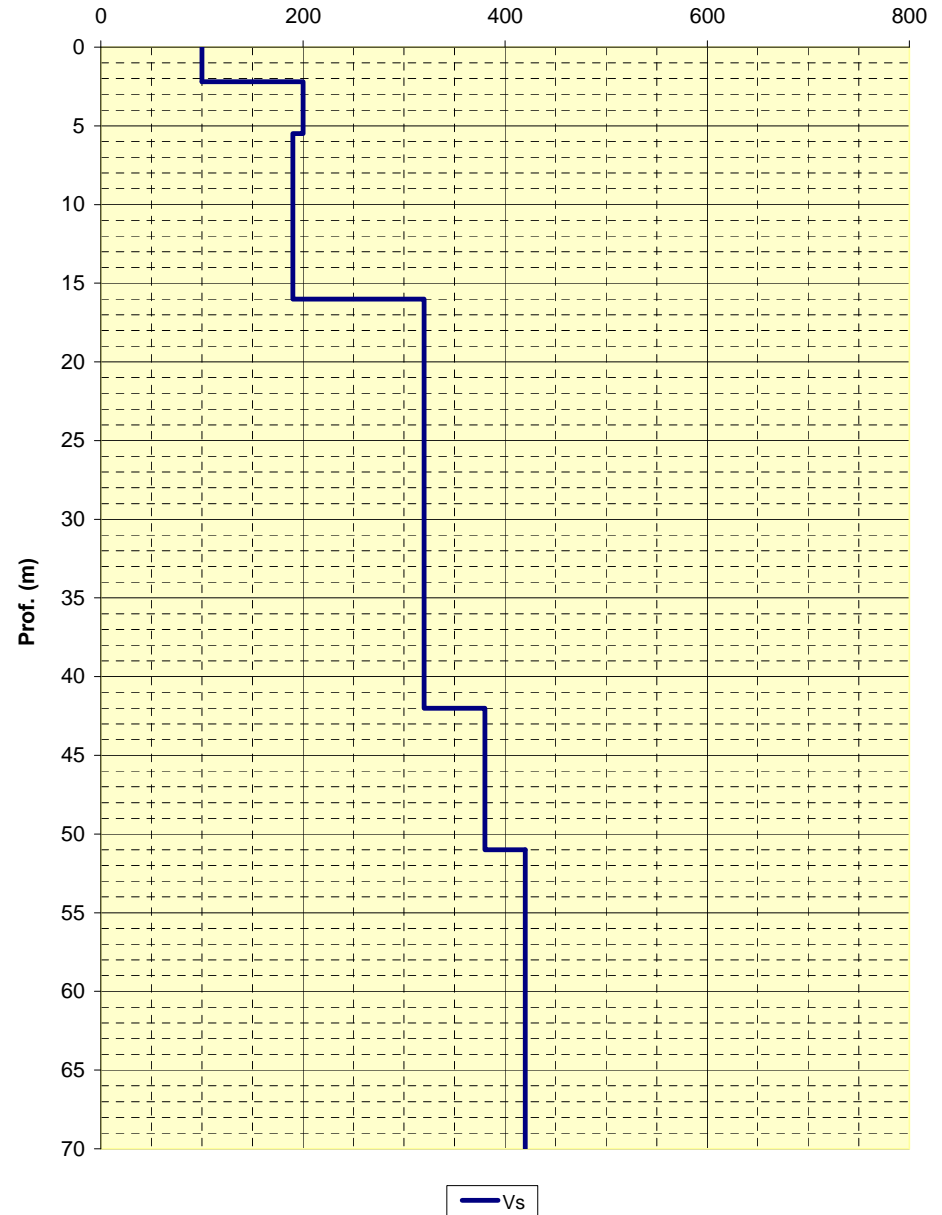


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	2.2	2.2
2	2.2	5.5	3.3
3	5.5	16	10.5
4	16	42	26
5	42	51	9
6	51	INF	INF
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
14

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

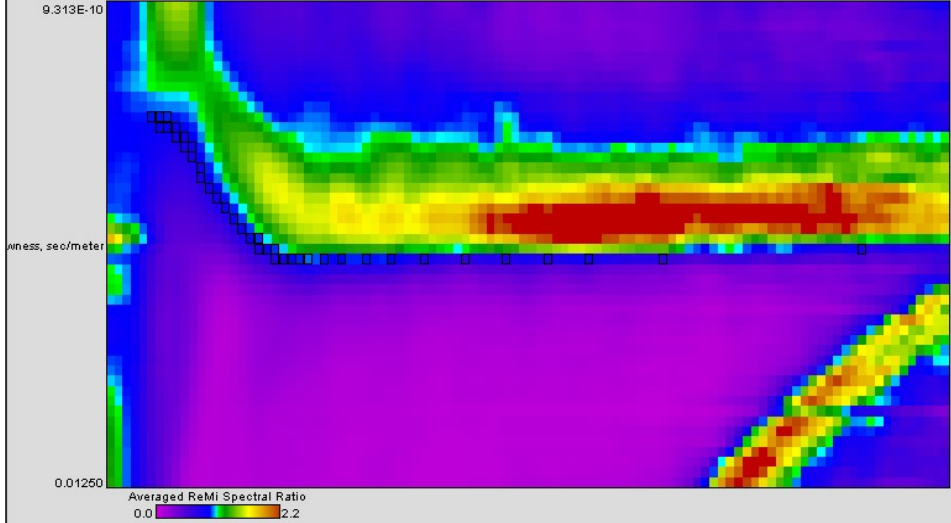
CANTIERE: Microzonazione sismica 2013

QUOTA: 42 m slm

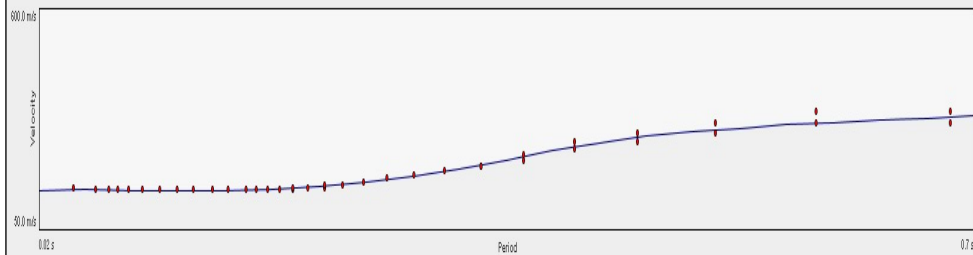
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FILE: CAMPOGALLIANO\campogalliano_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
Frequency, Hz 24.902



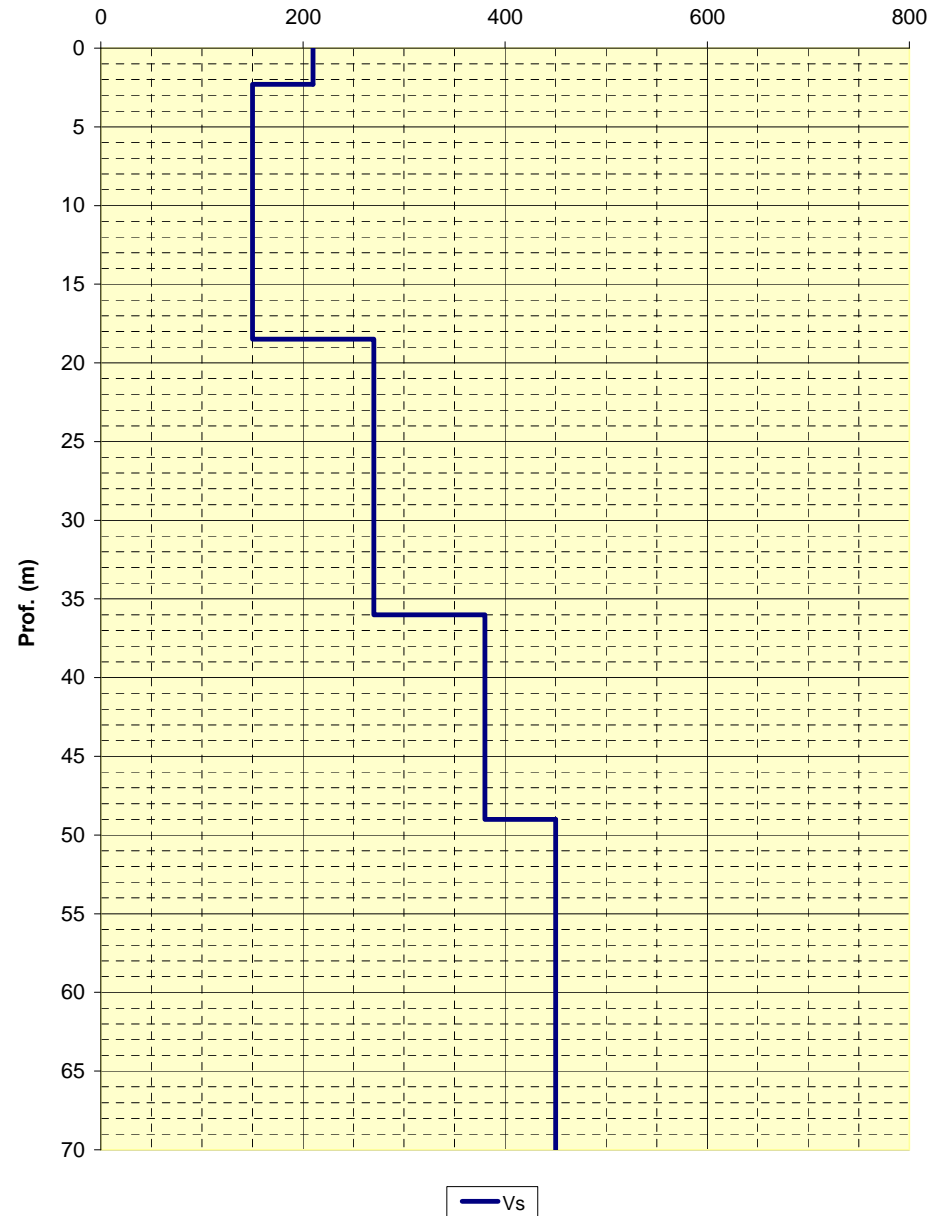
Curva di dispersione



Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	2.3	210
2	2.3	18.5	150
3	18.5	36	270
4	36	49	380
5	49	INF	450
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 27-02-2013

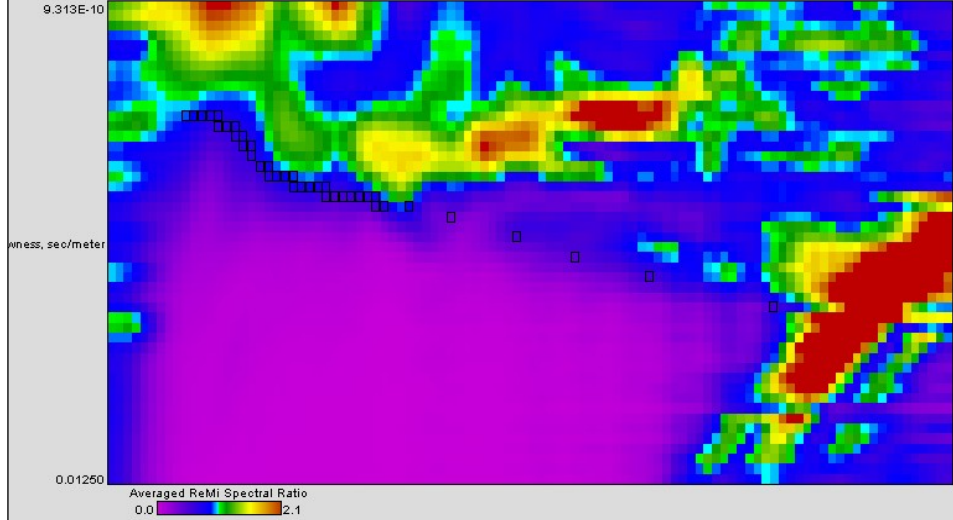
CANTIERE: Microzonazione sismica 2013

QUOTA: 32 m slm

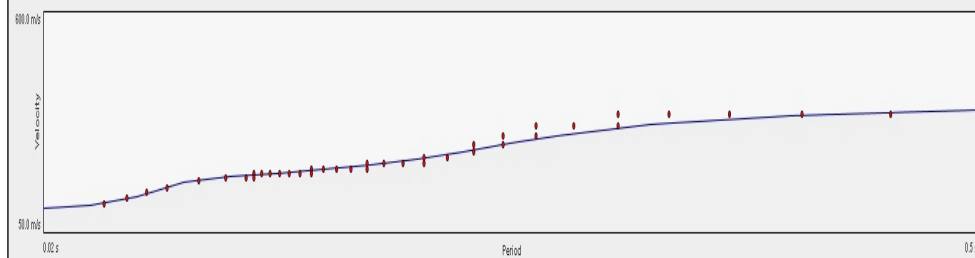
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Path Settings: g:\MI_CENTROGEO\Desktop\SISMICA\CAMPOGALLIANO\campogalliano_15\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 2, 3, 4, 5, 7, 9
Frequency, Hz 24.902



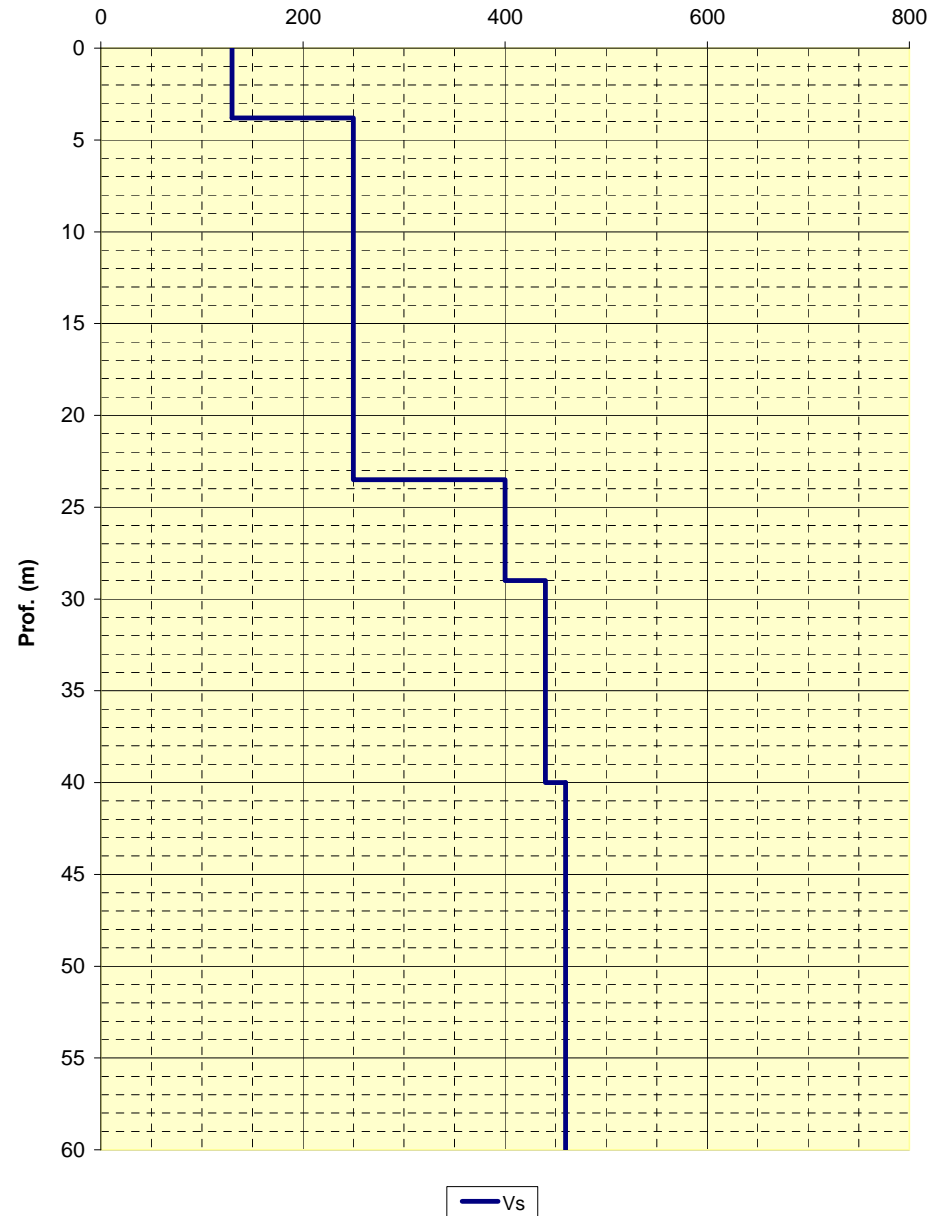
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	3.8	3.8	130
2	3.8	23.5	19.7	250
3	23.5	29	5.5	400
4	29	40	11	440
5	40	INF	INF	460
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)

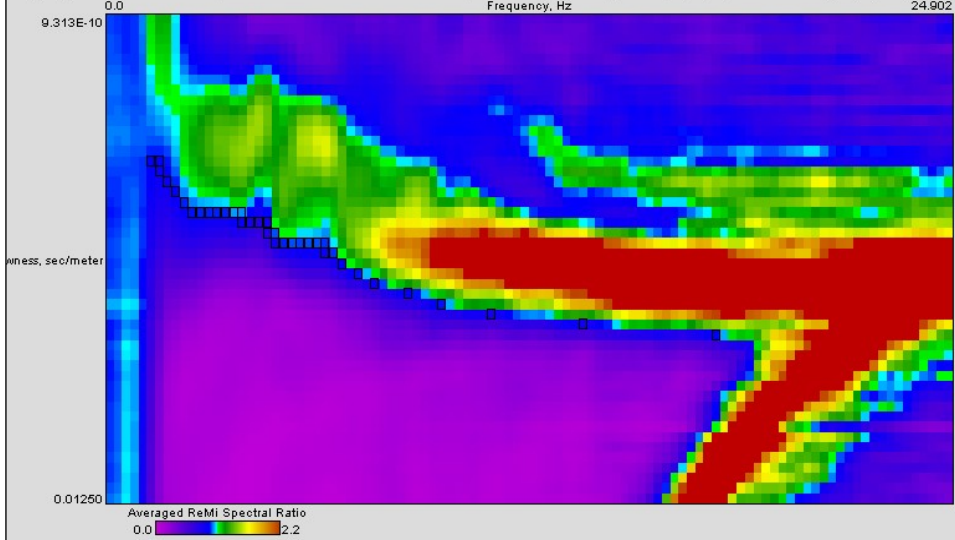


LOCALITA': Campogalliano (MO)
DATA: 27-02-2013
QUOTA: 33 m slm

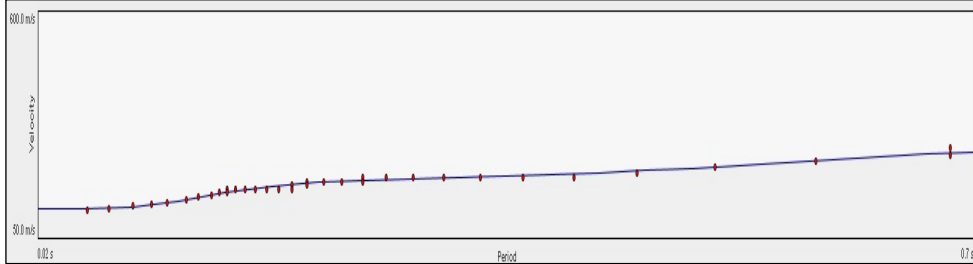
COMMITTENTE: Amm. Comun. Campogalliano
CANTIERE: Microzonazione sismica 2013
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Path: C:\Programmi\Geotec\Software\GEOLOGIA\CAMPOGALLIANO\campogalliano_16\101.sgy + Step 2, 3, 4, 5 - Planes: 4, 6, 8, 10, 11, 14, 18



Curva di dispersione

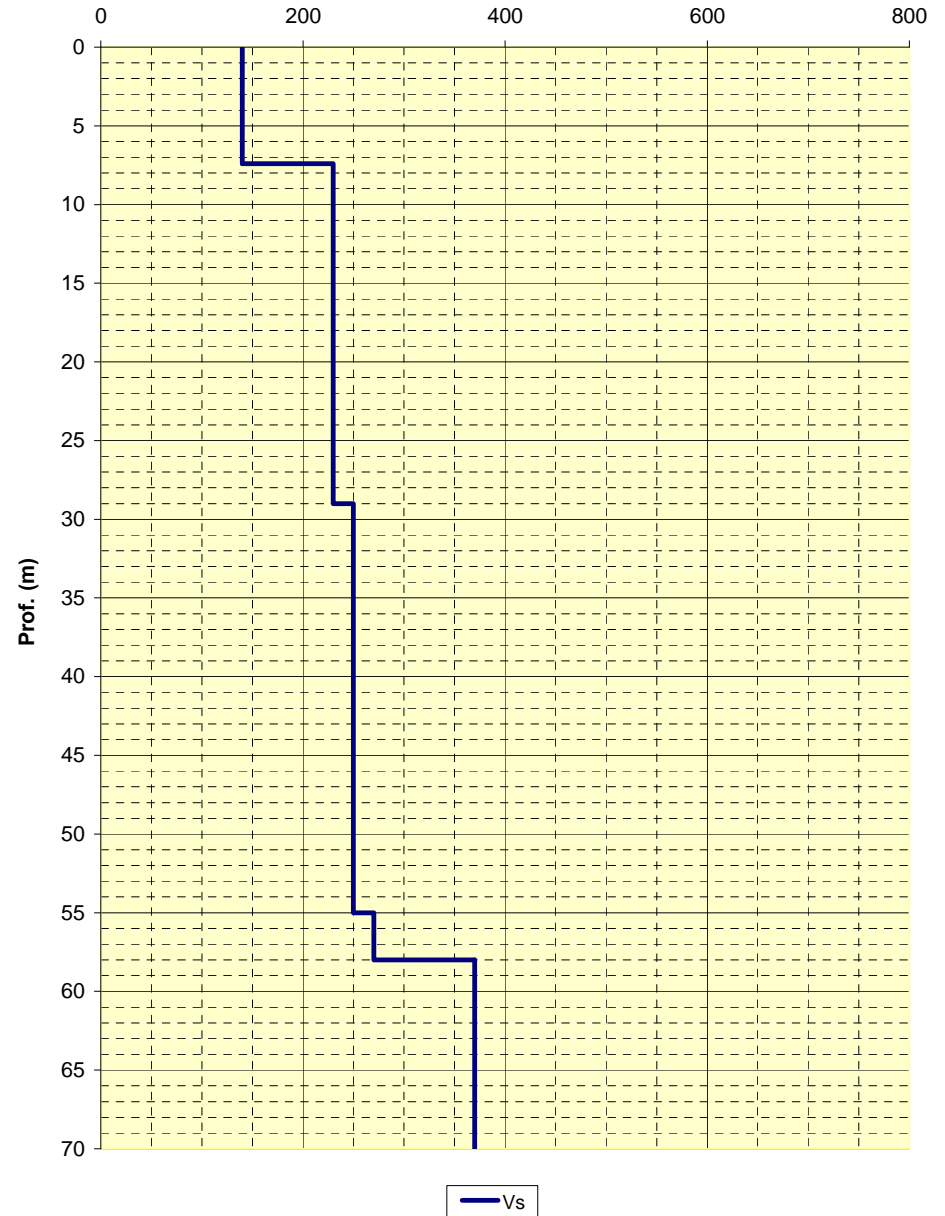


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	7.4	140
2	7.4	29	230
3	29	55	250
4	55	58	270
5	58	INF	370
6			
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
17

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

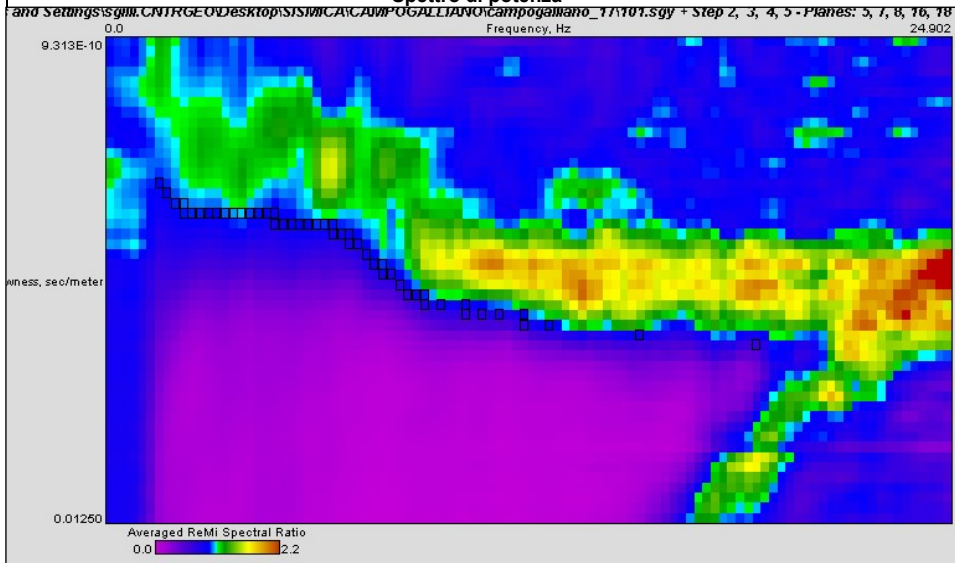
DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

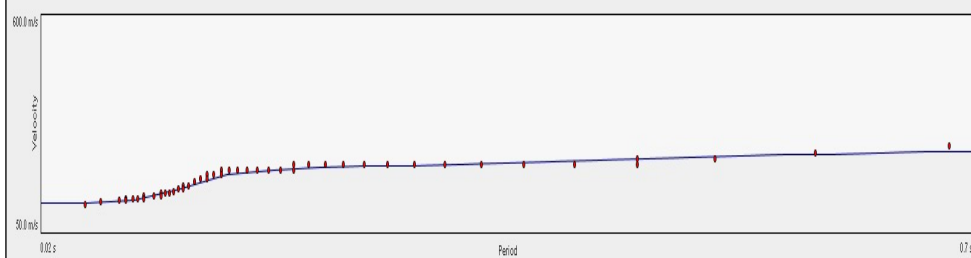
QUOTA: 32 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione

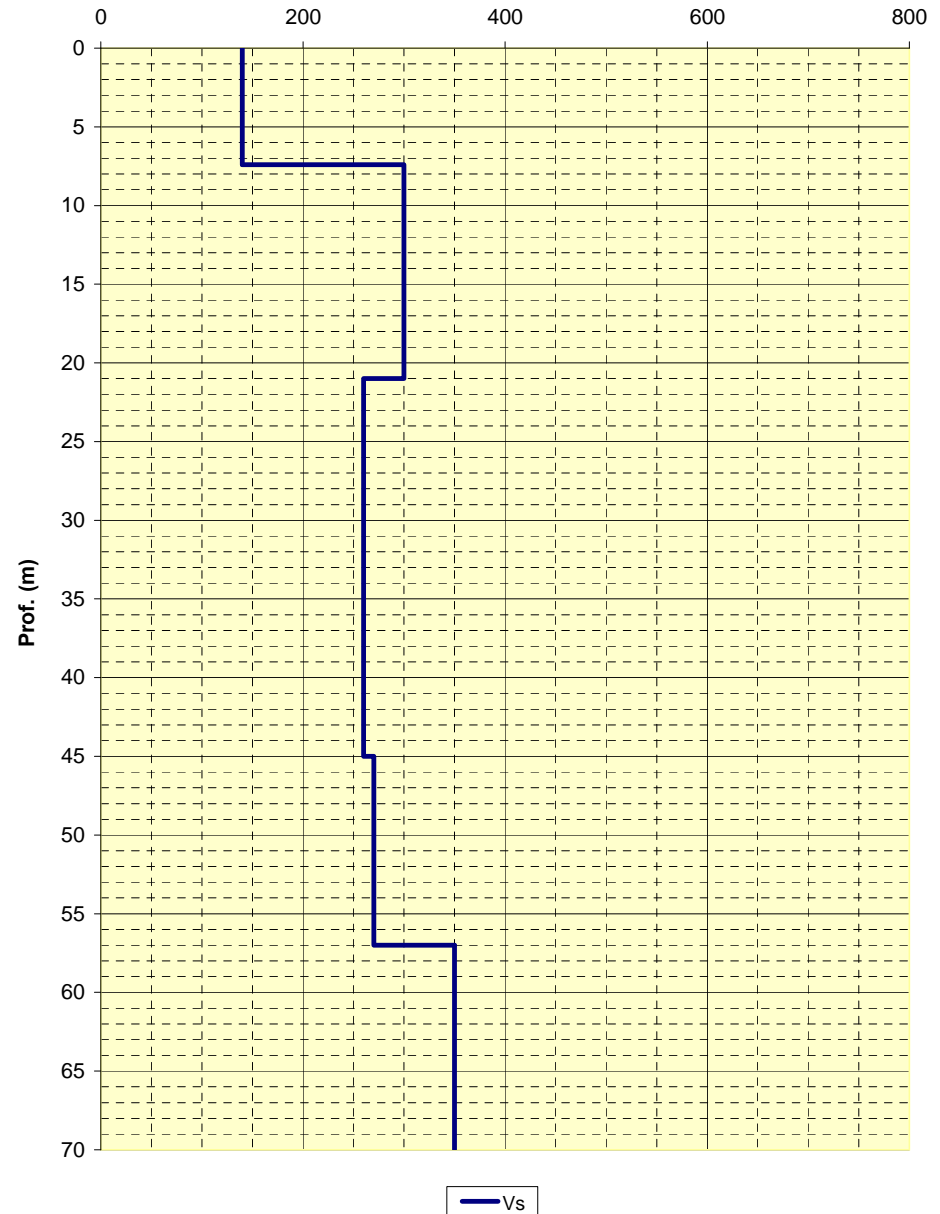


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	7.4	140
2	7.4	21	300
3	21	45	260
4	45	57	270
5	57	INF	350
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

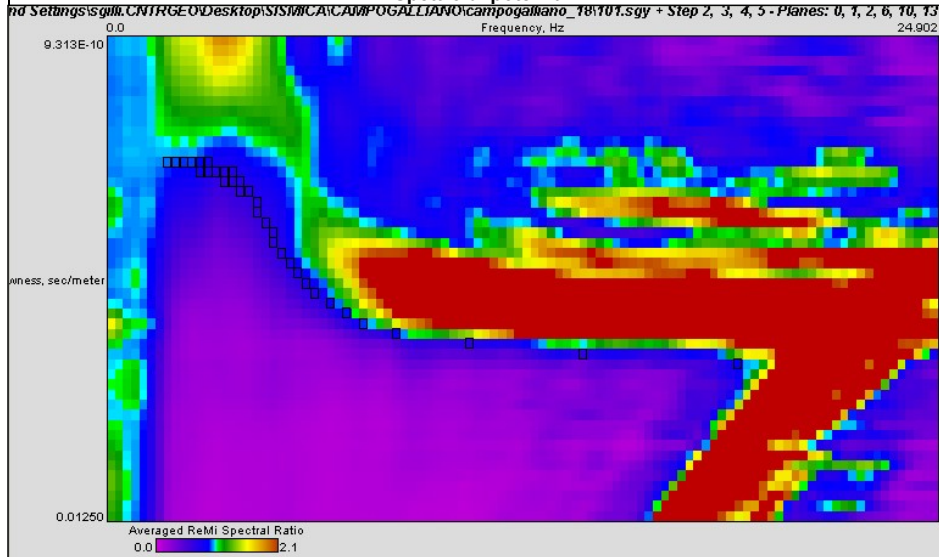
DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

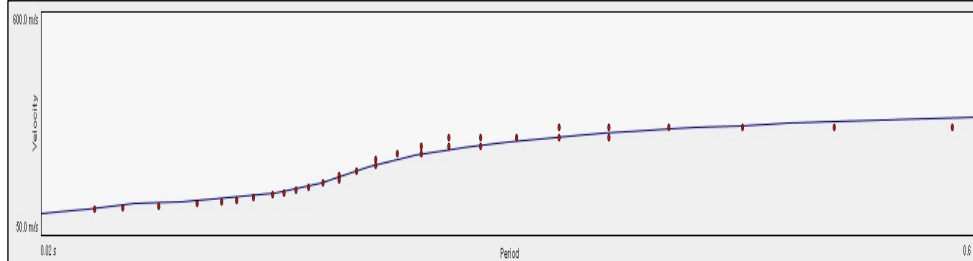
QUOTA: 33 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione

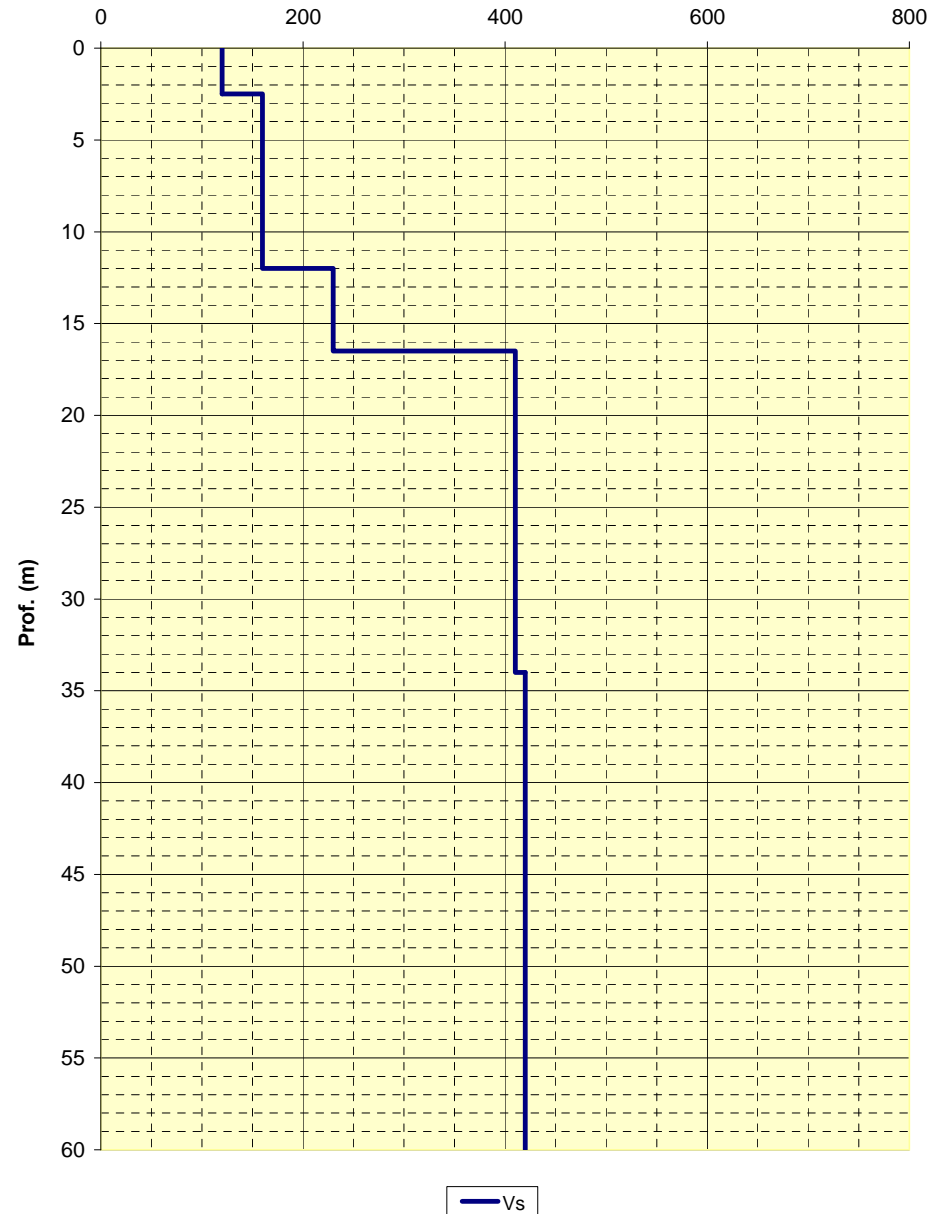


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0 - 2.5	2.5	120
2	2.5 - 12	9.5	160
3	12 - 16.5	4.5	230
4	16.5 - 34	17.5	410
5	34 - INF	INF	420
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
19

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

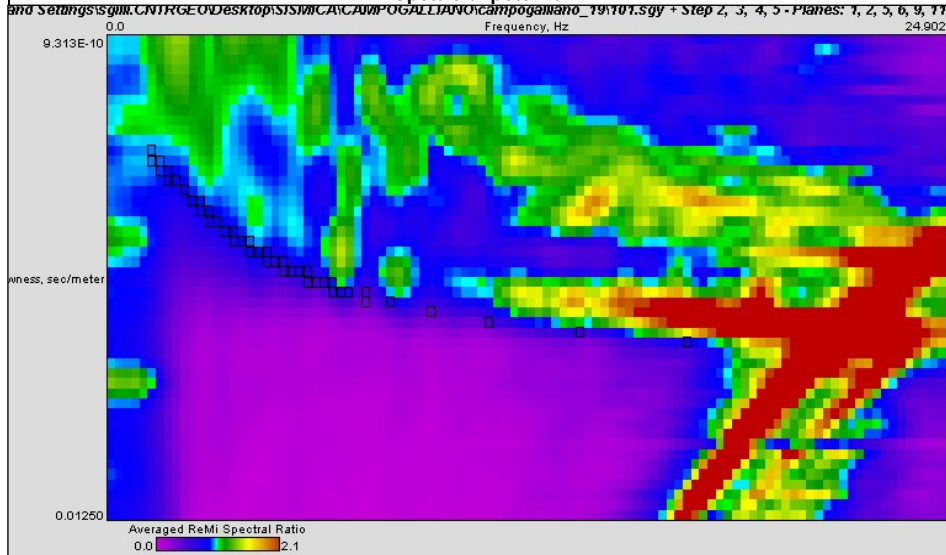
DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

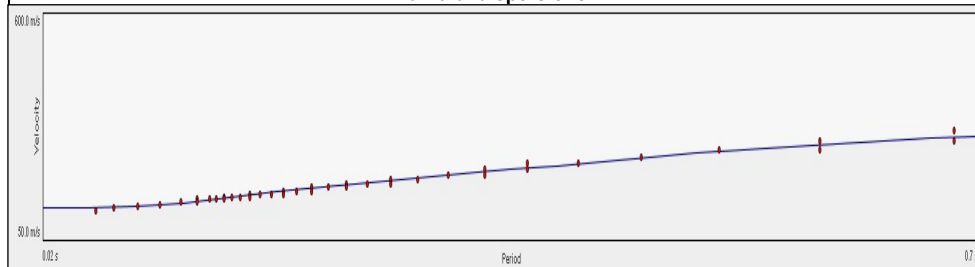
QUOTA: 34 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



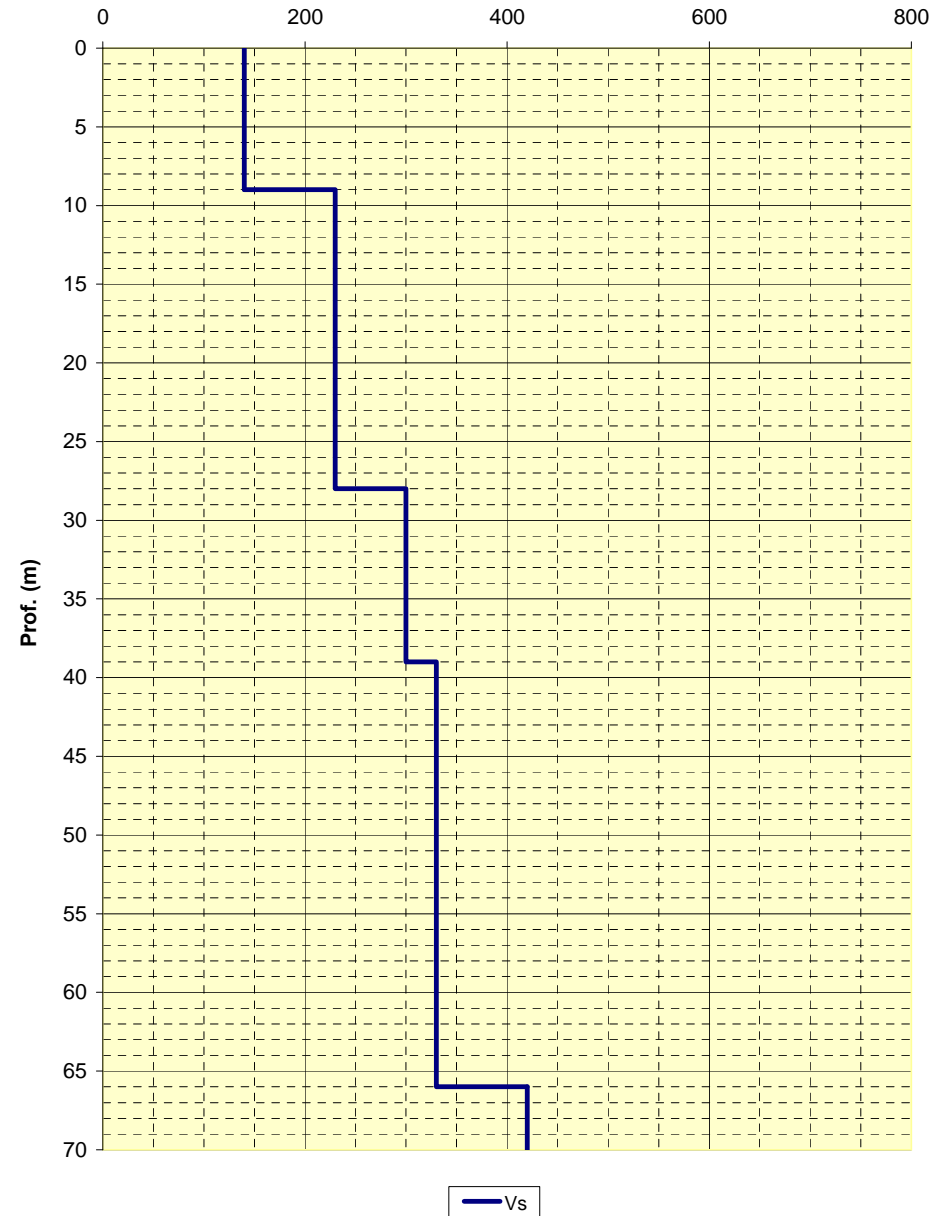
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	9	9	140
2	9	28	19	230
3	28	39	11	300
4	39	66	27	330
5	66	INF	INF	420
6				
7				
8				
9				
10				

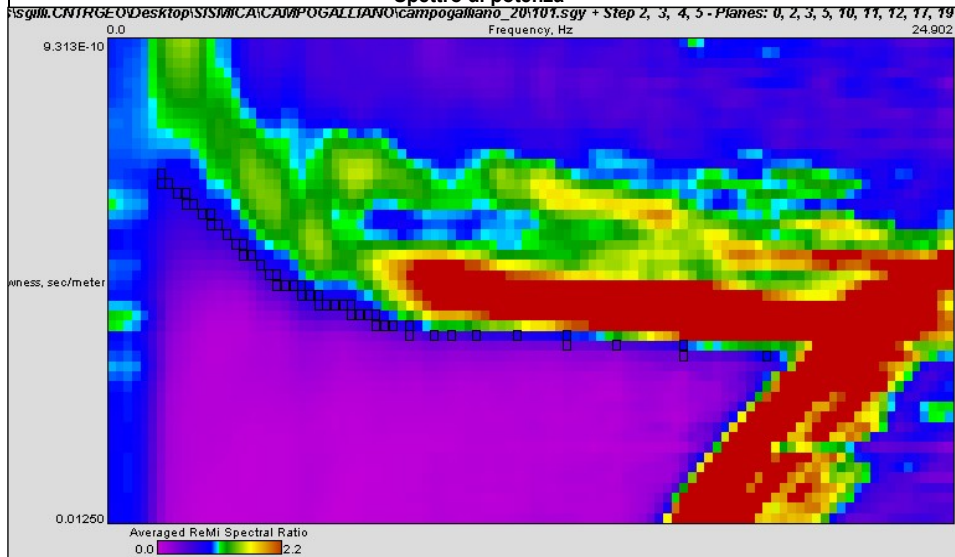
Modello interpretativo
profilo Vs (m/s)



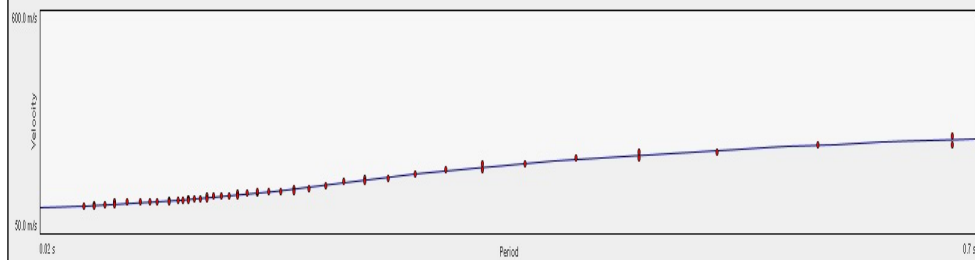
LOCALITA': Campogalliano (MO)
DATA: 28-02-2013
QUOTA: 36 m slm

COMMITTENTE: Amm. Comun. Campogalliano
CANTIERE: Microzonazione sismica 2013
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



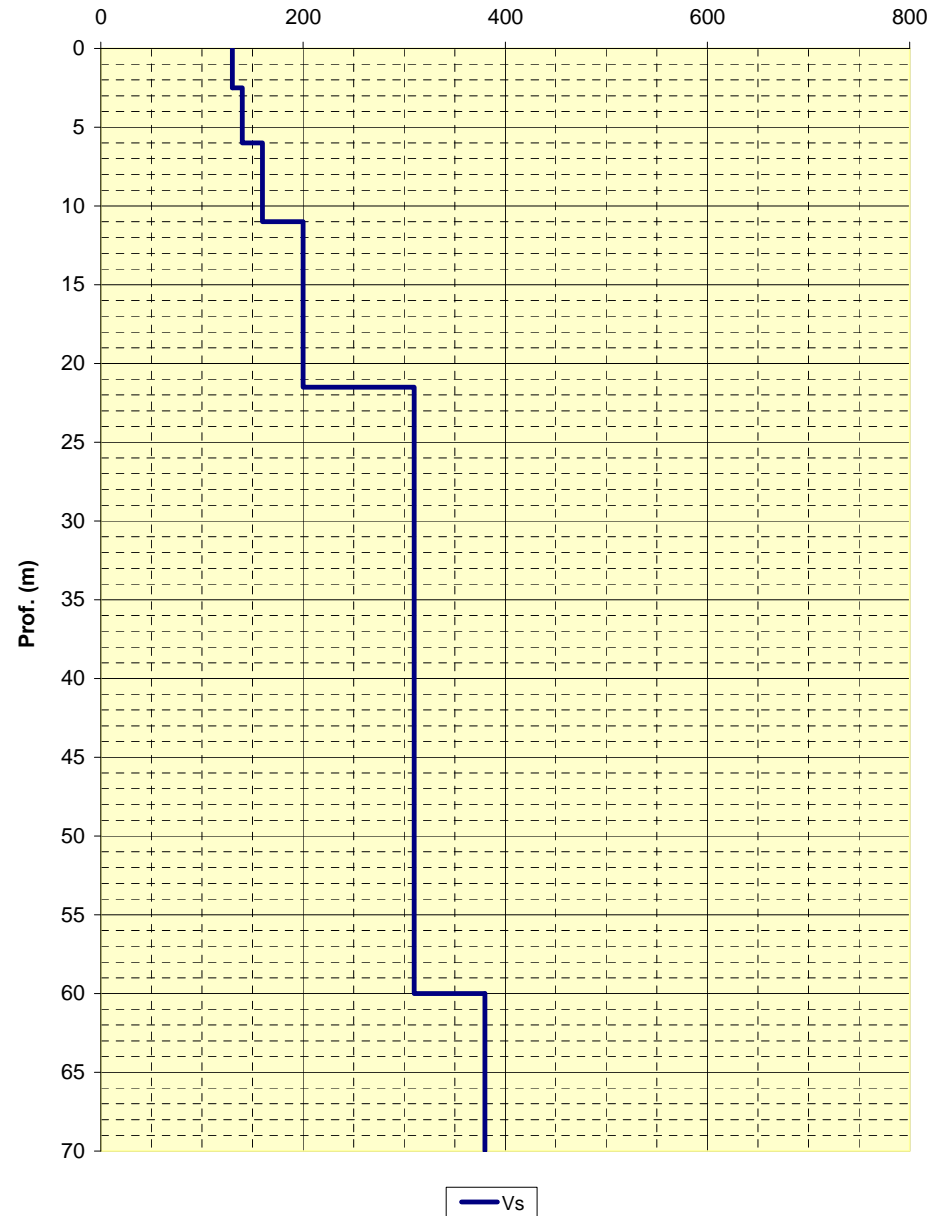
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	2.5	2.5	130
2	2.5	6	3.5	140
3	6	11	5	160
4	11	21.5	10.5	200
5	21.5	60	38.5	310
6	60	INF	INF	380
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

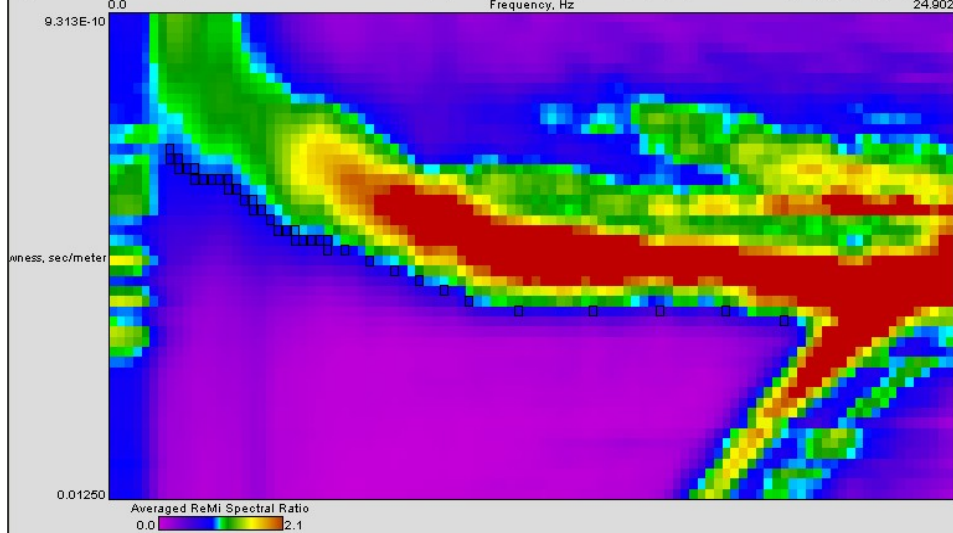
CANTIERE: Microzonazione sismica 2013

QUOTA: 35 m slm

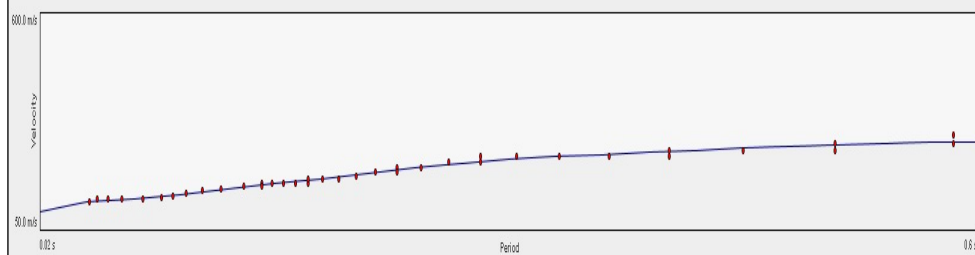
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

SYNTHESIS OF DESKTOP SOFTWARE FOR CAMPOGALLIANO - 21/01/2013 - Step 2, 3, 4, 5 - Planes: 2, 7, 8, 9, 13, 14, 16, 17, 18



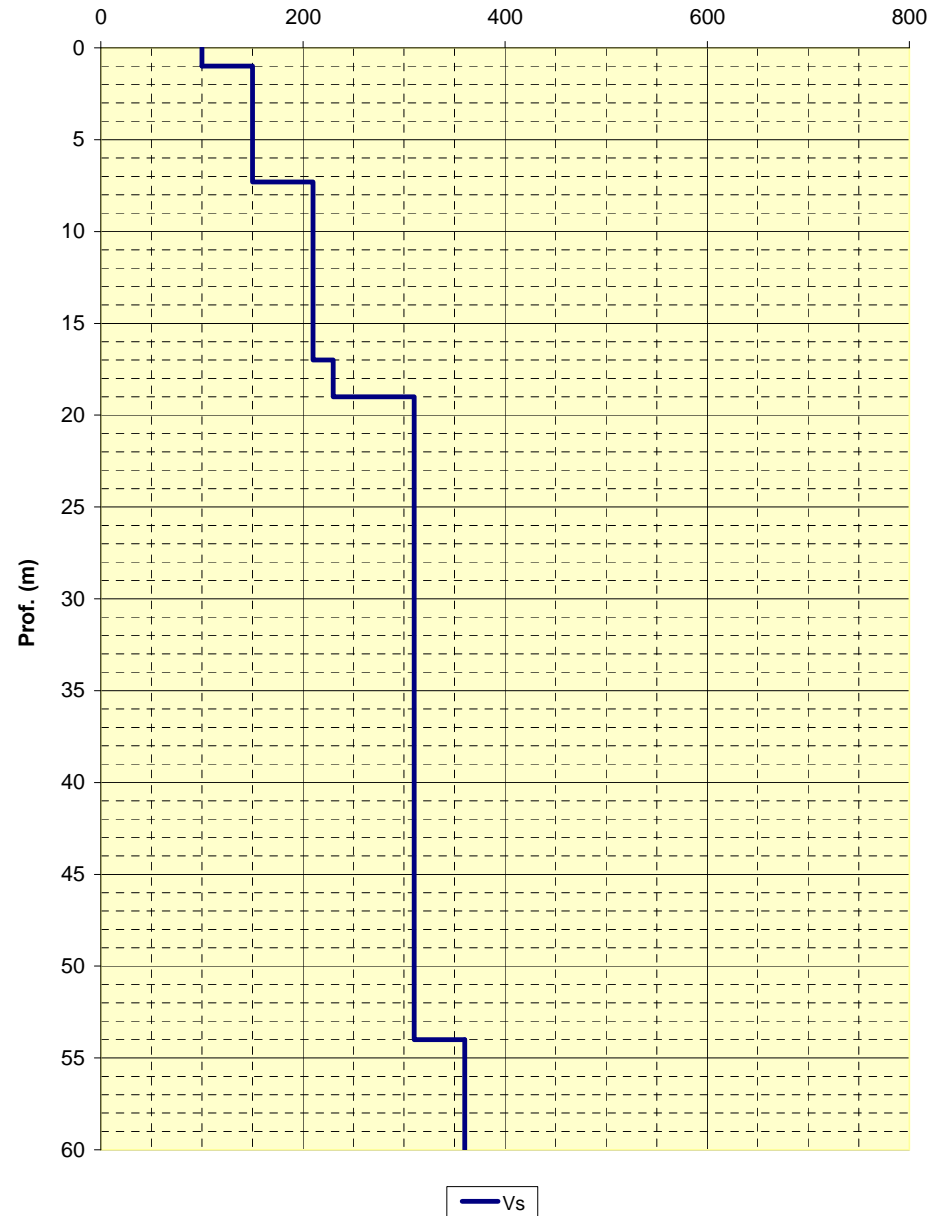
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	1	1	100
2	1	7.3	6.3	150
3	7.3	17	9.7	210
4	17	19	2	230
5	19	54	35	310
6	54	INF	INF	360
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

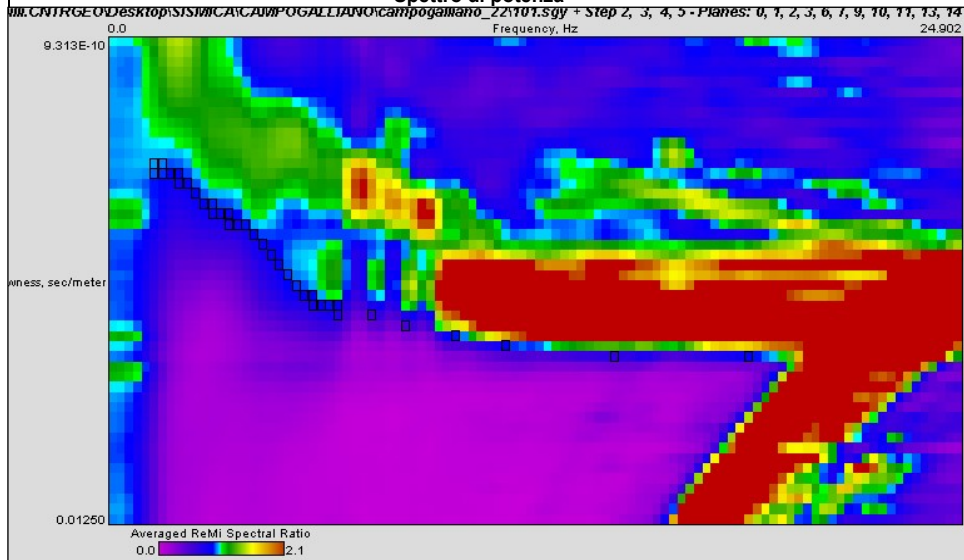
DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

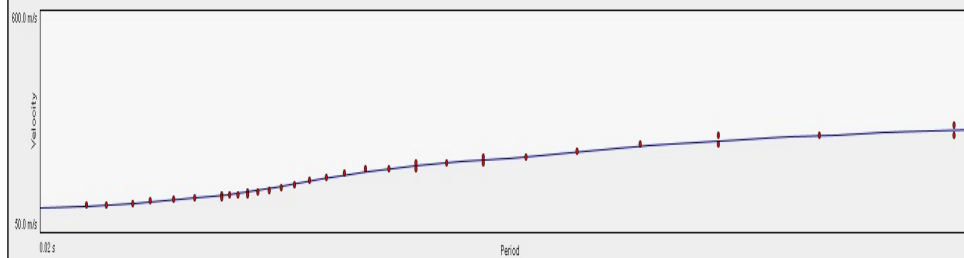
QUOTA: 32 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione

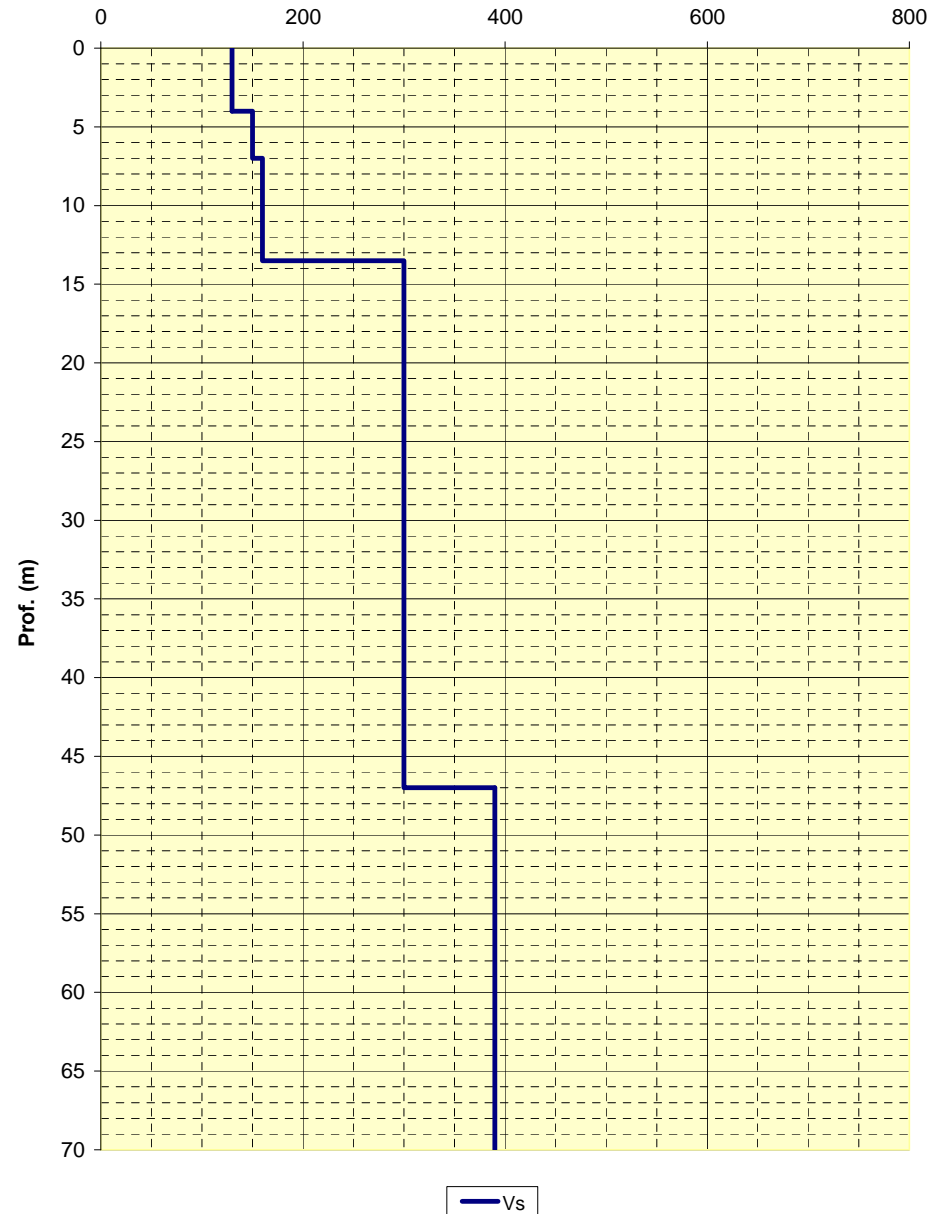


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	4	130
2	4	7	150
3	7	13.5	160
4	13.5	47	300
5	47	INF	390
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



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

INDAGINE Re.Mi./MASW
23

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

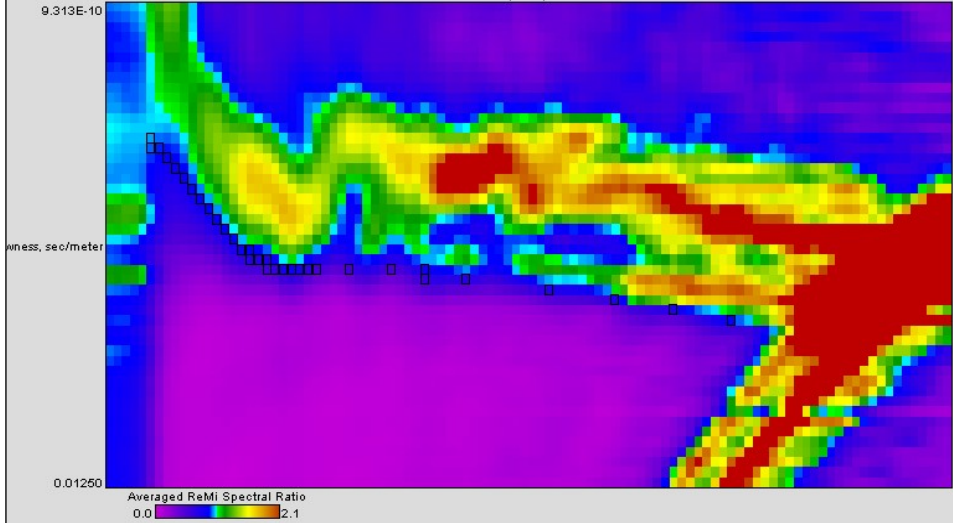
CANTIERE: Microzonazione sismica 2013

QUOTA: 36 m slm

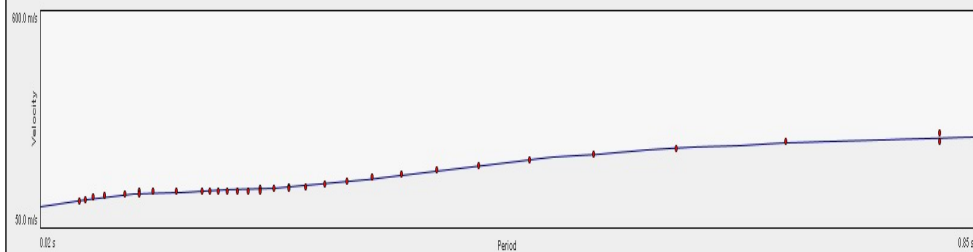
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Path: C:\Programmi\CENTROGEO\Desktop\SISMICA\CAMPOGALLIANO\campogalliano_23\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 2, 3, 5, 7, 10, 11, 19
Frequency, Hz 24.902



Curva di dispersione

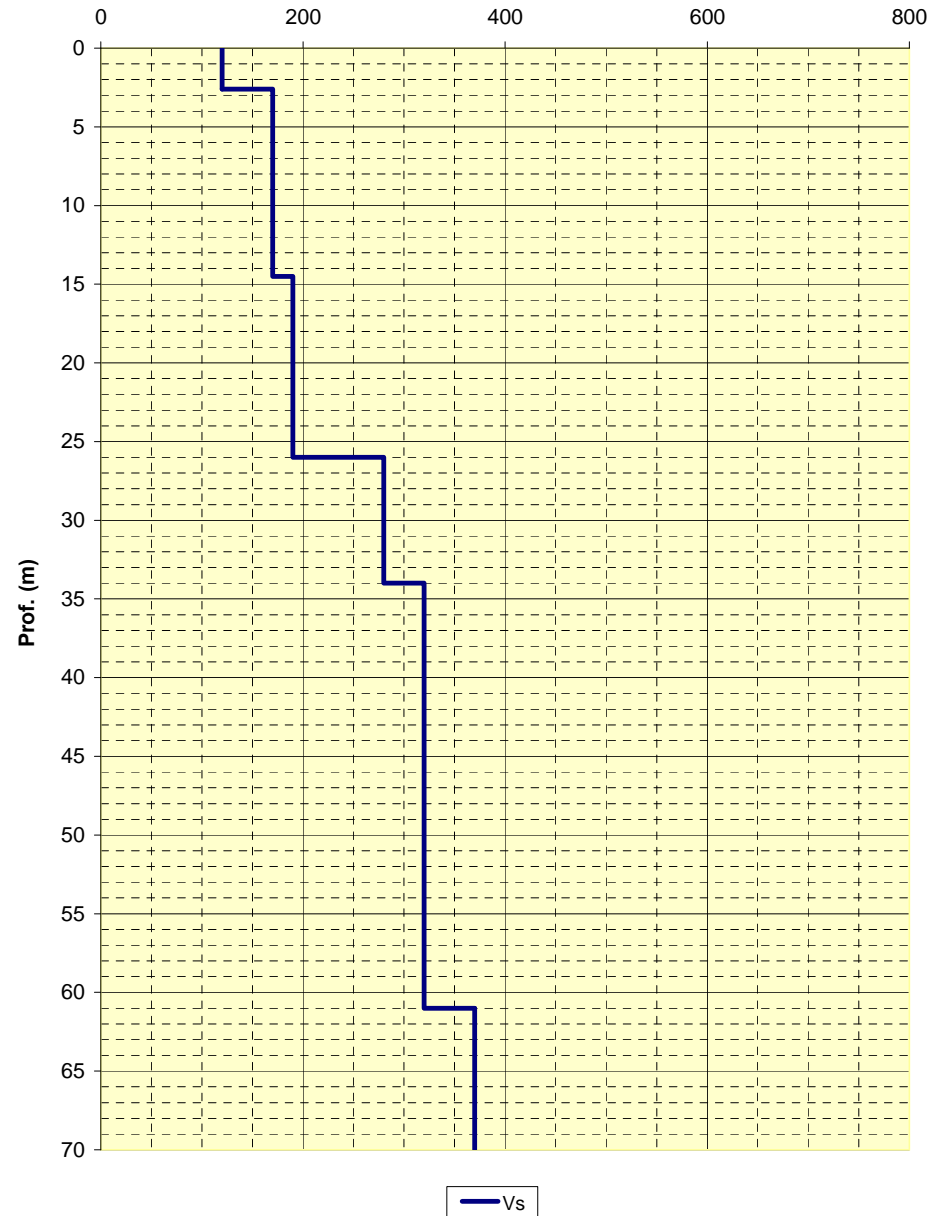


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	2.6	120
2	2.6	14.5	170
3	14.5	26	190
4	26	34	280
5	34	61	320
6	61	INF	370
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

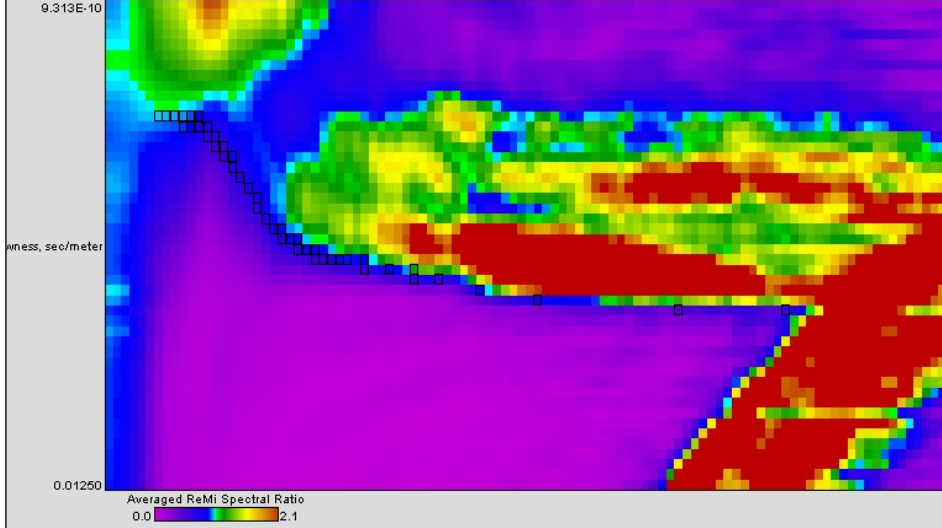
CANTIERE: Microzonazione sismica 2013

QUOTA: 35 m slm

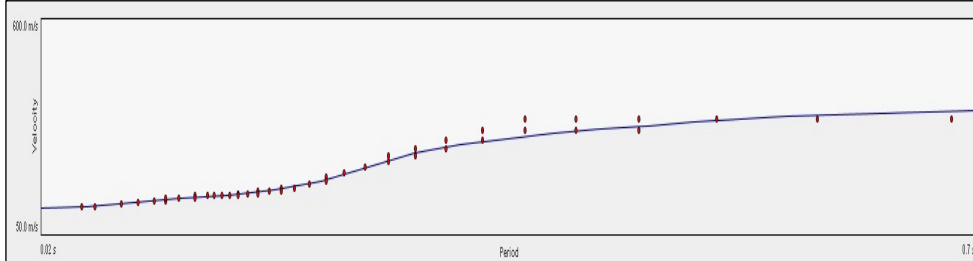
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

and Settings: s:\gml\CENTROGEO\Desktop\SISMICA\CAMPUGALLIANO\campogalliano_24\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 14, 16, 18
Frequency, Hz 24.002



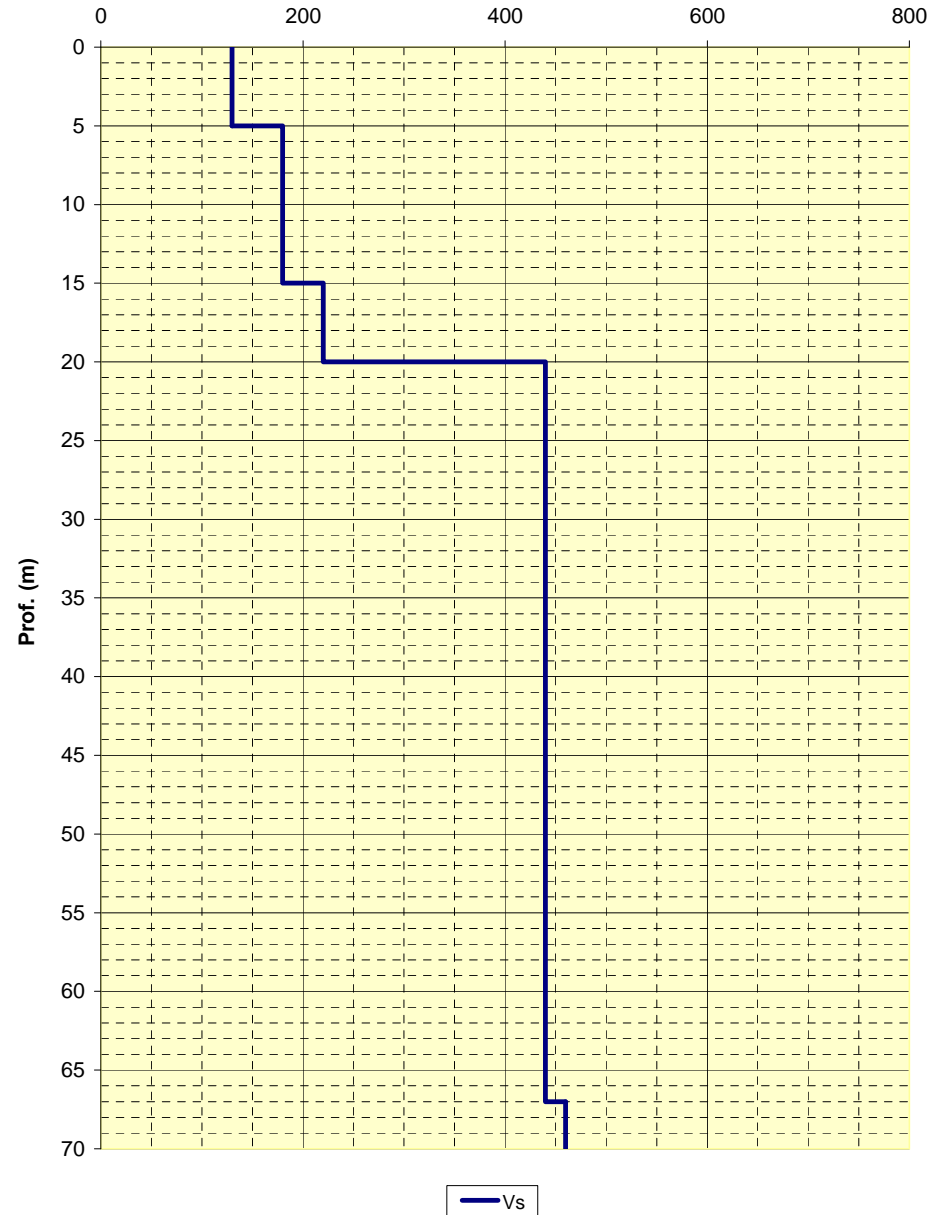
Curva di dispersione



Note:

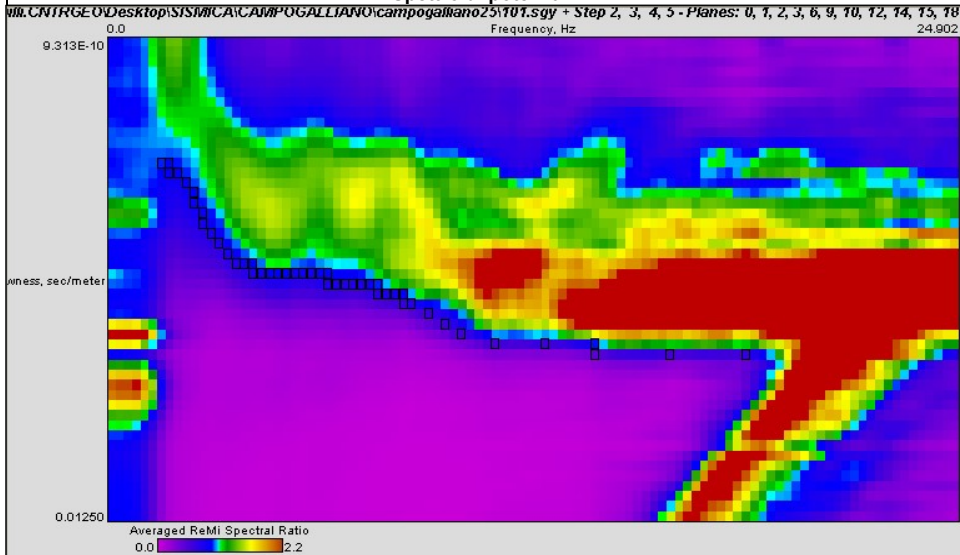
Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	5	5	130
2	5	15	10	180
3	15	20	5	220
4	20	67	47	440
5	67	INF	INF	460
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)

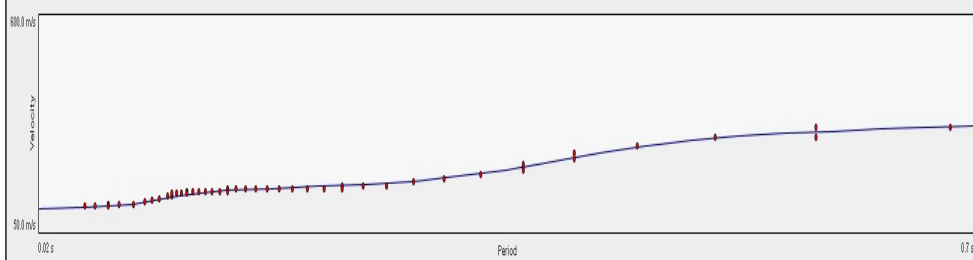


LOCALITA': Campogalliano (MO)	COMMITTENTE: Amm. Comun. Campogalliano
DATA: 11-03-2013	CANTIERE: Microzonazione sismica 2013
QUOTA: 33 m slm	OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



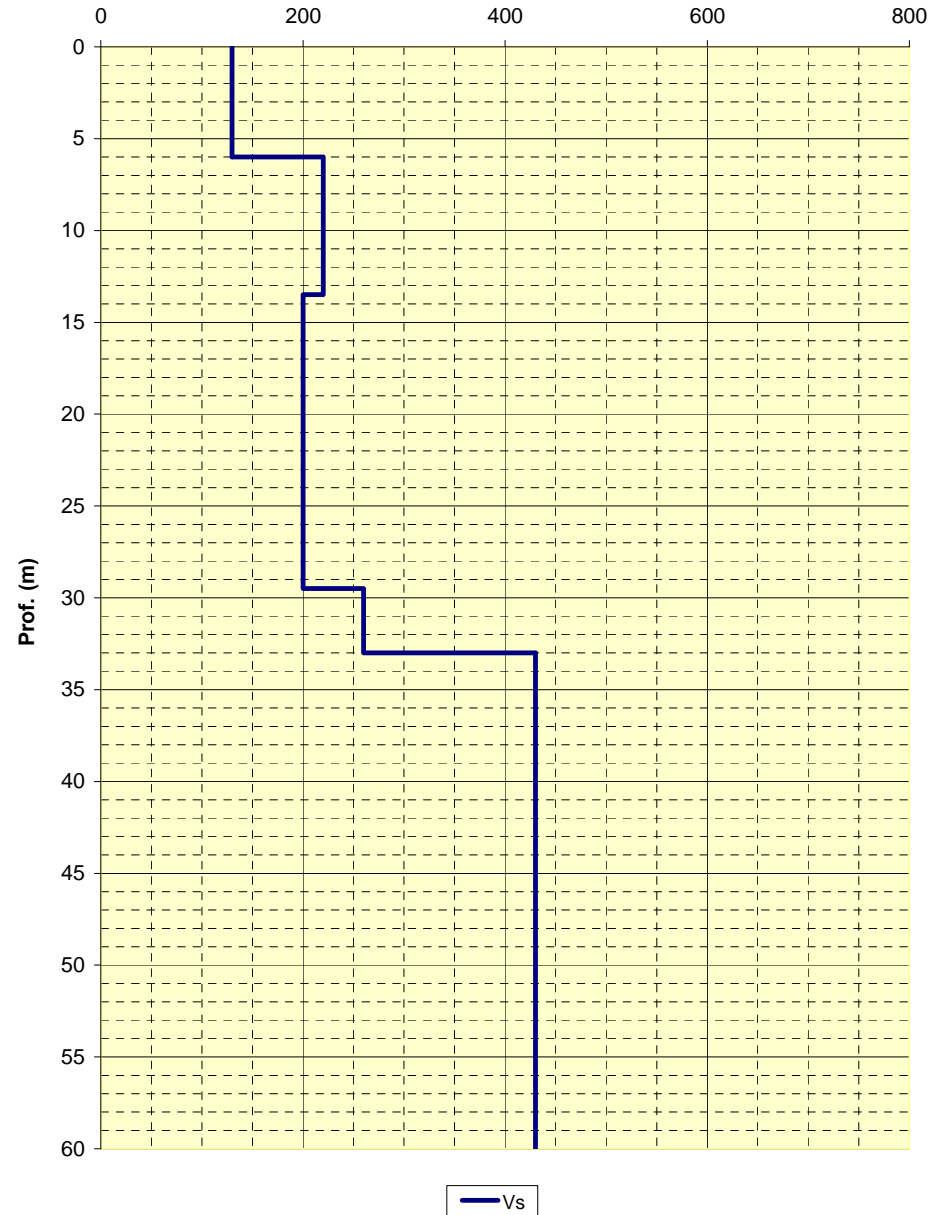
Curva di dispersione



Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	6	130
2	6	13.5	220
3	13.5	29.5	200
4	29.5	33	260
5	33	INF	430
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

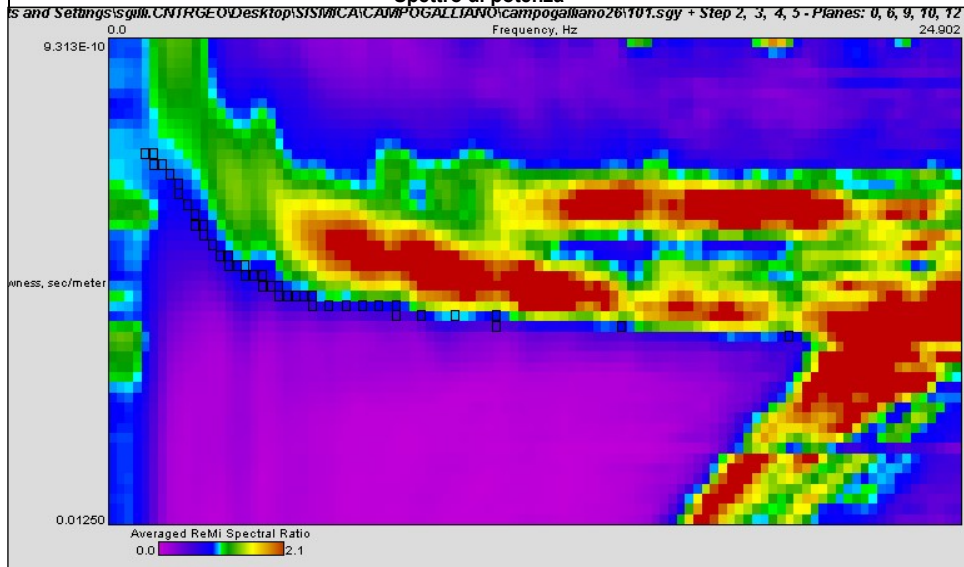
DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

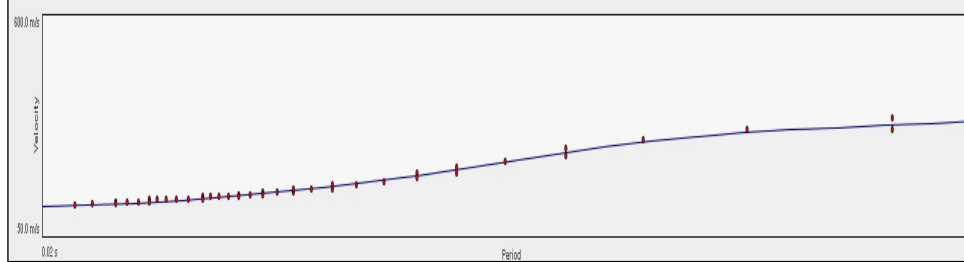
QUOTA: 34 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



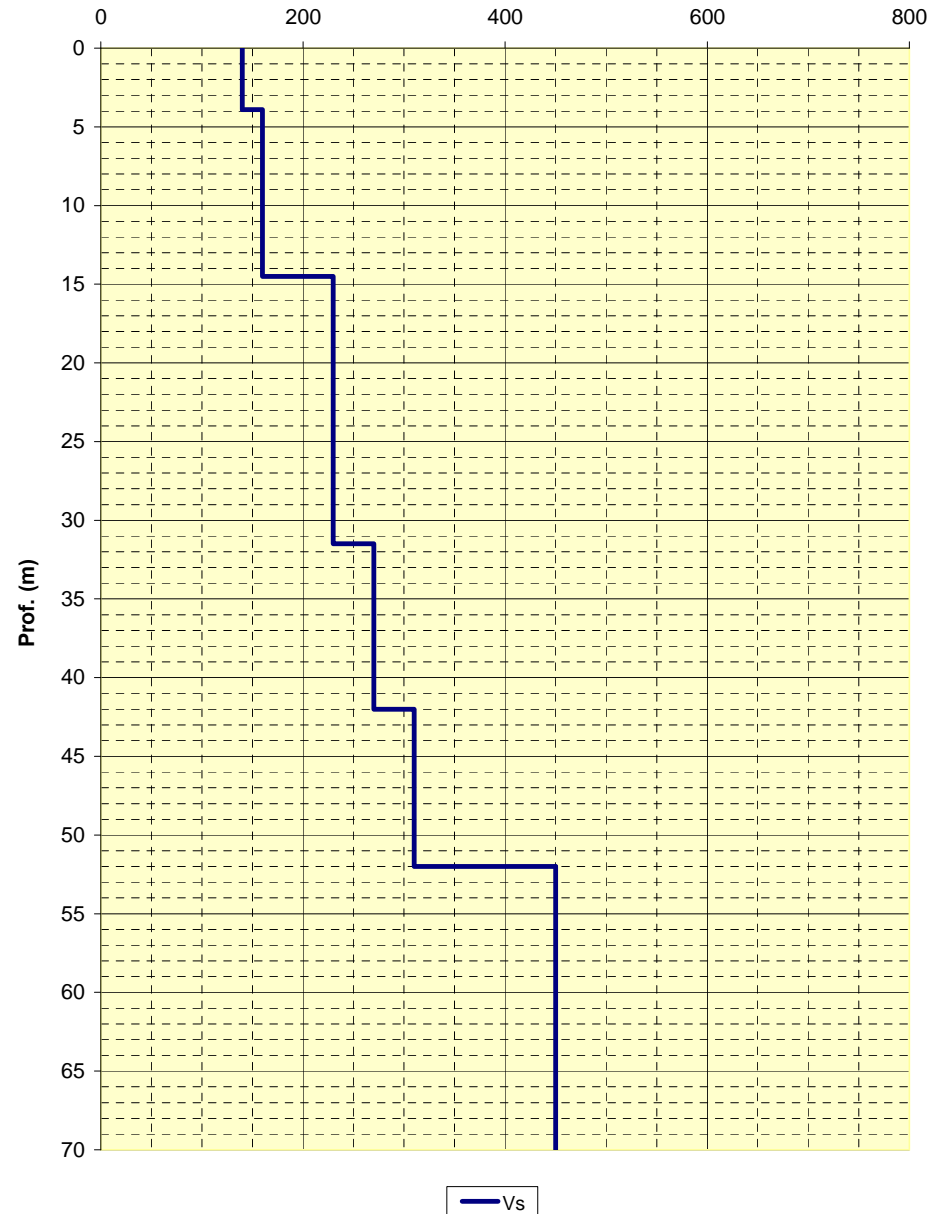
Curva di dispersione



Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0 - 3.9	3.9	140
2	3.9 - 14.5	10.6	160
3	14.5 - 31.5	17	230
4	31.5 - 42	10.5	270
5	42 - 52	10	310
6	52 - INF	INF	450
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

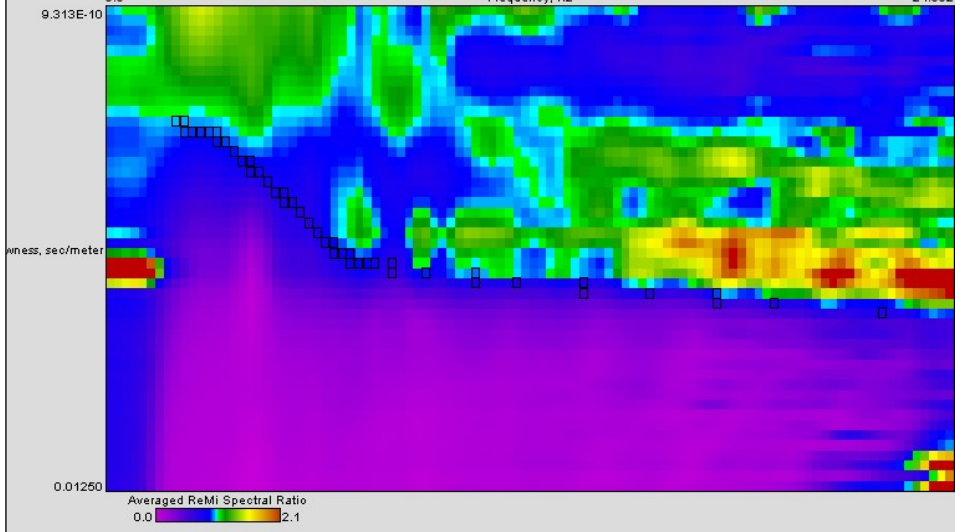
CANTIERE: Microzonazione sismica 2013

QUOTA: 36 m slm

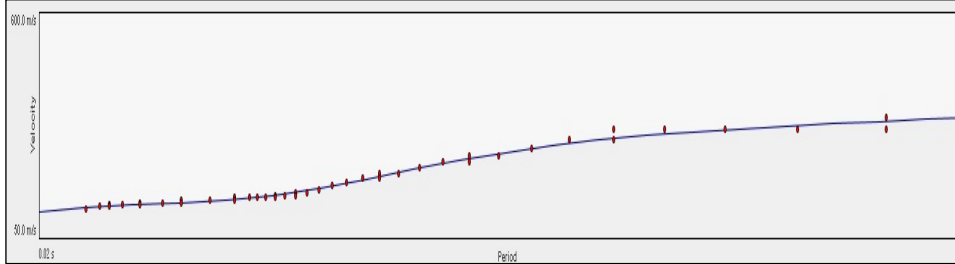
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FILE: C:\GEO\OGALLIANO\campogalliano27\01.sgy + Step 2, 3, 4, 5 - Pikes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19



Curva di dispersione

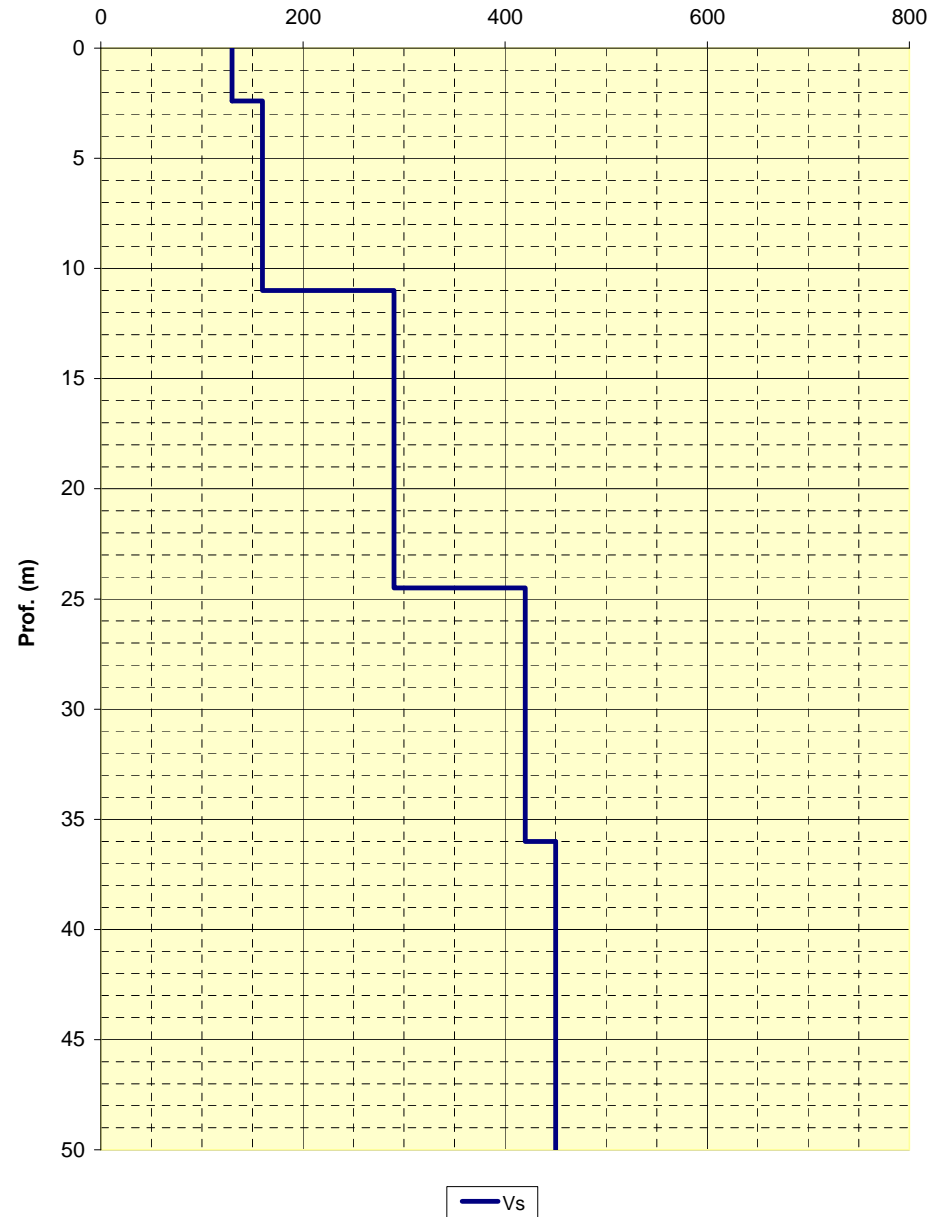


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	2.4	130
2	2.4	11	160
3	11	24.5	290
4	24.5	36	420
5	36	INF	450
6			
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

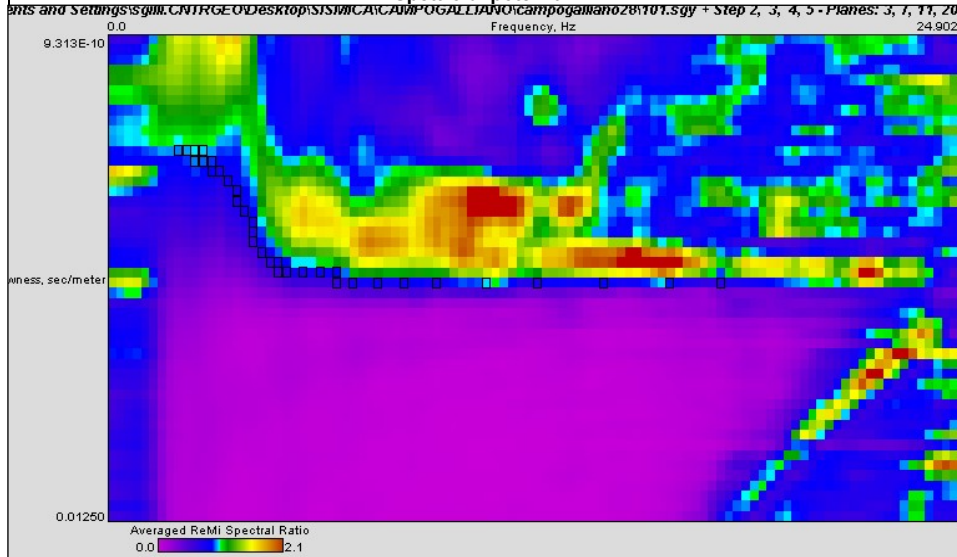
DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

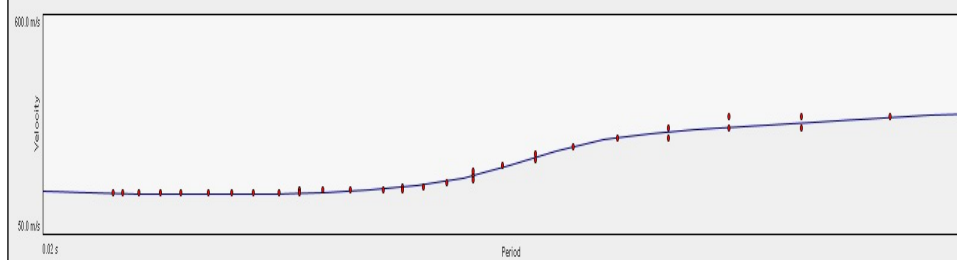
QUOTA: 38 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



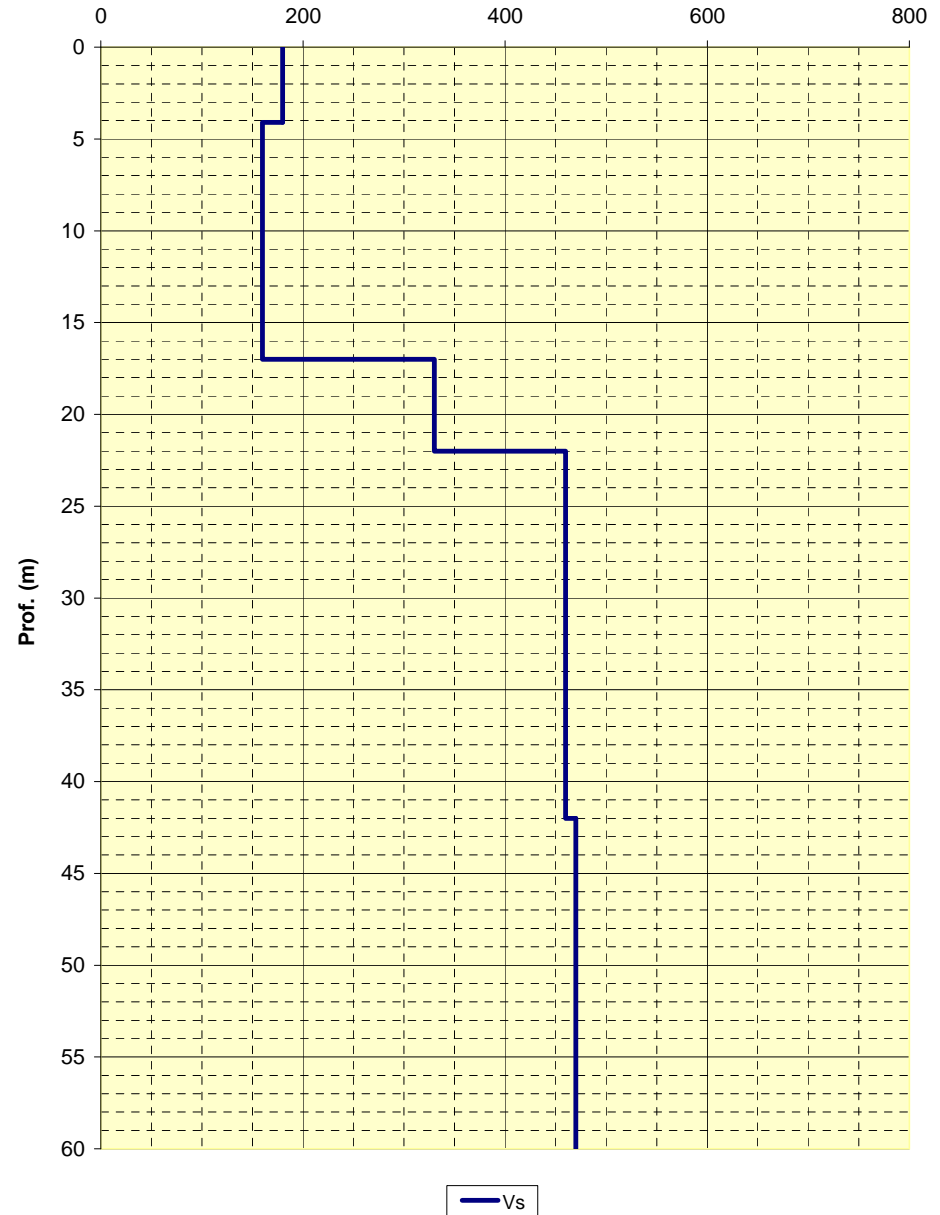
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	4.1	4.1	180
2	4.1	17	12.9	160
3	17	22	5	330
4	22	42	20	460
5	42	INF	INF	470
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

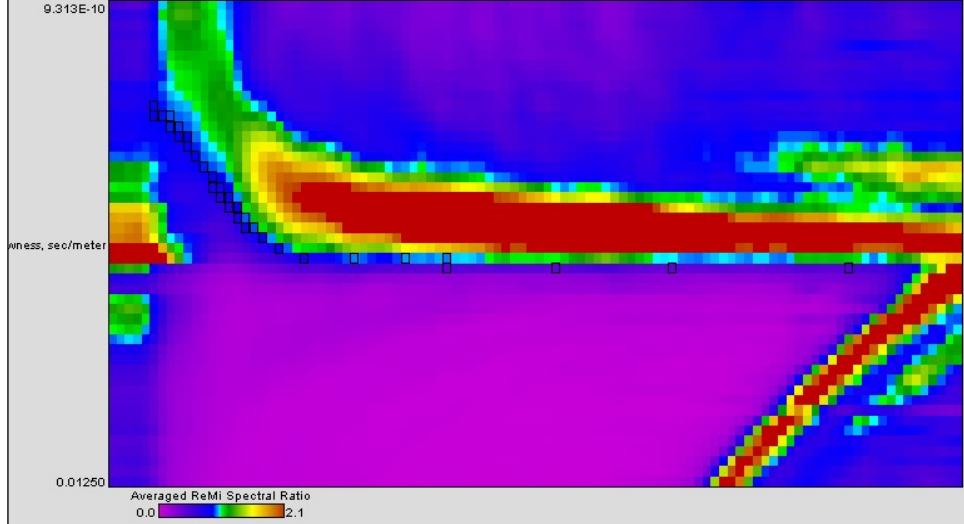
CANTIERE: Microzonazione sismica 2013

QUOTA: 40 m slm

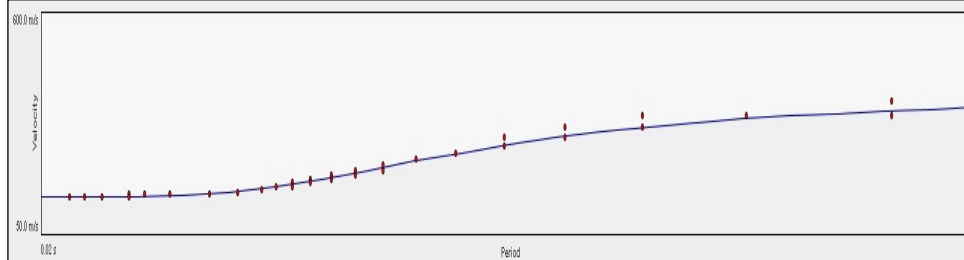
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FILE: C:\CAMPOGALLIANO\campogalliano29\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



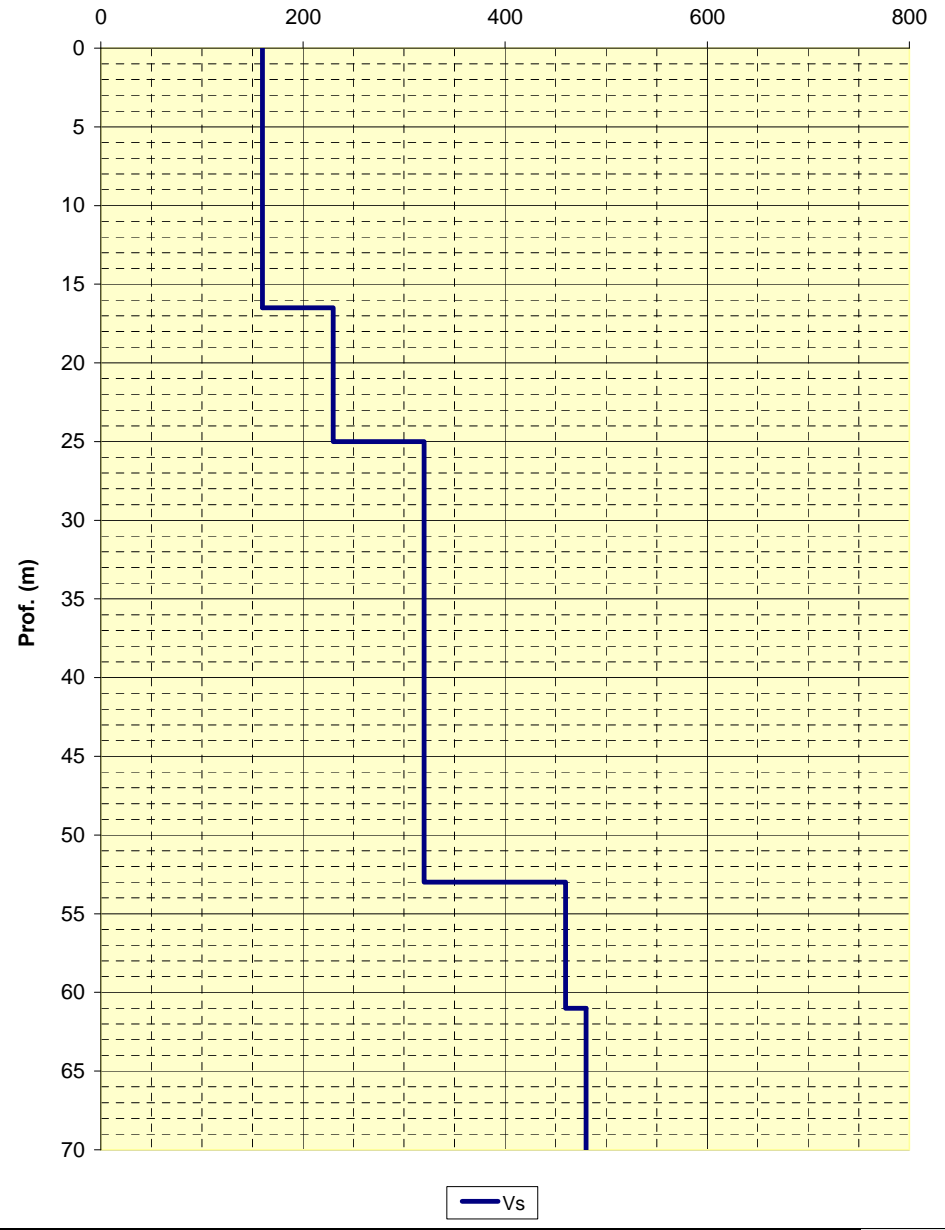
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	16.5	16.5	160
2	16.5	25	8.5	230
3	25	53	28	320
4	53	61	8	460
5	61	INF	INF	480
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



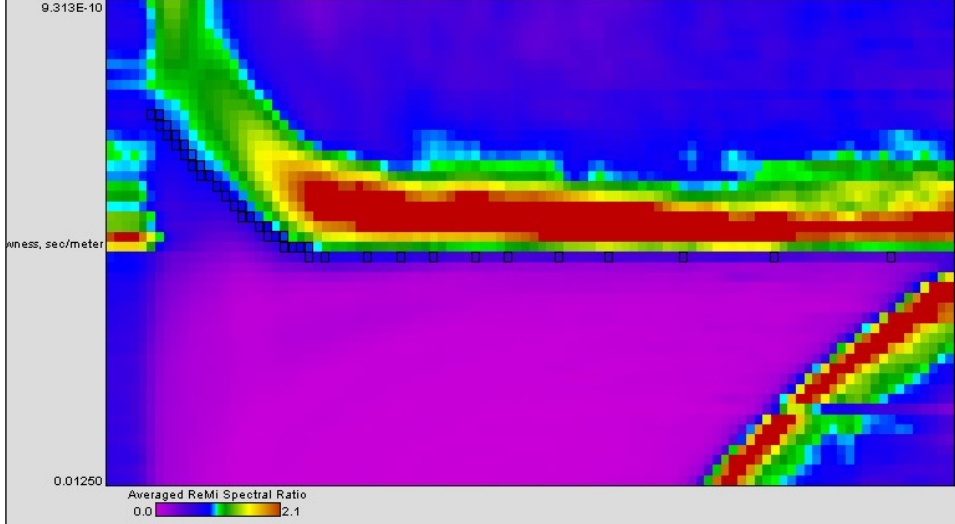
STUDIO GEOLOGICO CENTROGEO
P.zza S. Quirino, 6 - 42015 Correggio (RE)

INDAGINE Re.Mi./MASW
30

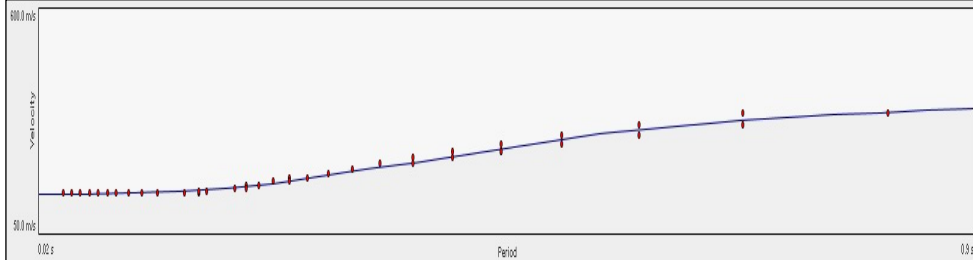
LOCALITA': Campogalliano (MO) COMMITTENTE: Amm. Comun. Campogalliano
DATA: 11-03-2013 CANTIERE: Microzonazione sismica 2013
QUOTA: 40 m slm OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

FILE: C:\CAMPOGALLIANO\campogalliano30\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
Frequency, Hz 24,902



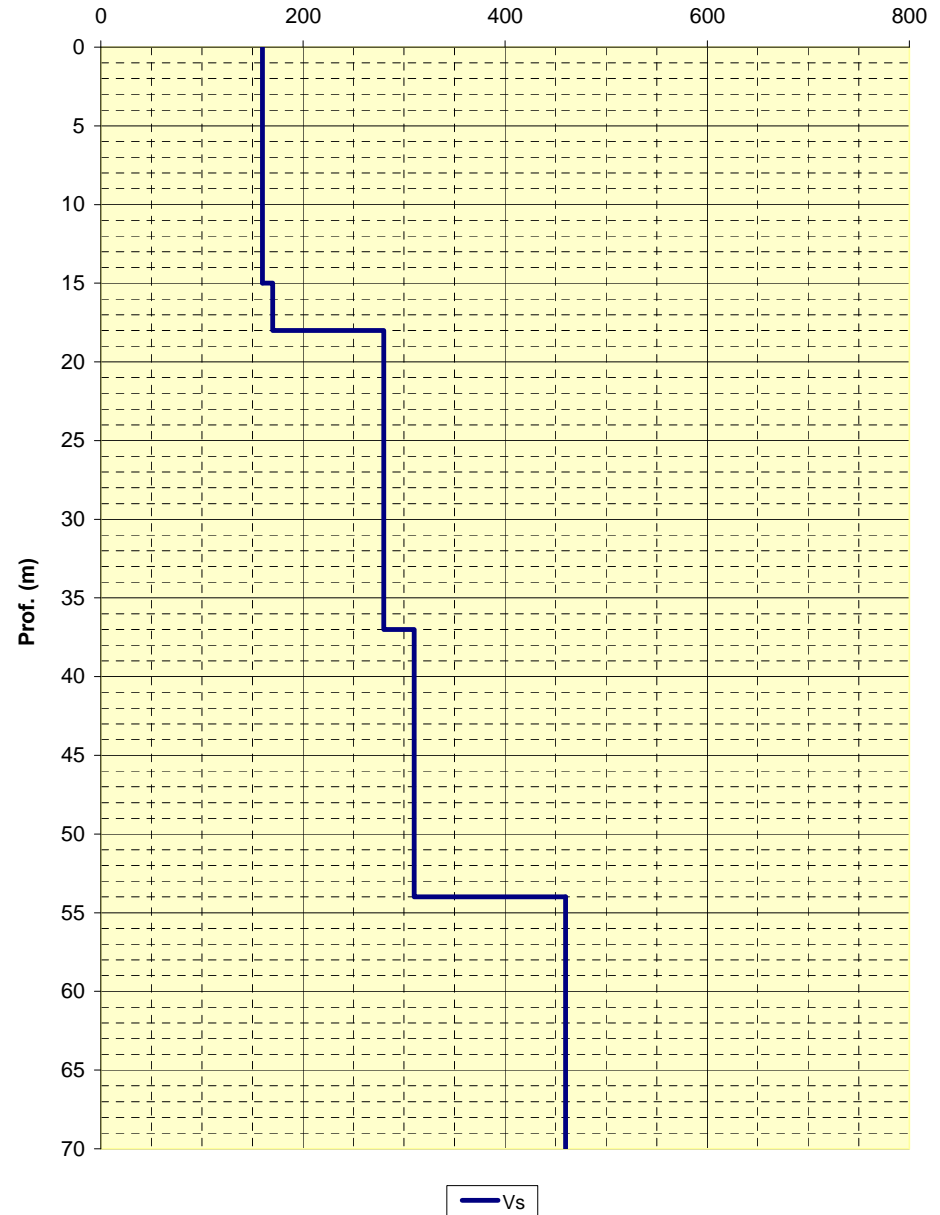
Curva di dispersione



Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	15	160
2	15	18	170
3	18	37	280
4	37	54	310
5	54	INF	460
6			
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

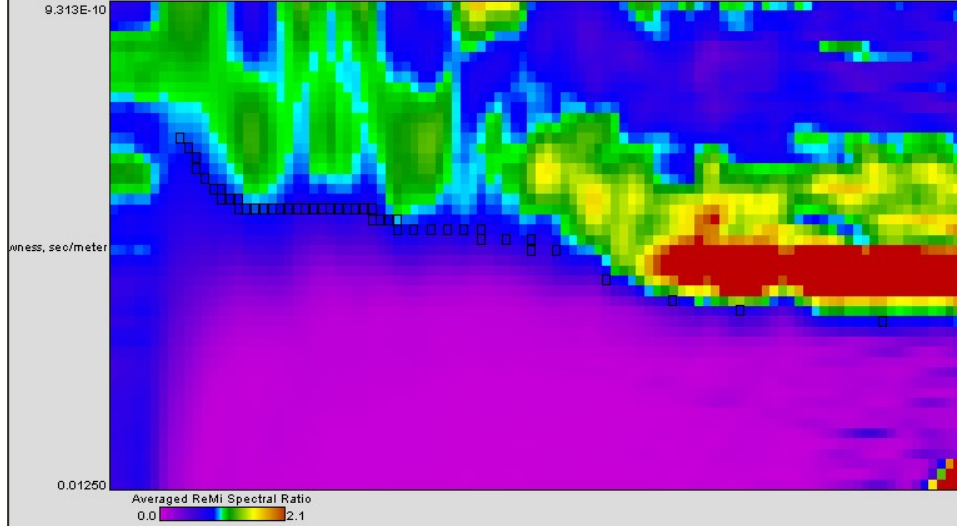
CANTIERE: Microzonazione sismica 2013

QUOTA: 40 m slm

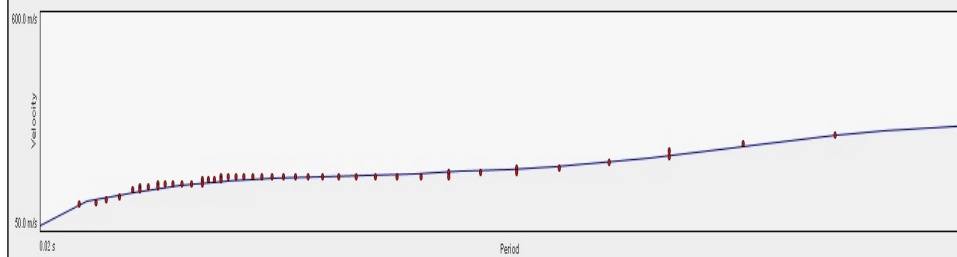
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

ants and Settings\gml.CENTROGEO\Desktop\SISMICA\CAMPOGALLIANO\Campogalliano31\101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 3, 4, 5
Frequency, Hz 24.902



Curva di dispersione

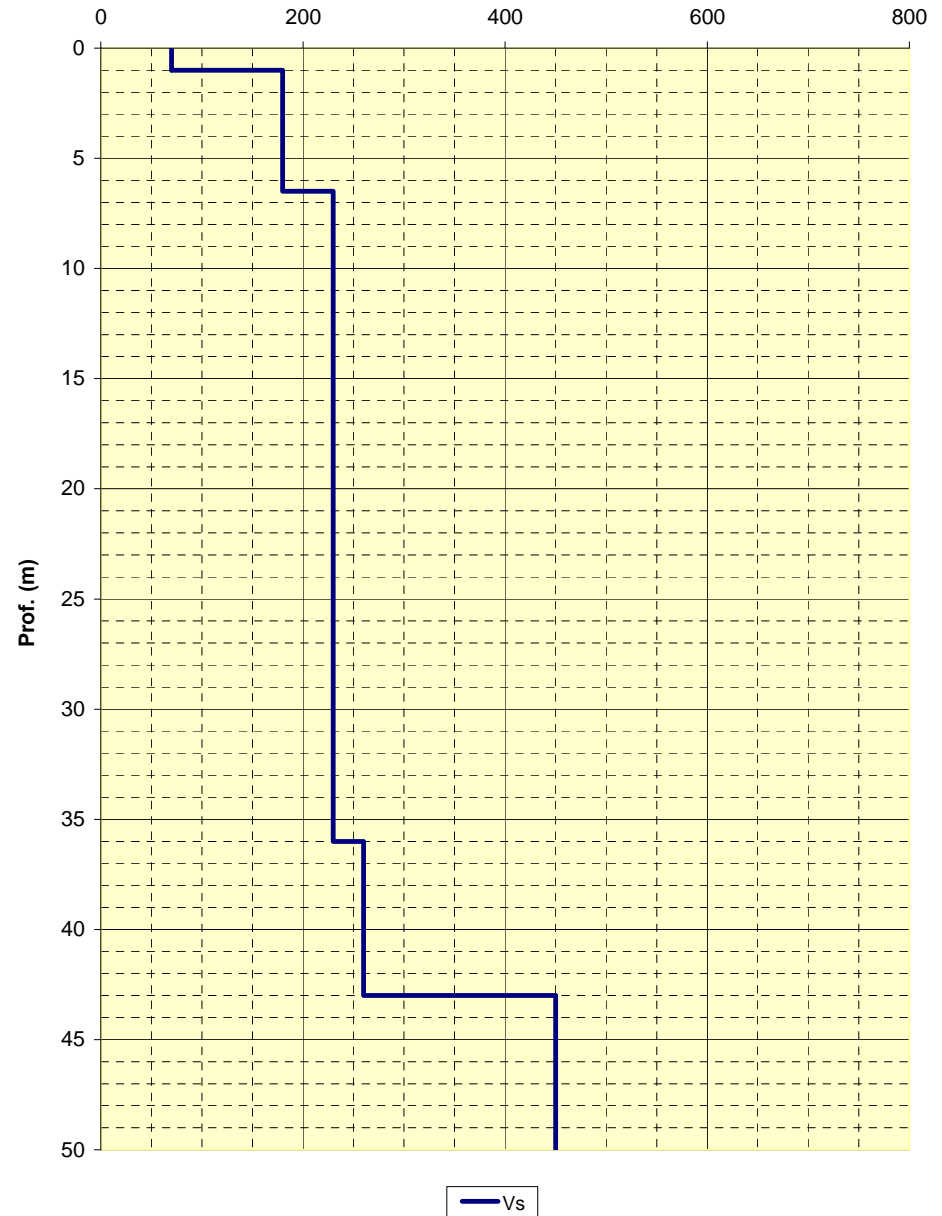


Note:

Modello interpretativo

Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	1	1	70
2	1	6.5	5.5	180
3	6.5	36	29.5	230
4	36	43	7	260
5	43	INF	INF	450
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

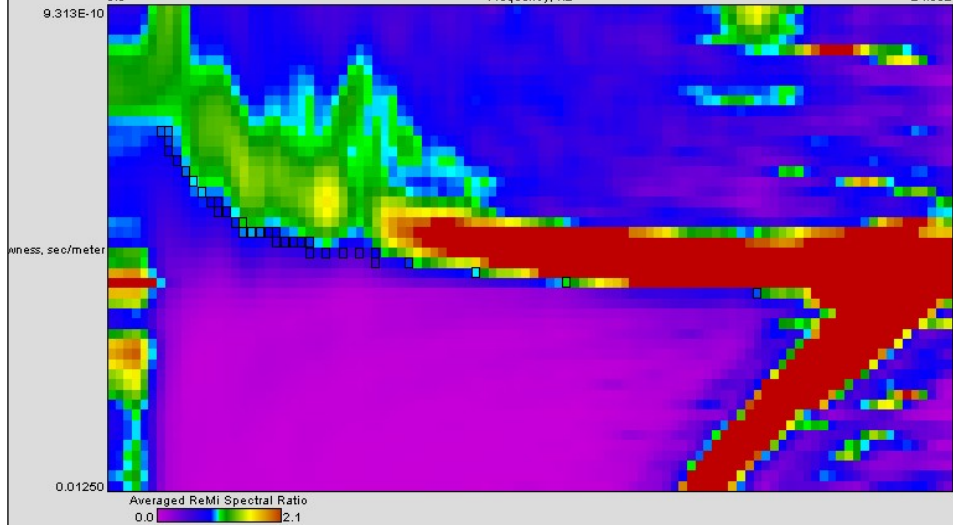
CANTIERE: Microzonazione sismica 2013

QUOTA: 42 m slm

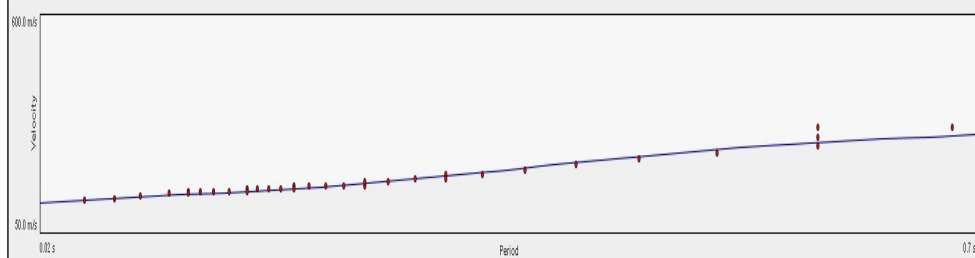
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Path: C:\Users\giovanni\Desktop\GIS\GIS\CAMP\GALLIANO\Campogalliano32\101.sgy + Step 2, 3, 4, 5 - Planes: 2, 3, 4, 10



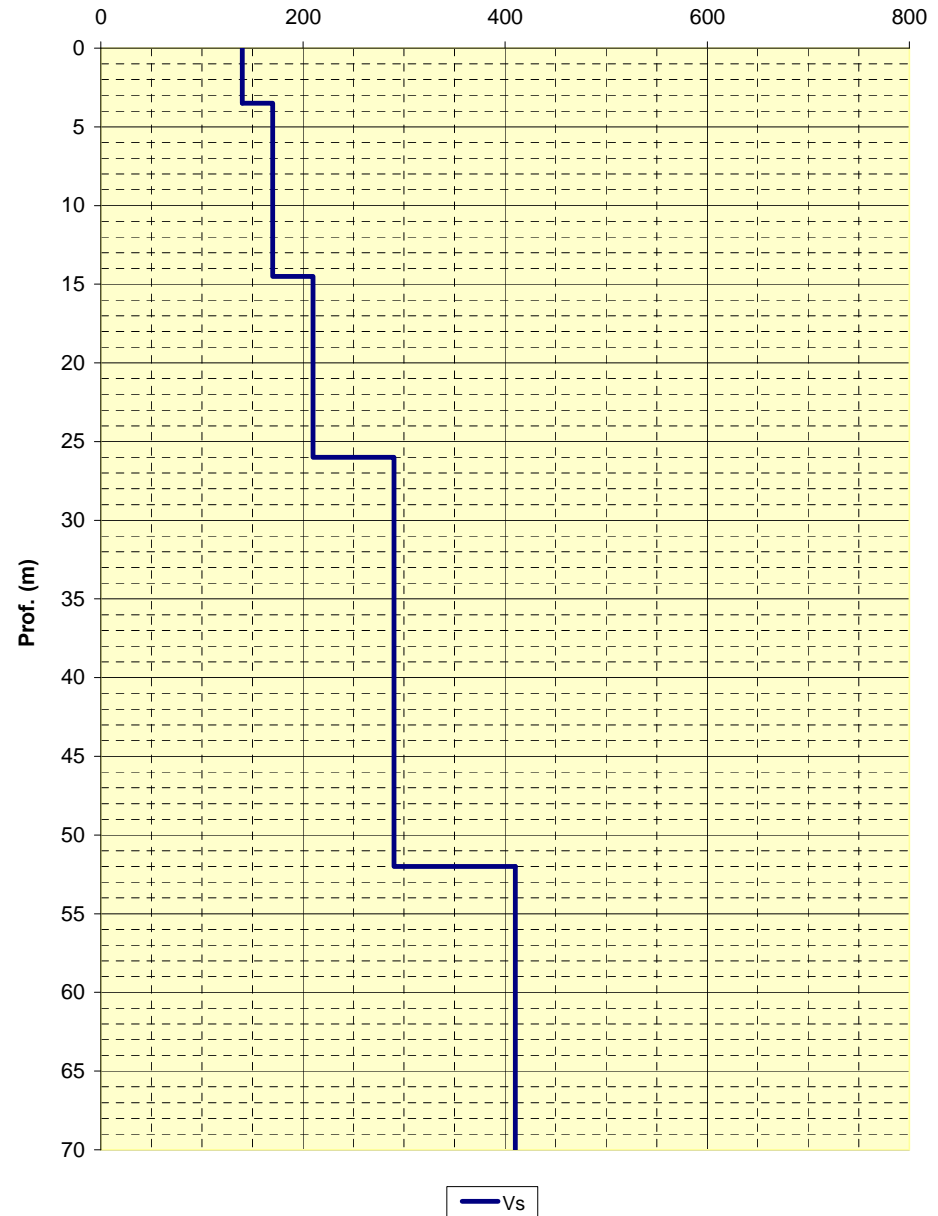
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	3.5	3.5	140
2	3.5	14.5	11	170
3	14.5	26	11.5	210
4	26	52	26	290
5	52	INF	INF	410
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

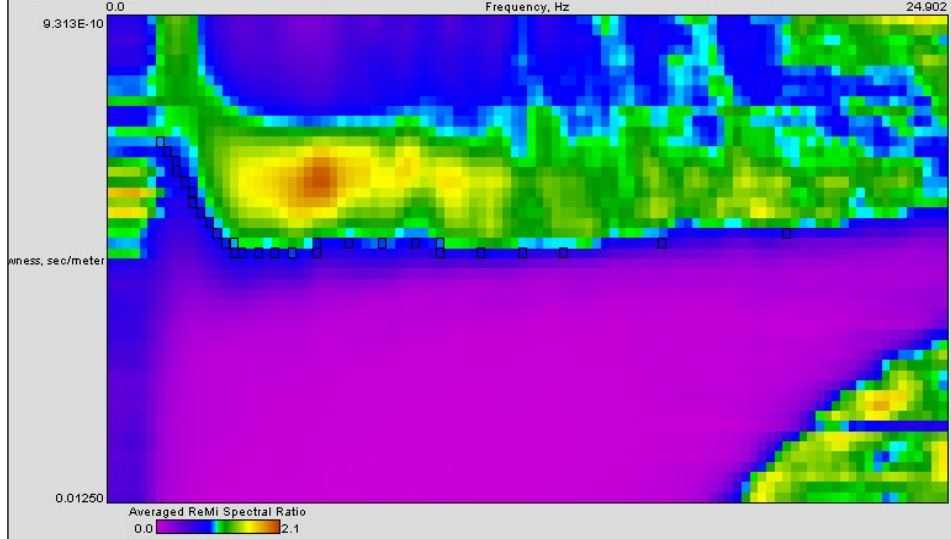
CANTIERE: Microzonazione sismica 2013

QUOTA: 40 m slm

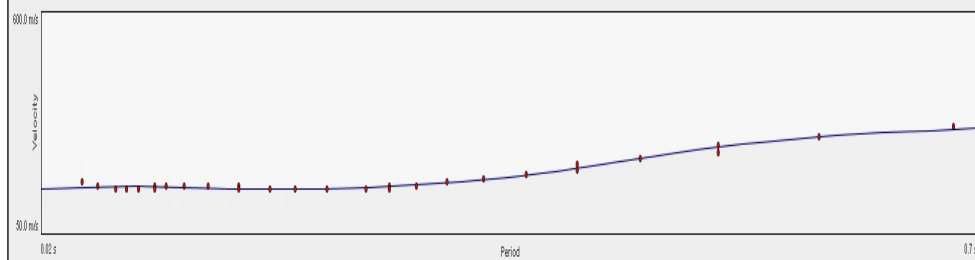
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Sgml: C:\NTIRGEO\Desktop\SISMICA\CAMPOGALLIANO\campogalliano33\T01.sgy + Step 2, 3, 4, 5 - Planes: 0, 2, 7, 8, 9, 11, 13, 14, 16, 17



Curva di dispersione

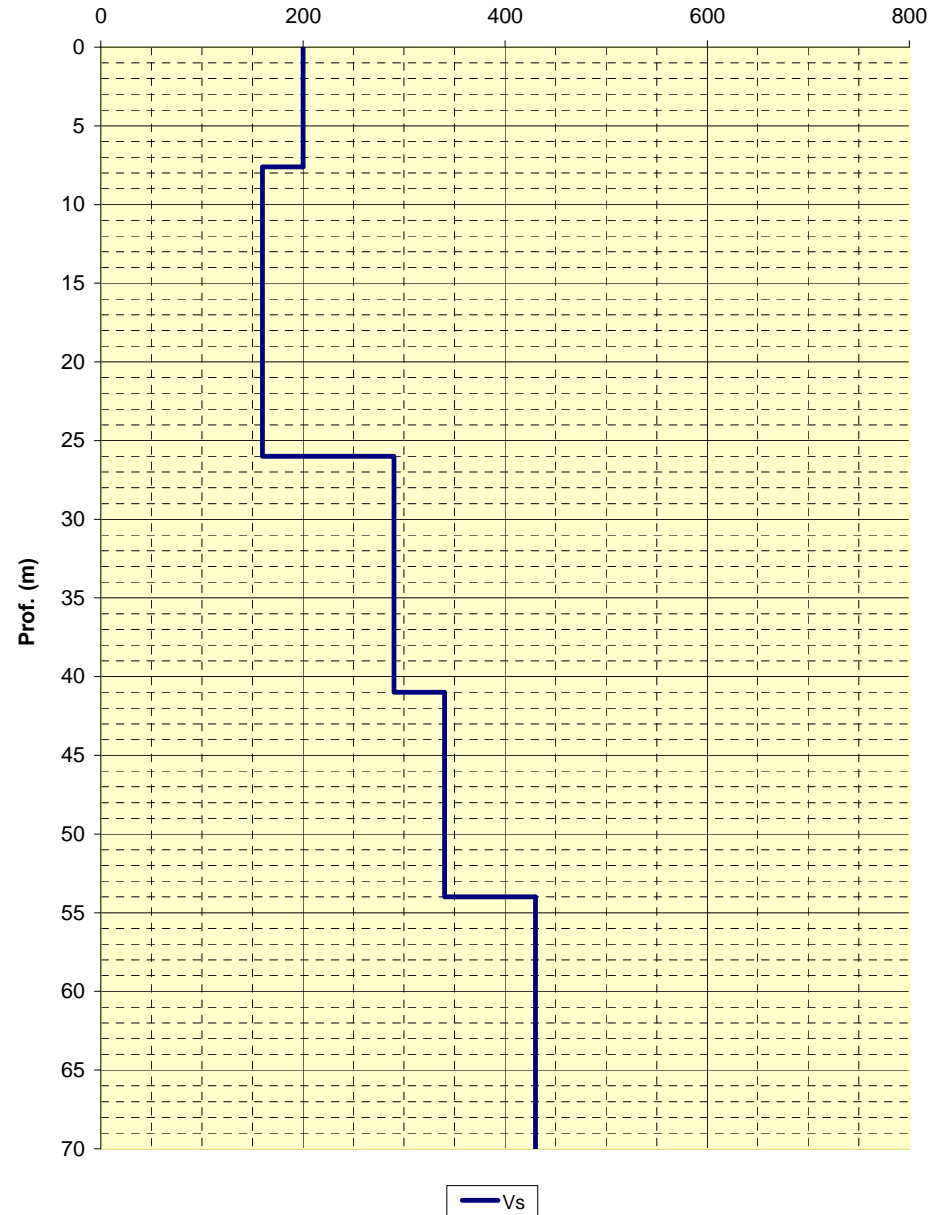


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	7.6	200
2	7.6	26	160
3	26	41	290
4	41	54	340
5	54	INF	430
6			
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

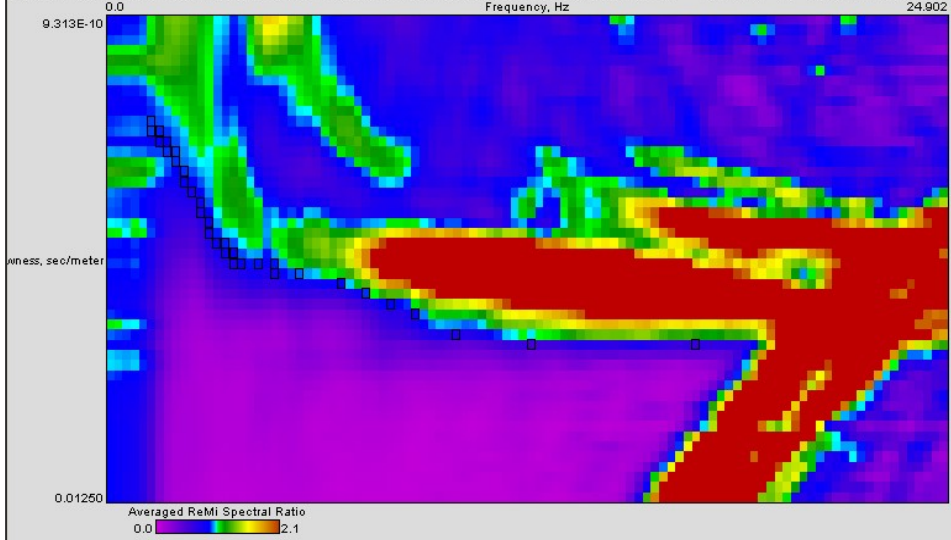
CANTIERE: Microzonazione sismica 2013

QUOTA: 37 m slm

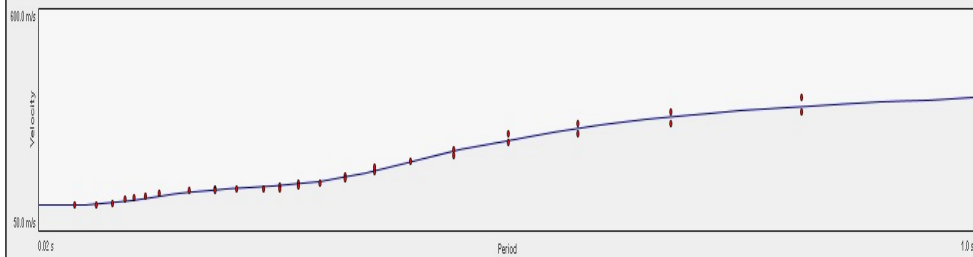
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

File and Settings: C:\NTIRGE\O\Desktop\SISMICA\CAMPUGALLIANO\Campogalliano34\101.sgy + Step 2, 3, 4, 5 - Planes: 1, 2, 3, 4, 5



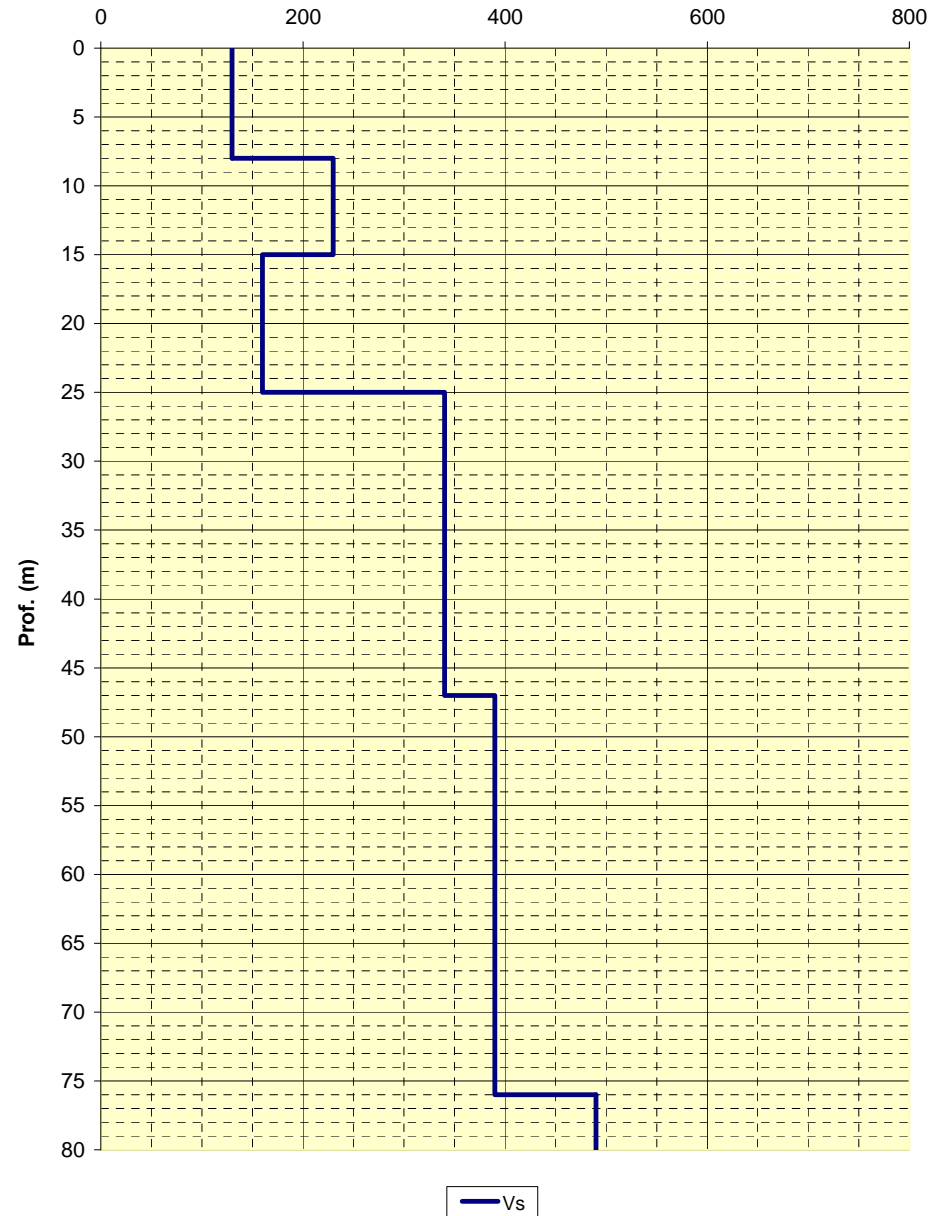
Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	8	8	130
2	8	15	7	230
3	15	25	10	160
4	25	47	22	340
5	47	76	29	390
6	76	INF	INF	490
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

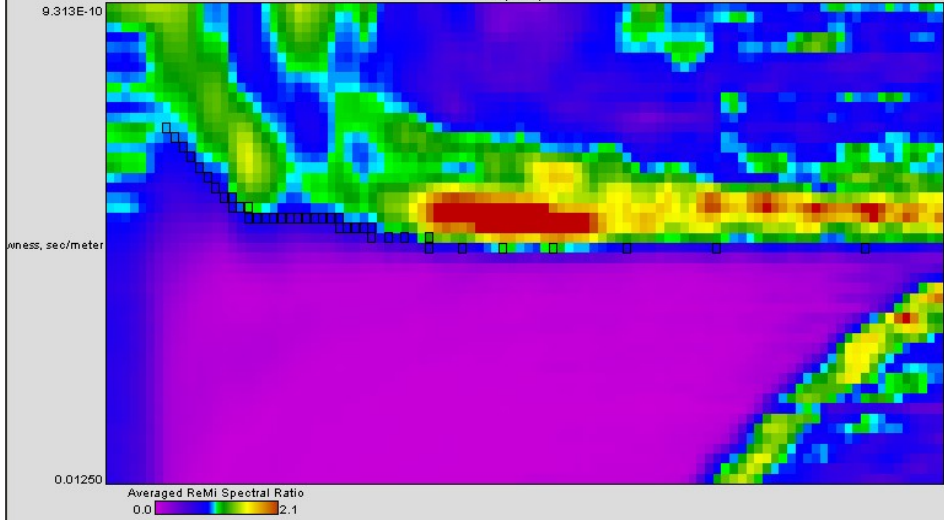
CANTIERE: Microzonazione sismica 2013

QUOTA: 40 m slm

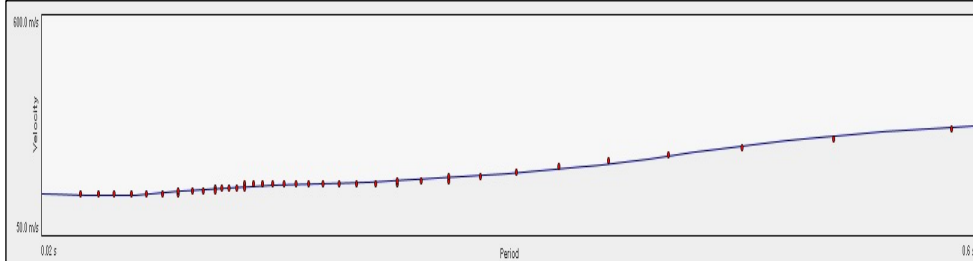
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

and Settings\sqm\CNR\GEO\Desktop\SISMICA\CAMPUGALLIANO\campogalliano35\101.sgy + Step 2, 3, 4, 5 - Planes: 8, 12, 13, 18, 19
Frequency, Hz 24.902



Curva di dispersione

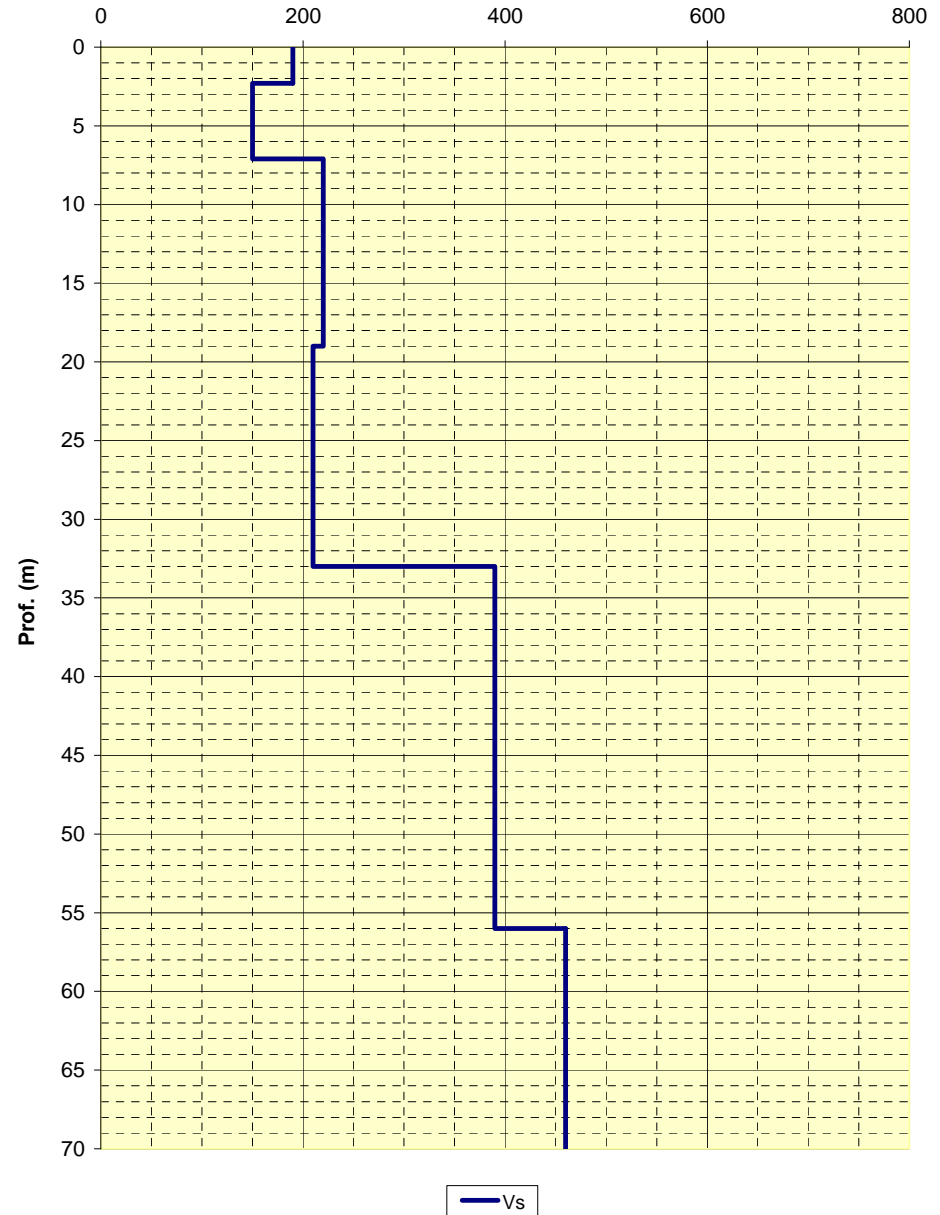


Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	2.3	190
2	2.3	7.1	150
3	7.1	19	220
4	19	33	210
5	33	56	390
6	56	INF	460
7			
8			
9			
10			

Note:

Modello interpretativo
profilo Vs (m/s)



LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

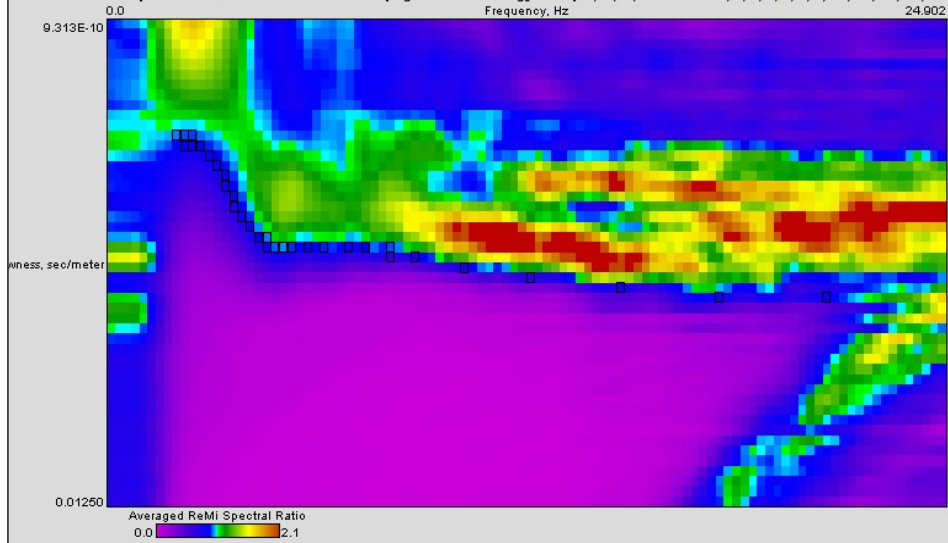
CANTIERE: Microzonazione sismica 2013

QUOTA: 40 m slm

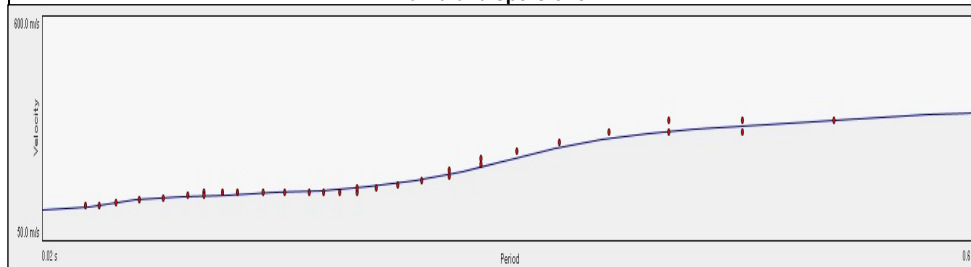
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

C:\TRGEO\Desktop\SISMICA\CAMPOGALLIANO\campogalliano36\101.sgy - Step 2, 3, 4, 5 - Planes: 0, 1, 2, 5, 6, 7, 8, 10, 12, 14, 15, 17



Curva di dispersione

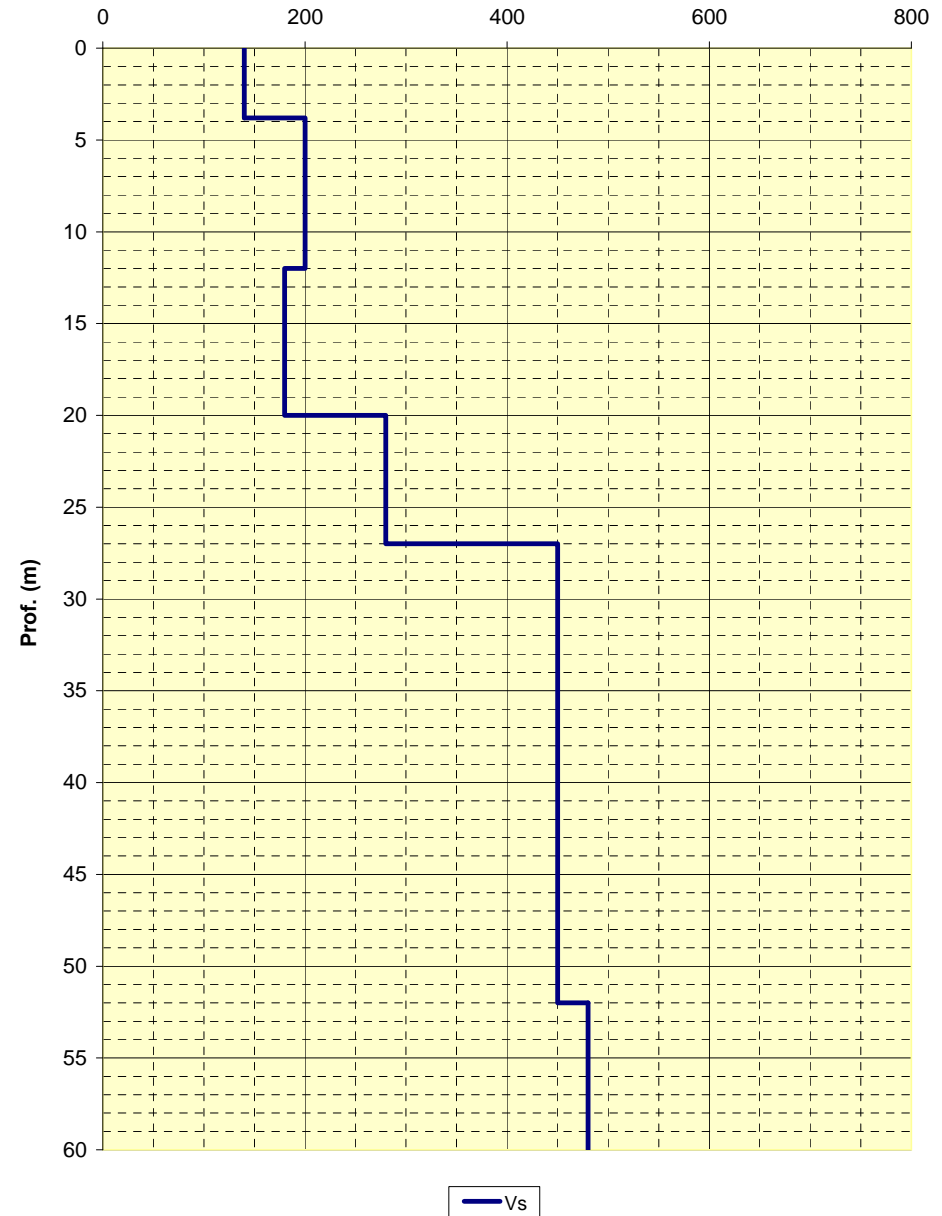


Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	3.8	140
2	3.8	12	200
3	12	20	180
4	20	27	280
5	27	52	450
6	52	INF	480
7			
8			
9			
10			

Modello interpretativo
profilo Vs (m/s)



INDAGINI HVSR

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

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P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H01

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

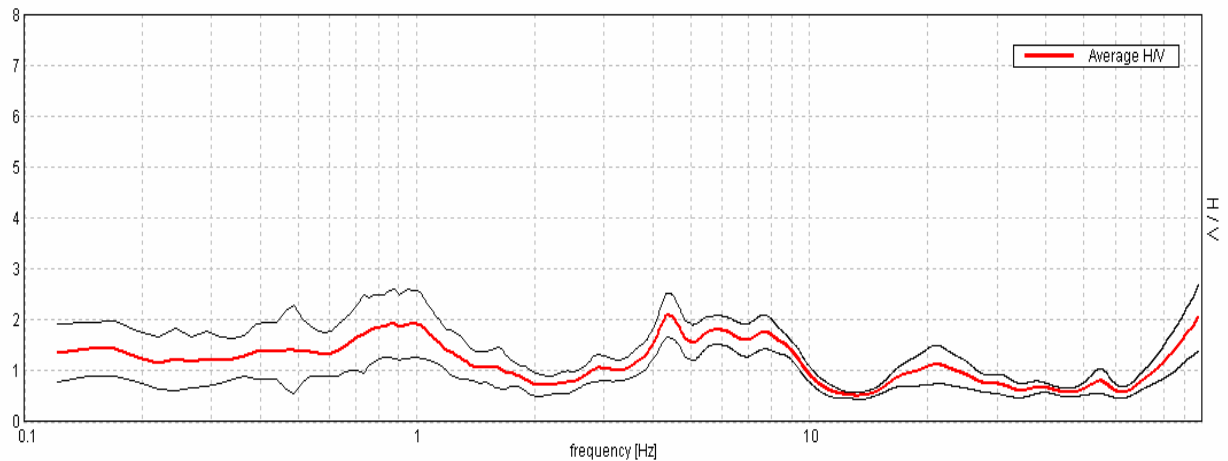
QUOTA: 41 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

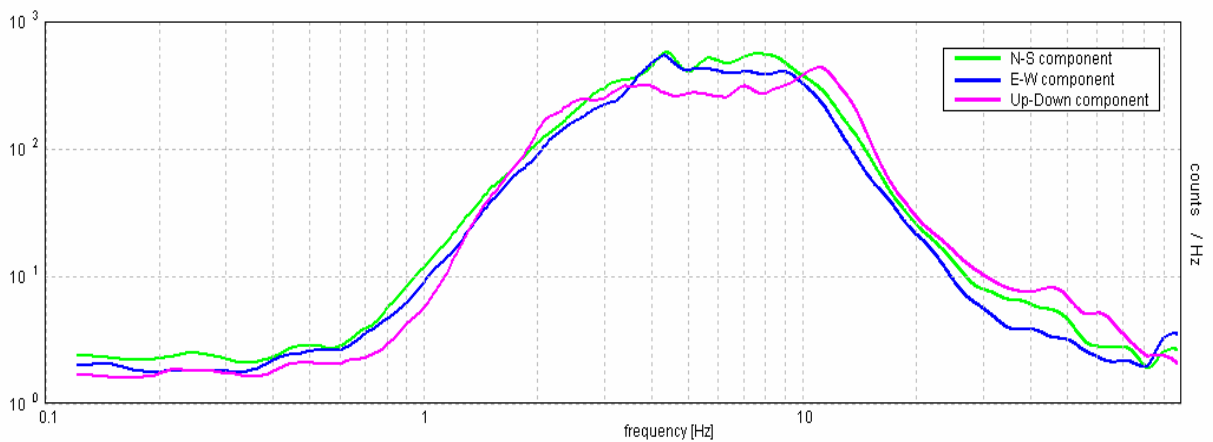
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

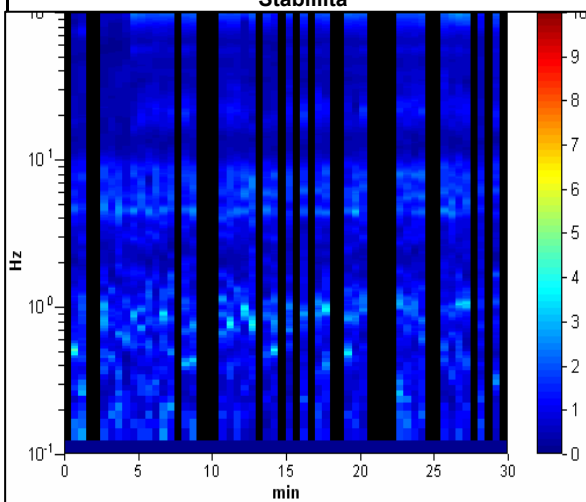
Max. HV at 4.39 ± 1.27 Hz. (In the range 0.0 - 30.0 Hz).



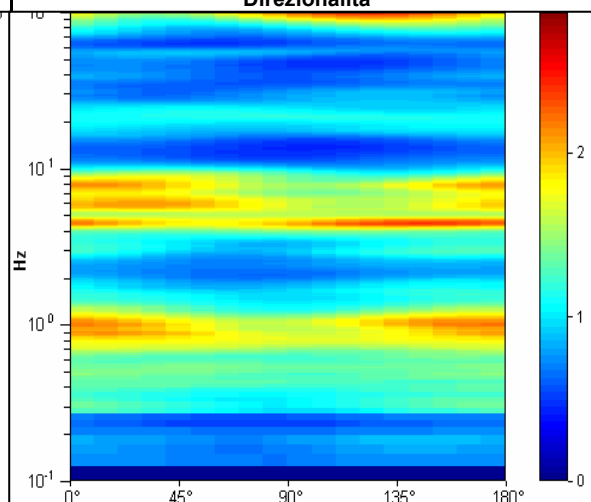
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H02

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

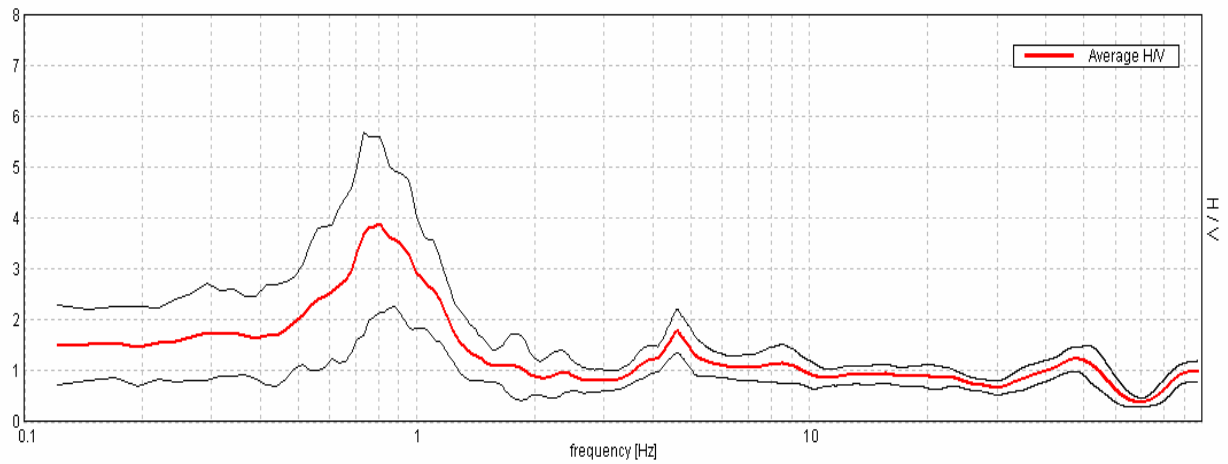
QUOTA: 43 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

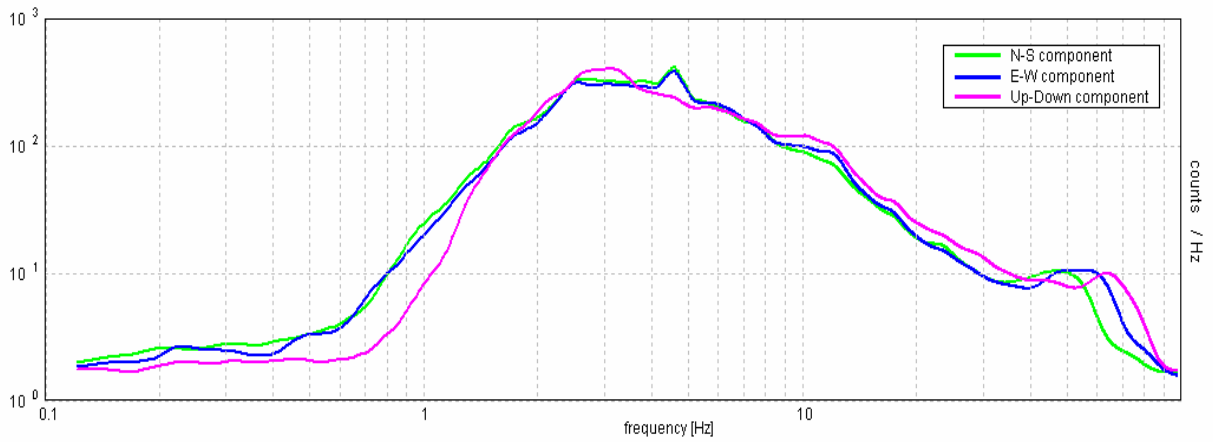
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

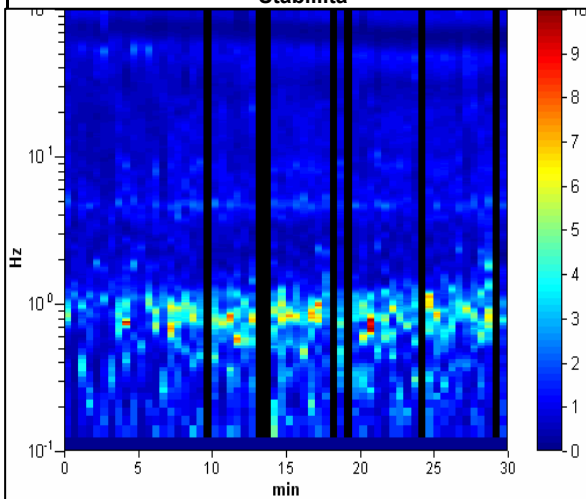
Max. HV at 0.81 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



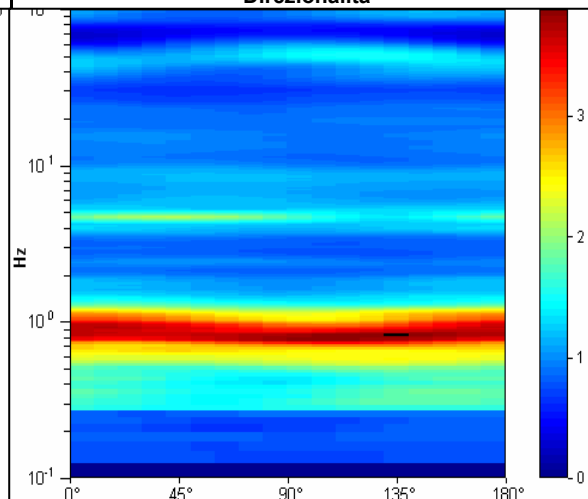
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
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INDAGINE HVSR H03

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

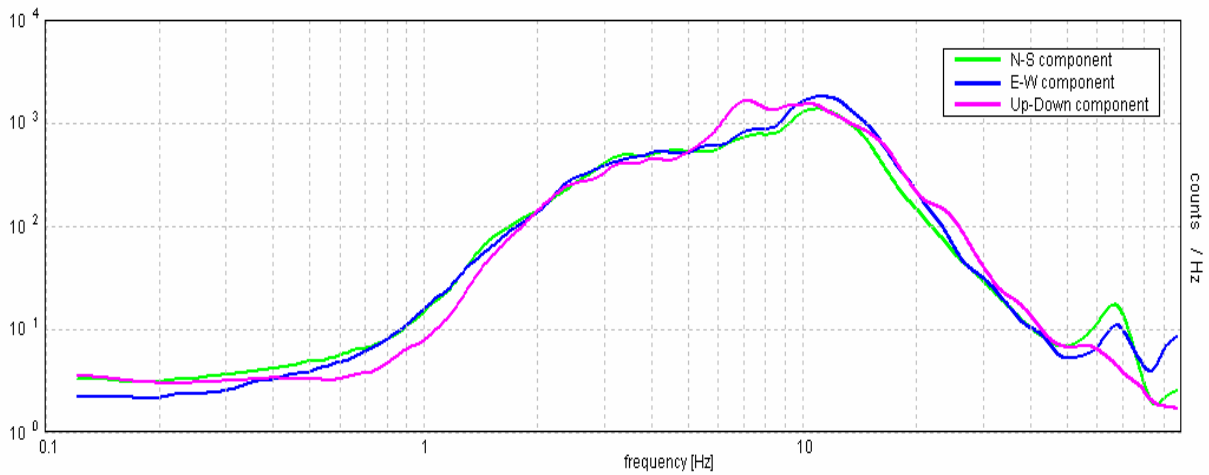
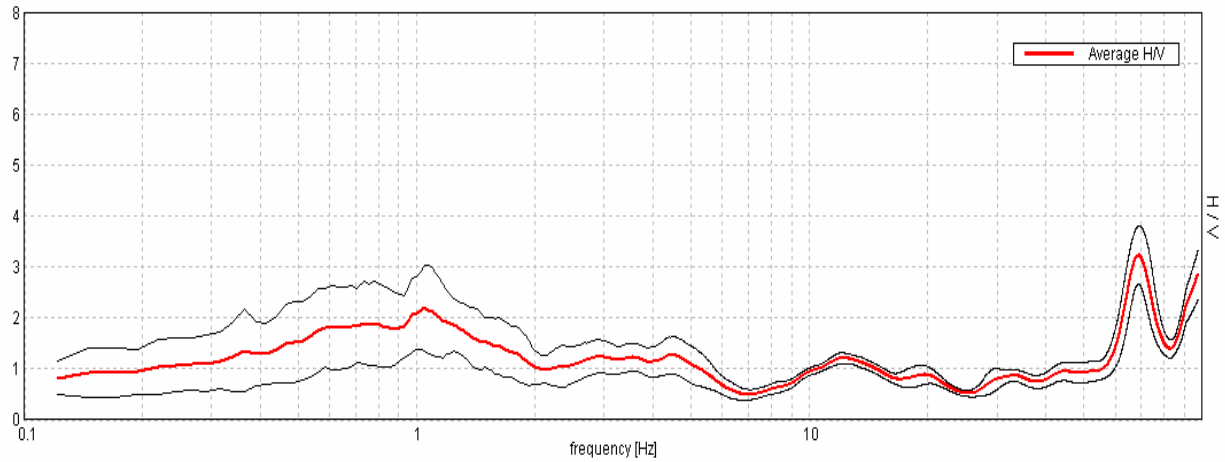
QUOTA: 42 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

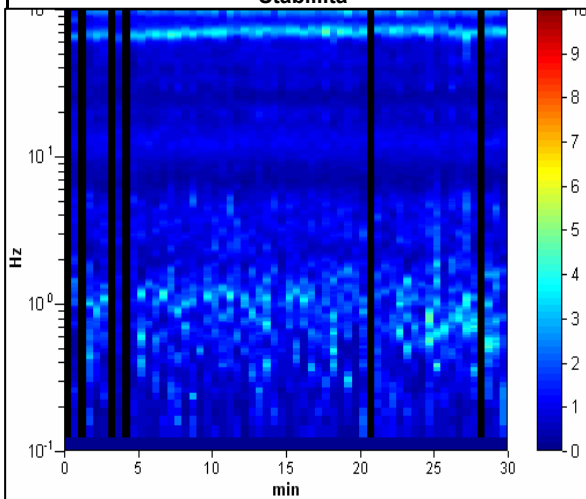
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

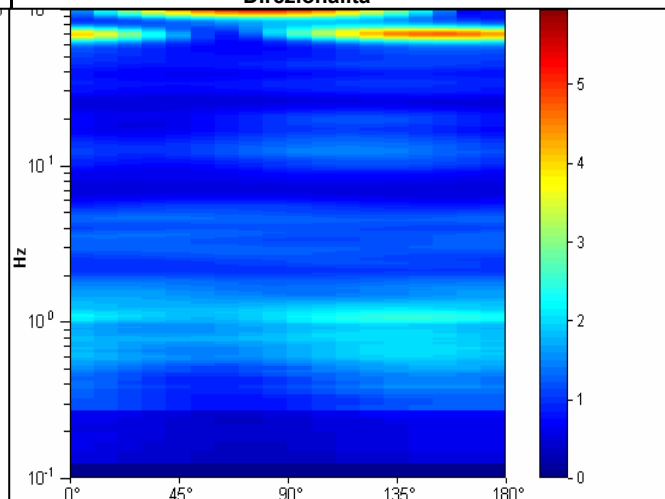
Max. HV at 1.05 ± 0.05 Hz. (In the range 0.0 - 30.0 Hz).



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
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INDAGINE HVSR H04

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

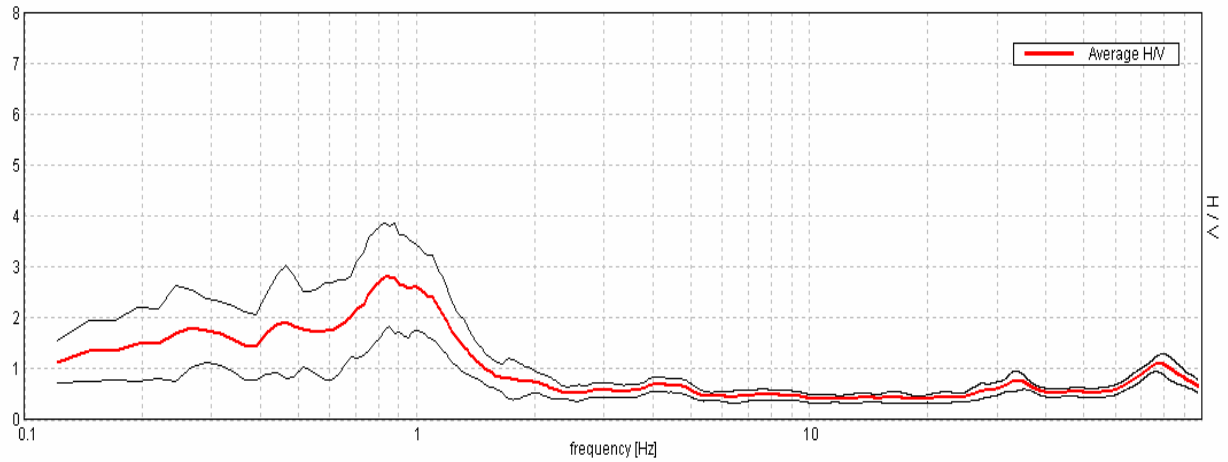
QUOTA: 41 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

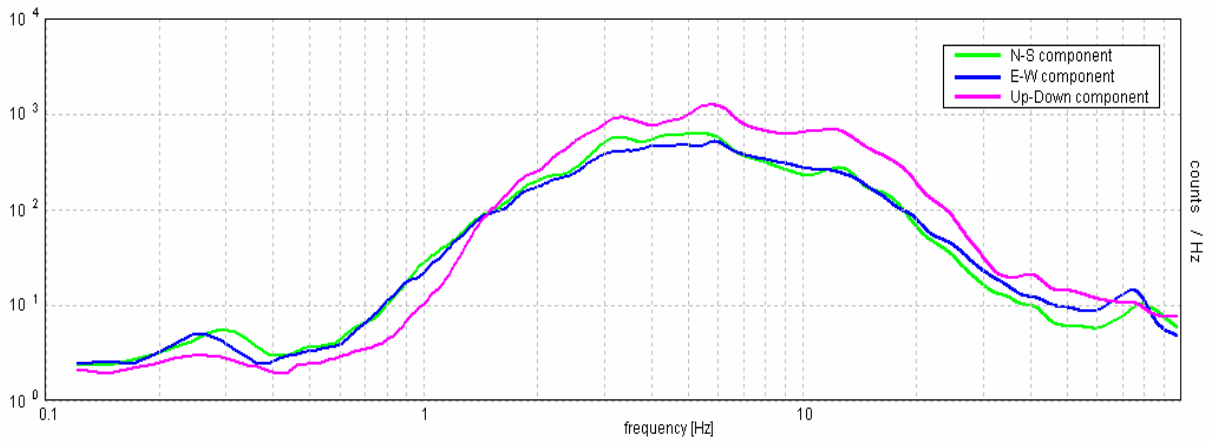
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

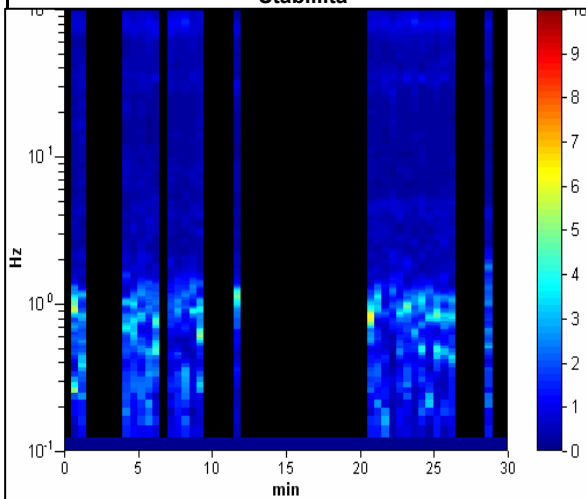
Max. HV at 0.85 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



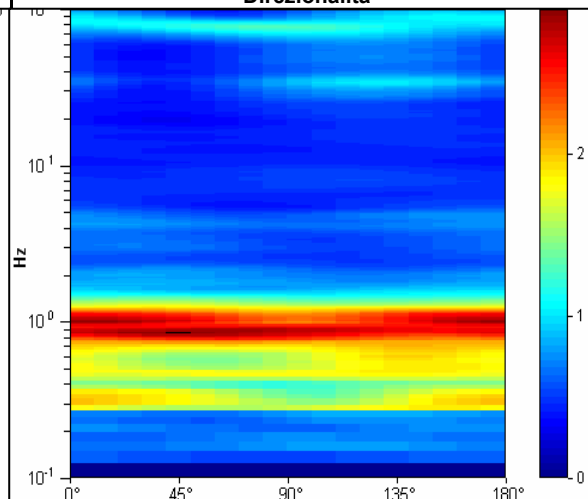
Ampiezza spettrale



Stabilità



Direzionalità



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INDAGINE HVSR H05

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

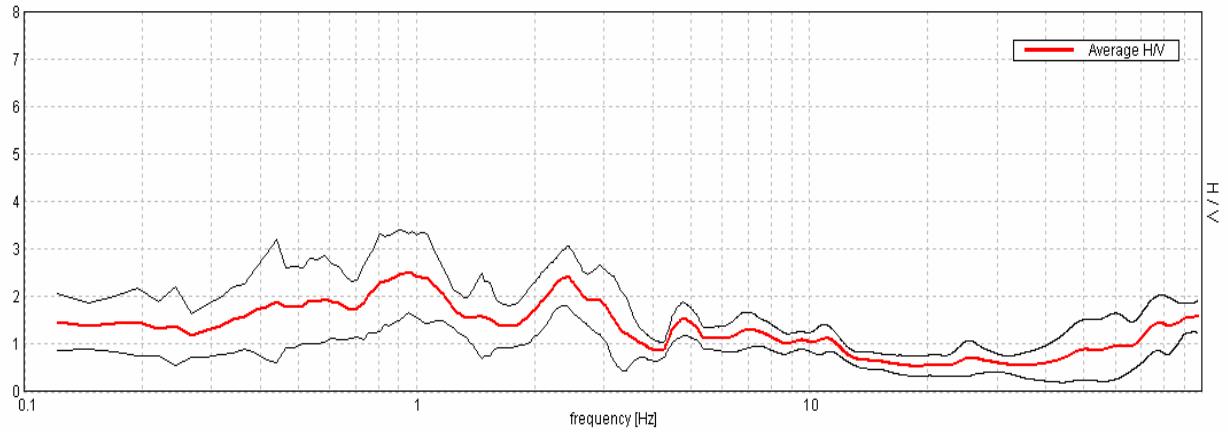
QUOTA: 43 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

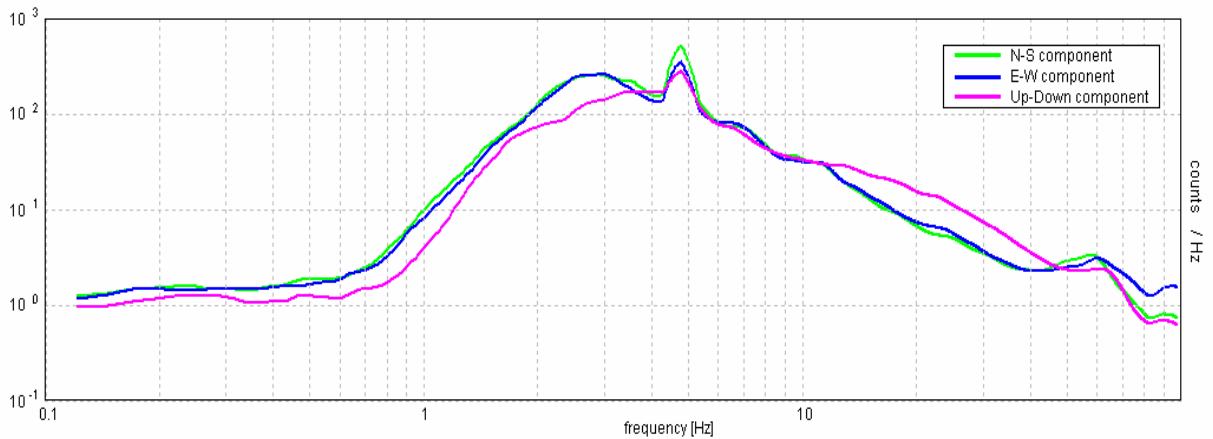
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

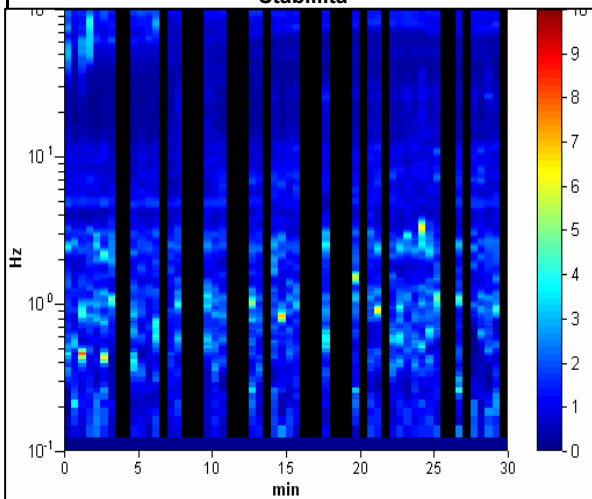
Max. HV at 0.95 ± 0.38 Hz. (In the range 0.0 - 30.0 Hz).



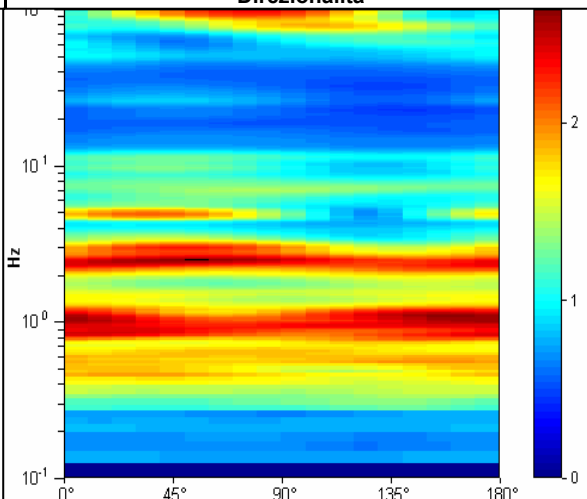
Ampiezza spettrale



Stabilità



Direzionalità



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INDAGINE HVSR H06

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

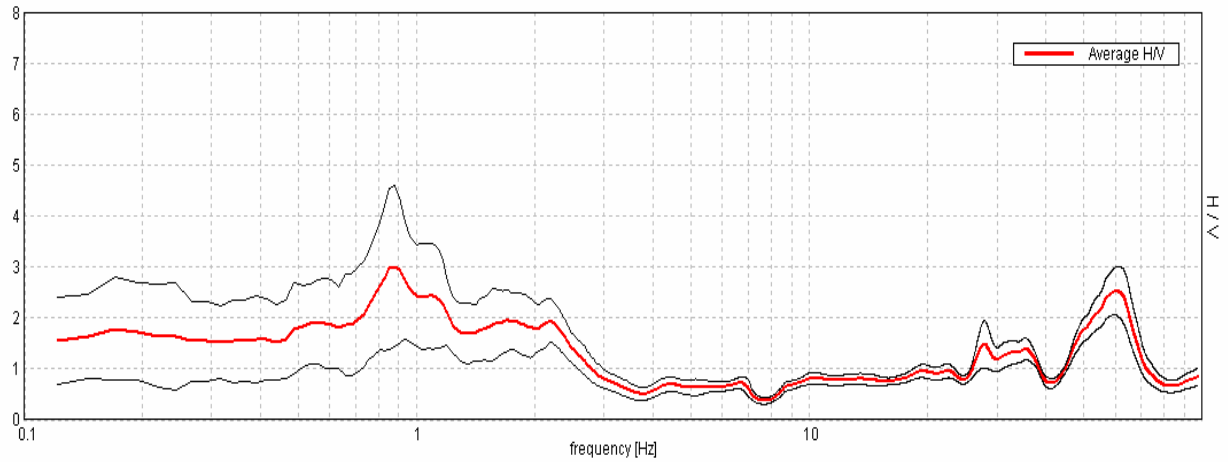
QUOTA: 46 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

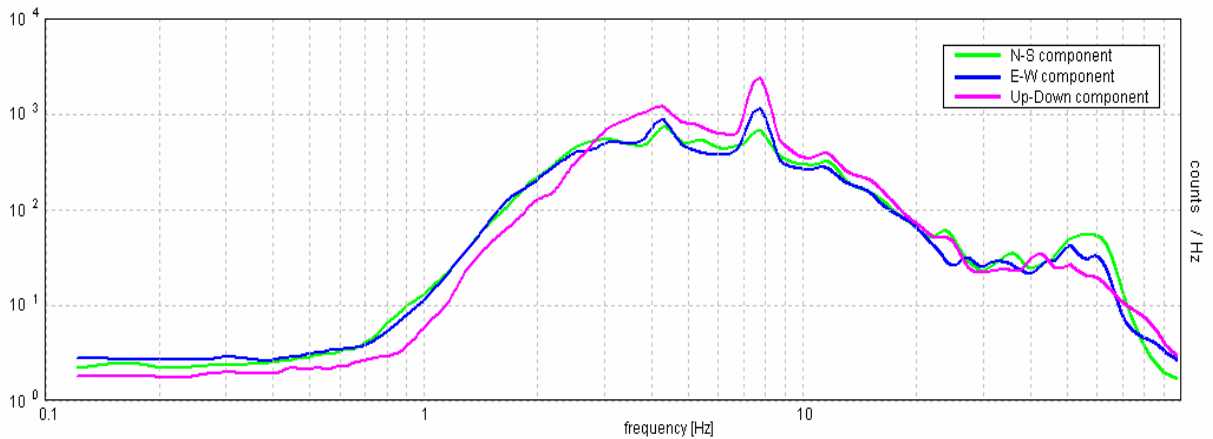
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

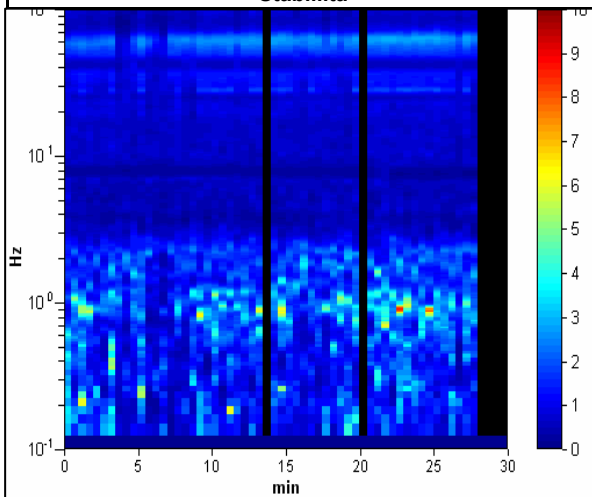
Max. HV at 0.88 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



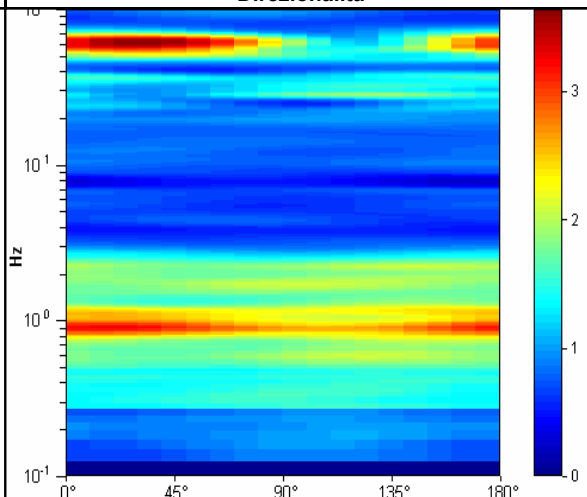
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
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INDAGINE HVSR H07

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

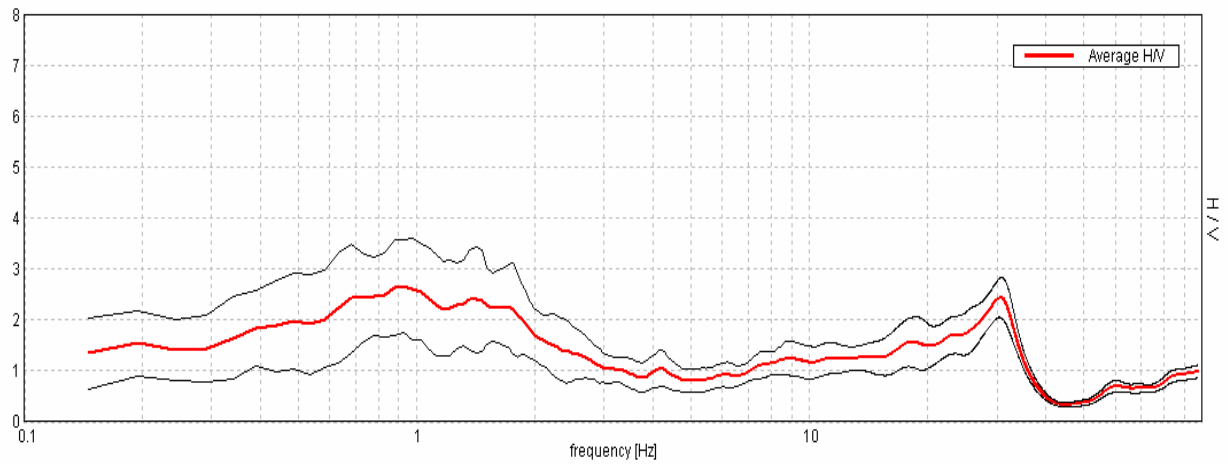
QUOTA: 45 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

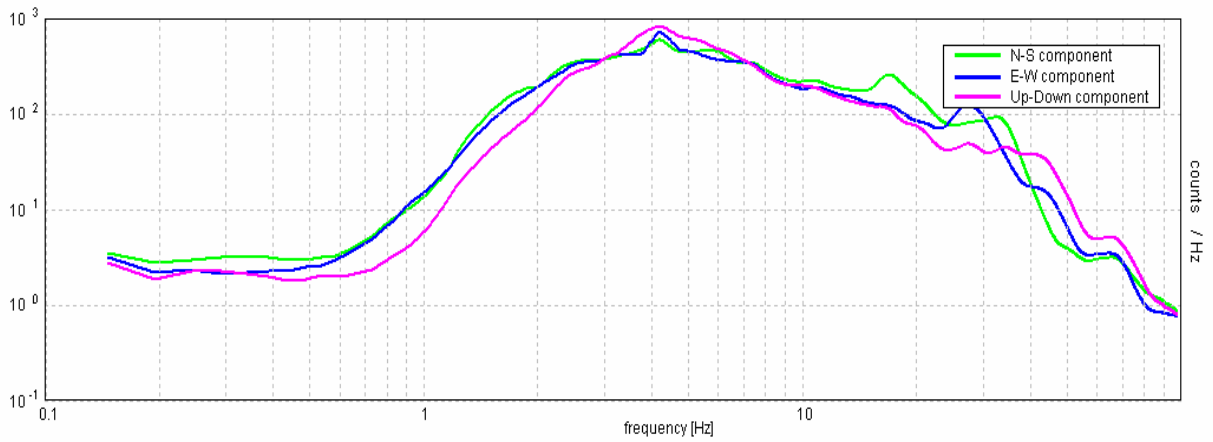
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

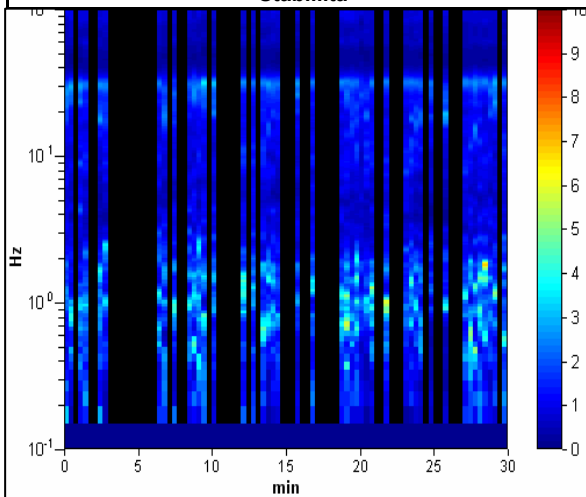
Max. HV at 0.93 ± 0.12 Hz. (In the range 0.0 - 30.0 Hz).



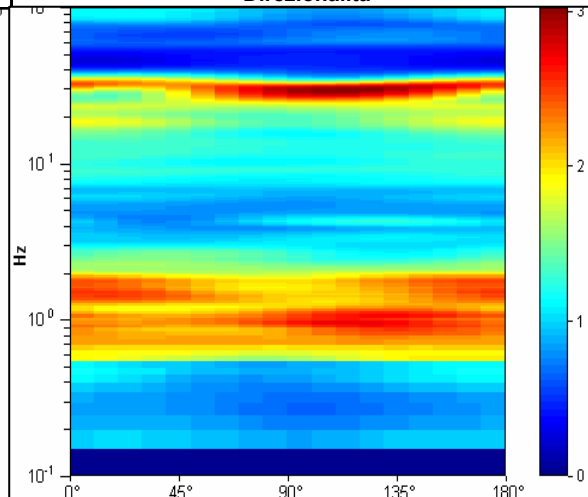
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO
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INDAGINE HVSR H08

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 19-02-2013

CANTIERE: Microzonazione sismica 2013

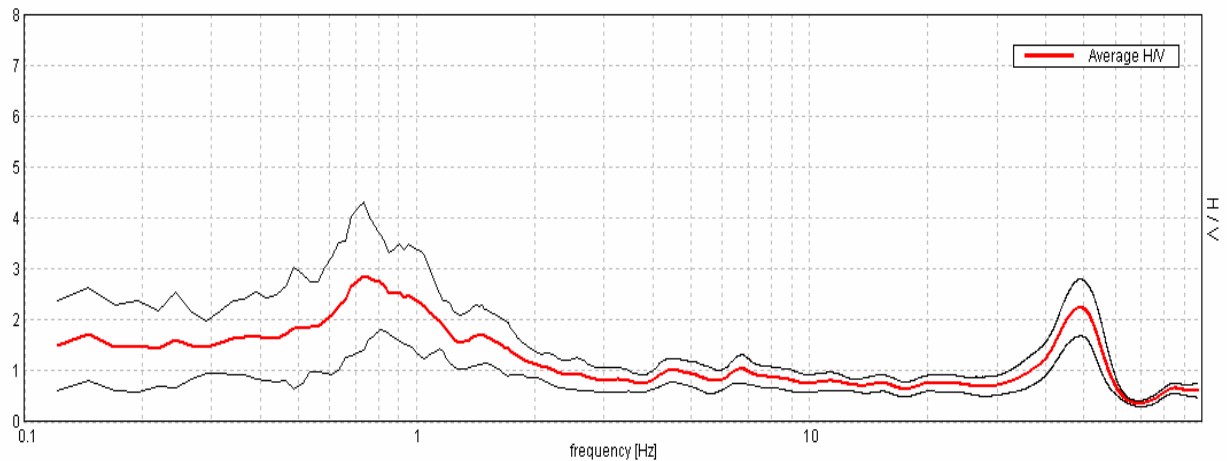
QUOTA: 41 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

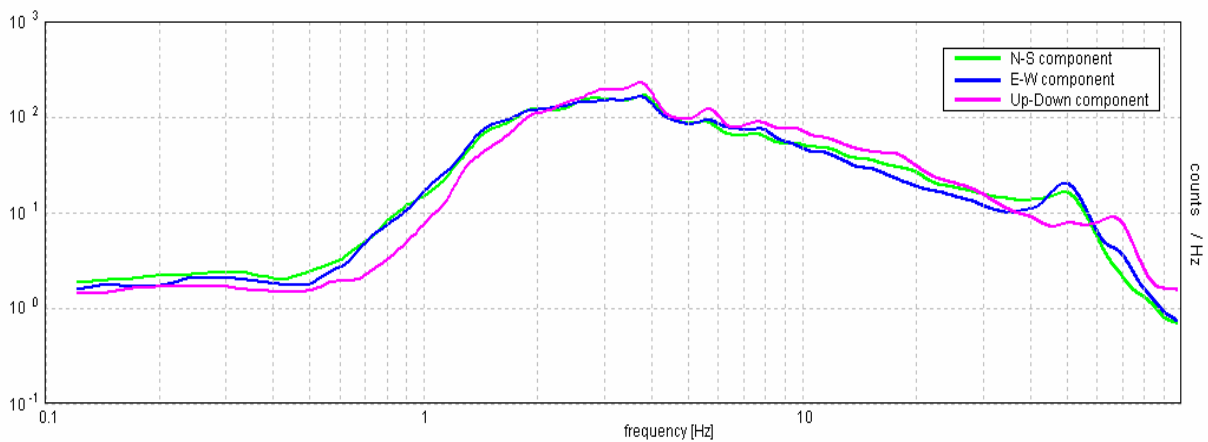
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

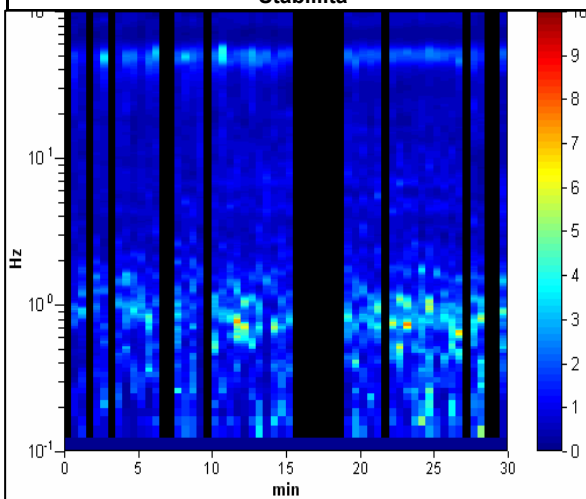
Max. HV at 0.73 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



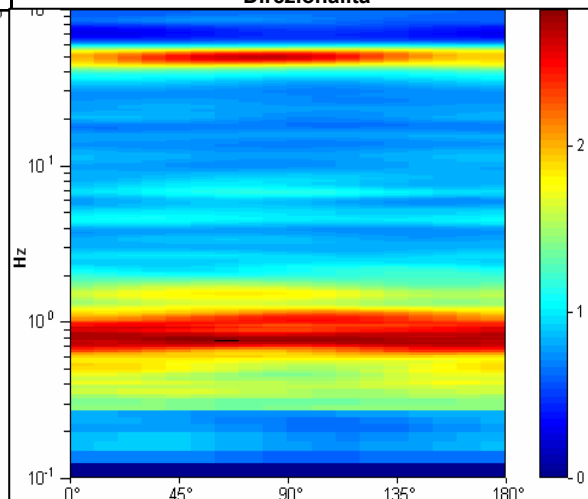
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H09

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

CANTIERE: Microzonazione sismica 2013

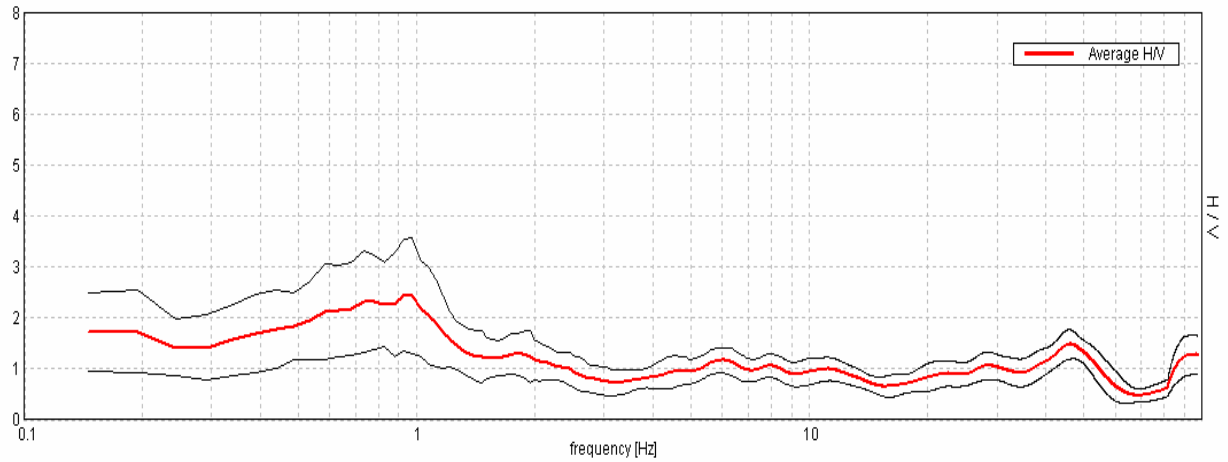
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

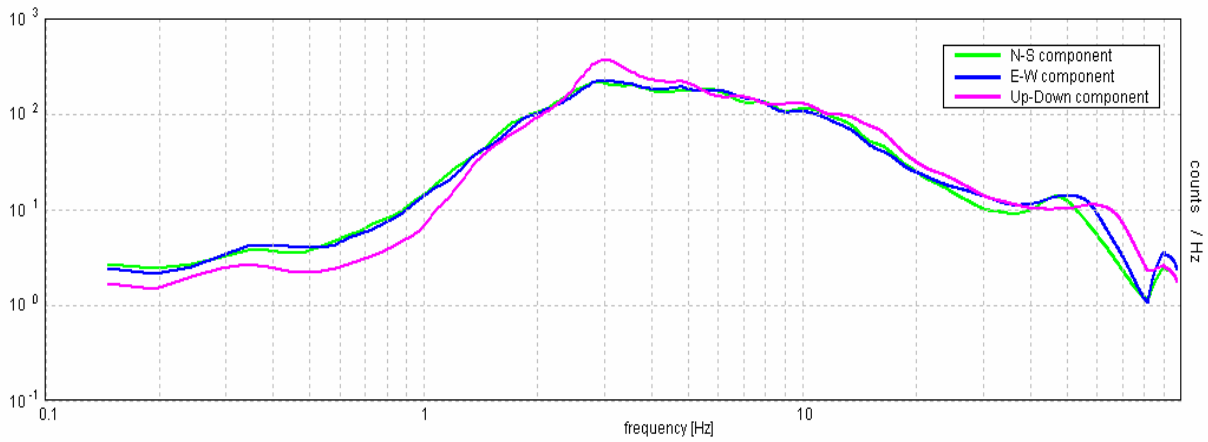
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

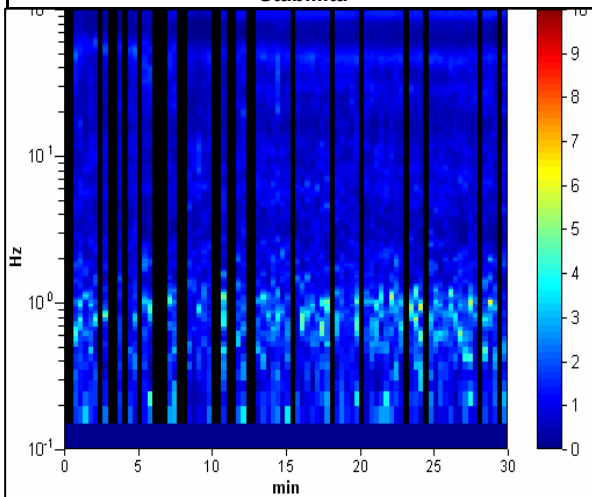
Max. HV at 0.93 ± 0.13 Hz. (In the range 0.0 - 30.0 Hz).



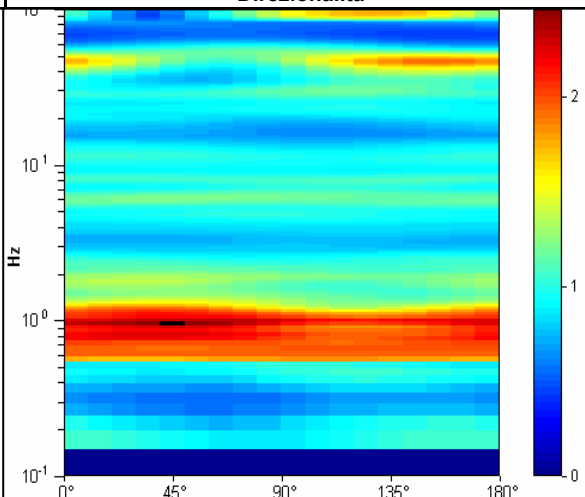
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H10

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

CANTIERE: Microzonazione sismica 2013

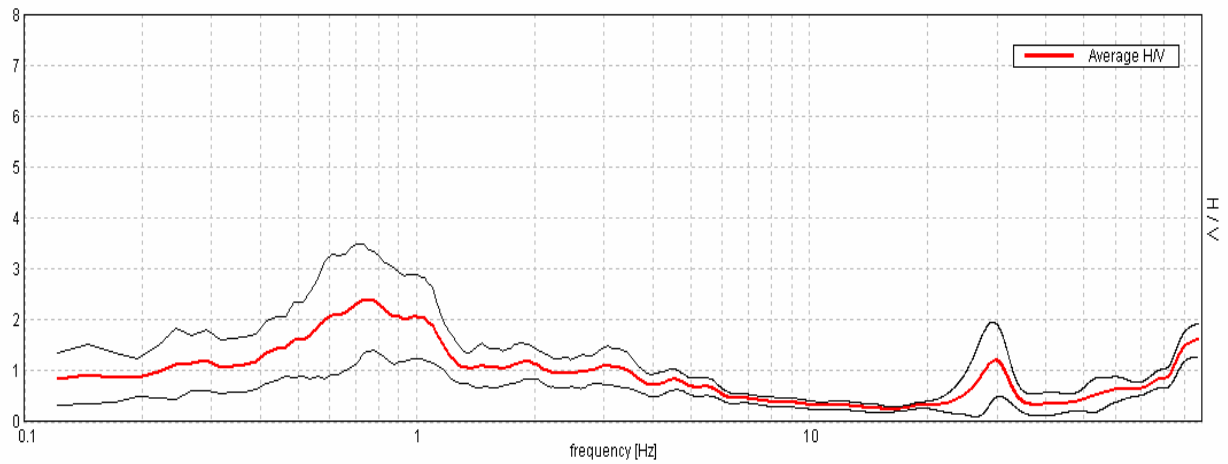
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

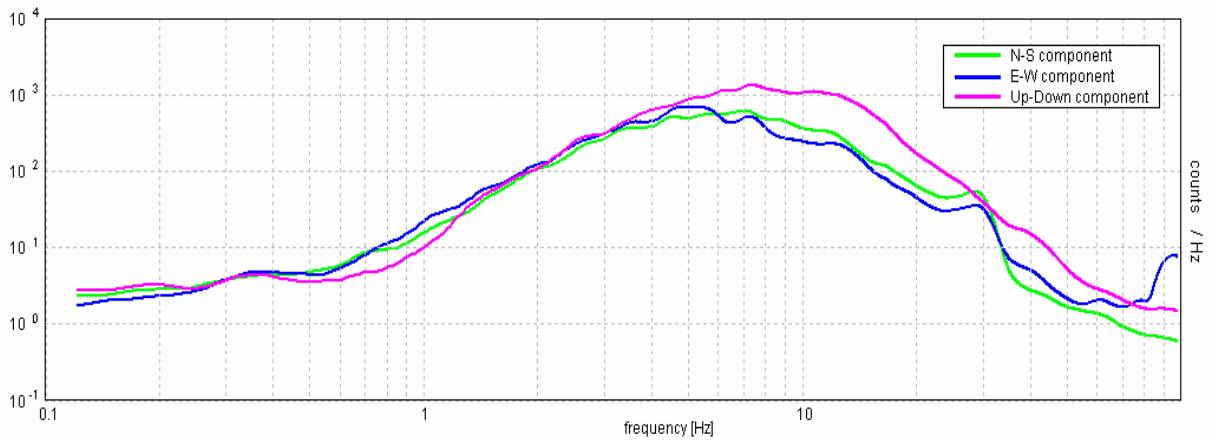
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

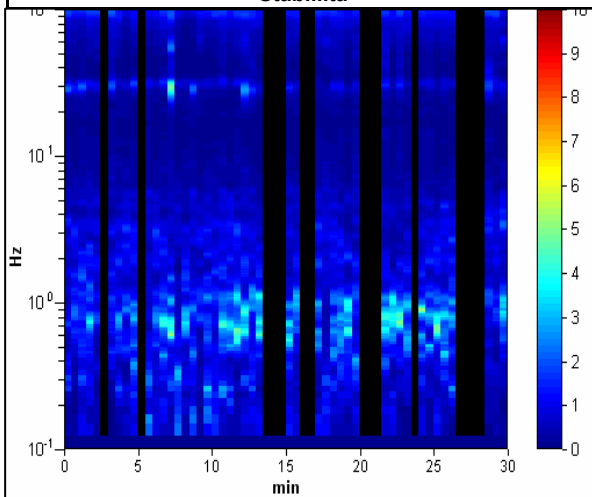
Max. HVV at 0.73 ± 7.14 Hz. (In the range 0.0 - 30.0 Hz).



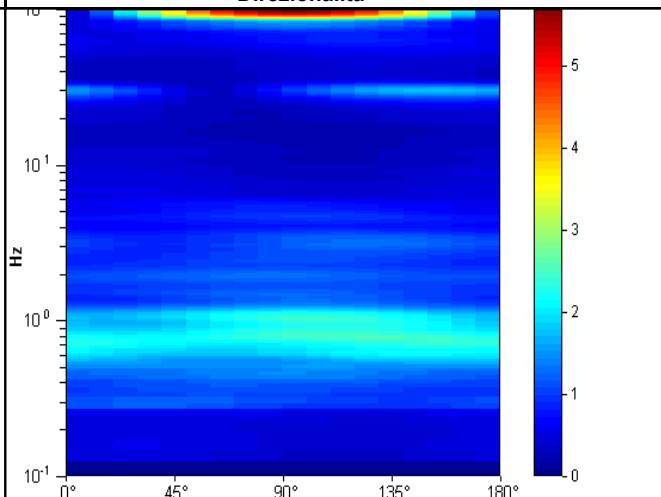
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H11

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

CANTIERE: Microzonazione sismica 2013

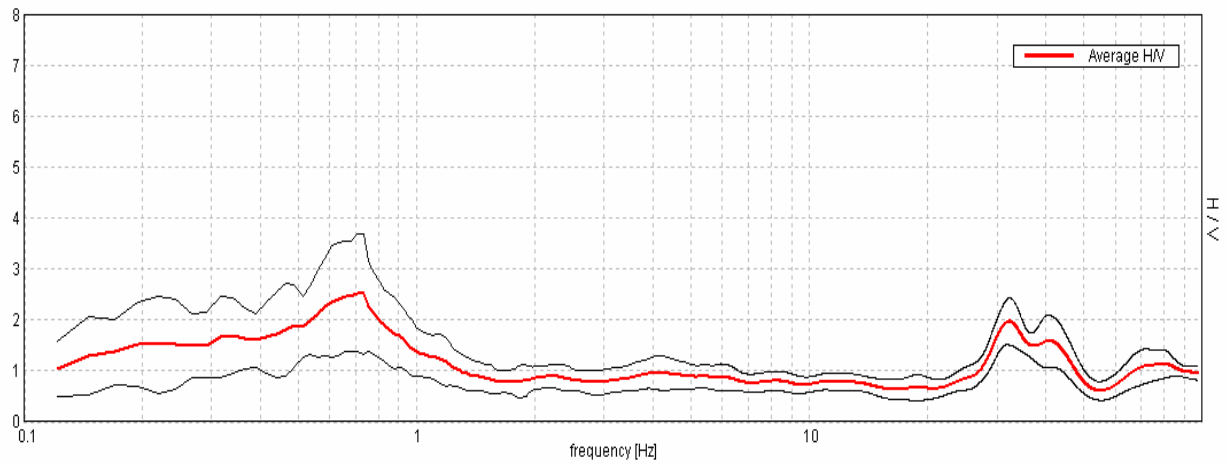
QUOTA: 37 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

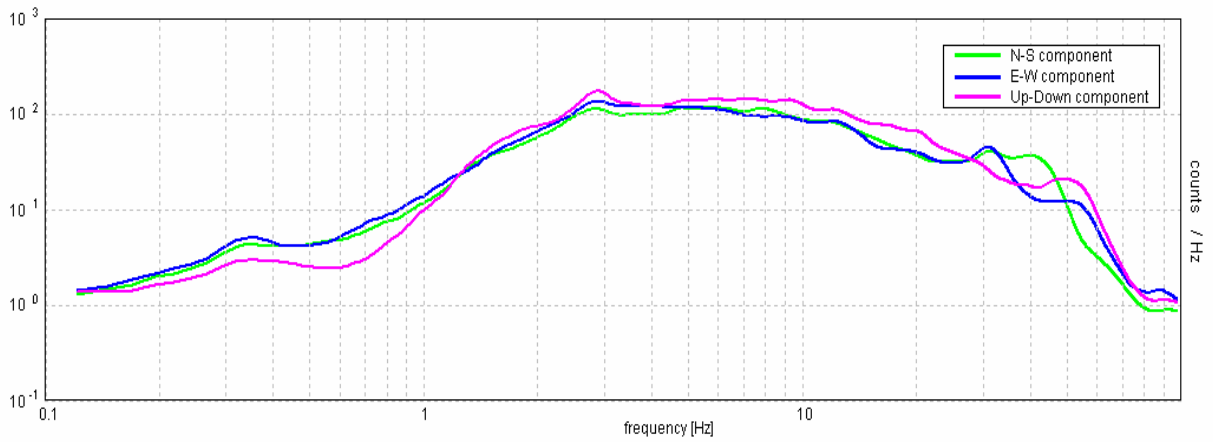
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

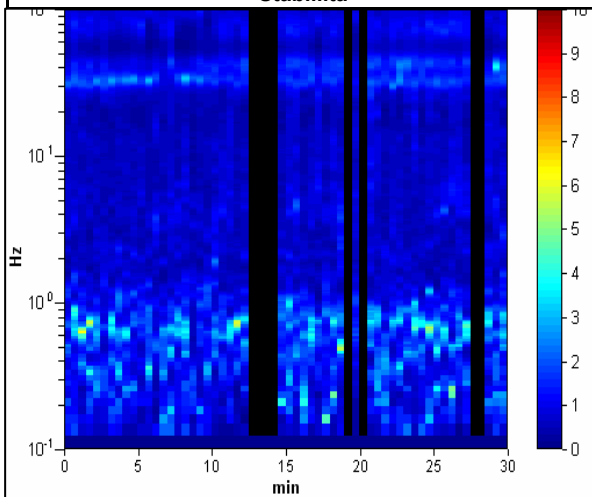
Max. HV at 0.71 ± 0.08 Hz. (In the range 0.0 - 30.0 Hz).



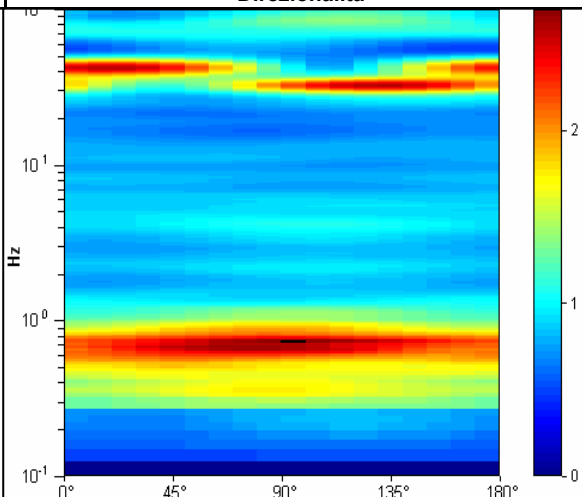
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H12

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

CANTIERE: Microzonazione sismica 2013

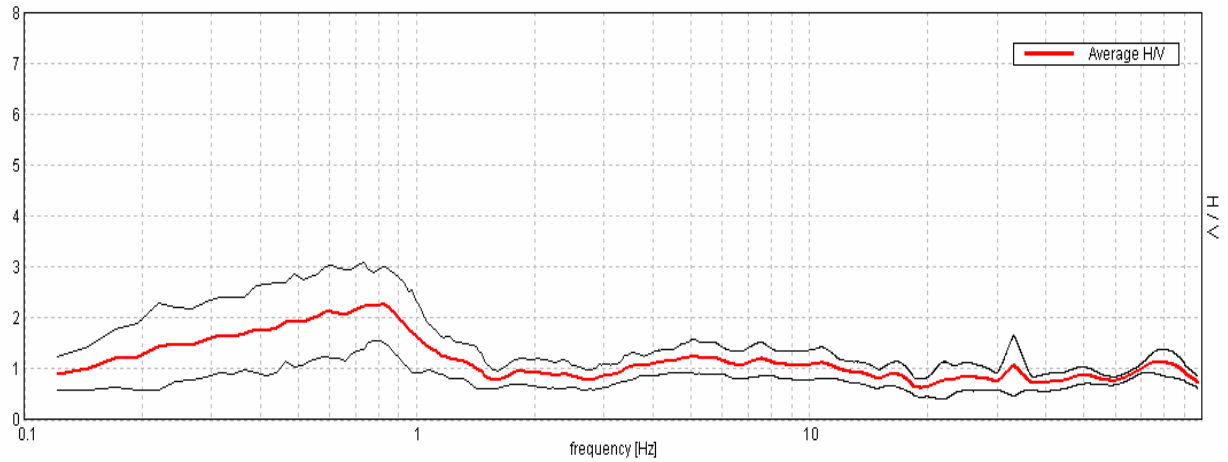
QUOTA: 37 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

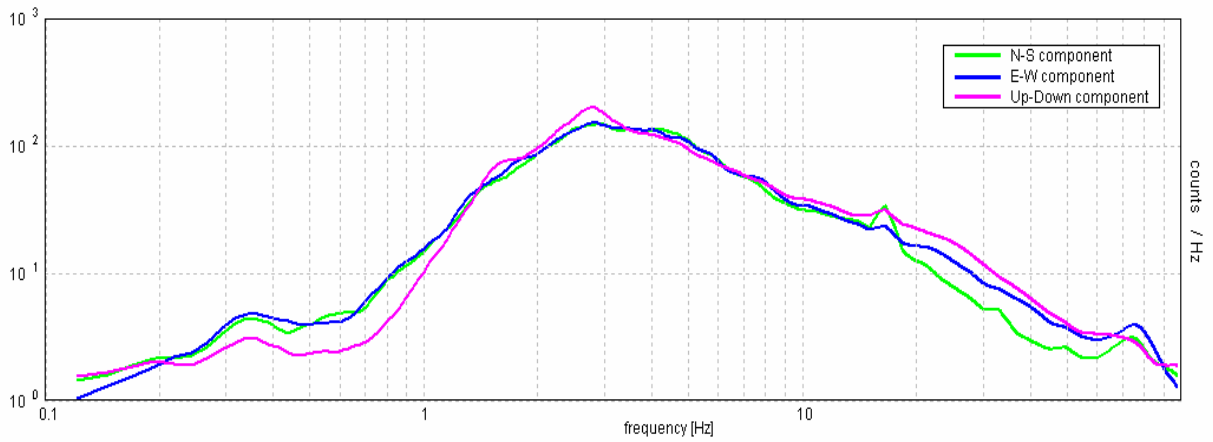
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

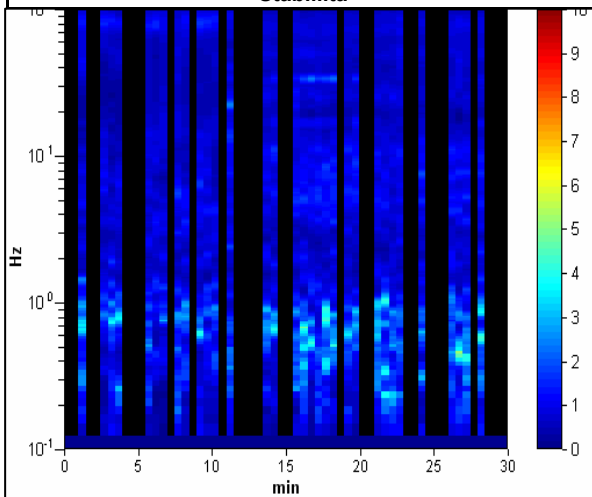
Max. HV at 0.81 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



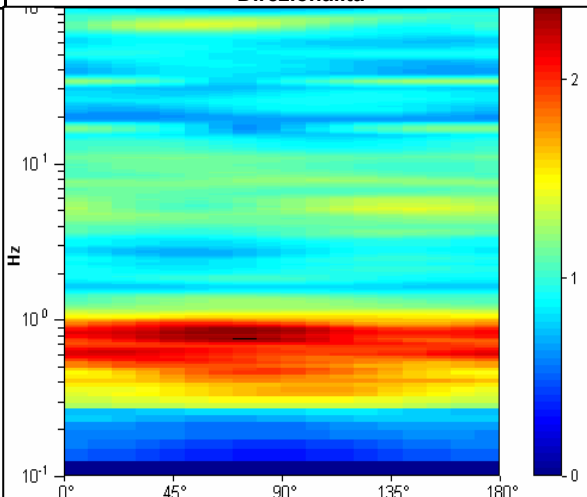
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H13

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

CANTIERE: Microzonazione sismica 2013

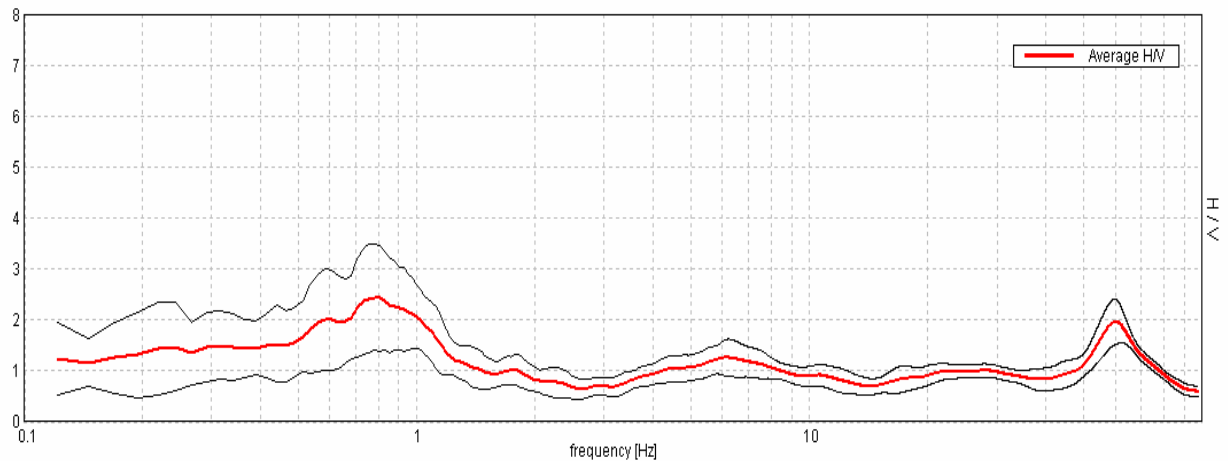
QUOTA: 37 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

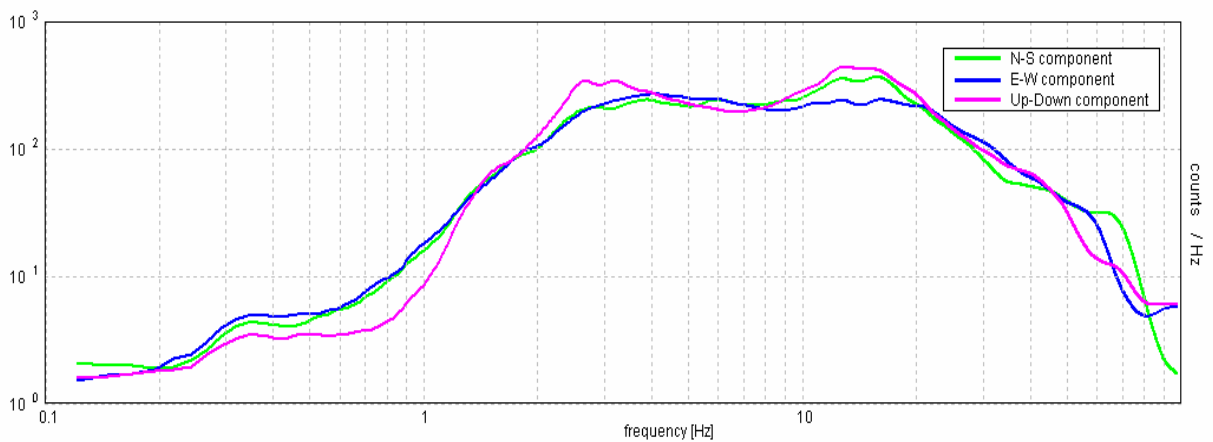
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

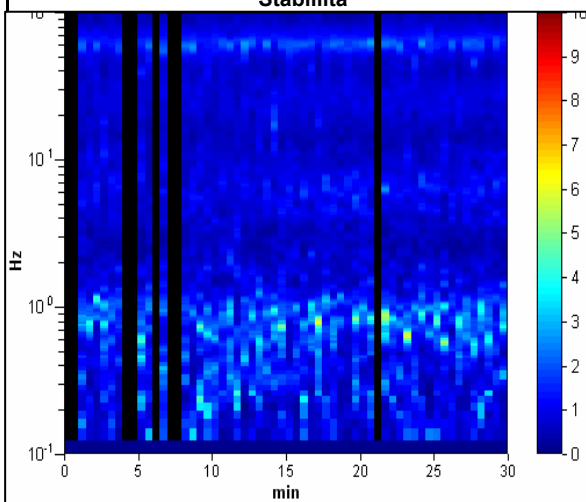
Max. HVV at 0.78 ± 0.06 Hz. (In the range 0.0 - 30.0 Hz).



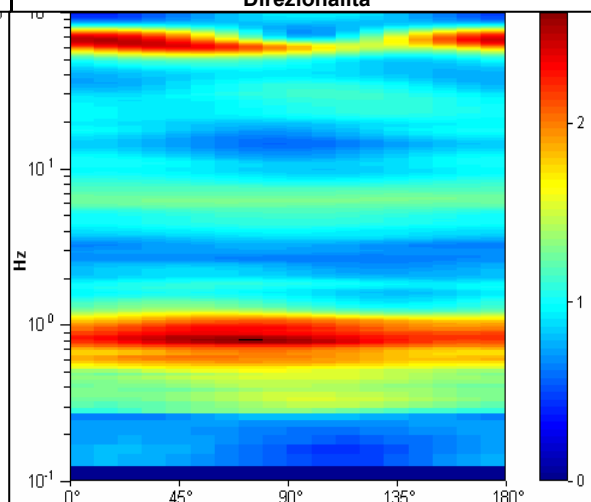
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H14

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 20-02-2013

CANTIERE: Microzonazione sismica 2013

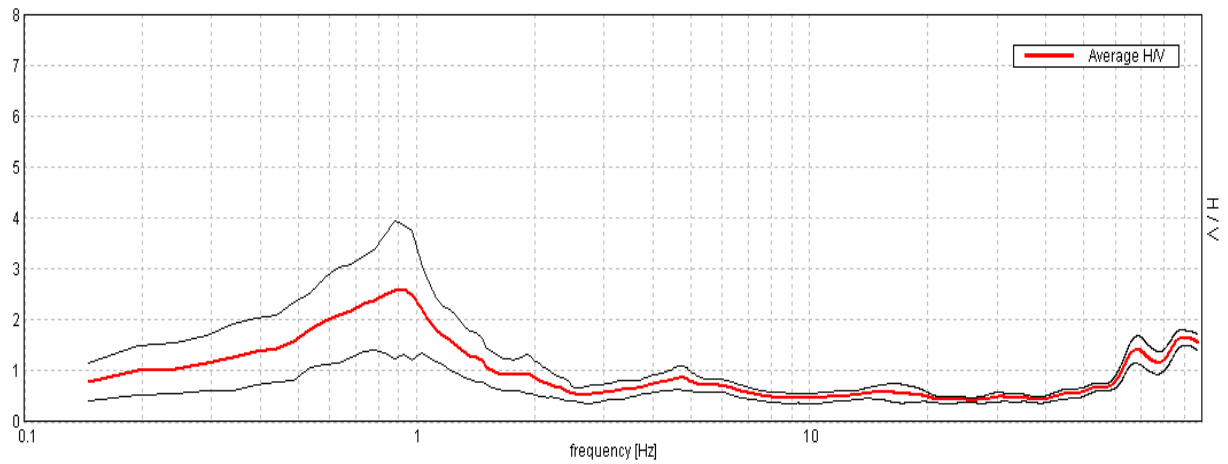
QUOTA: 42 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

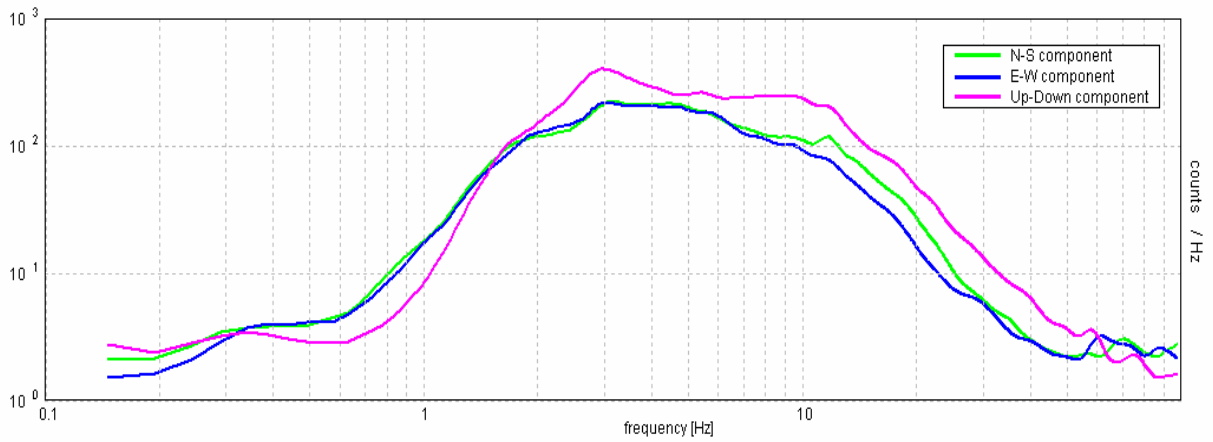
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

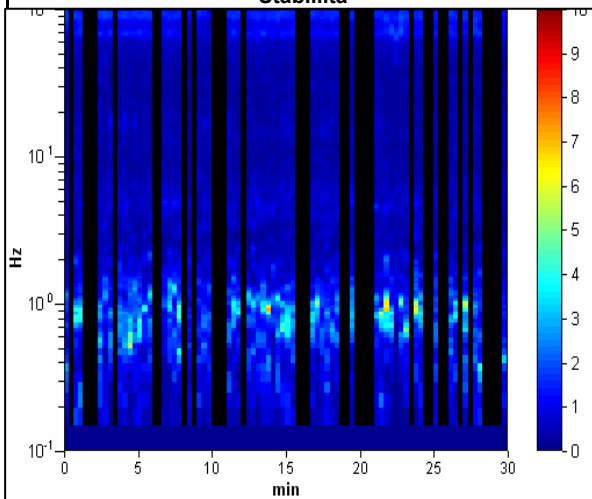
Max. HV at 0.93 ± 0.12 Hz. (In the range 0.0 - 30.0 Hz).



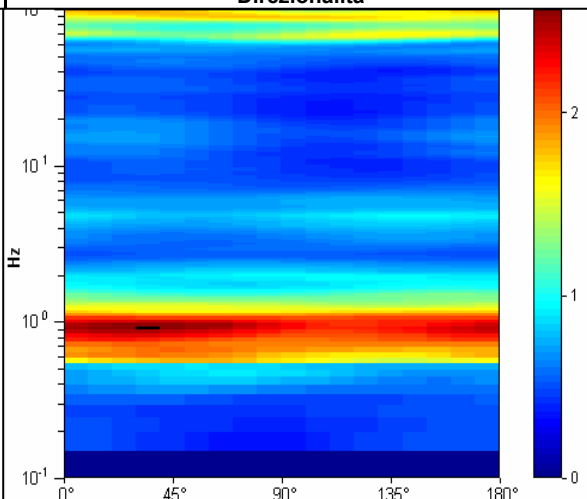
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H15

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 27-02-2013

CANTIERE: Microzonazione sismica 2013

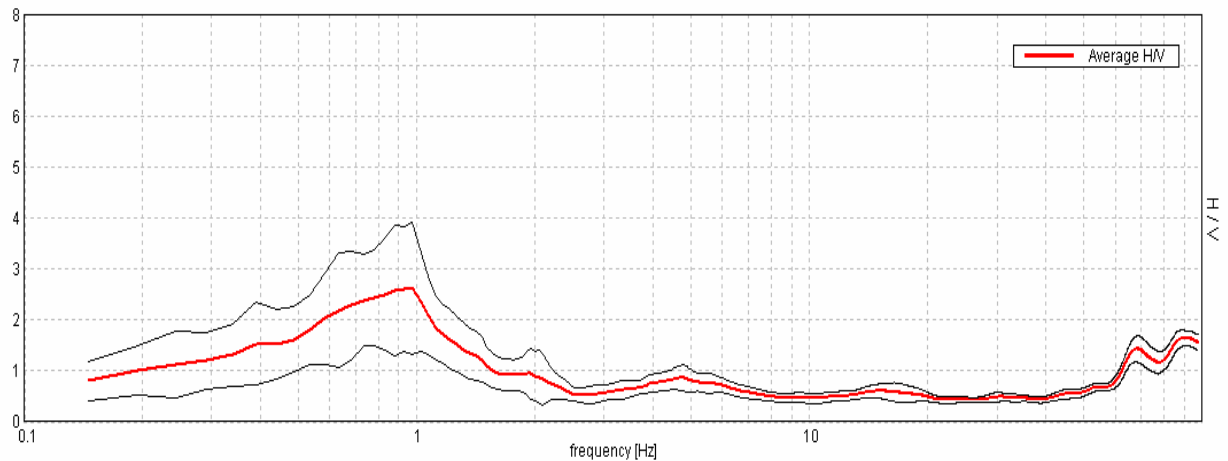
QUOTA: 32 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

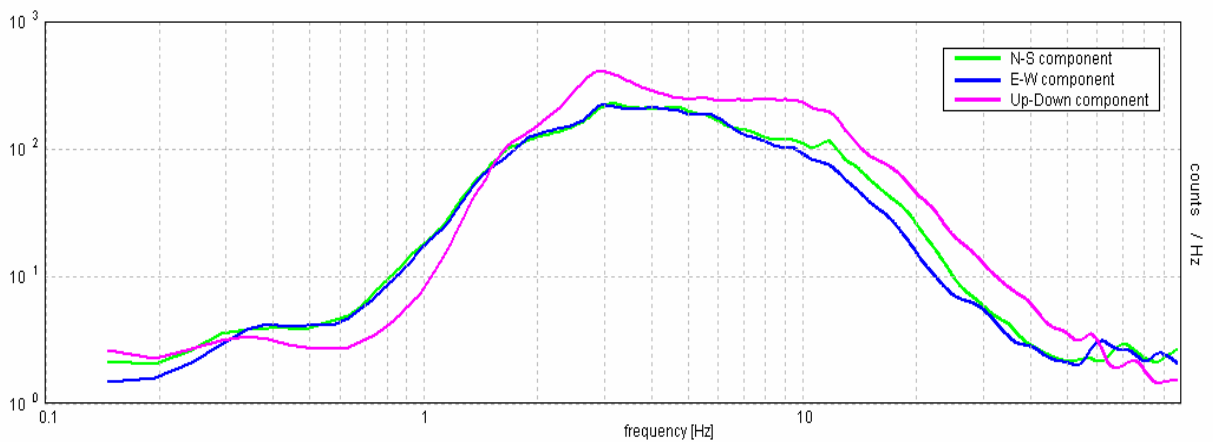
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

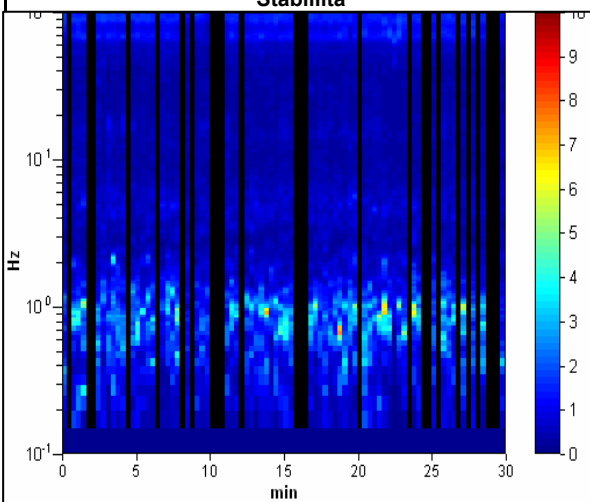
Max. HV at 0.98 ± 0.14 Hz. (In the range 0.0 - 30.0 Hz).



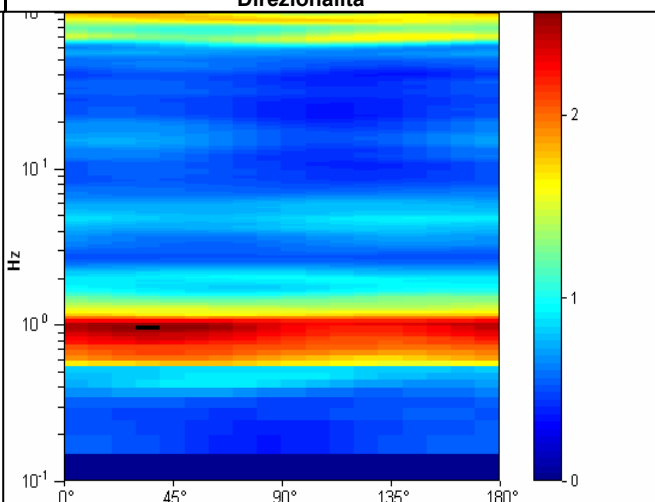
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H16

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 27-02-2013

CANTIERE: Microzonazione sismica 2013

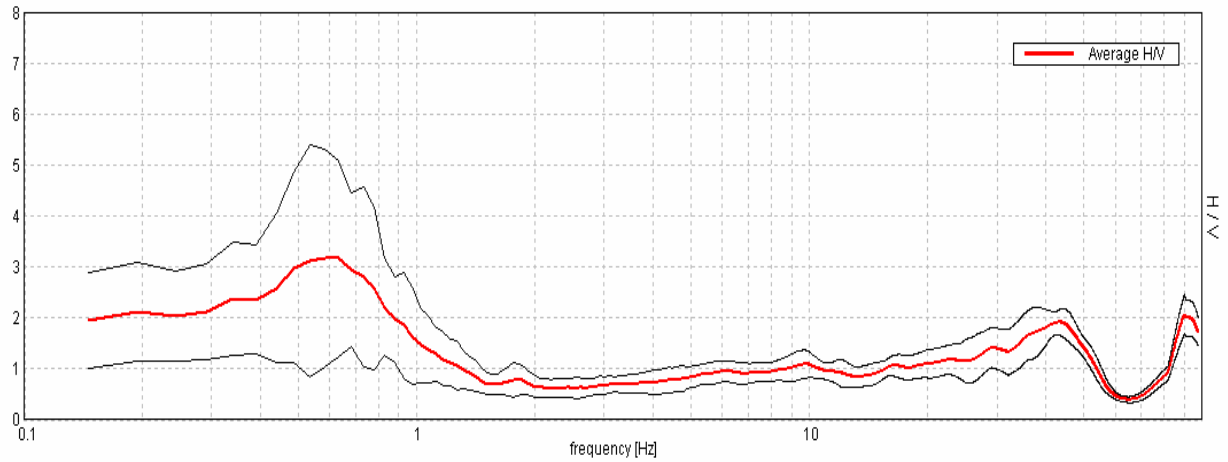
QUOTA: 33 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

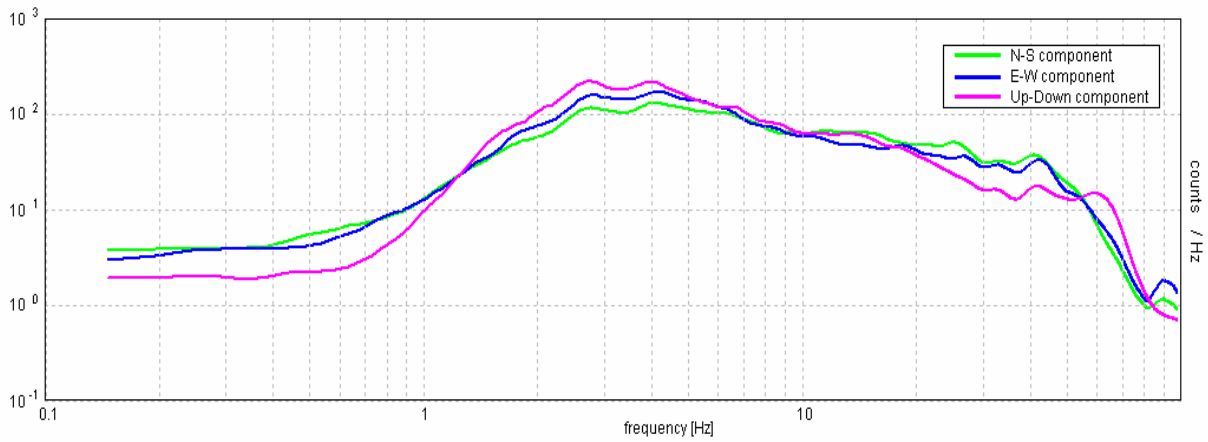
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

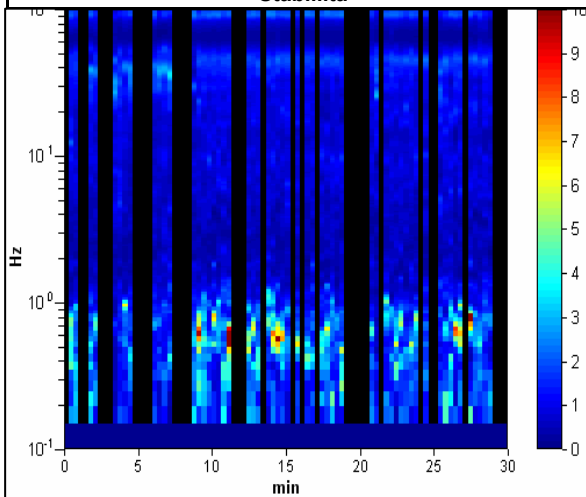
Max. HV at 0.59 ± 0.1 Hz. (In the range 0.0 - 30.0 Hz).



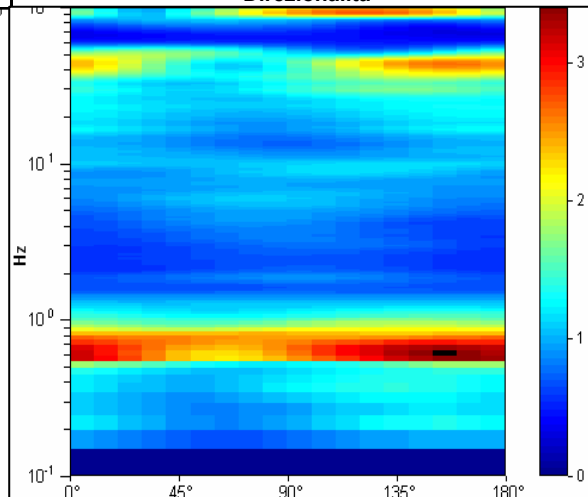
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H17

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

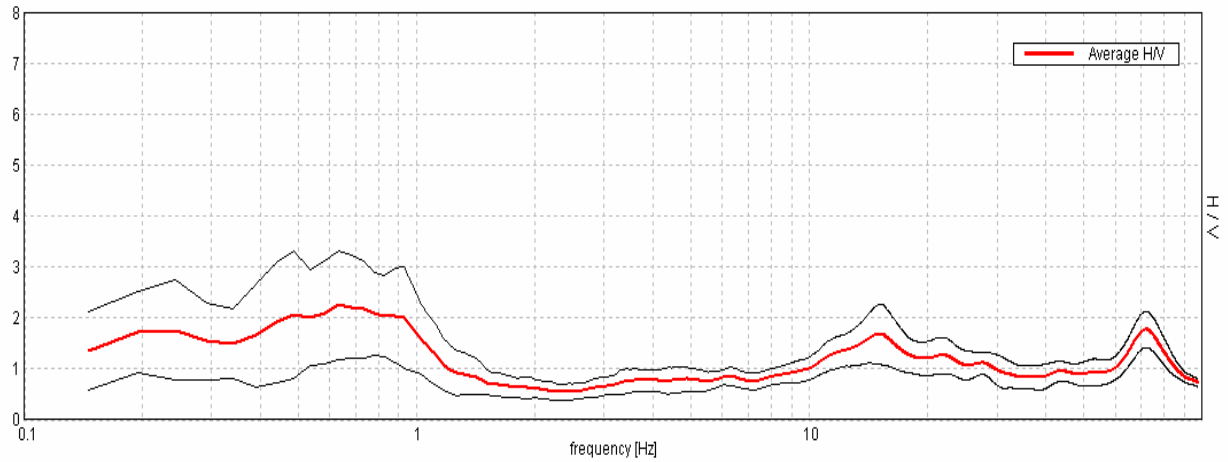
QUOTA: 32 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

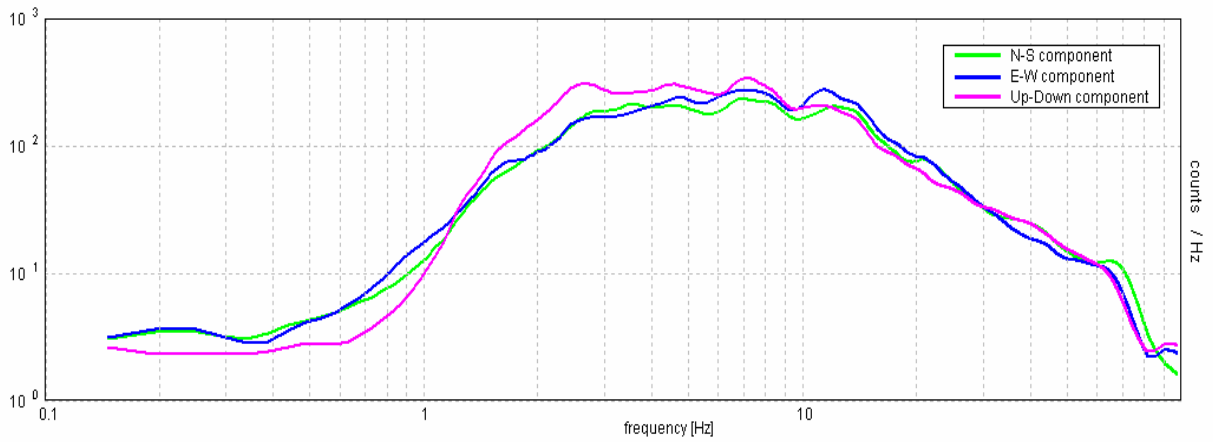
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

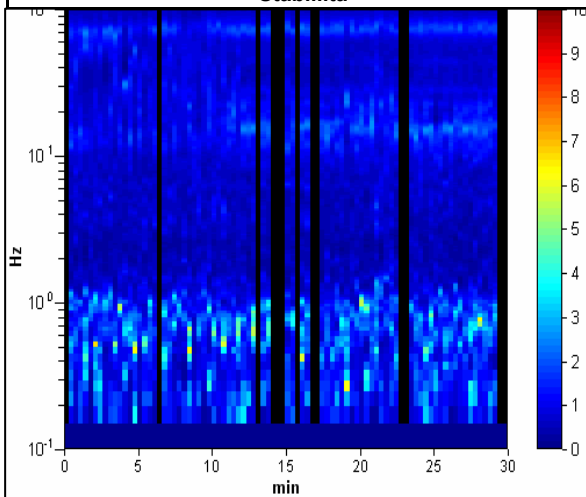
Max. HV at 0.63 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



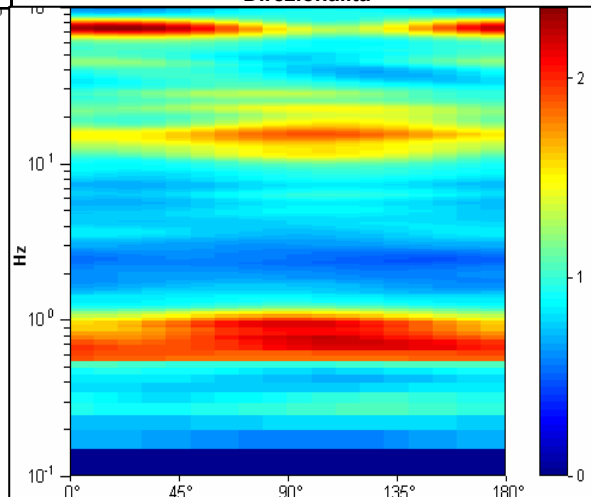
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H18

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

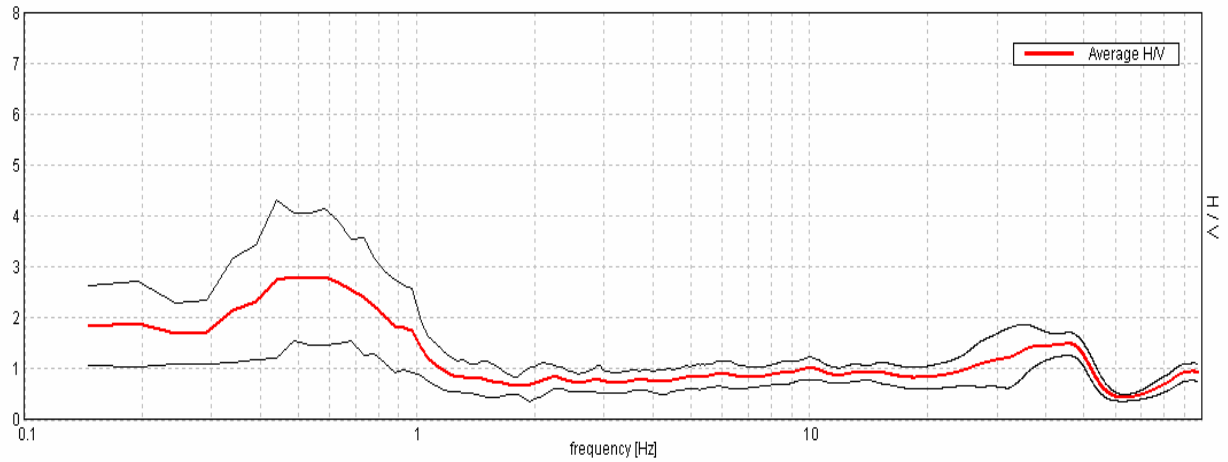
QUOTA: 33 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

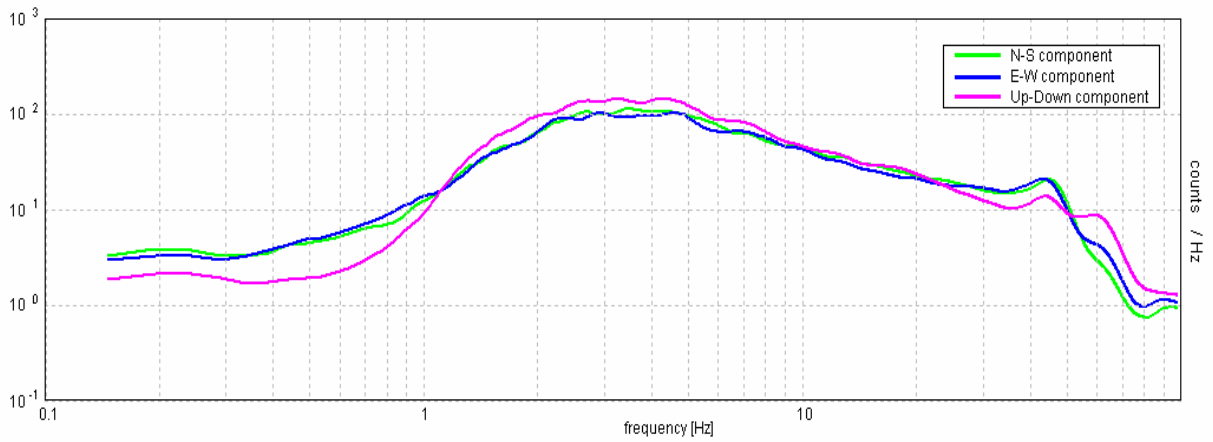
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

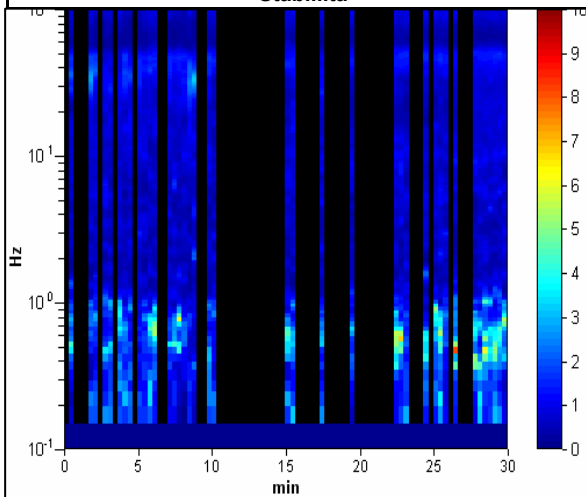
Max. HVV at 0.59 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



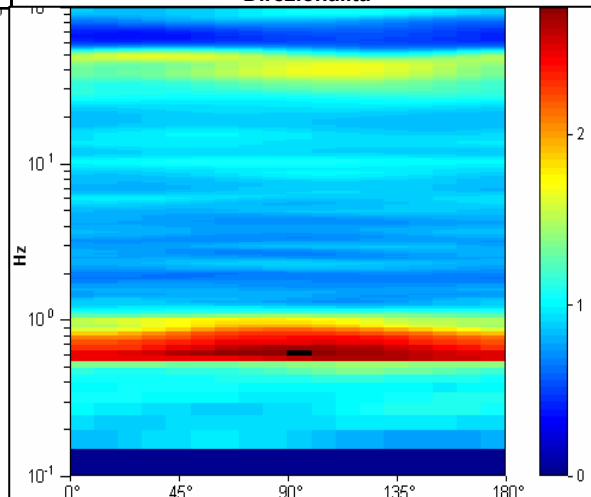
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H19

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

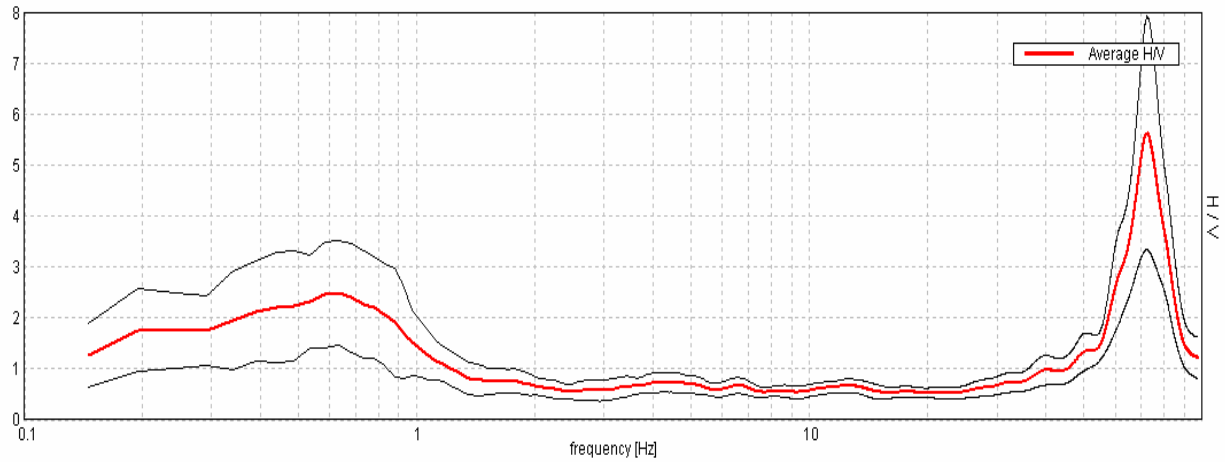
QUOTA: 34 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

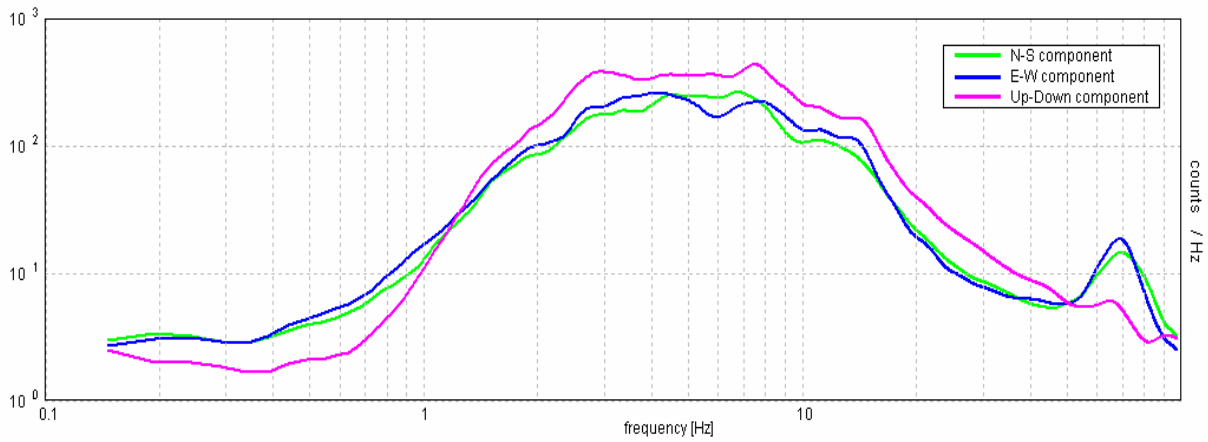
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

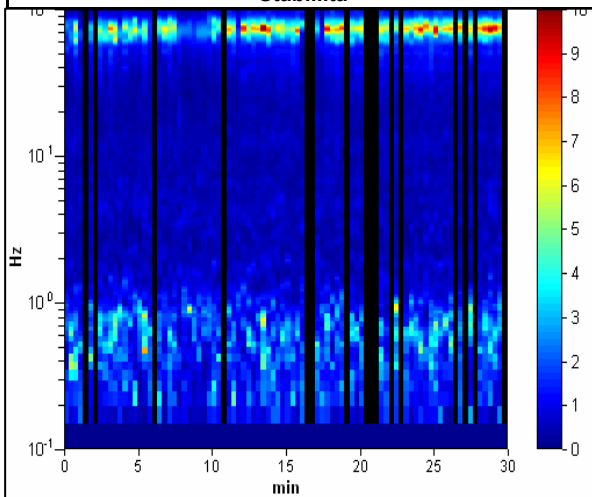
Max. HV at 0.63 ± 0.12 Hz. (In the range 0.0 - 30.0 Hz).



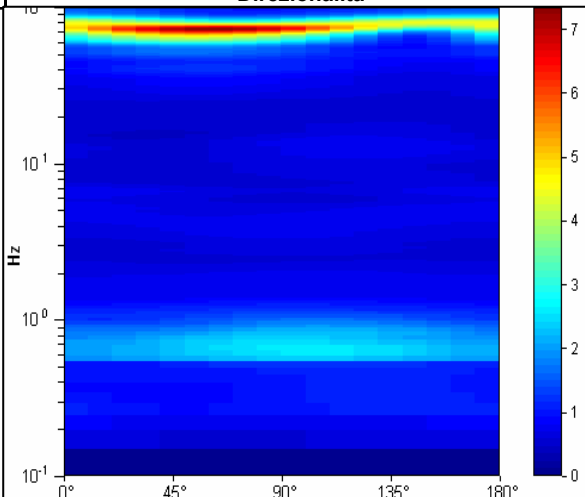
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H20

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

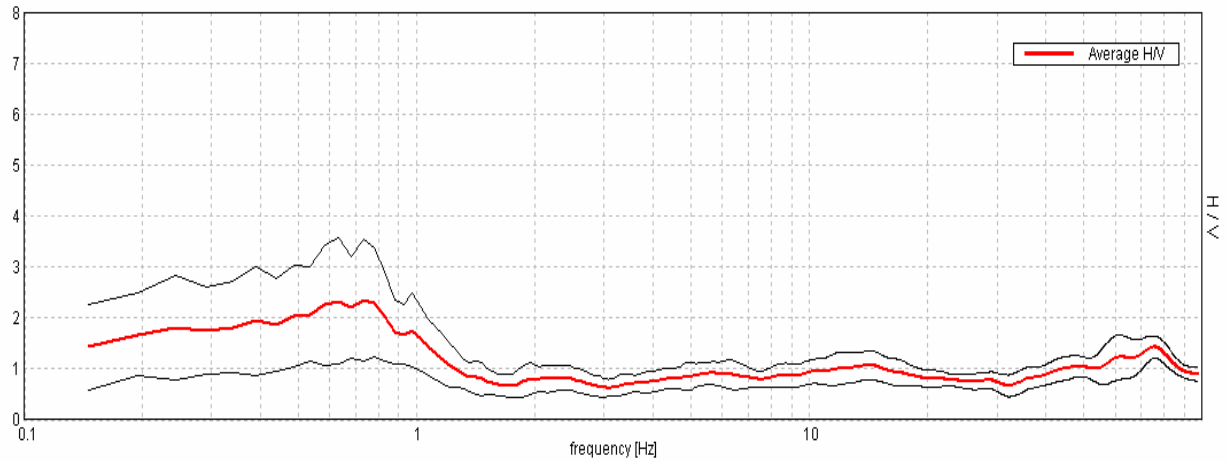
QUOTA: 36 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

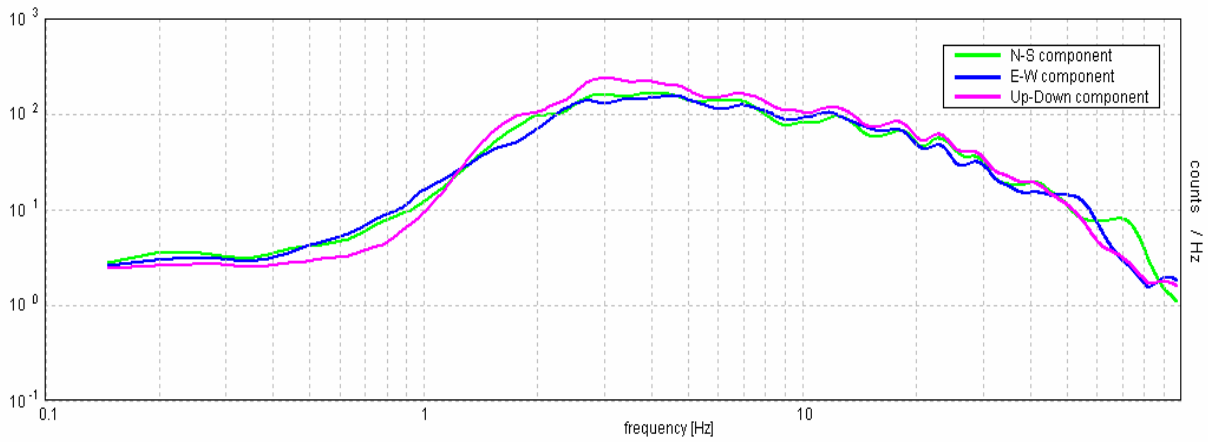
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

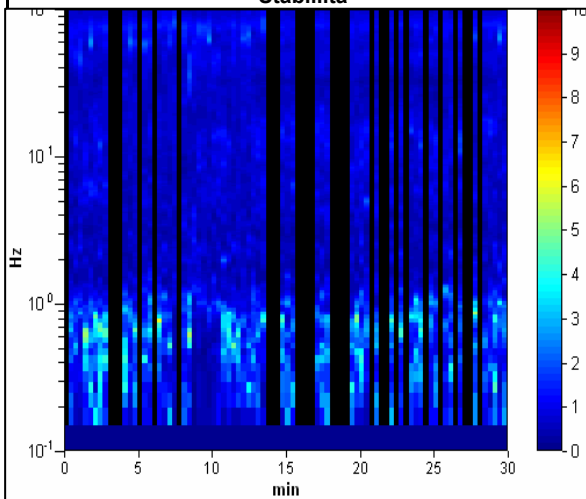
Max. HV at 0.73 ± 0.09 Hz. (In the range 0.0 - 30.0 Hz).



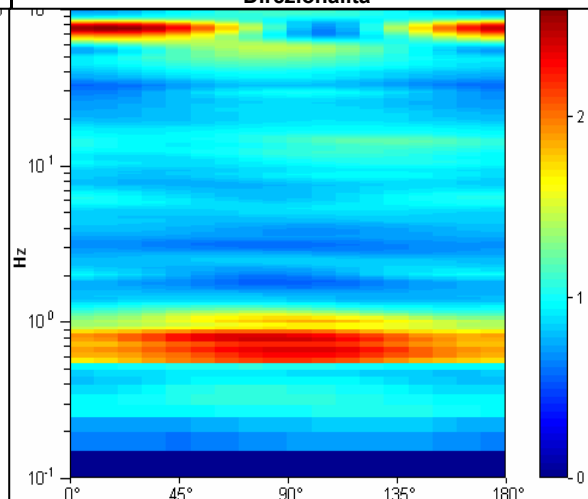
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H21

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

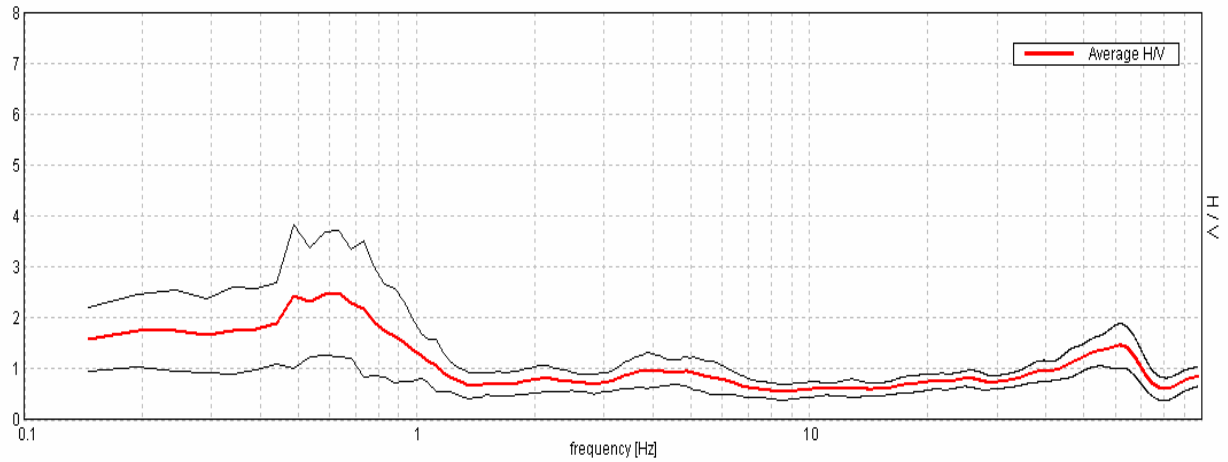
QUOTA: 35 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

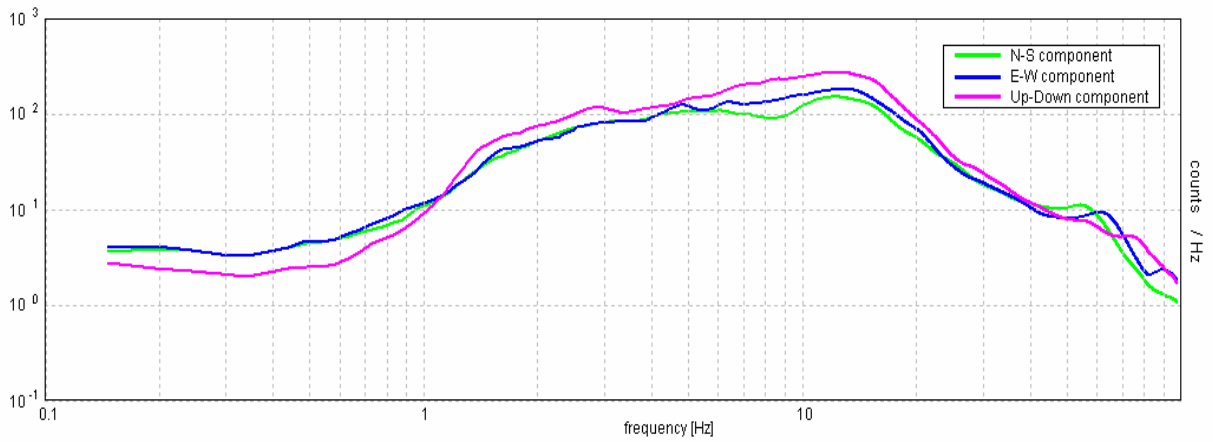
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

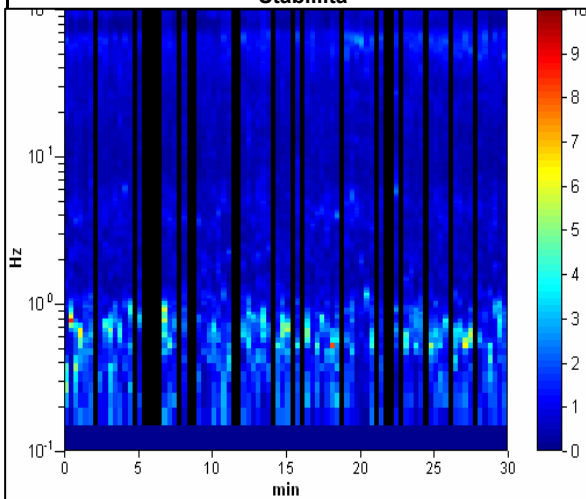
Max. HVV at 0.63 ± 0.06 Hz. (In the range 0.0 - 30.0 Hz).



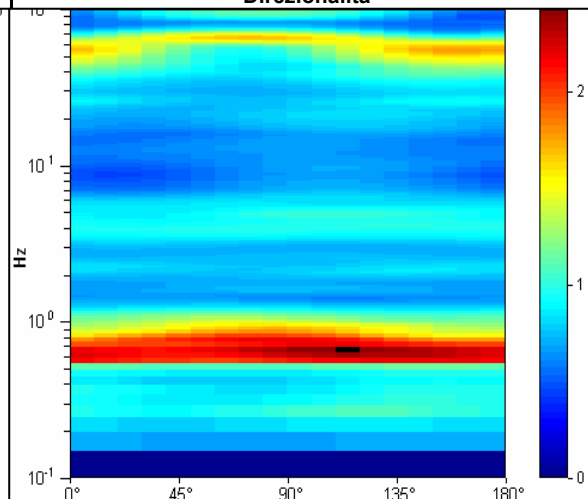
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H22

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

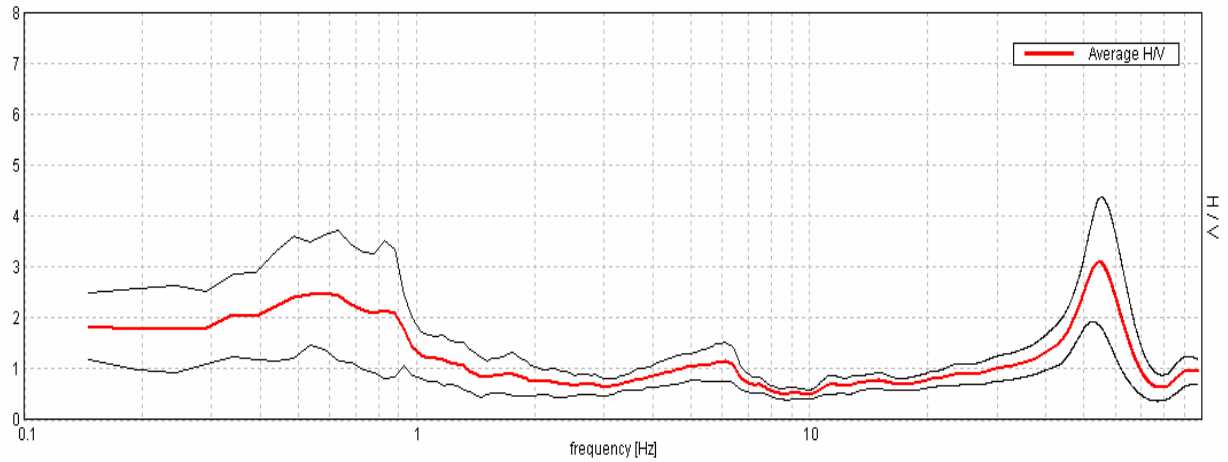
QUOTA: 32 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

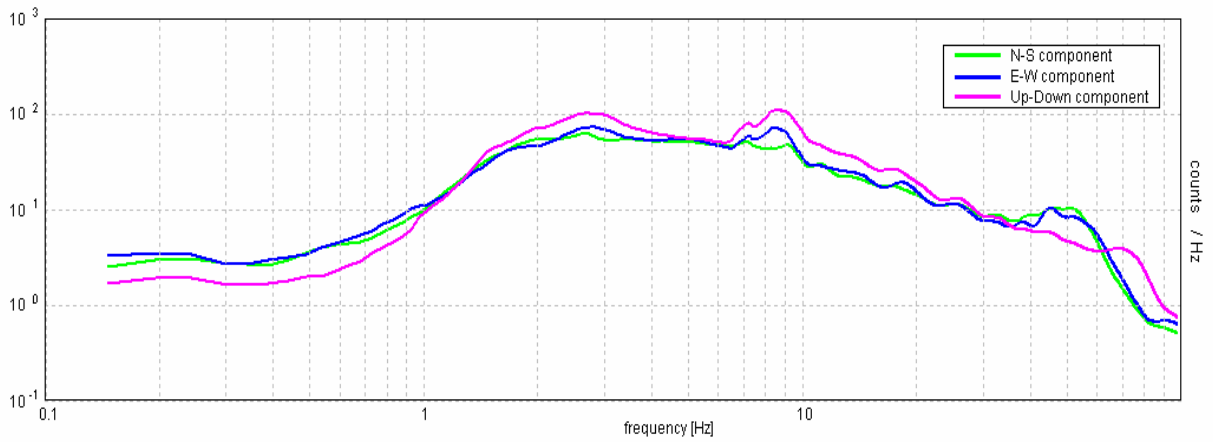
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

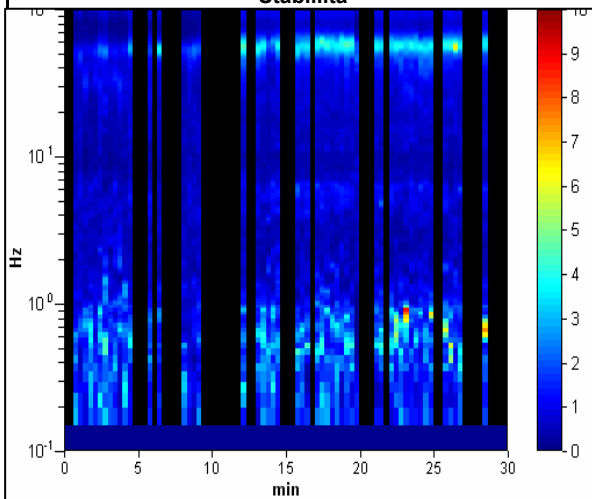
Max. HV at 0.59 ± 0.08 Hz. (In the range 0.0 - 30.0 Hz).



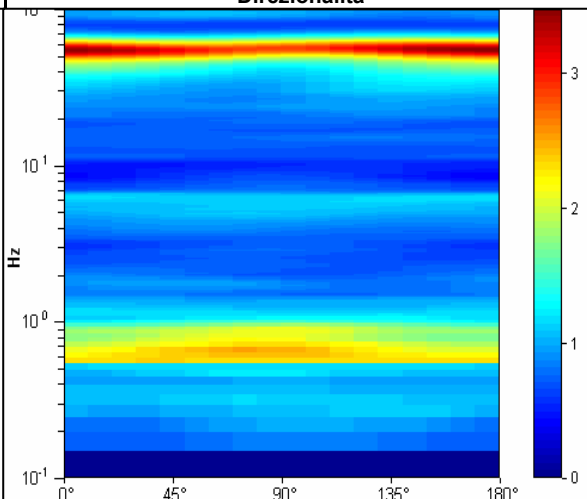
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H23

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

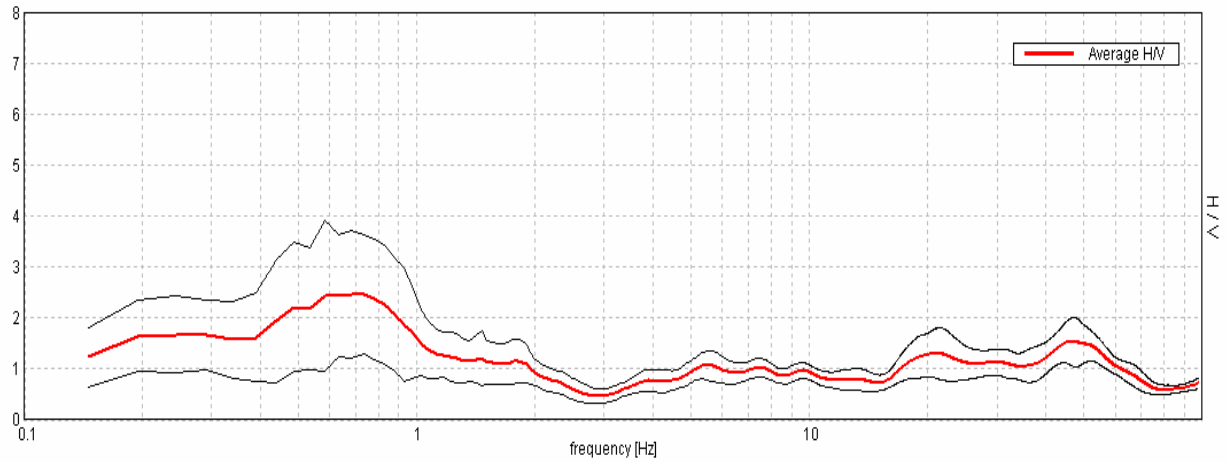
QUOTA: 36 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

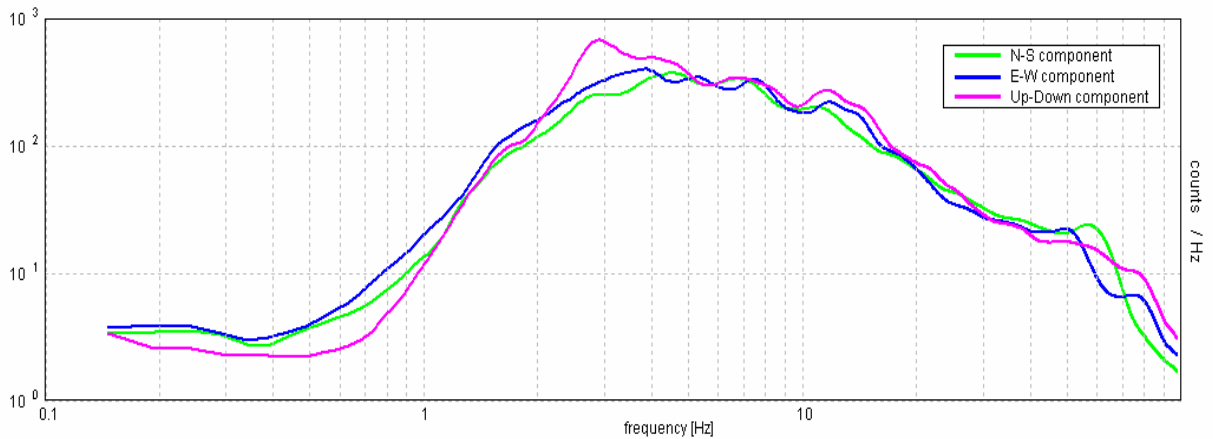
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

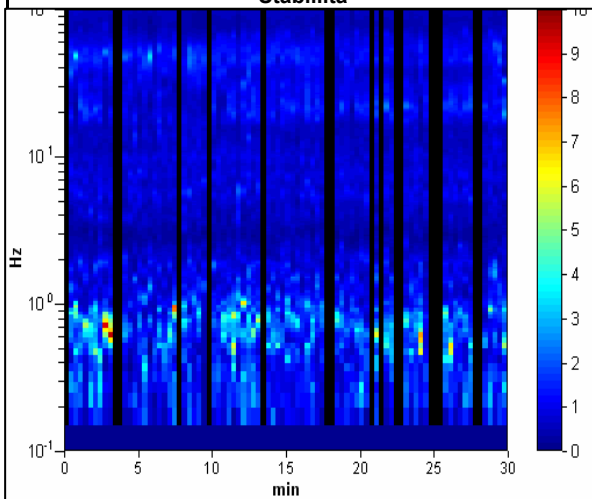
Max. HV at 0.68 ± 0.04 Hz. (In the range 0.0 - 30.0 Hz).



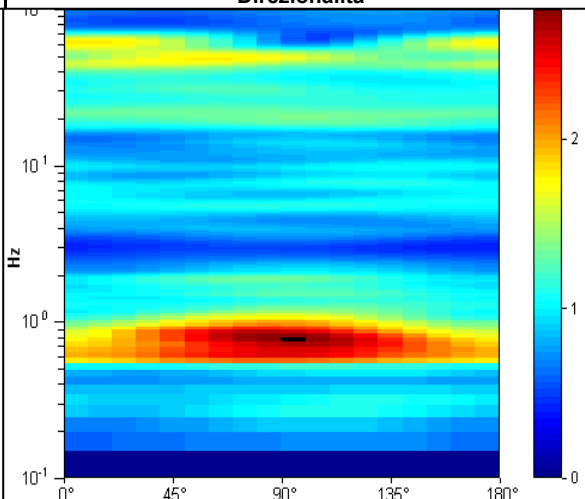
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H24
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LOCALITA': Campogalliano (MO)	COMMITTENTE: Amm. Comun. Campogalliano
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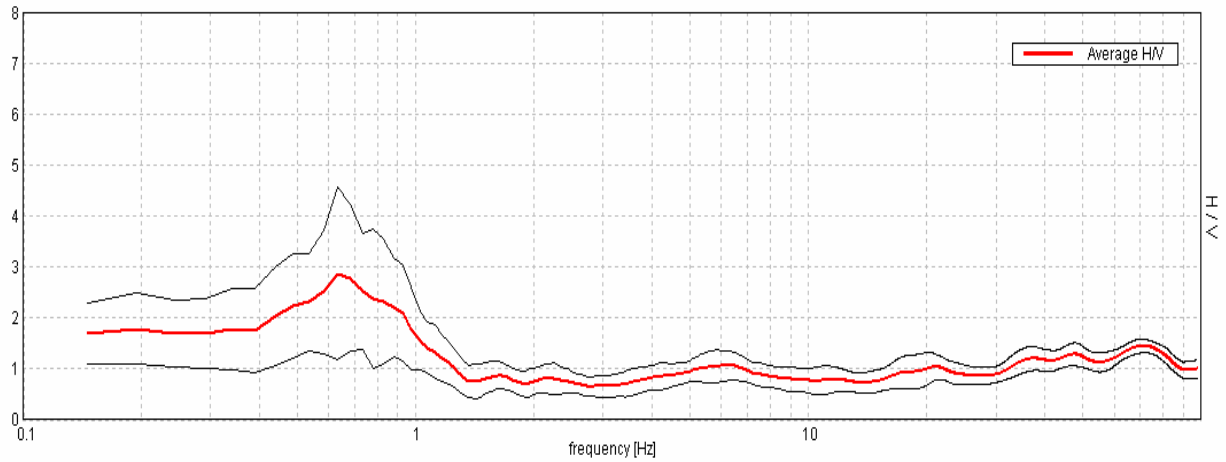
DATA: 28-02-2013	CANTIERE: Microzonazione sismica 2013
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QUOTA: 35 m slm	OPERATORI: Mazzetti M. - Arbizzi A.
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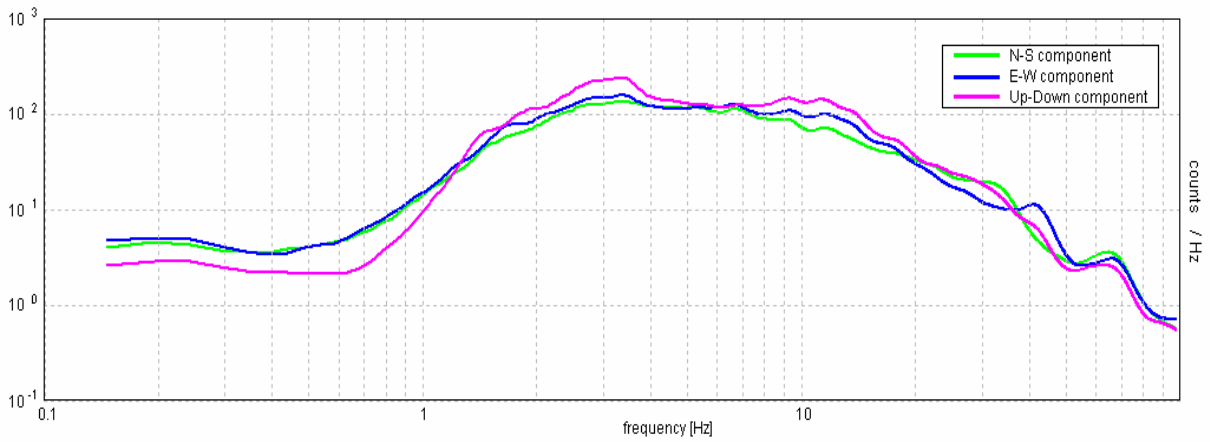
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

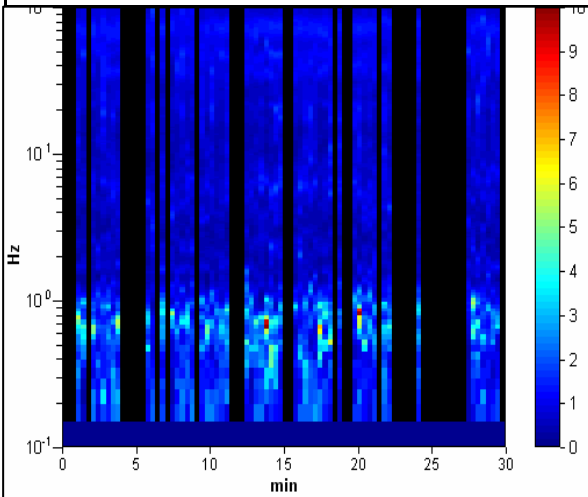
Max. HV at 0.63 ± 0.02 Hz. (In the range 0.0 - 30.0 Hz).



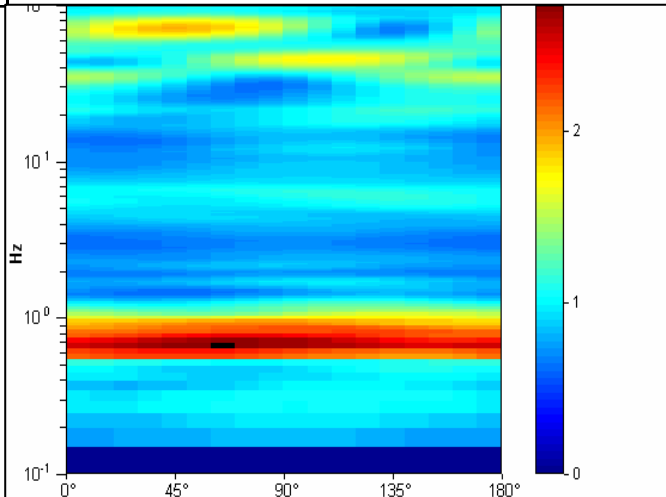
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H25

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 28-02-2013

CANTIERE: Microzonazione sismica 2013

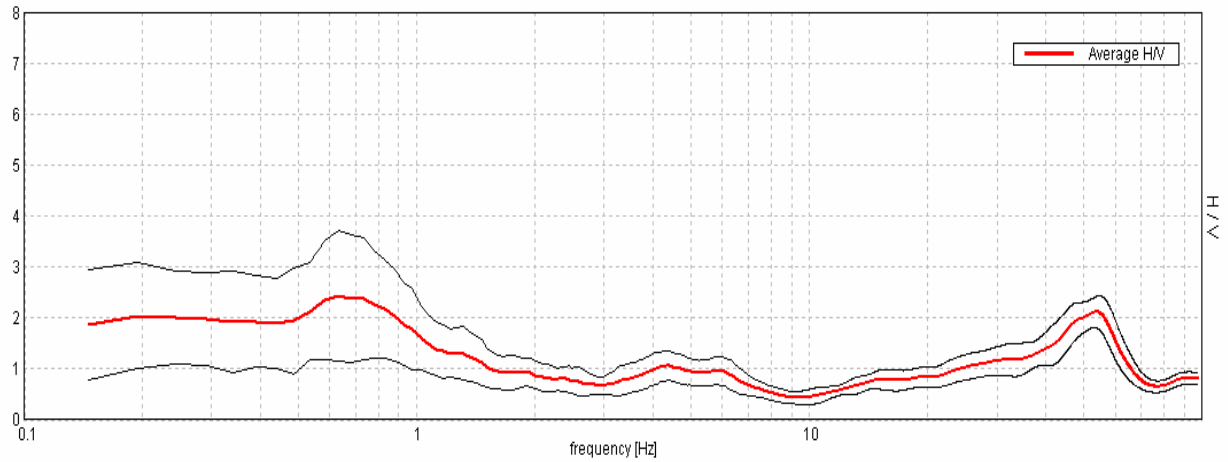
QUOTA: 35 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

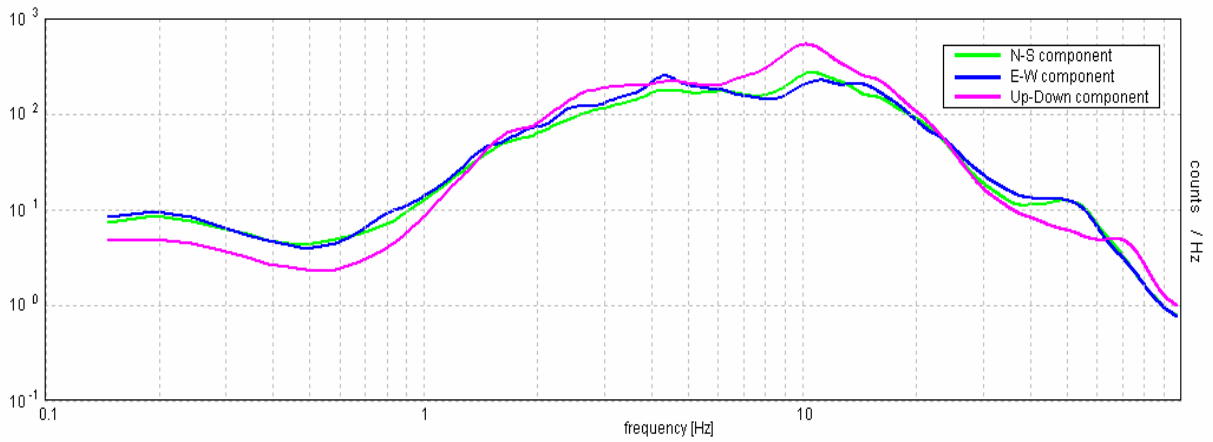
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

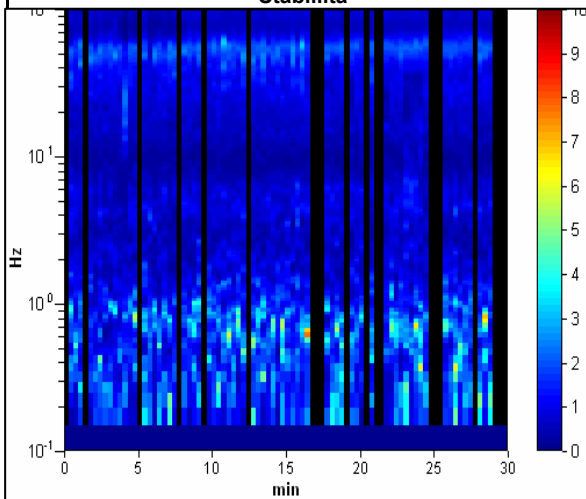
Max. HV at 0.63 ± 0.17 Hz. (In the range 0.0 - 30.0 Hz).



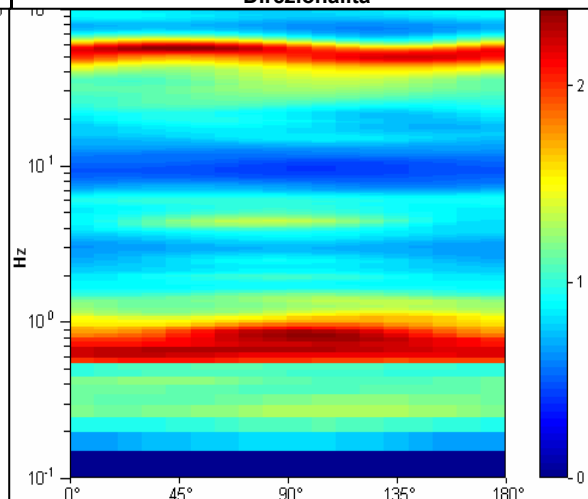
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H26

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

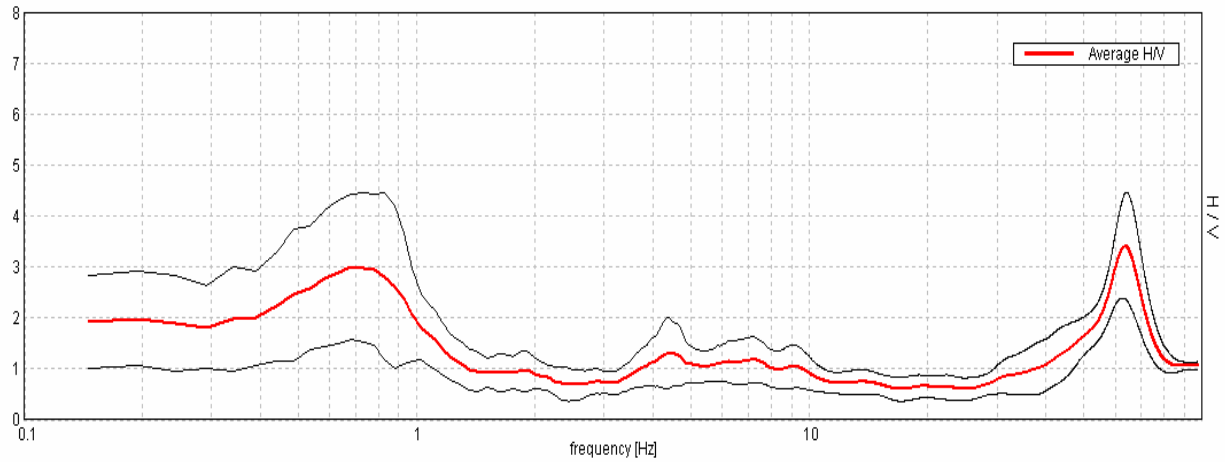
QUOTA: 34 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

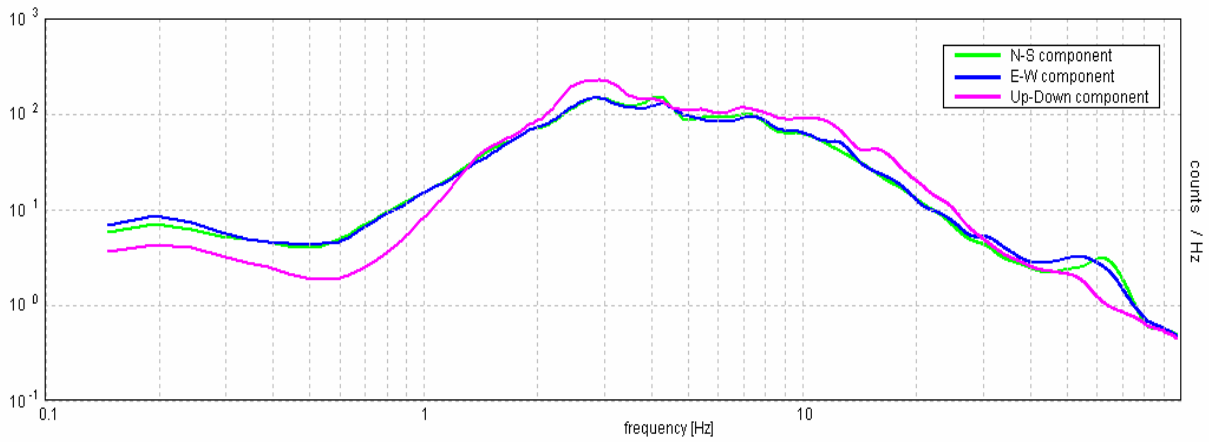
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

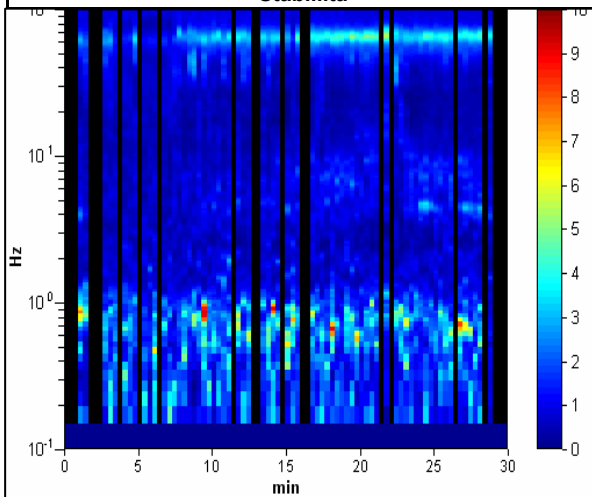
Max. HV at 0.68 ± 0.1 Hz. (In the range 0.0 - 30.0 Hz).



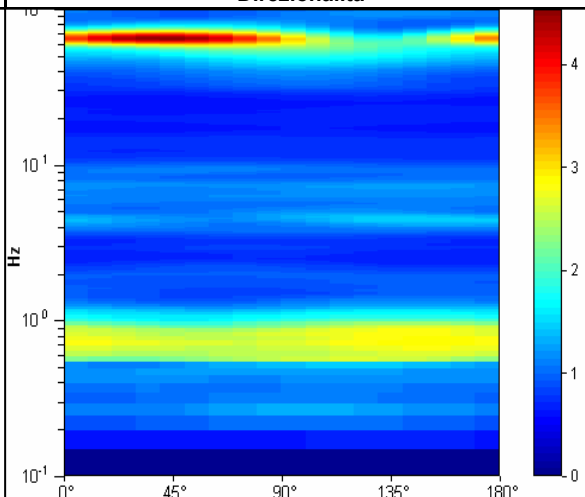
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H27

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

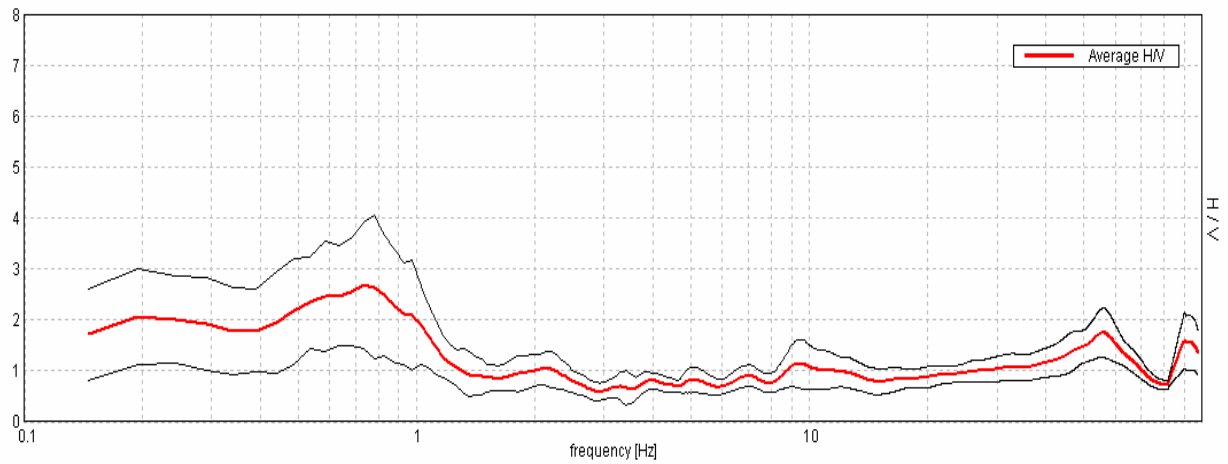
QUOTA: 36 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

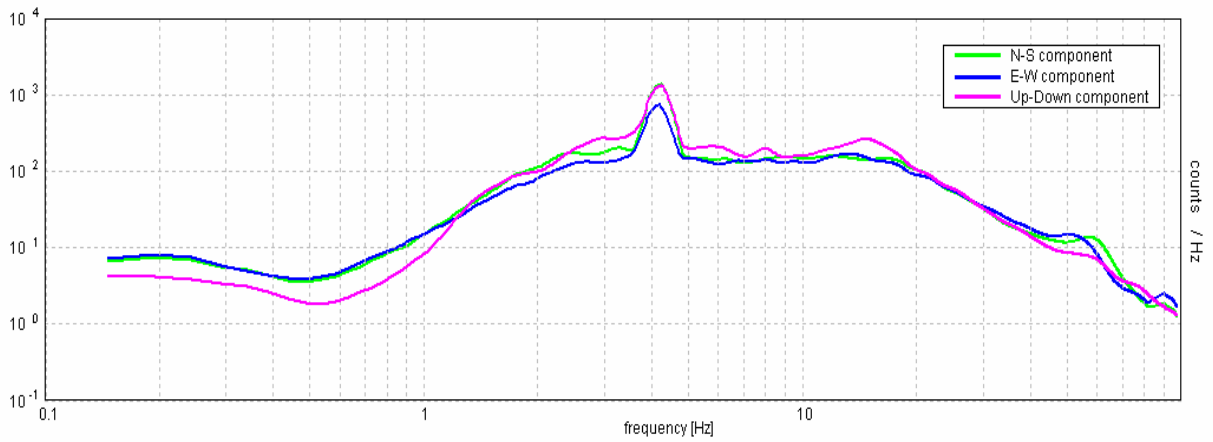
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

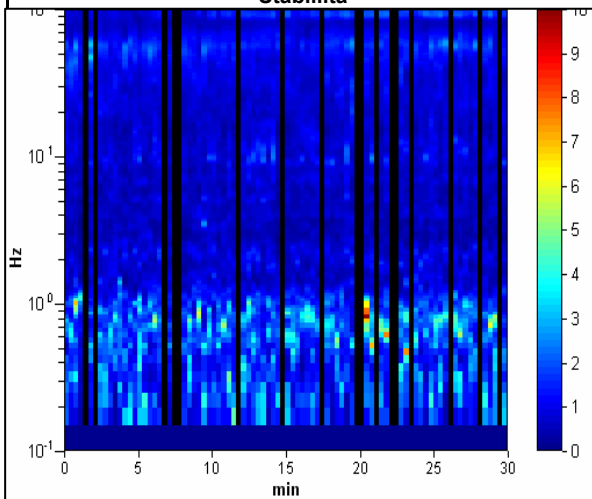
Max. HV at 0.73 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



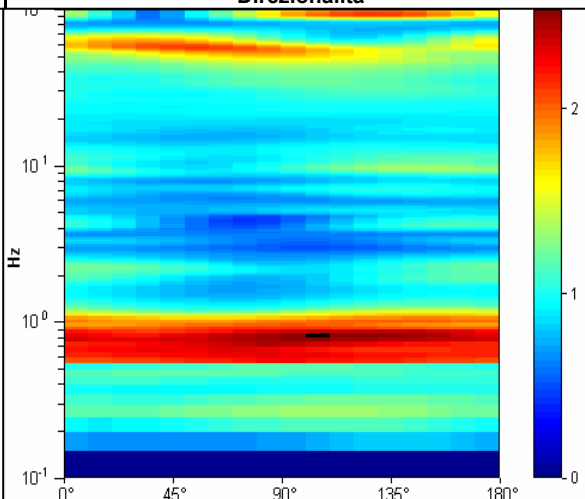
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H28

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

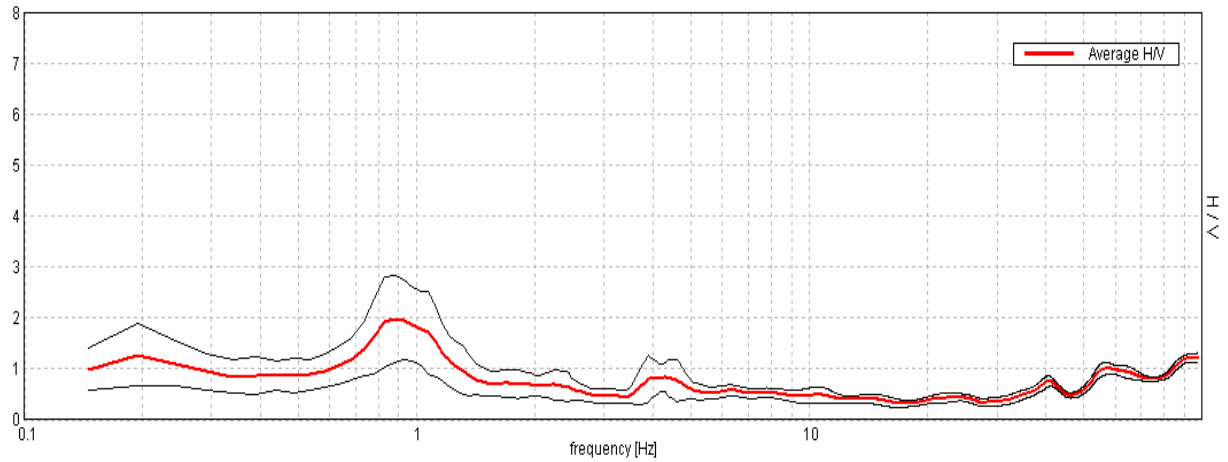
QUOTA: 38 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

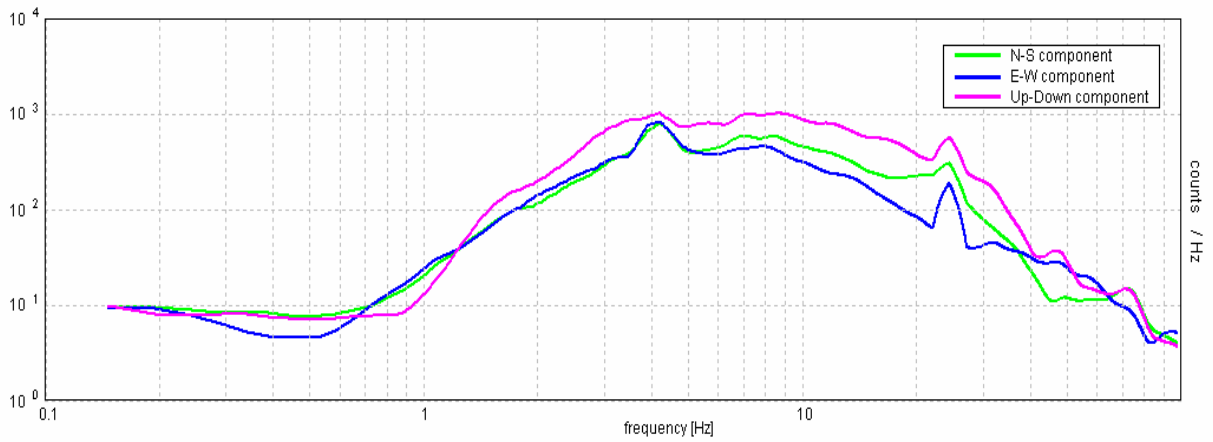
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

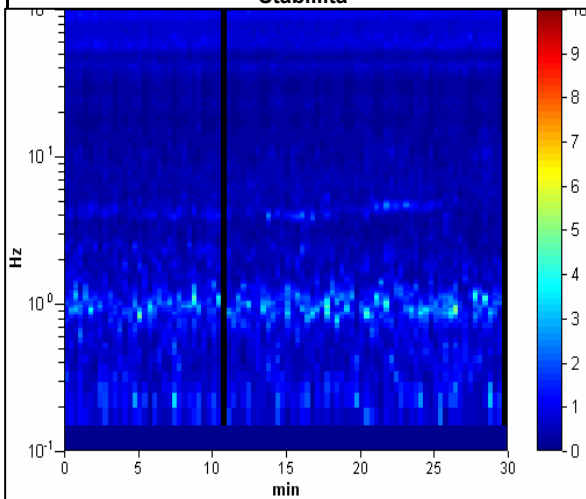
Max. HV at 0.88 ± 0.04 Hz. (In the range 0.0 - 30.0 Hz).



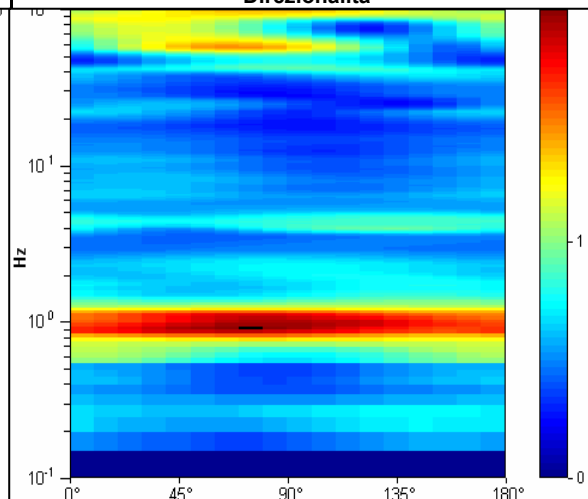
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H29

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

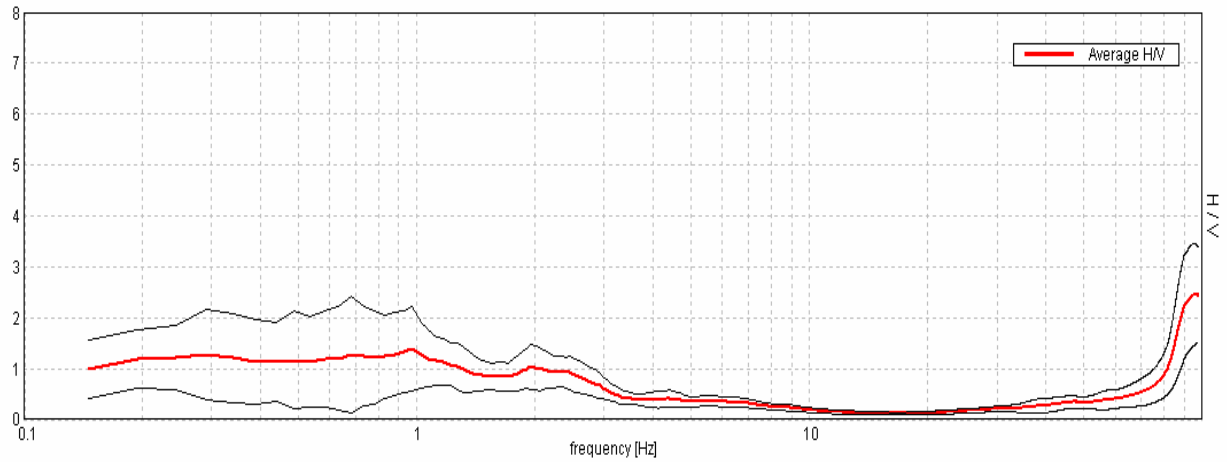
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

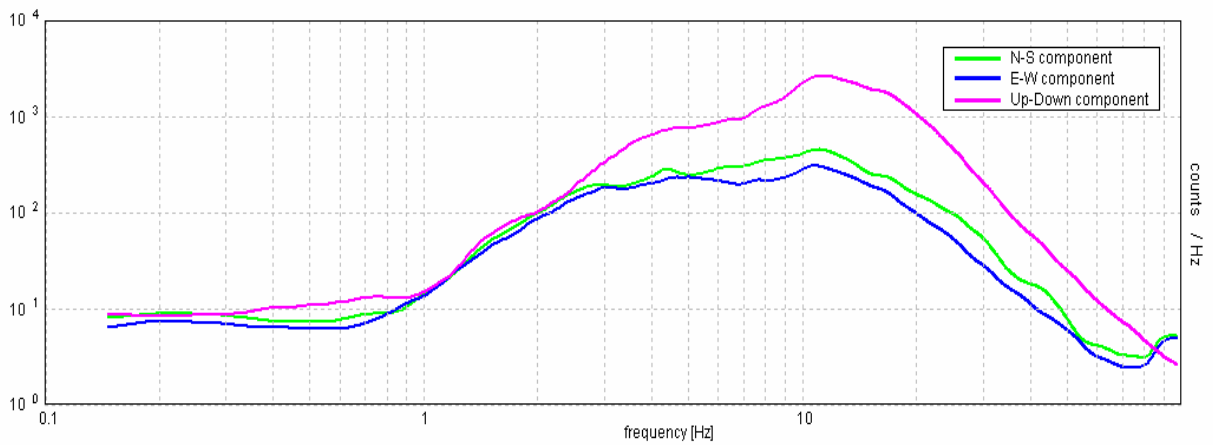
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

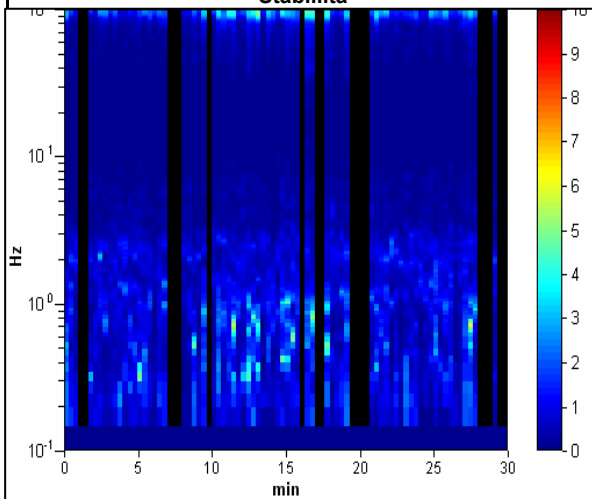
Max. HV at 0.98 ± 0.55 Hz. (In the range 0.0 - 30.0 Hz).



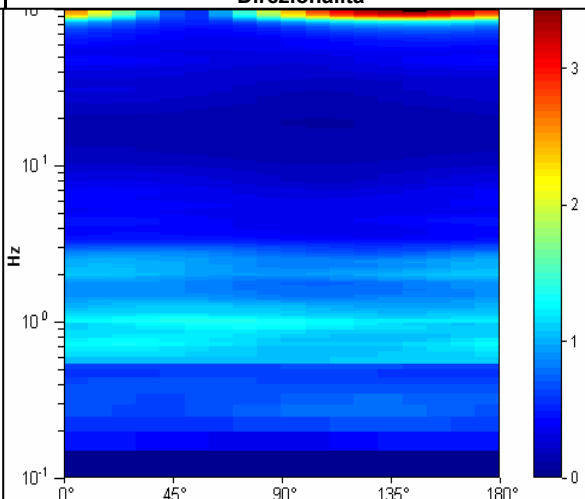
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H30

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

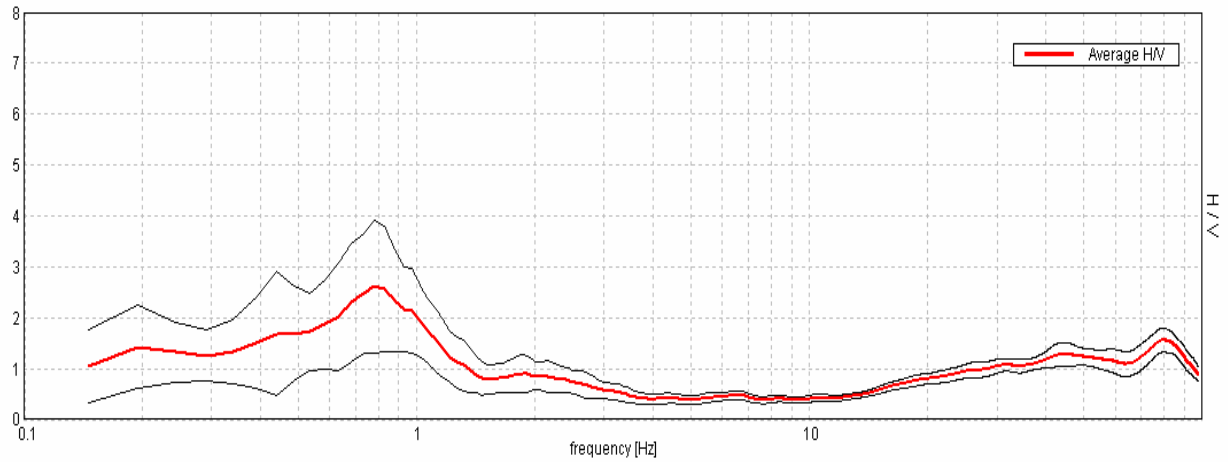
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

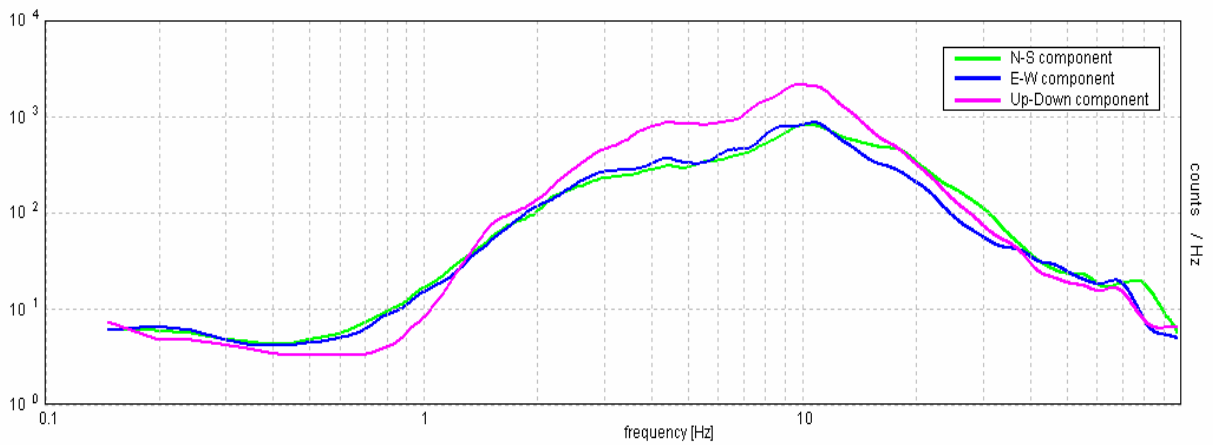
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

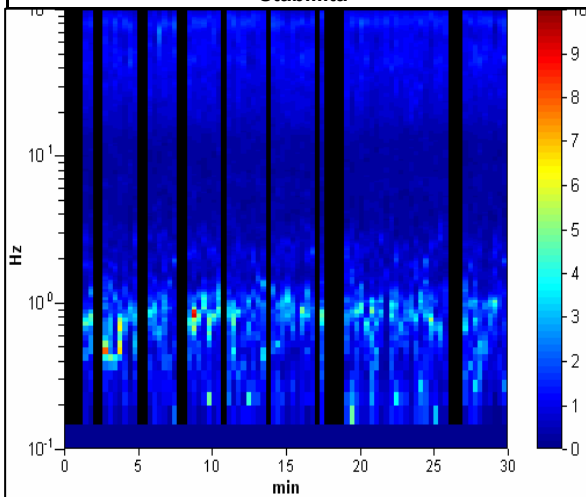
Max. HV at 0.78 ± 0.1 Hz. (In the range 0.0 - 30.0 Hz).



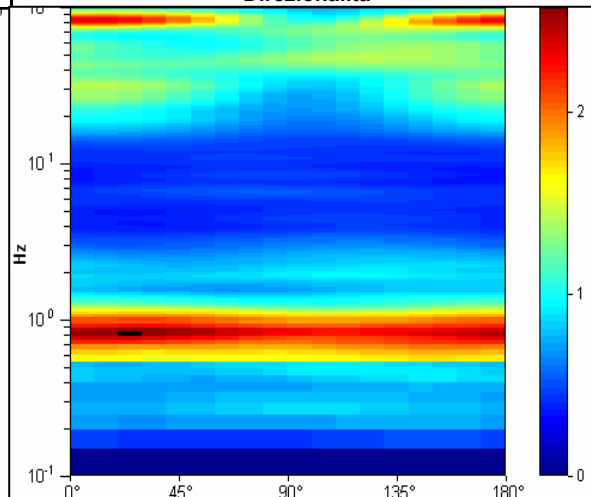
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H31

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

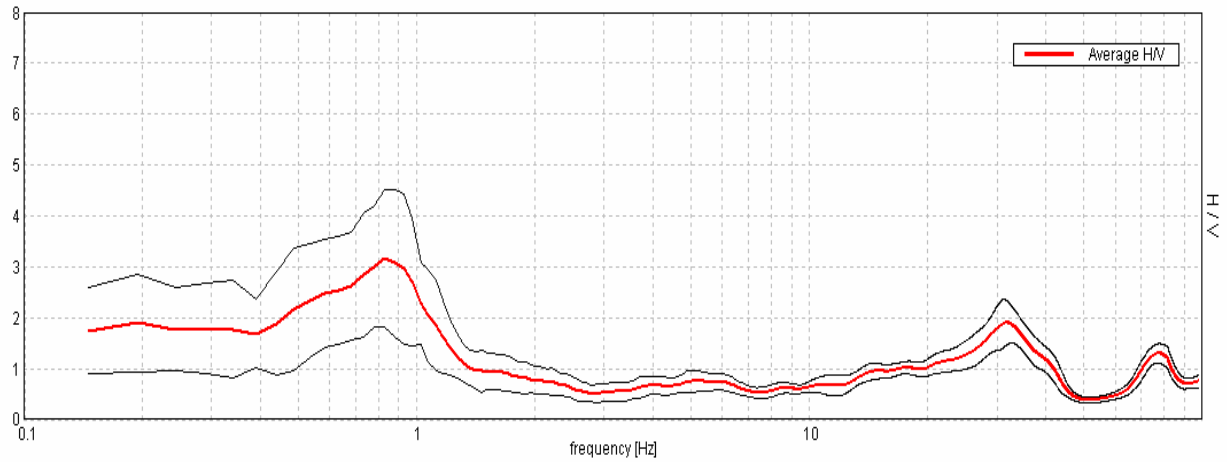
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

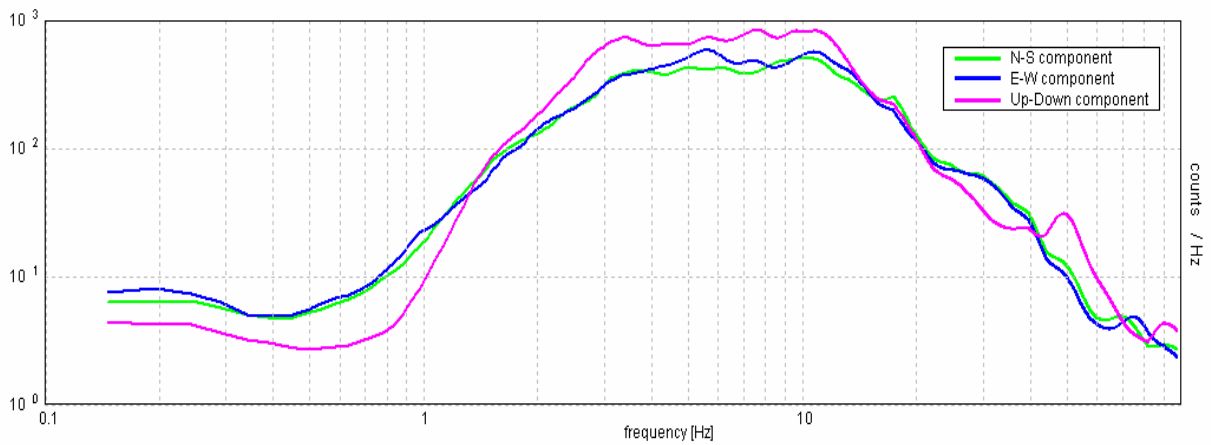
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

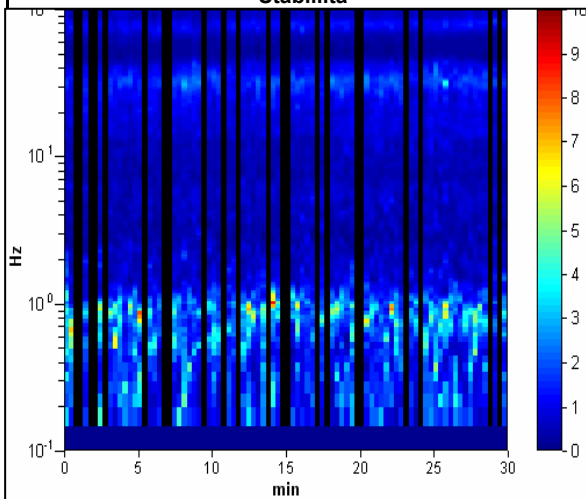
Max. HV at 0.83 ± 0.05 Hz. (In the range 0.0 - 30.0 Hz).



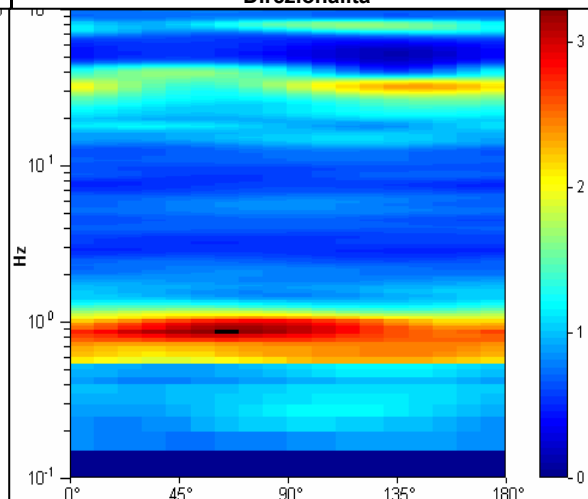
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H32

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 11-03-2013

CANTIERE: Microzonazione sismica 2013

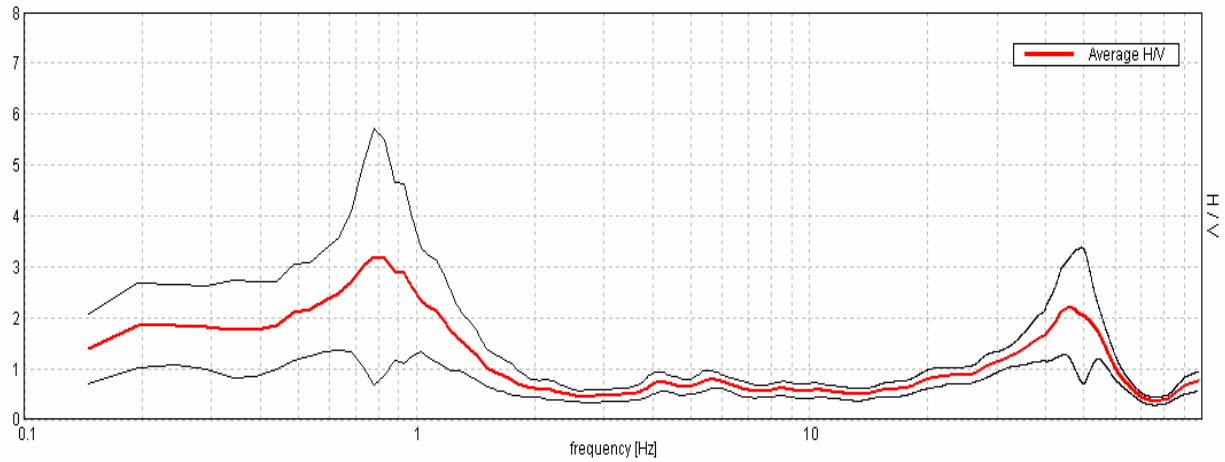
QUOTA: 42 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

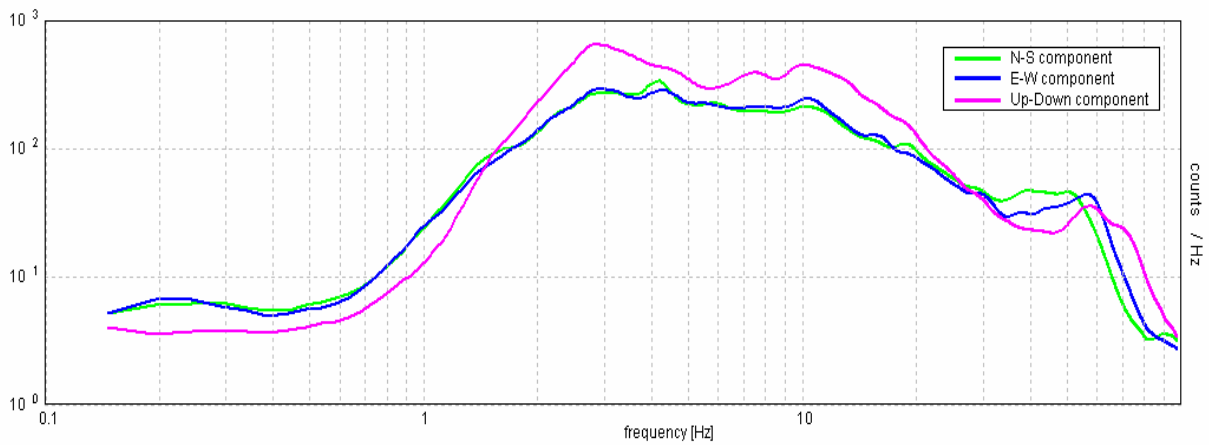
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

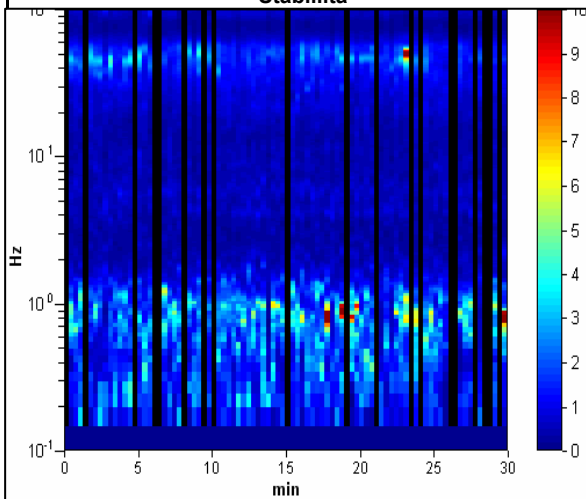
Max. HV at 0.78 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



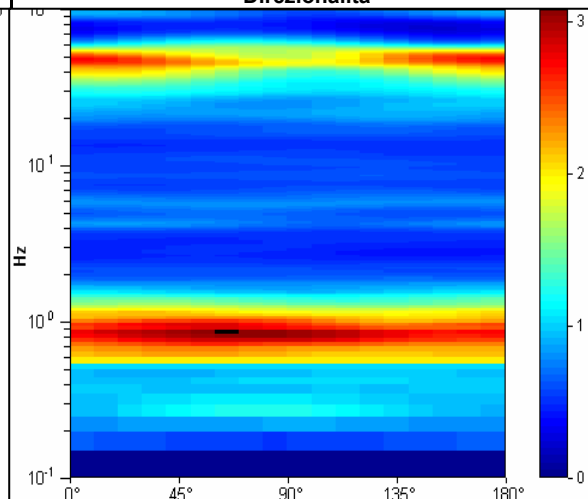
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H33

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

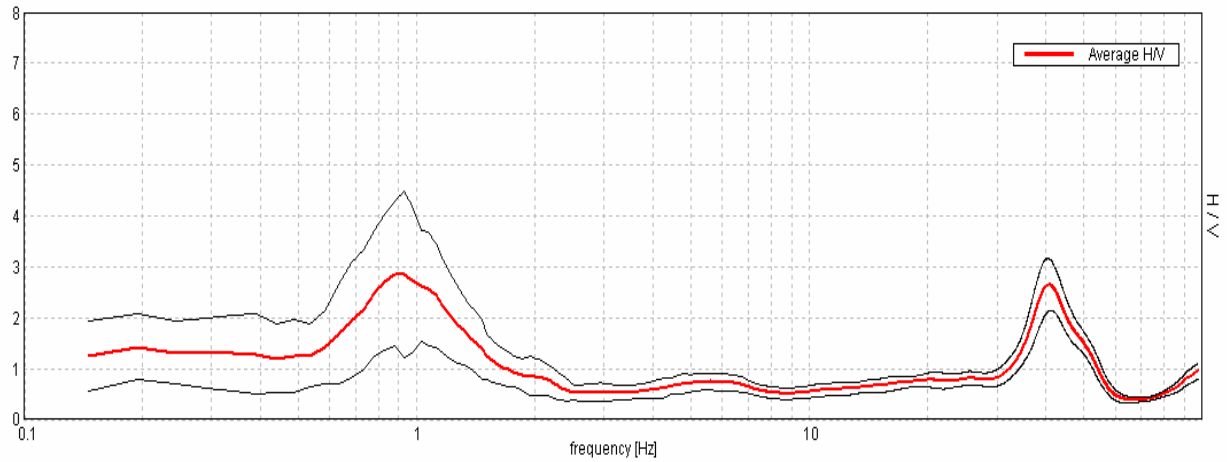
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

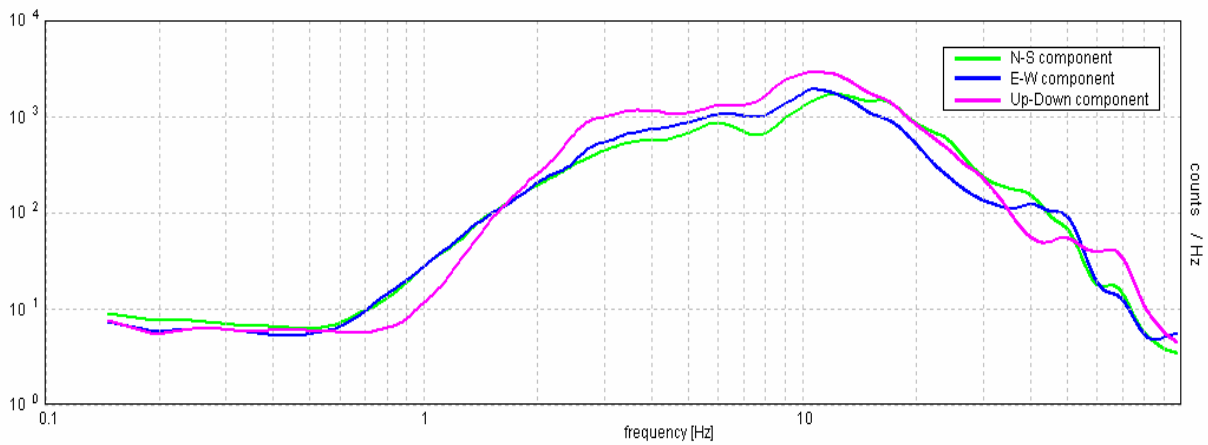
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

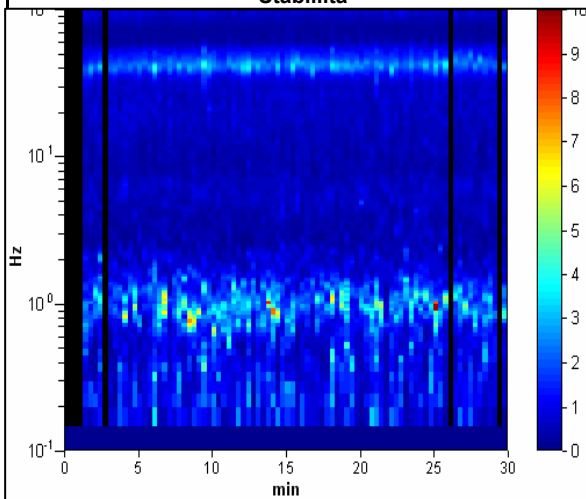
Max. HV at 0.88 ± 0.09 Hz. (In the range 0.0 - 30.0 Hz).



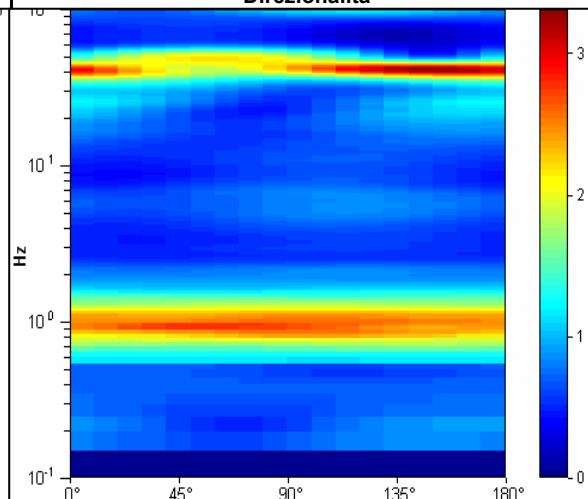
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H34

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

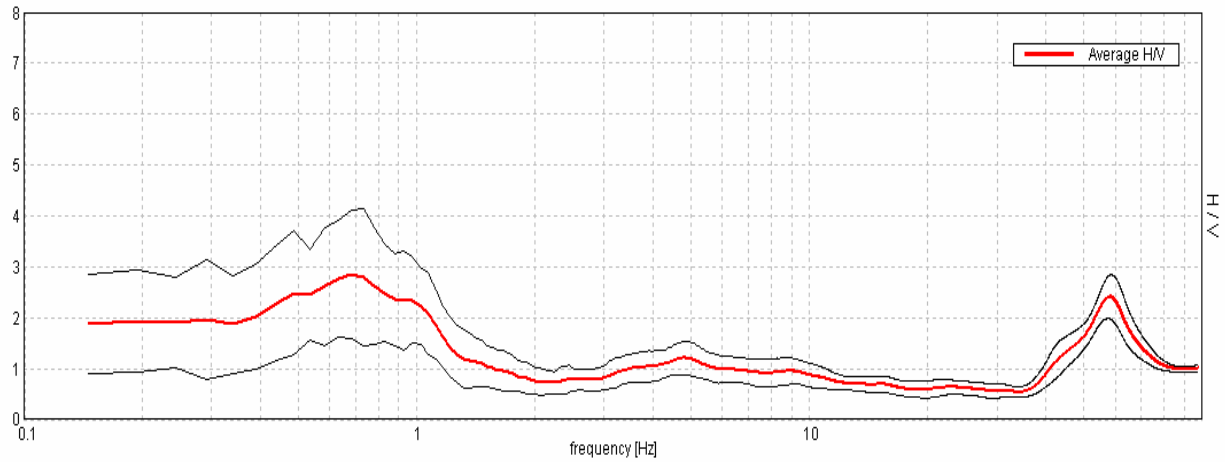
QUOTA: 37 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

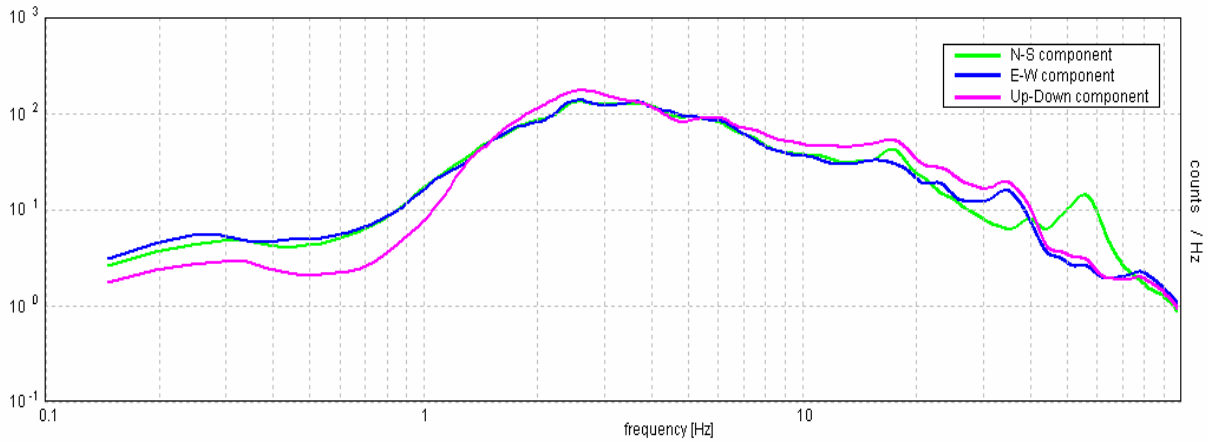
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

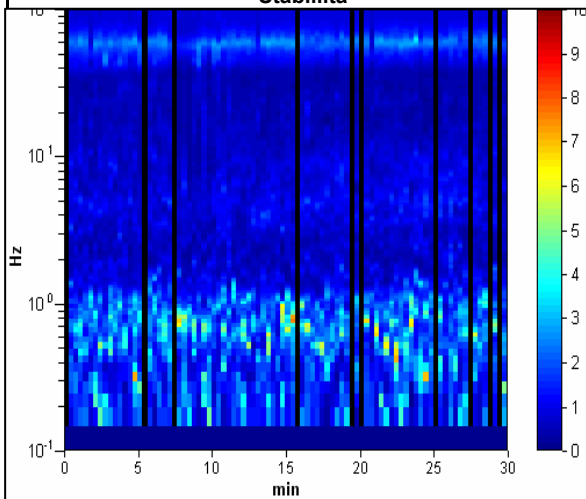
Max. HV at 0.68 ± 0.05 Hz. (In the range 0.0 - 30.0 Hz).



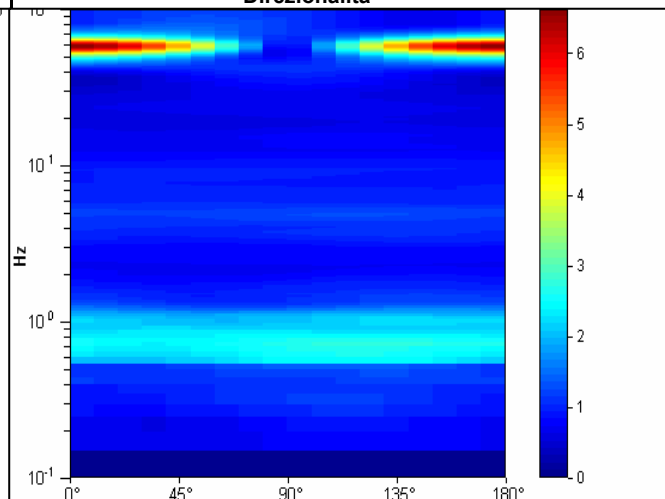
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H35

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

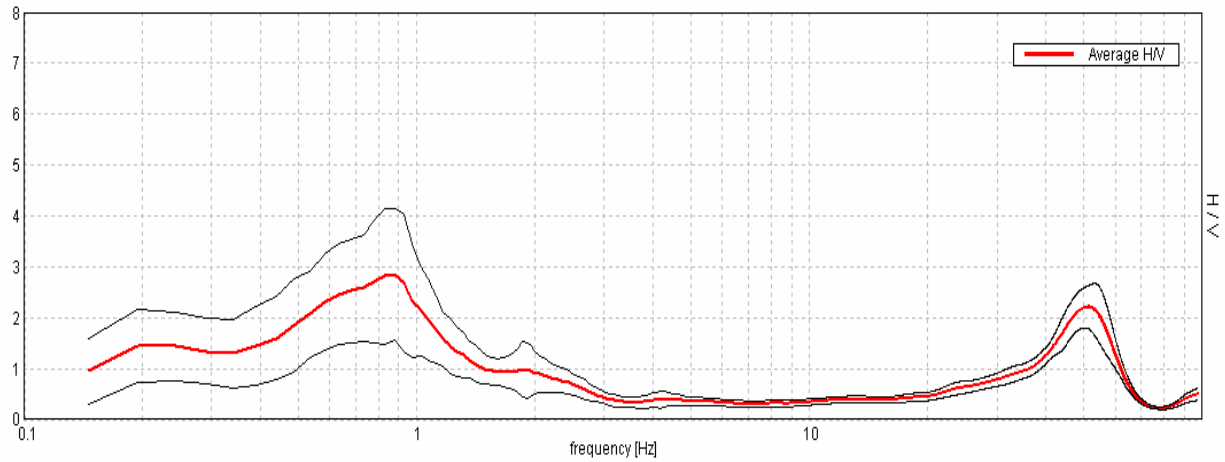
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

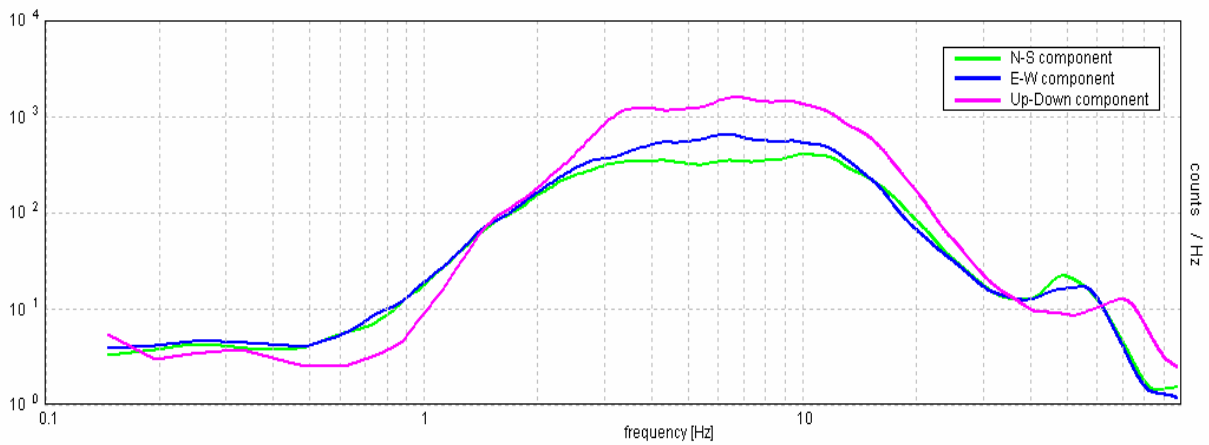
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

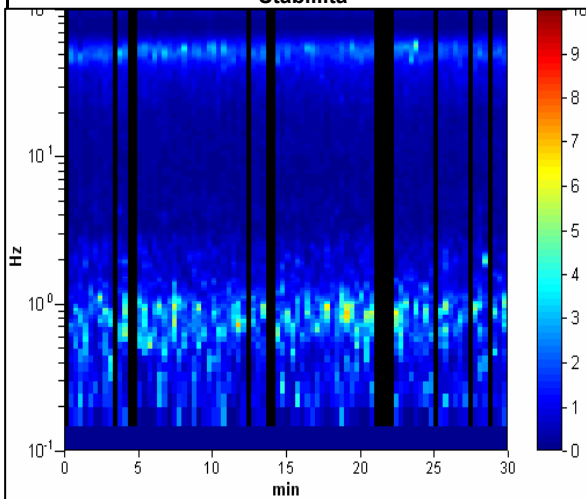
Max. HV at 0.88 ± 0.05 Hz. (In the range 0.0 - 30.0 Hz).



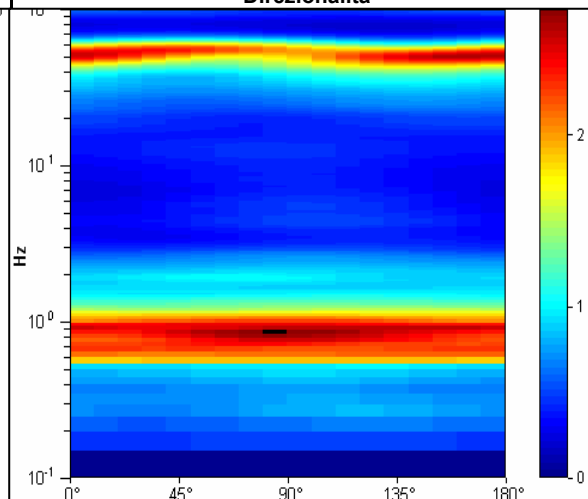
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H36

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

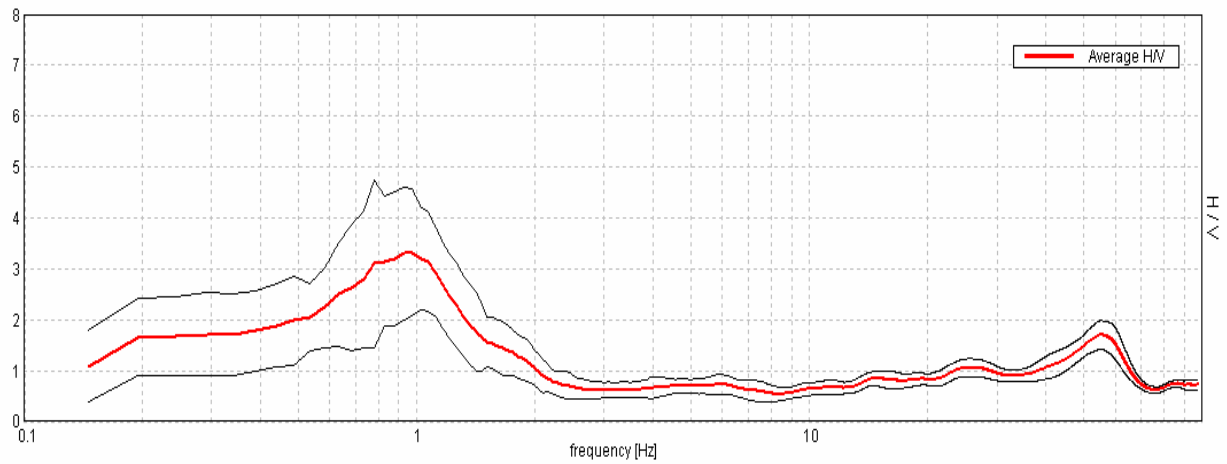
QUOTA: 40 m slm

OPERATORI: Mazzetti M. - Arbizzi A.

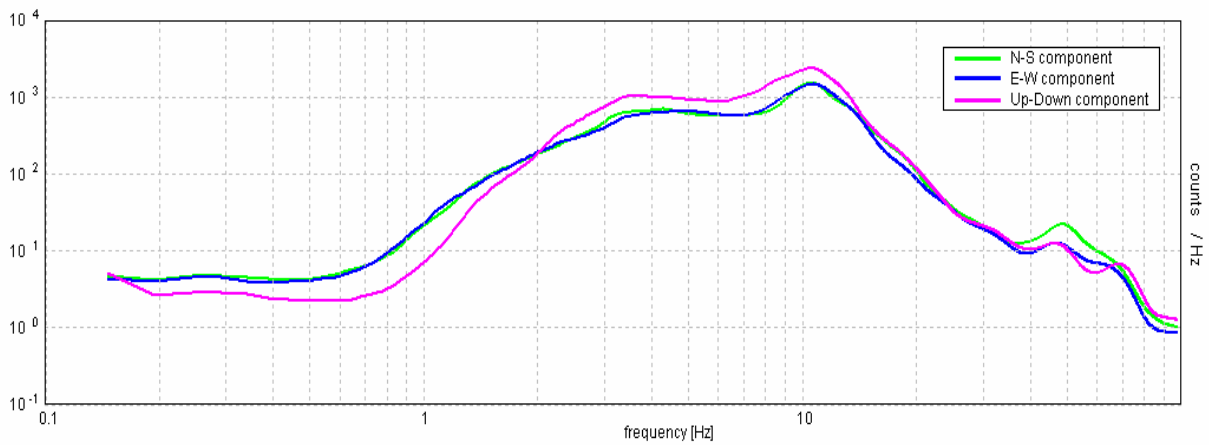
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

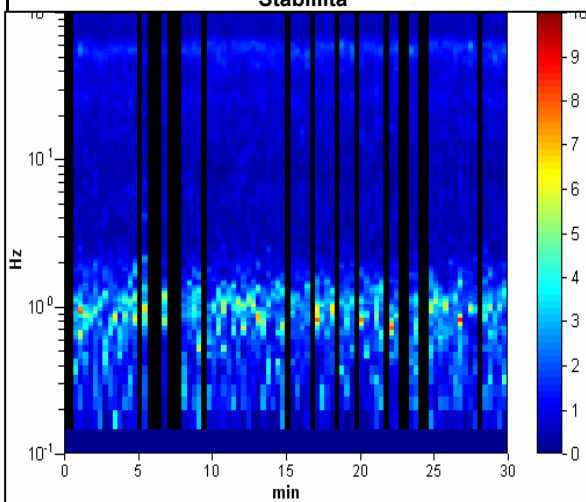
Max. HV at 0.98 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



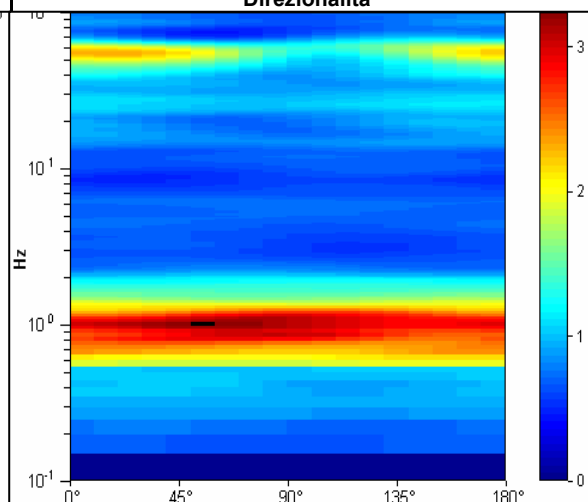
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H37

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

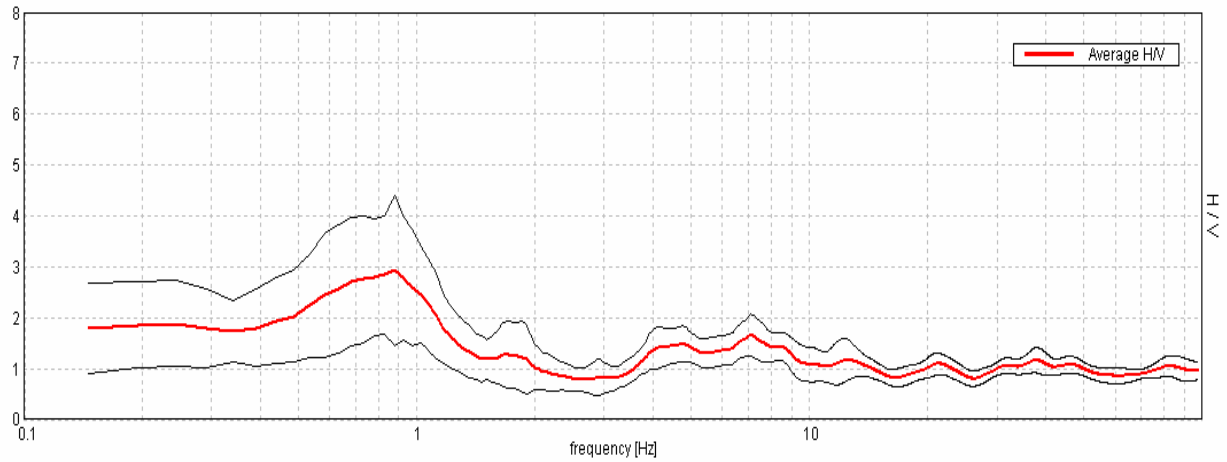
QUOTA: 39 m slm

OPERATORI: Mazzetti M.

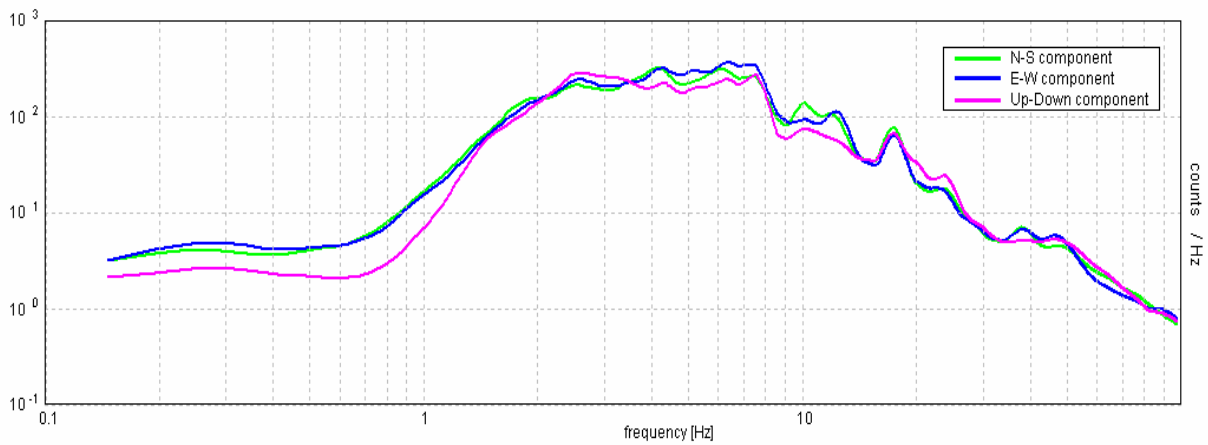
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

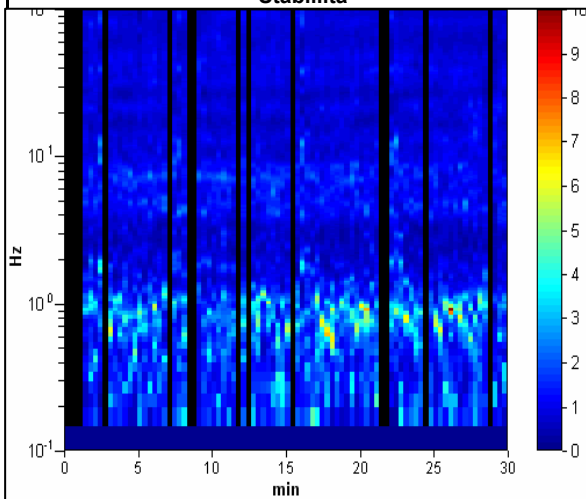
Max. HV at 0.88 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



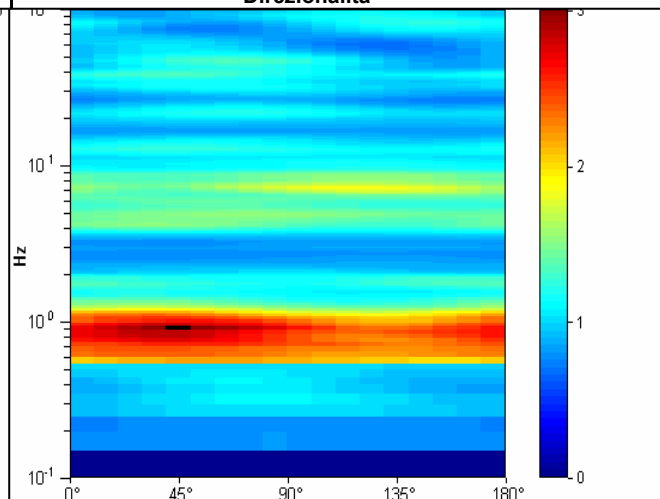
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H38

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

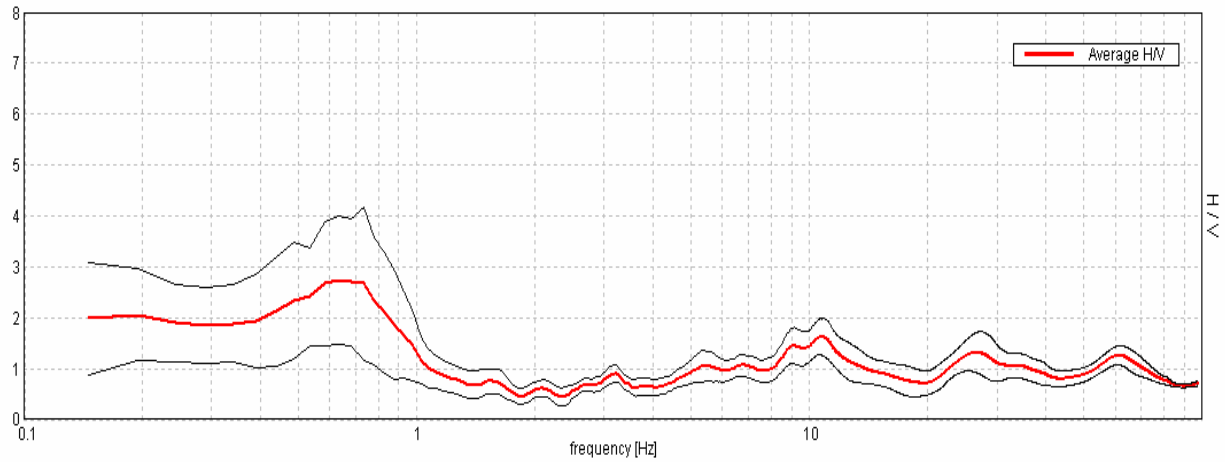
QUOTA: 34 m slm

OPERATORI: Mazzetti M.

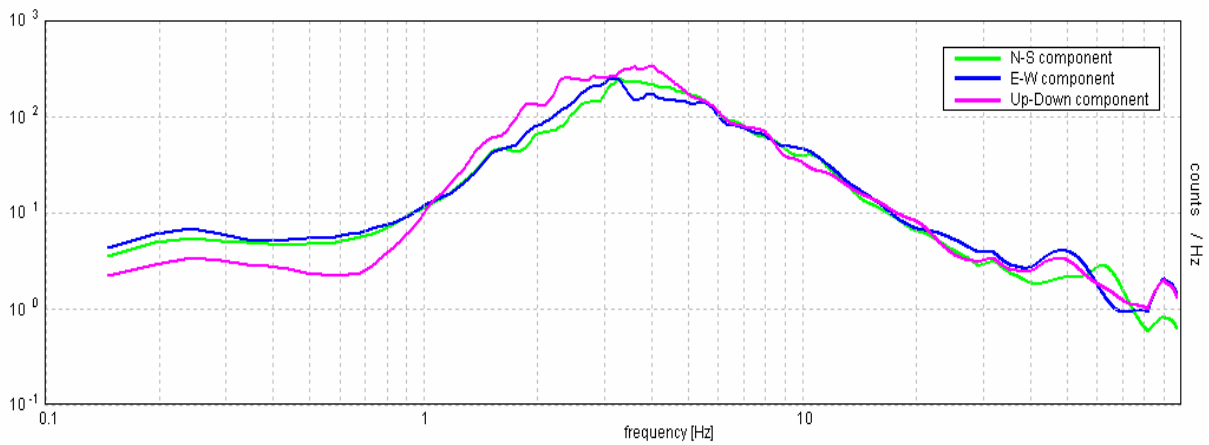
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

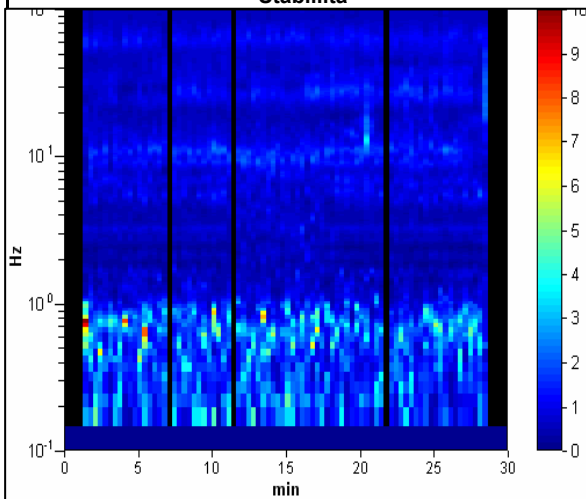
Max. HV at 0.63 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



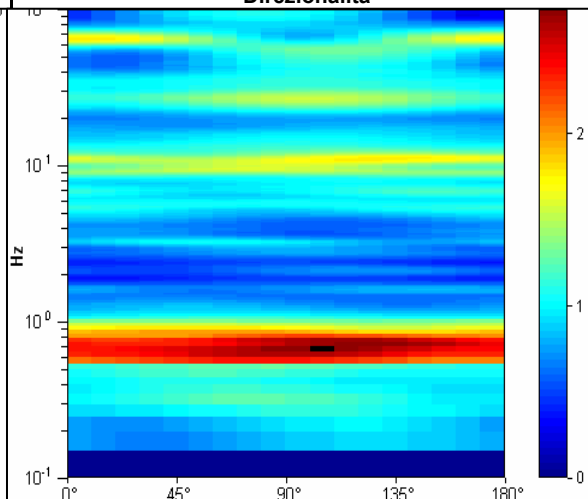
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H39

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

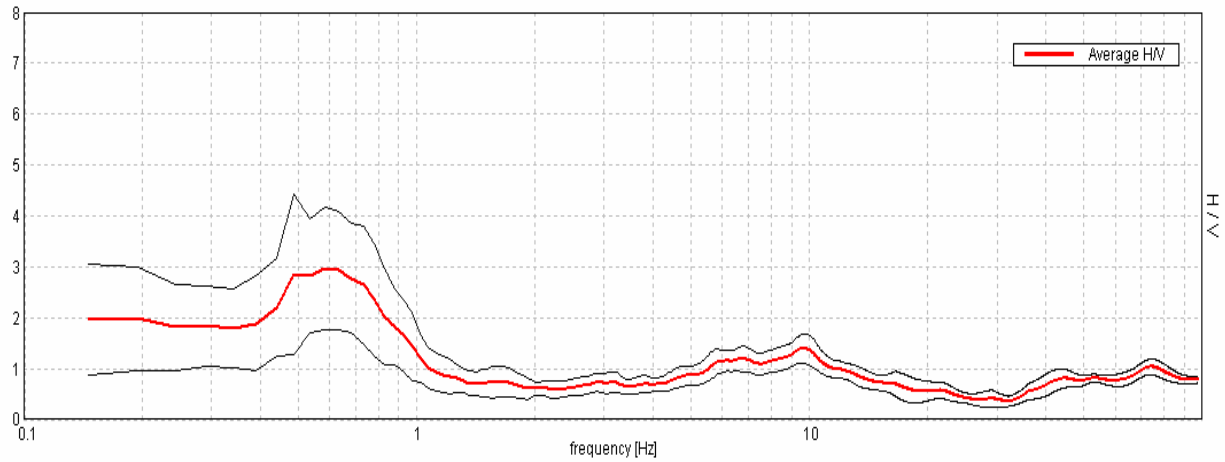
QUOTA: 33,3 m slm

OPERATORI: Mazzetti M.

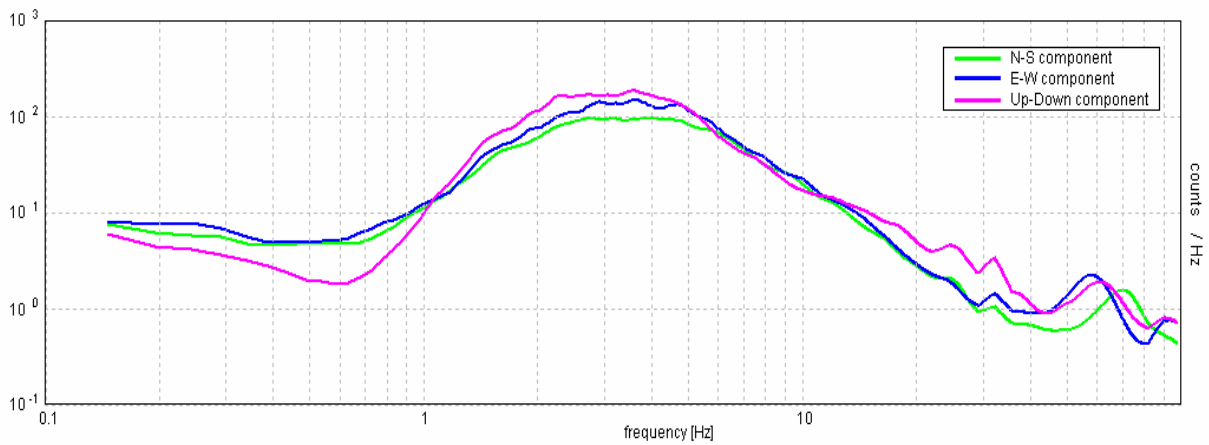
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

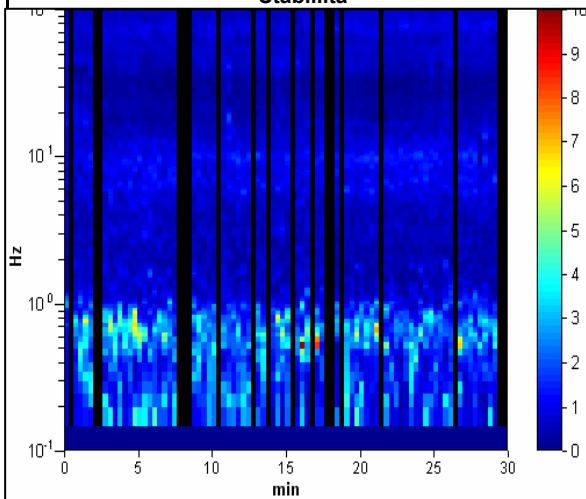
Max. HV at 0.59 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



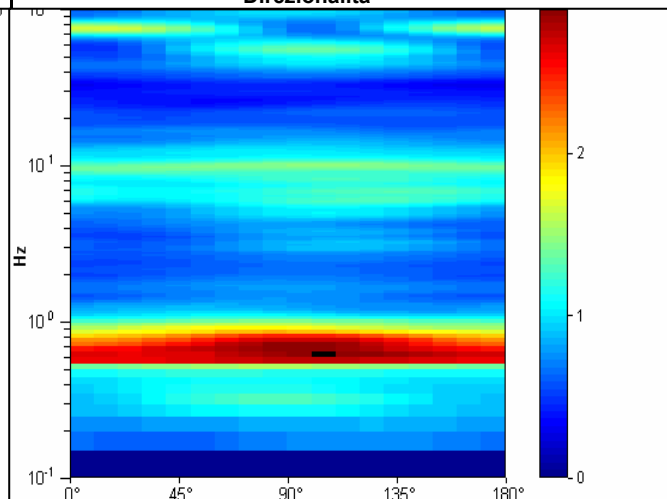
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H40

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

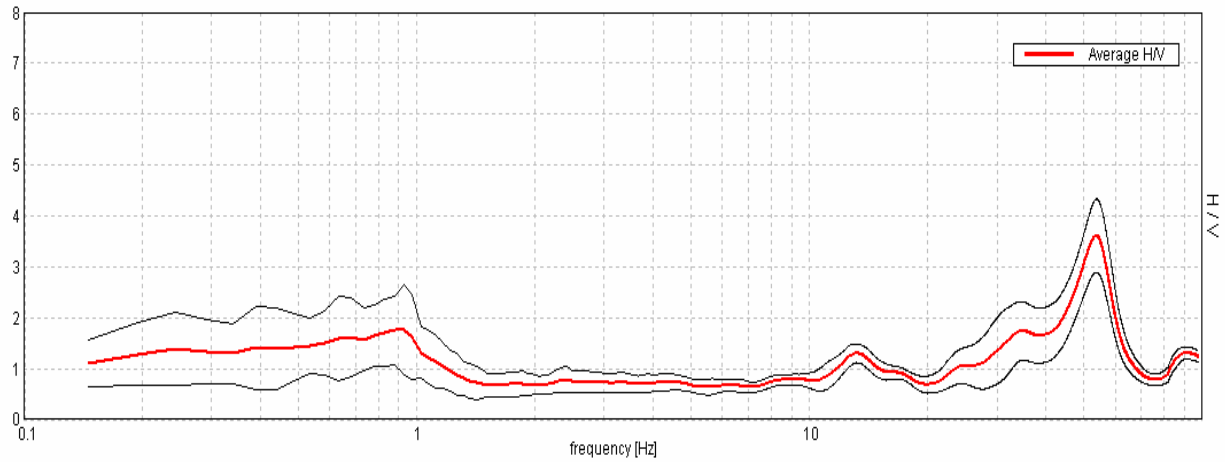
QUOTA: 32,4 m slm

OPERATORI: Mazzetti M.

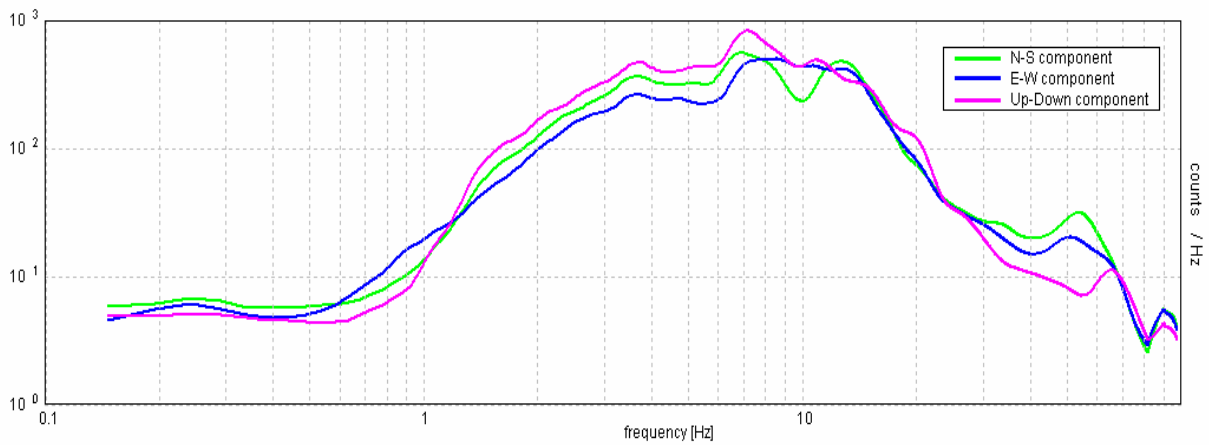
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

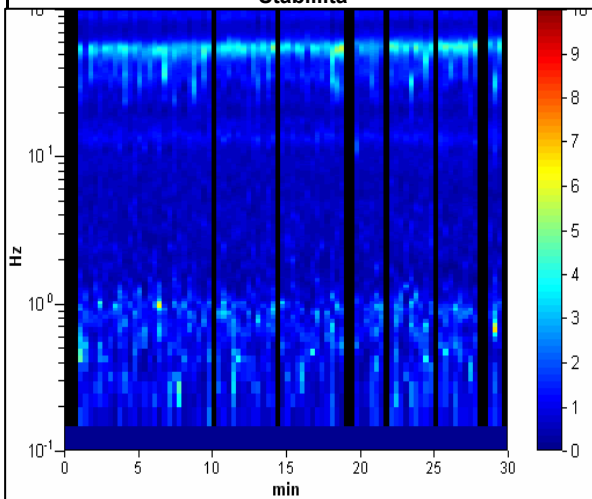
Max. HV at 0.93 ± 0.19 Hz. (In the range 0.0 - 30.0 Hz).



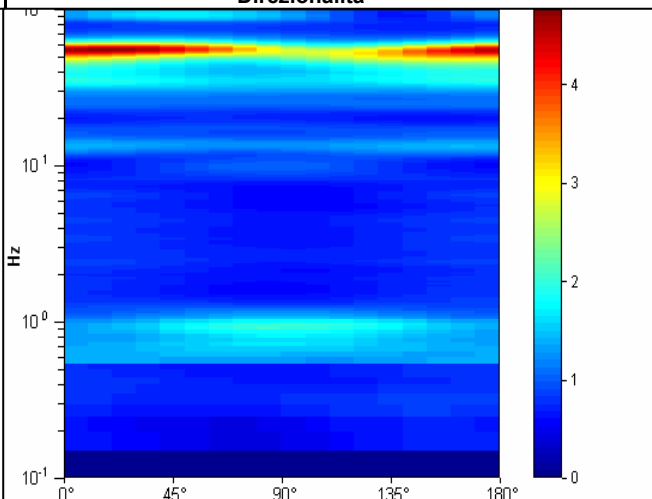
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H41

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 12-03-2013

CANTIERE: Microzonazione sismica 2013

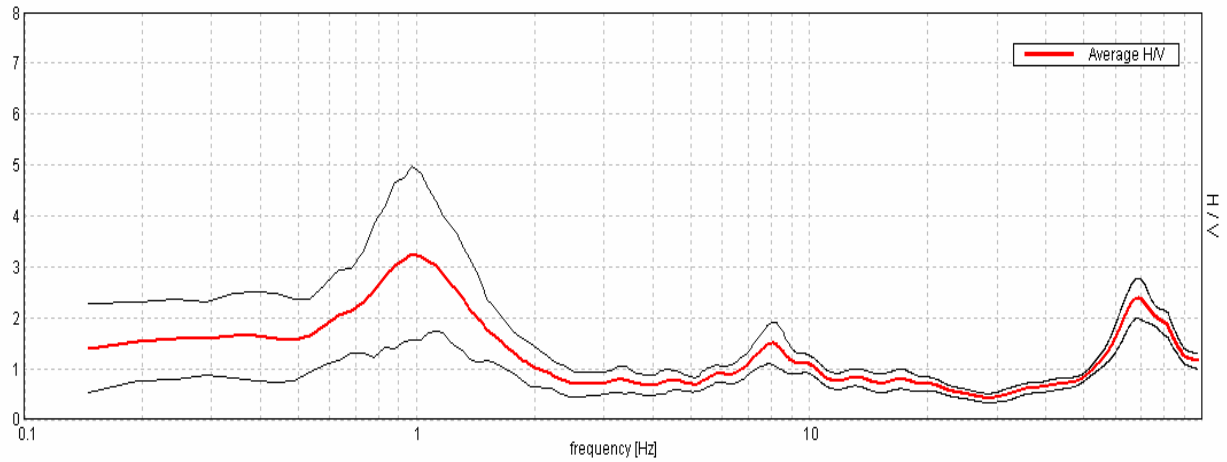
QUOTA: 41 m slm

OPERATORI: Mazzetti M.

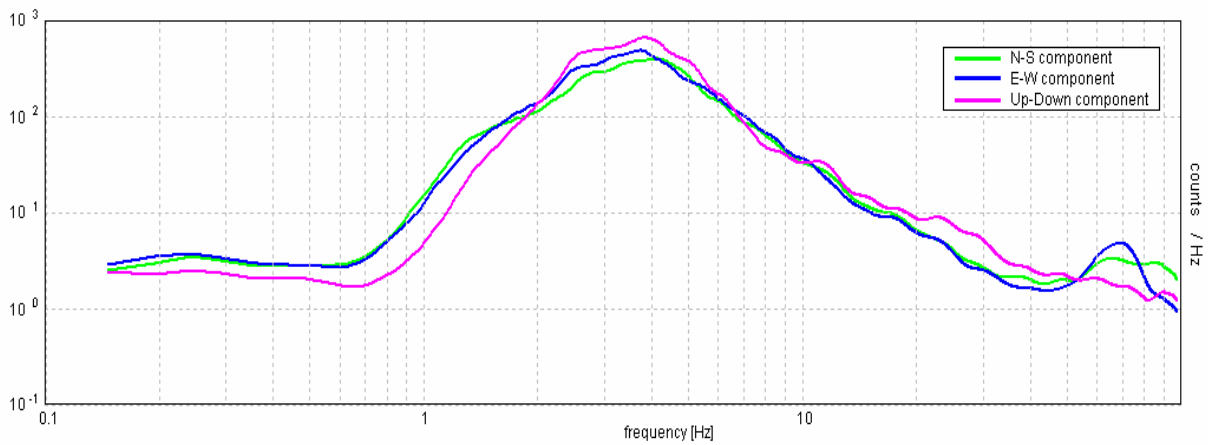
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

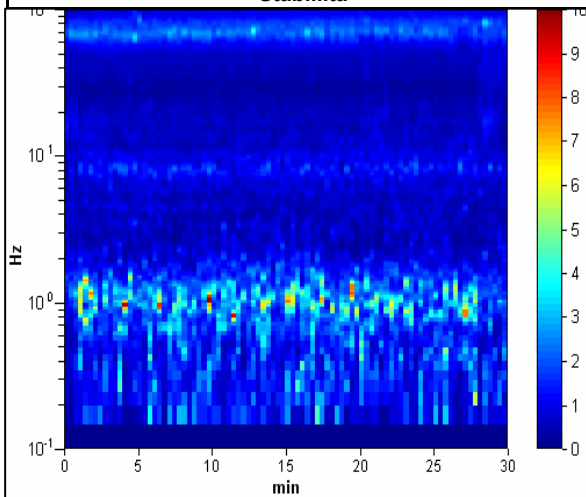
Max. HV at 0.98 ± 0.09 Hz. (In the range 0.0 - 30.0 Hz).



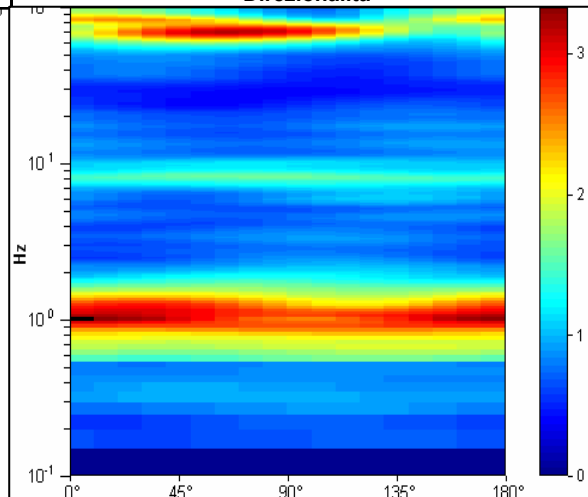
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H42

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

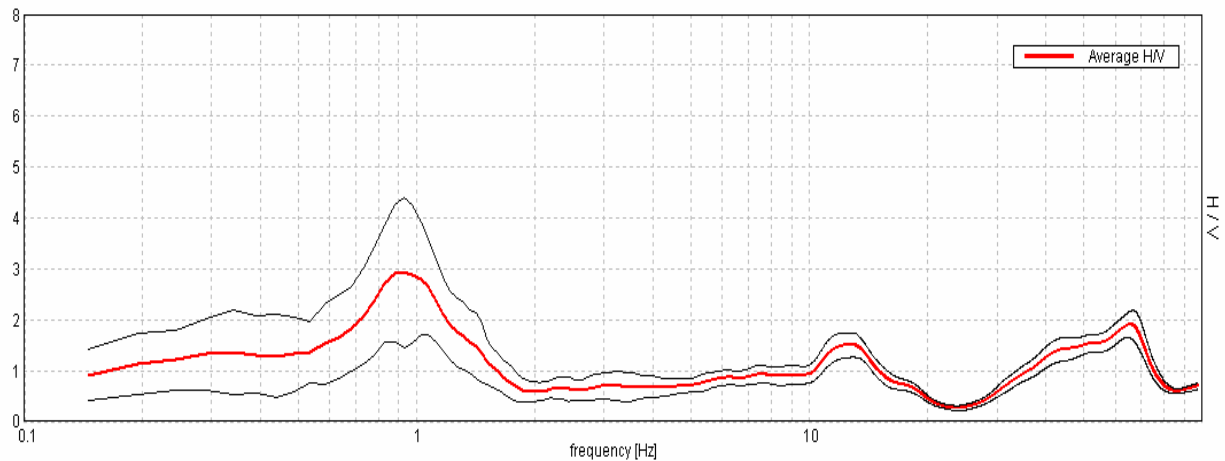
QUOTA: 41 m slm

OPERATORI: Mazzetti M.

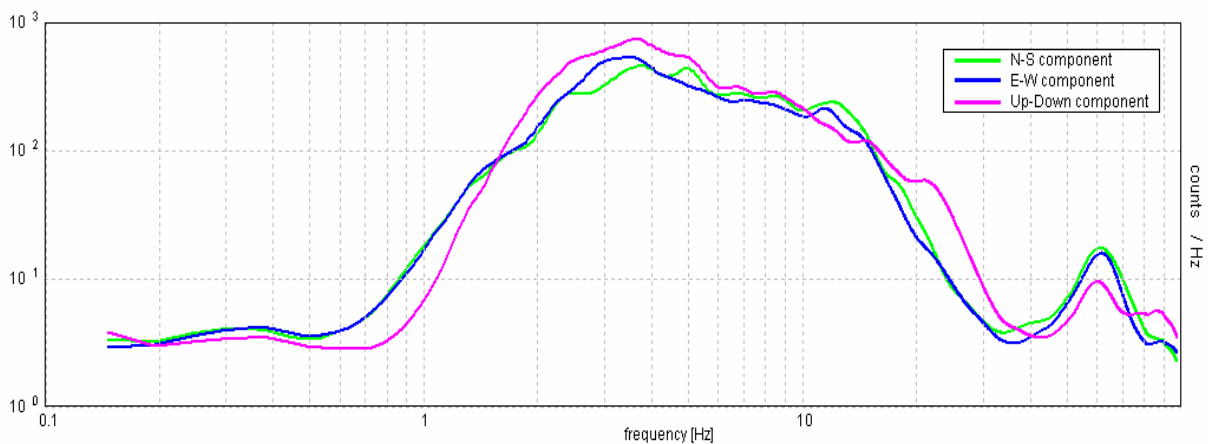
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

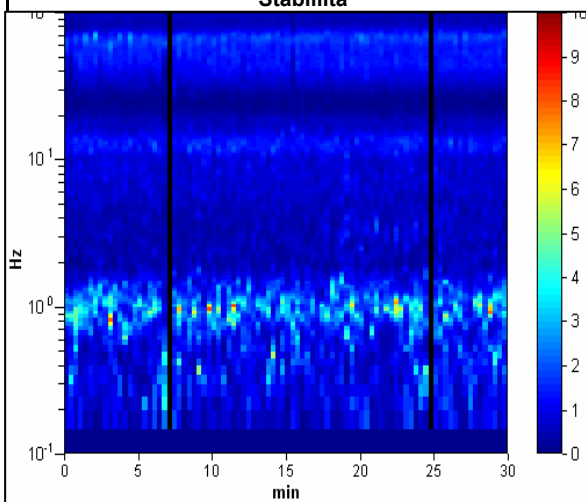
Max. HV at 0.93 ± 0.05 Hz. (In the range 0.0 - 30.0 Hz).



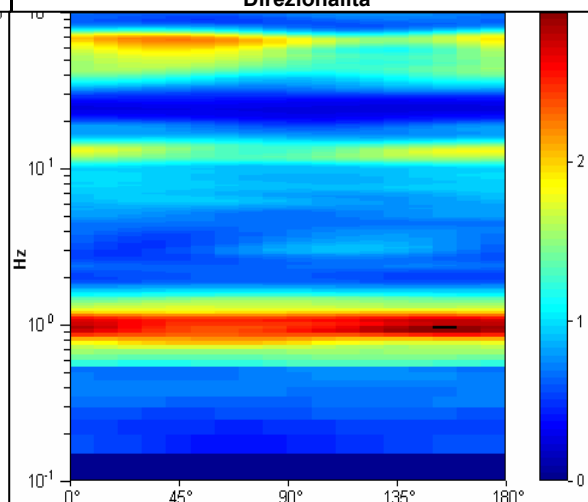
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H43

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

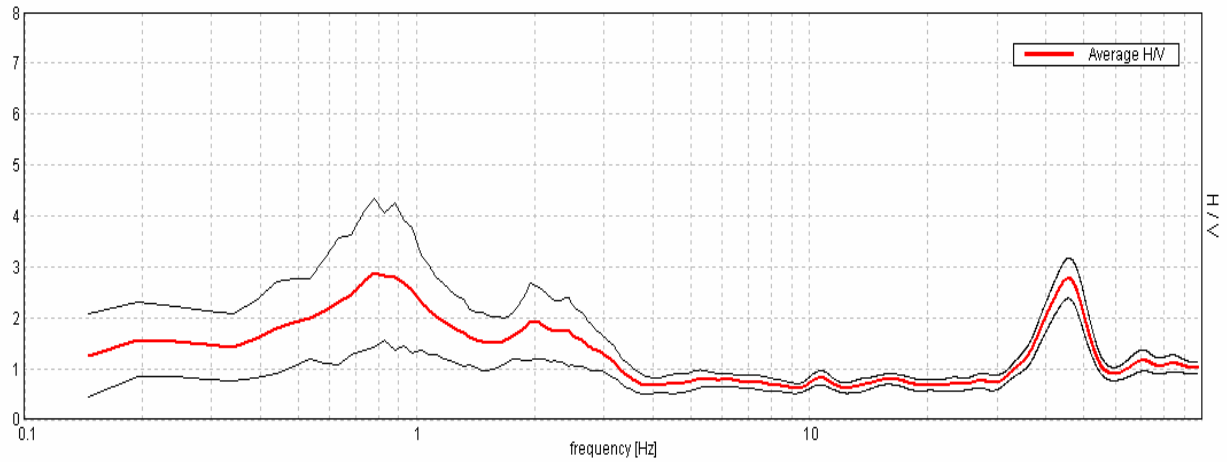
QUOTA: 44 m slm

OPERATORI: Mazzetti M.

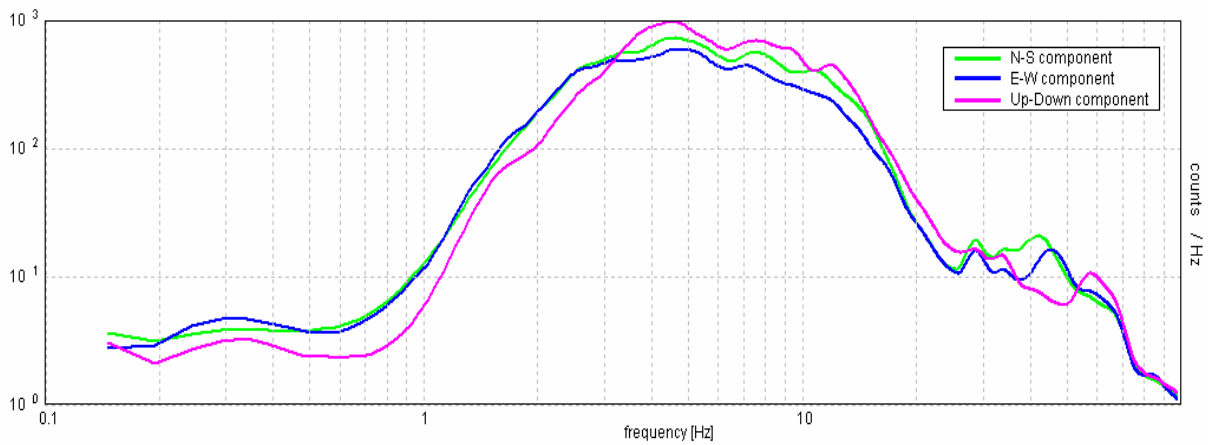
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

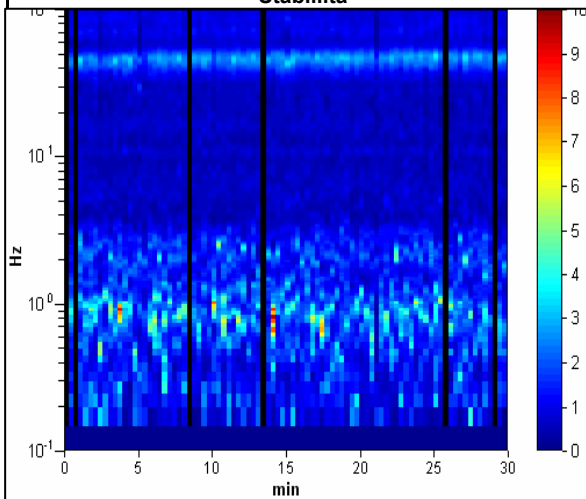
Max. HV at 0.78 ± 0.06 Hz. (In the range 0.0 - 30.0 Hz).



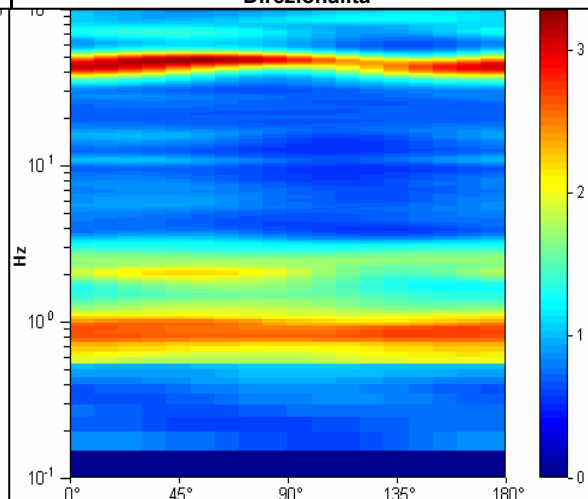
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H44

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

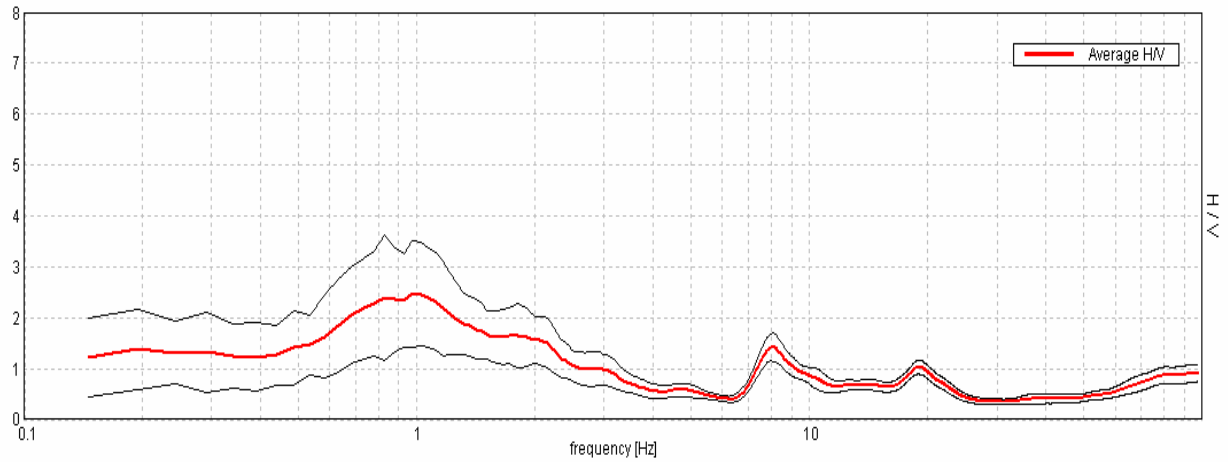
QUOTA: 45 m slm

OPERATORI: Mazzetti M.

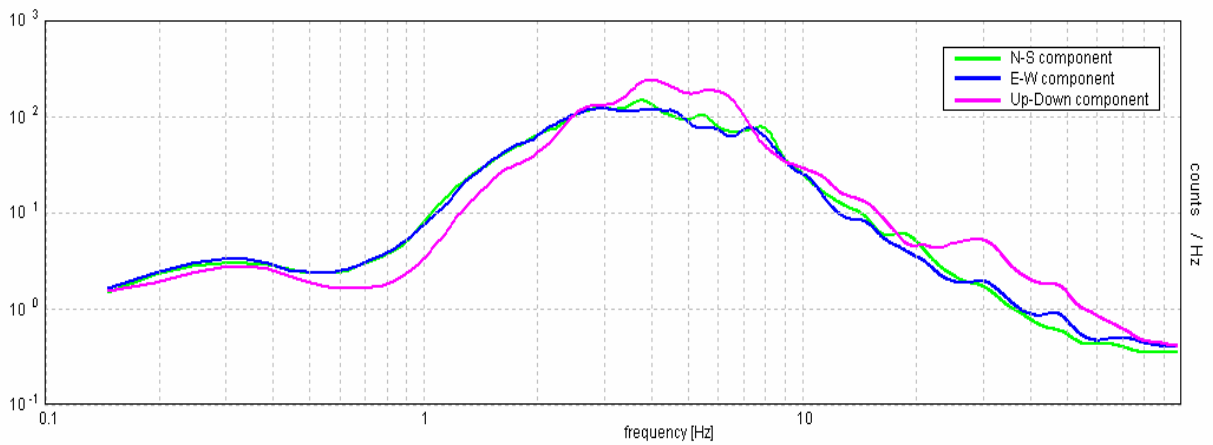
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

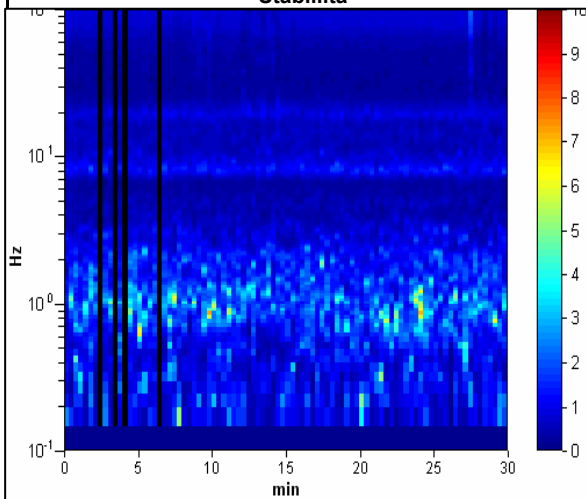
Max. HV at 0.98 ± 0.09 Hz. (In the range 0.0 - 30.0 Hz).



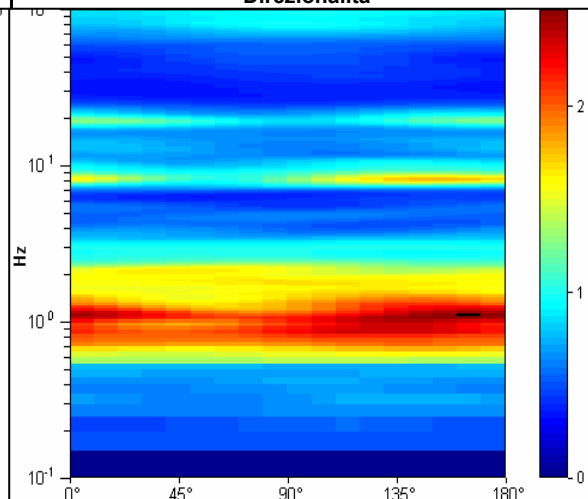
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H45

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

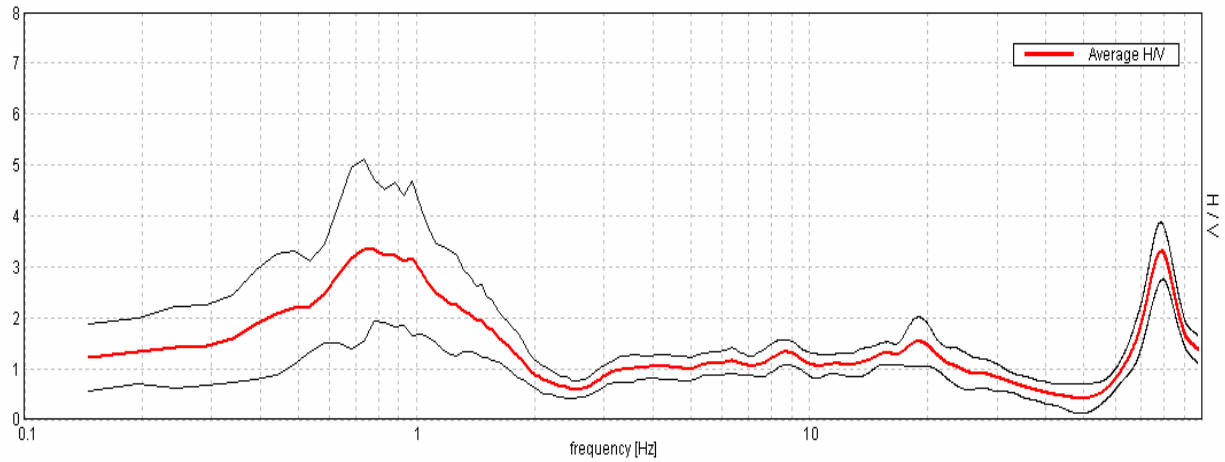
QUOTA: 43 m slm

OPERATORI: Mazzetti M.

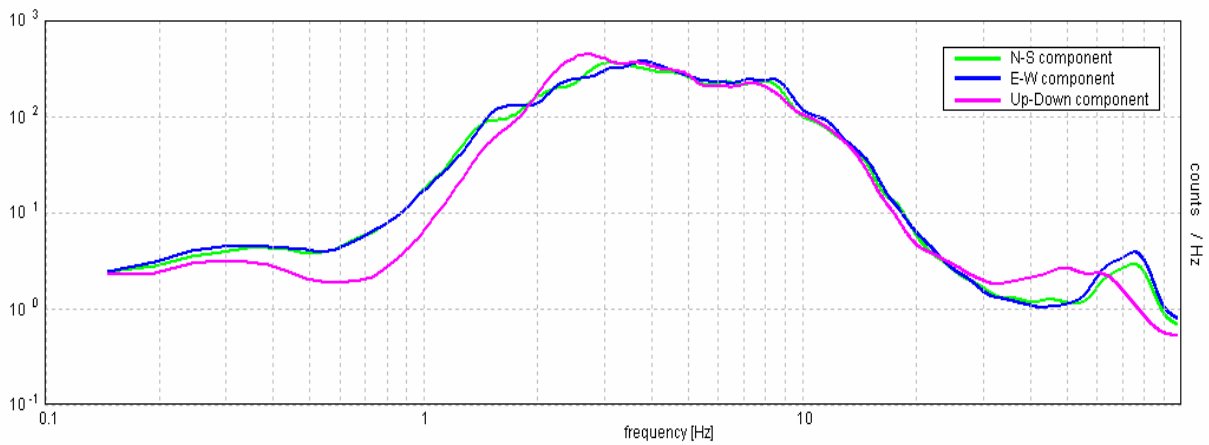
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

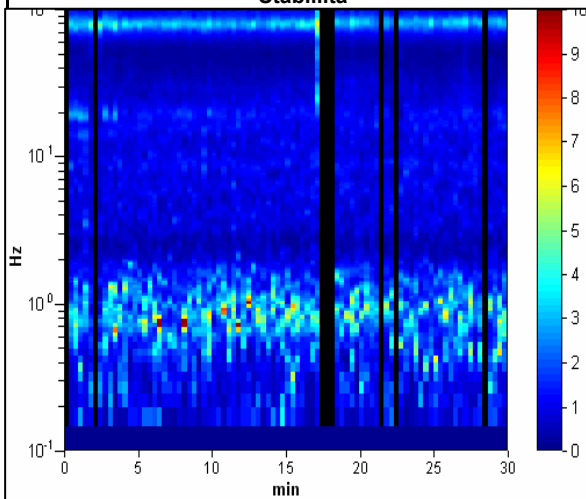
Max. HV at 0.73 ± 0.02 Hz. (In the range 0.0 - 30.0 Hz).



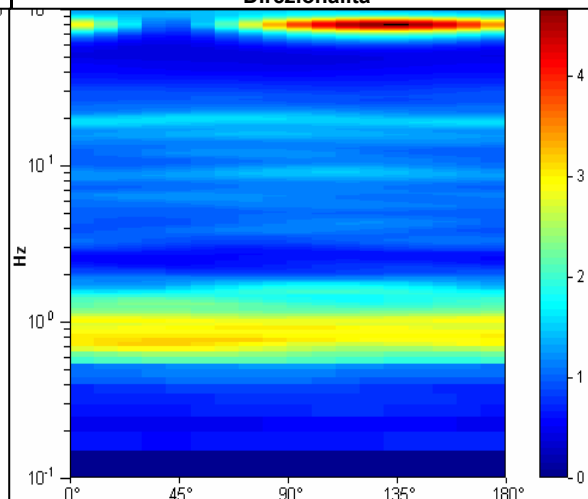
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H46

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

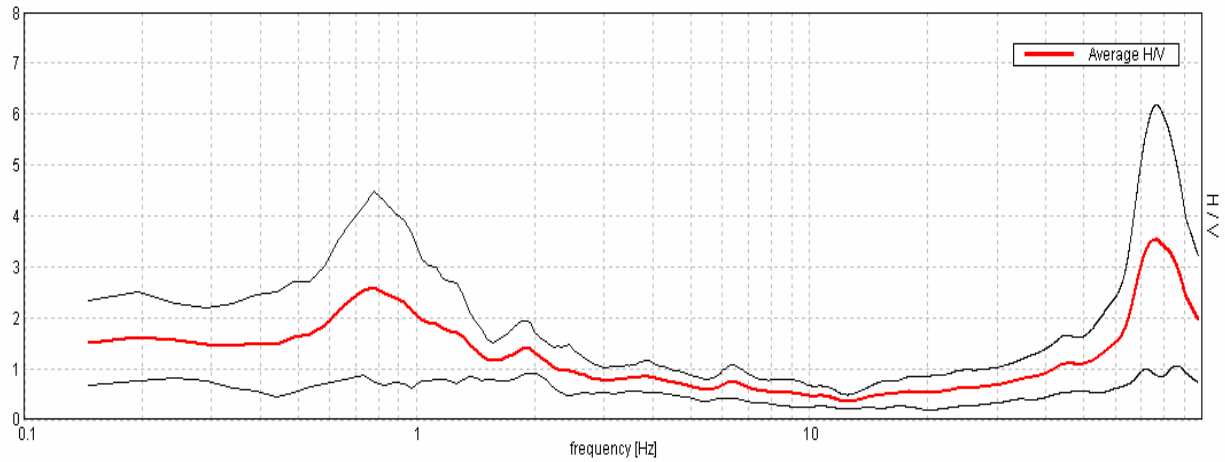
QUOTA: 43,8 m slm

OPERATORI: Mazzetti M.

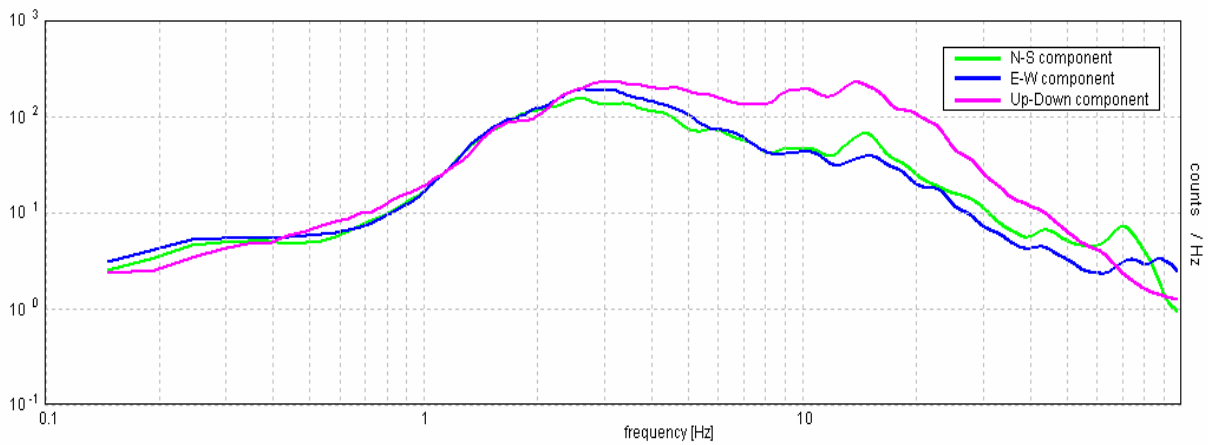
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

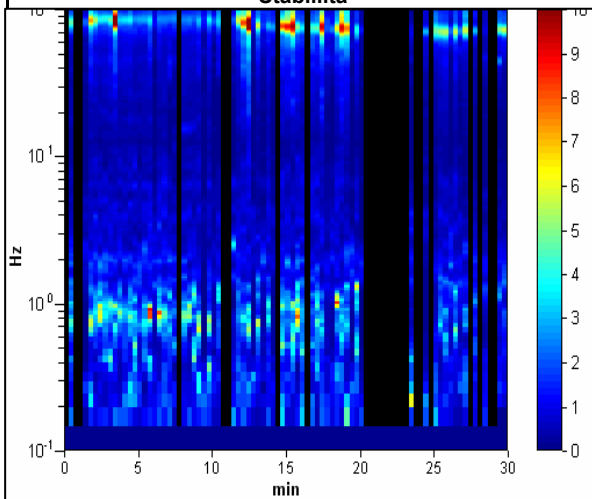
Max. HV at 0.78 ± 0.03 Hz. (In the range 0.0 - 30.0 Hz).



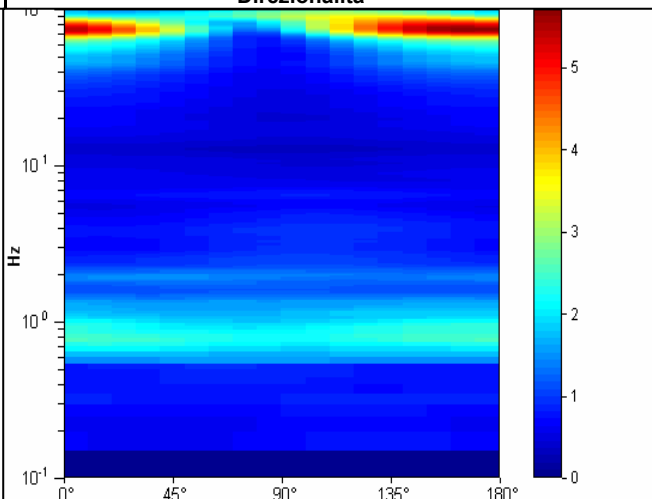
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H47

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

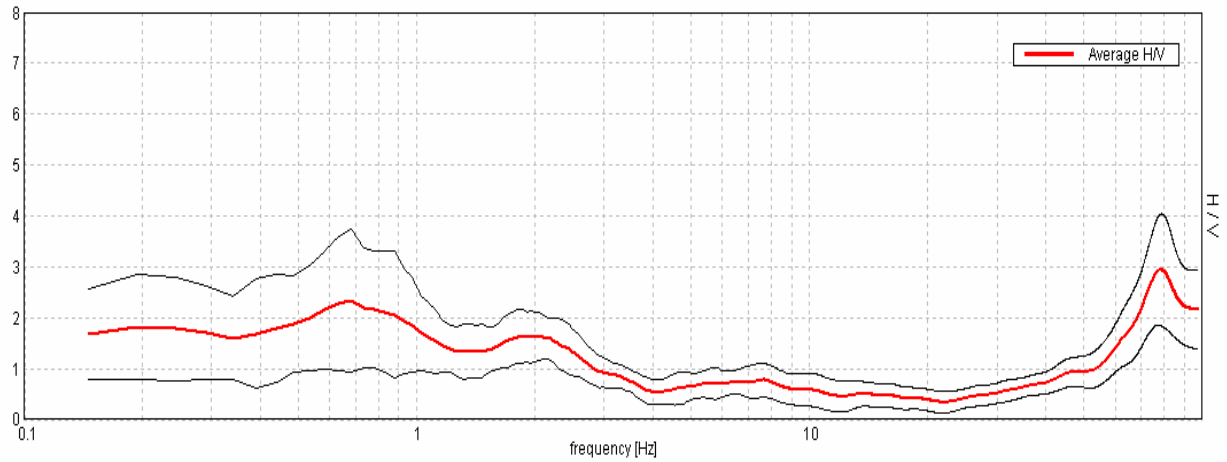
QUOTA: 40,4 m slm

OPERATORI: Mazzetti M.

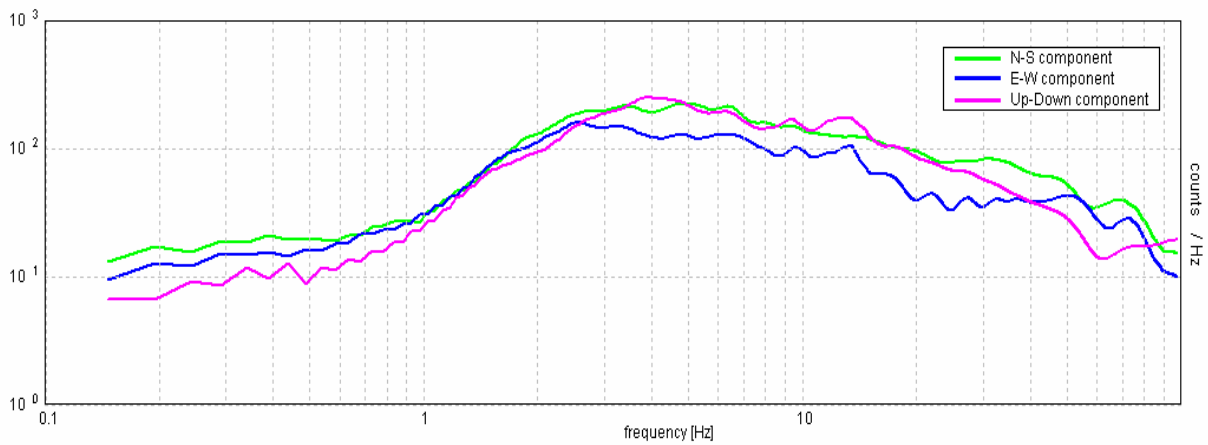
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

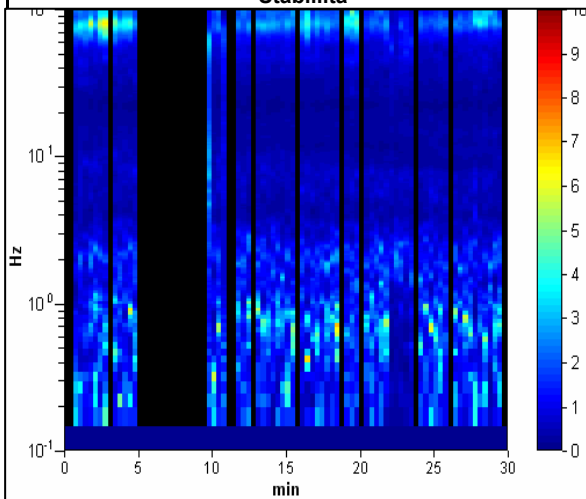
Max. HV at 0.68 ± 0.29 Hz. (In the range 0.0 - 30.0 Hz).



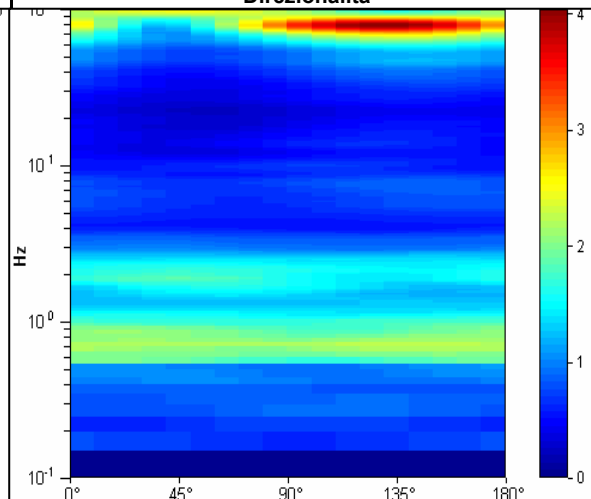
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H48

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

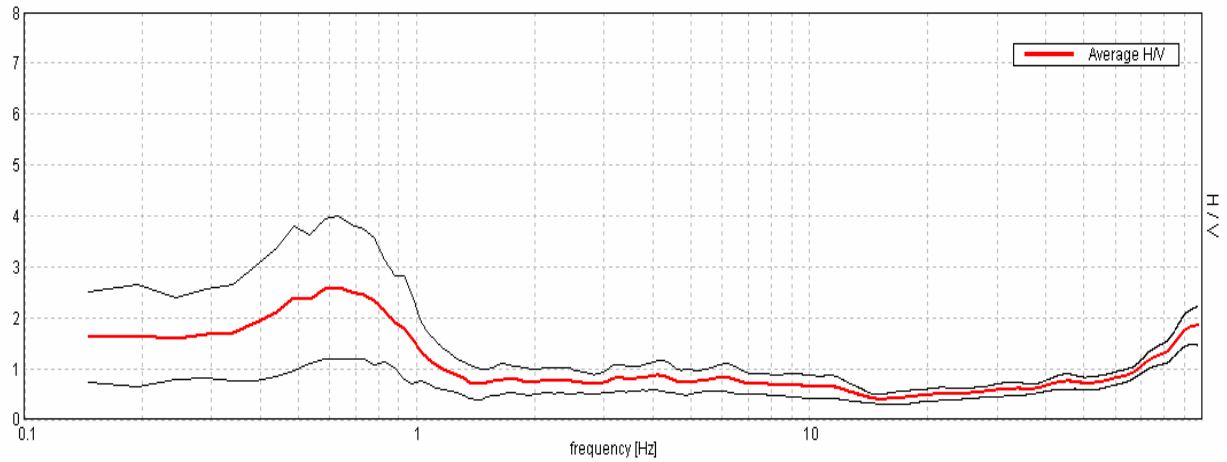
QUOTA: 39,5 m slm

OPERATORI: Mazzetti M.

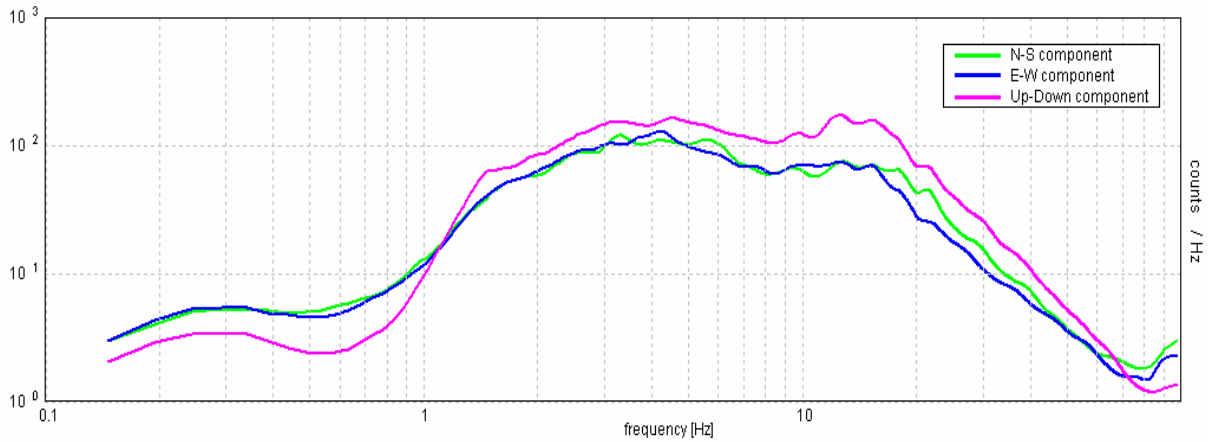
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

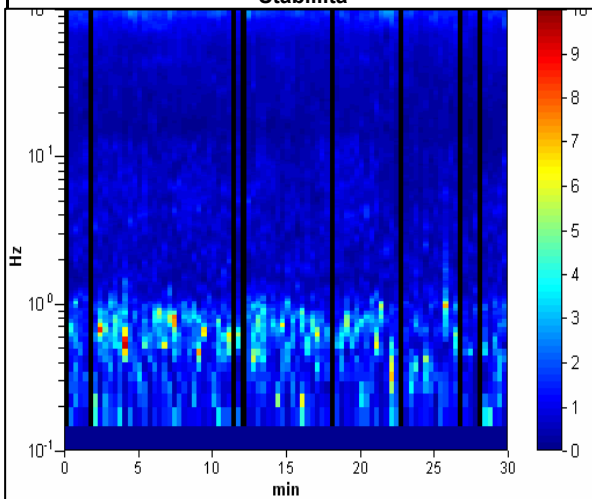
Max. HV at 0.63 ± 0.02 Hz. (In the range 0.0 - 30.0 Hz).



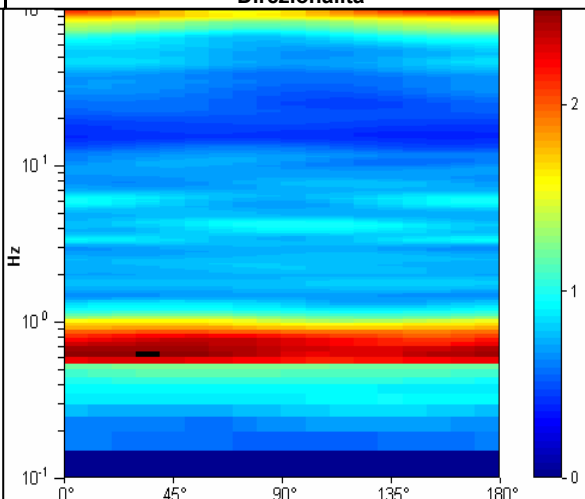
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H49

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

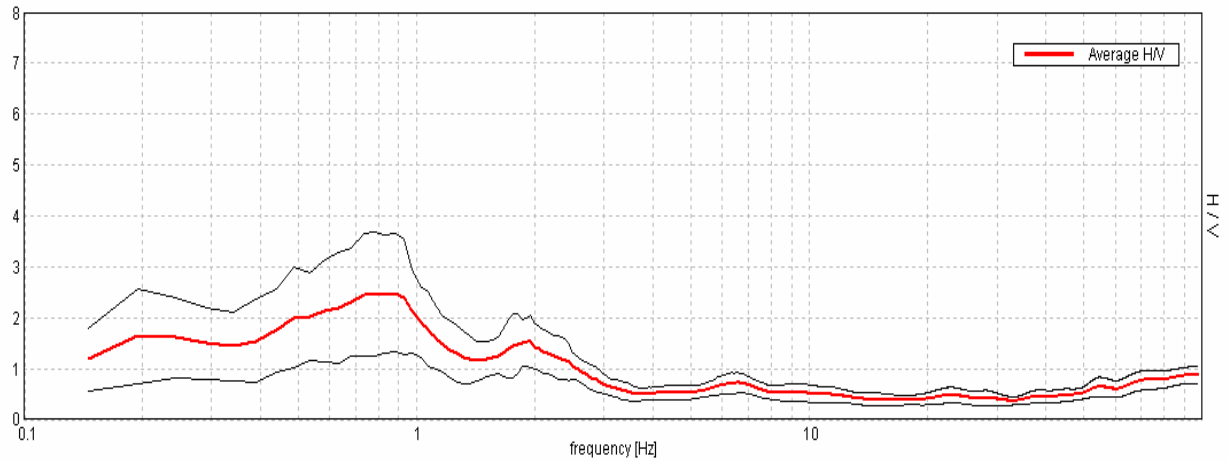
QUOTA: 41 m slm

OPERATORI: Mazzetti M.

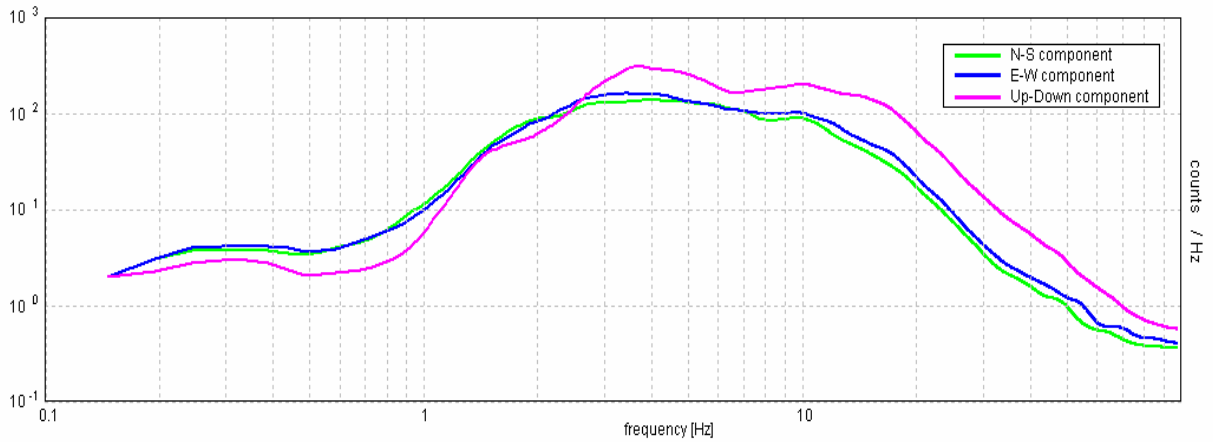
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

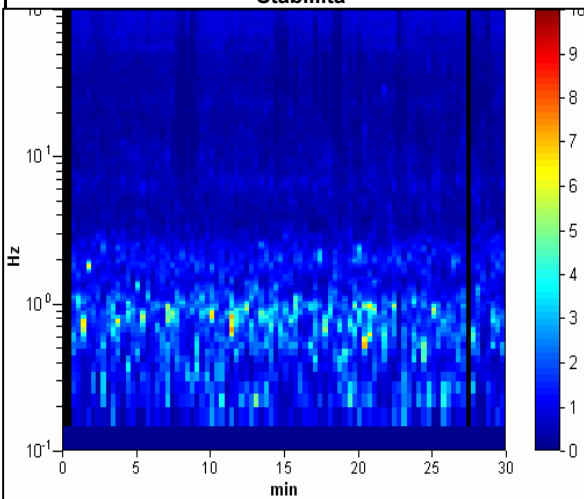
Max. HV at 0.88 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



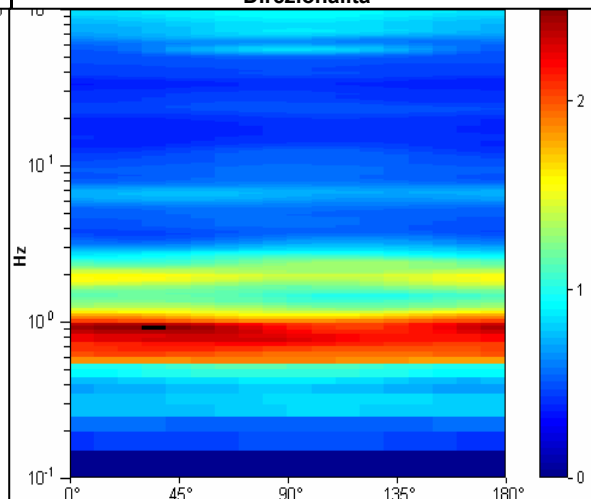
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H50

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

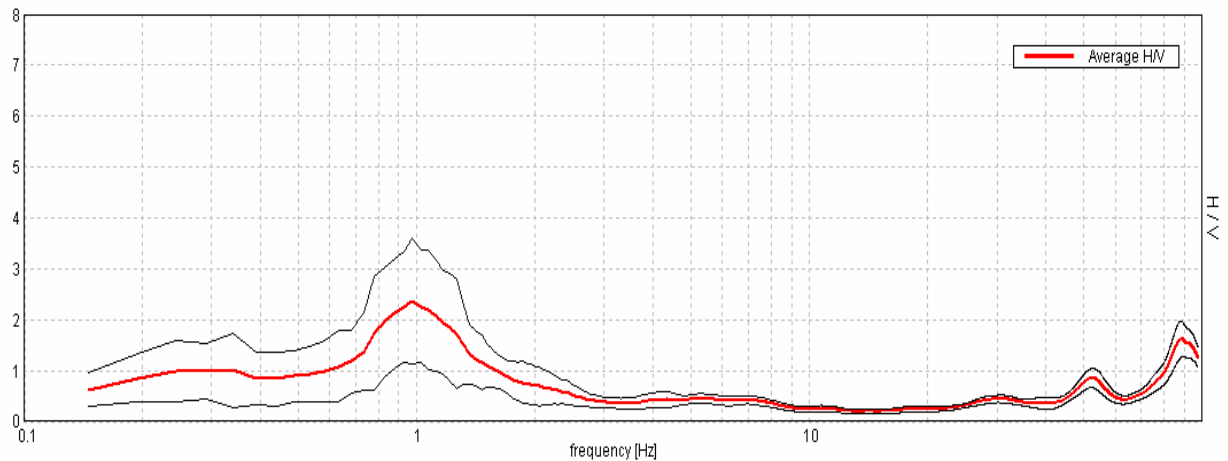
QUOTA: 41,5 m slm

OPERATORI: Mazzetti M.

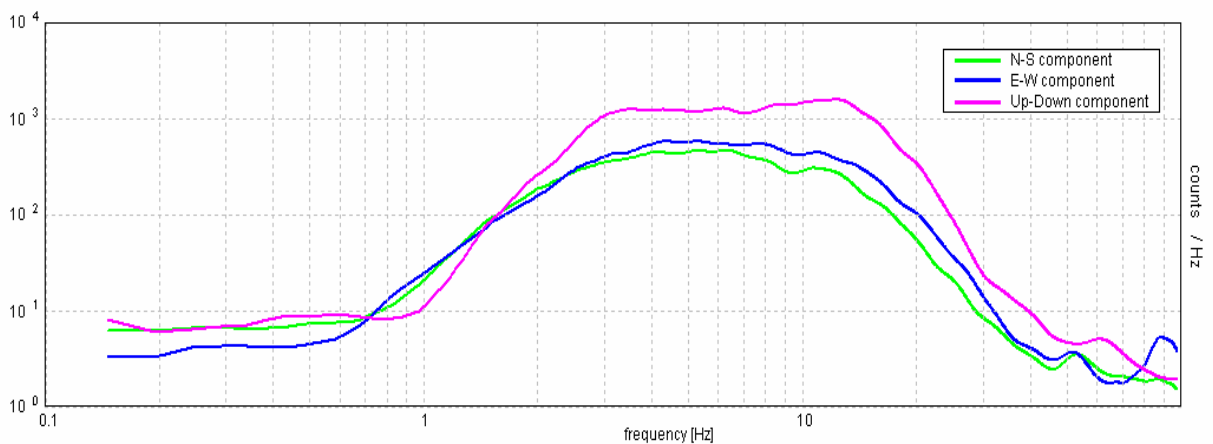
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

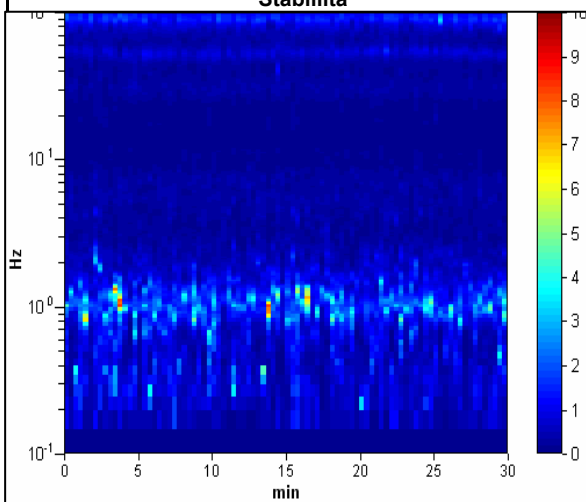
Max. HVV at 0.98 ± 0.0 Hz. (In the range 0.0 - 30.0 Hz).



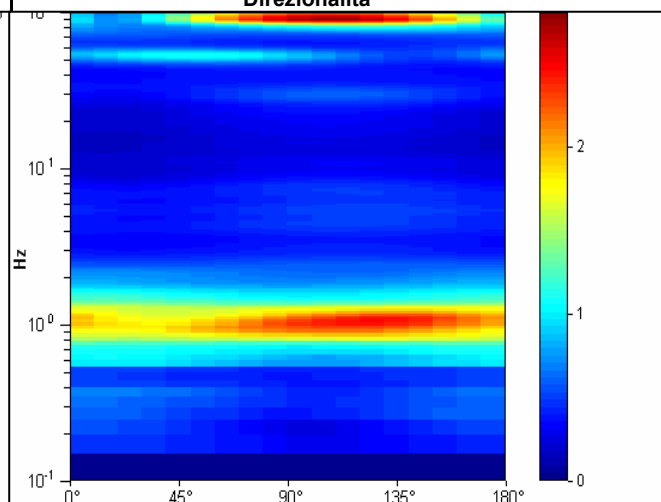
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H51

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

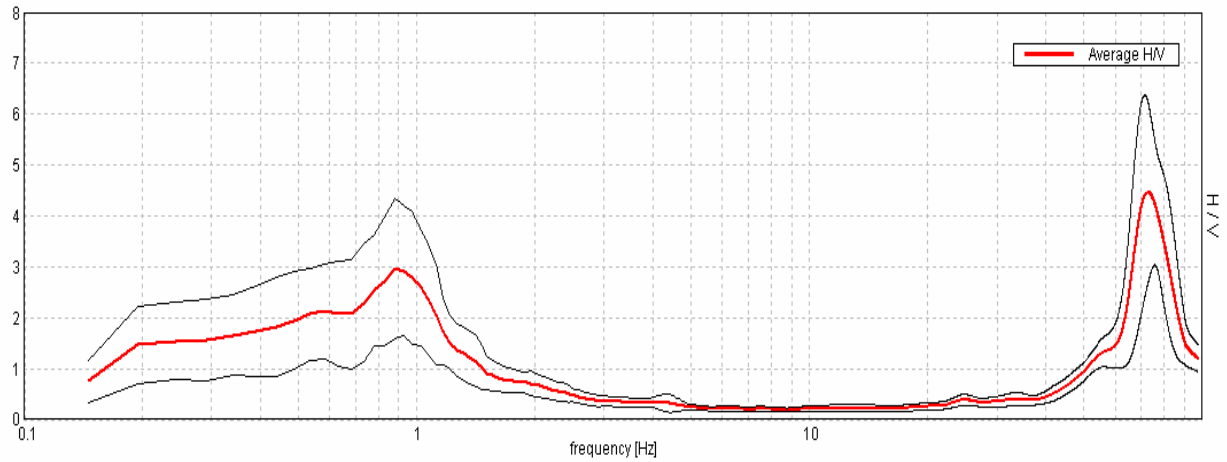
QUOTA: 39,2 m slm

OPERATORI: Mazzetti M.

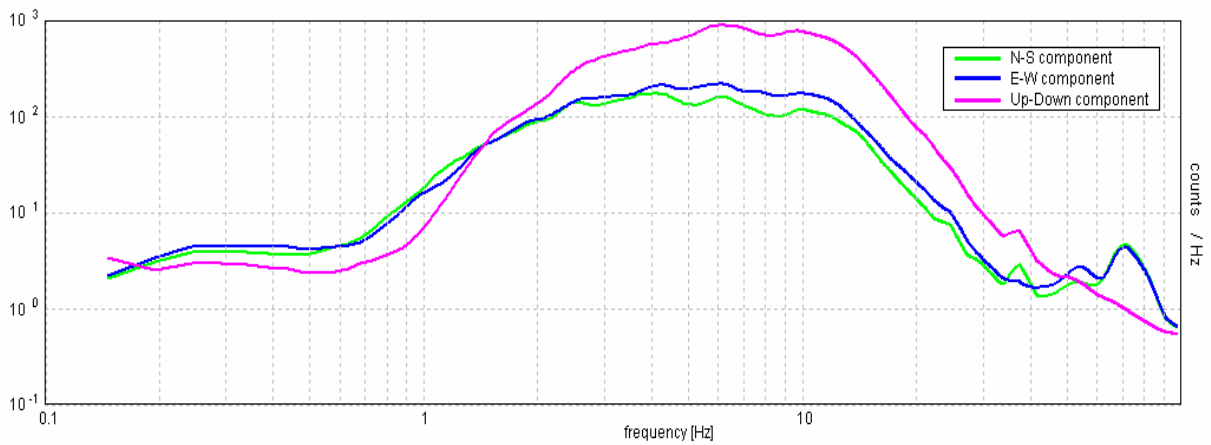
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

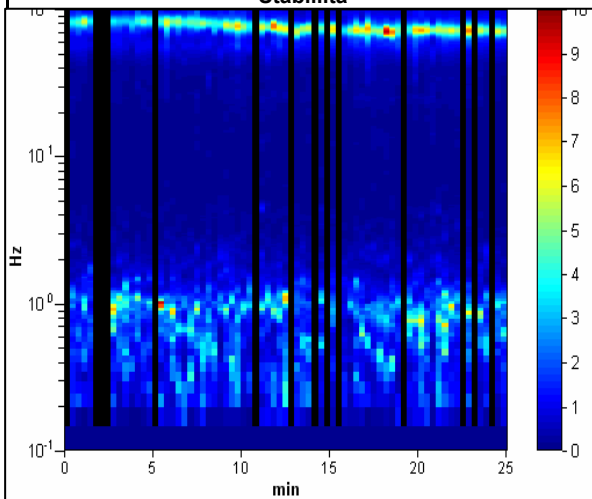
Max. HV at 0.88 ± 0.06 Hz. (In the range 0.0 - 30.0 Hz).



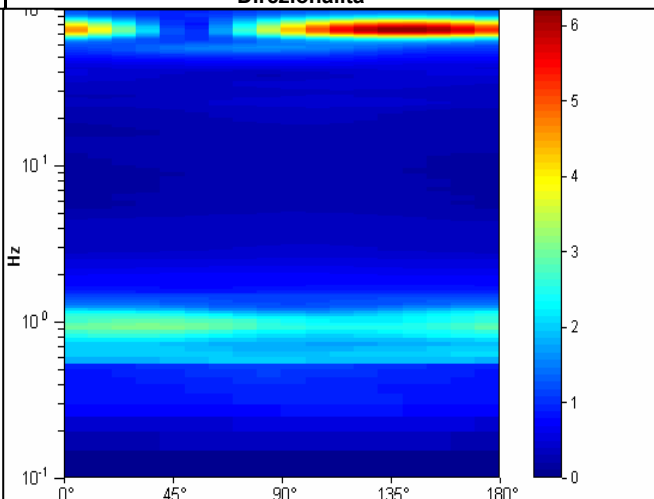
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H52

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

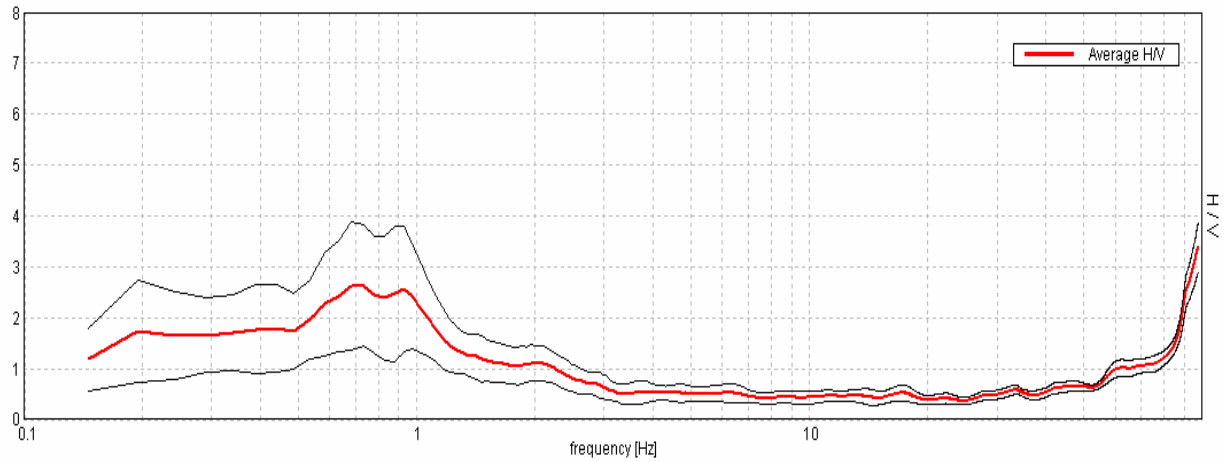
QUOTA: 39 m slm

OPERATORI: Mazzetti M.

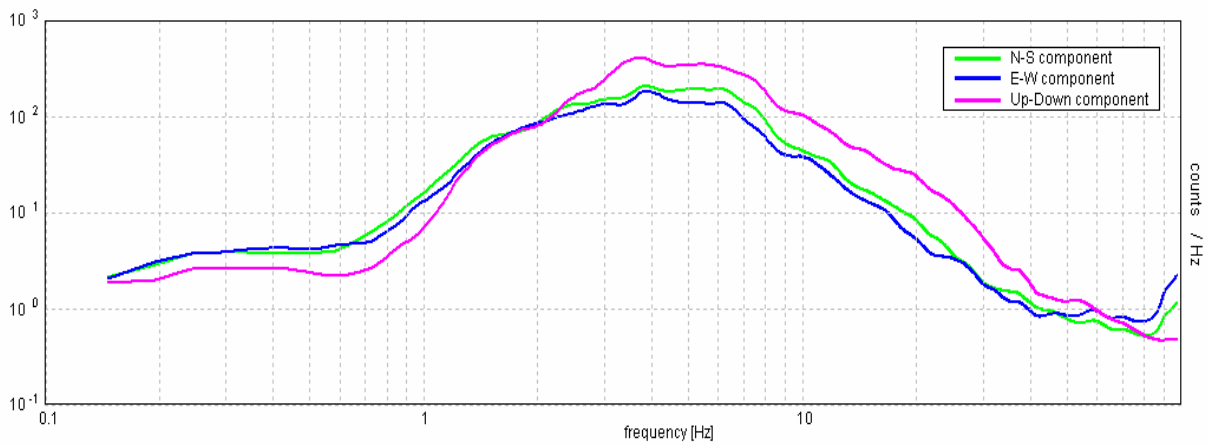
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

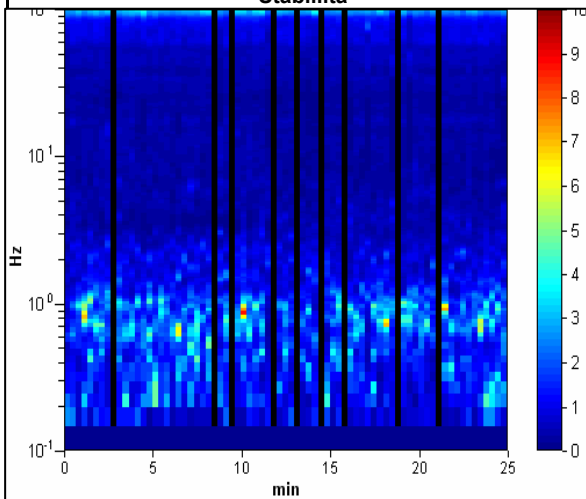
Max. HV at 0.73 ± 0.16 Hz. (In the range 0.0 - 30.0 Hz).



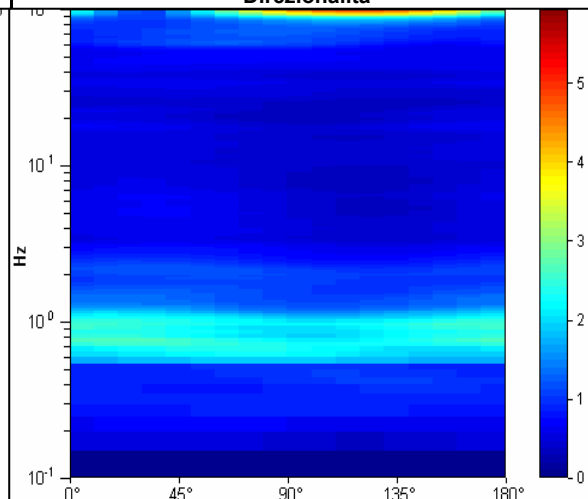
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H53

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

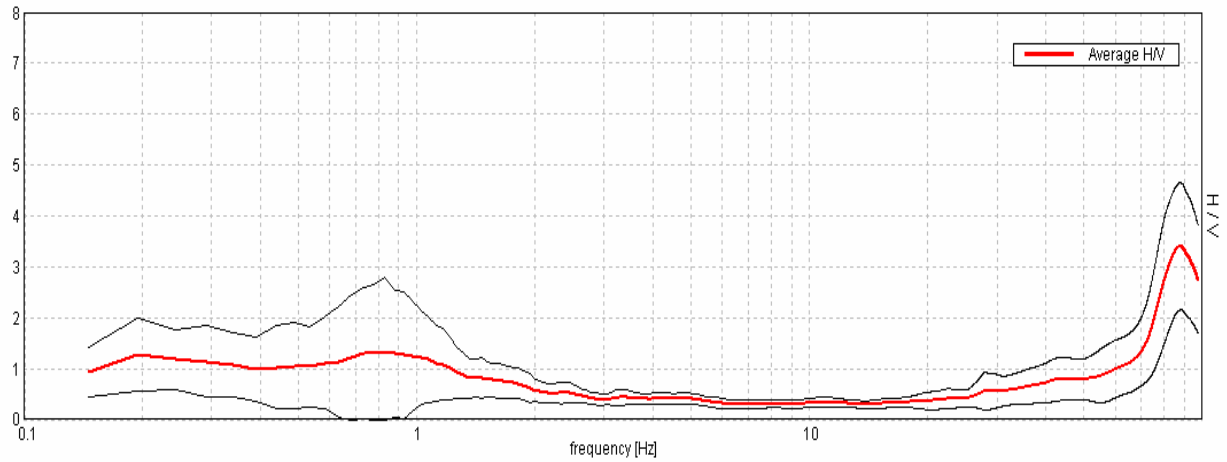
QUOTA: 39,5 m slm

OPERATORI: Mazzetti M.

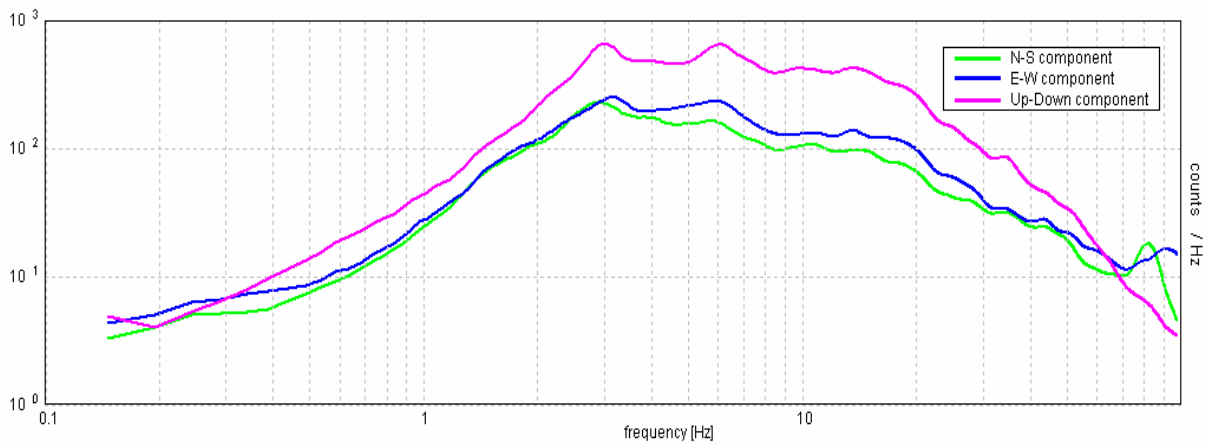
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

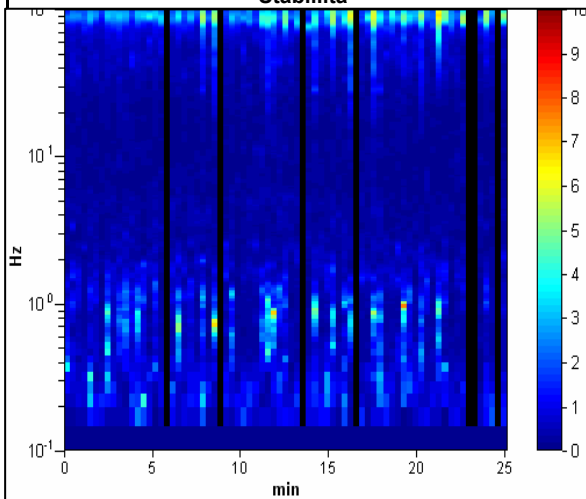
Max. HV at 0.83 ± 0.36 Hz. (In the range 0.0 - 30.0 Hz).



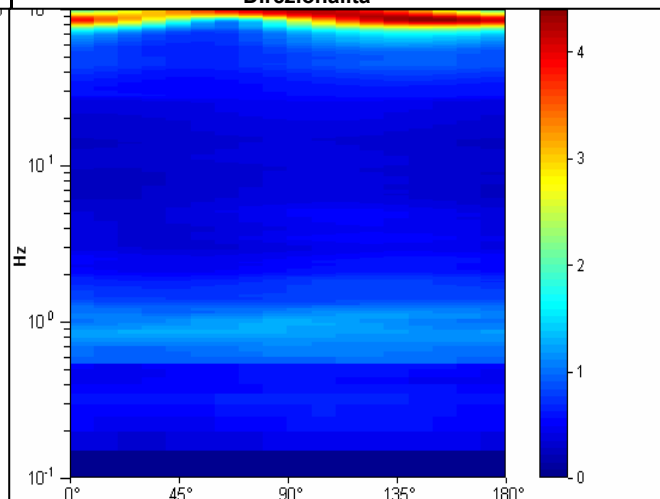
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H54

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 13-03-2013

CANTIERE: Microzonazione sismica 2013

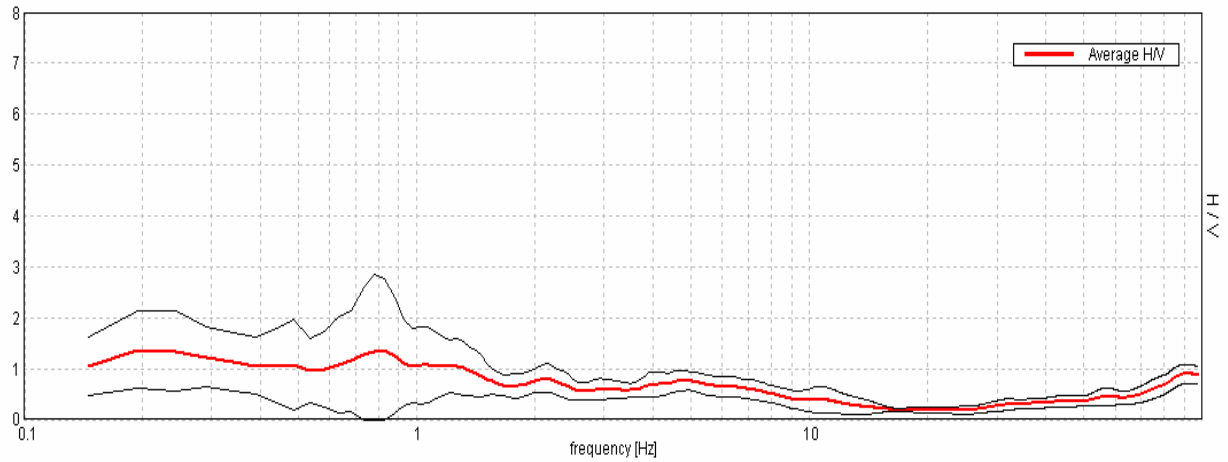
QUOTA: 36 m slm

OPERATORI: Mazzetti M.

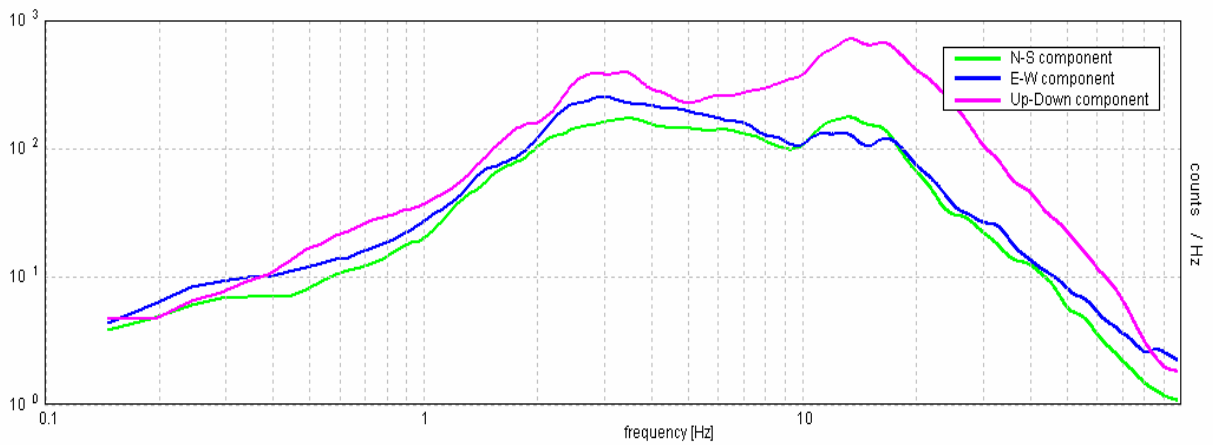
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

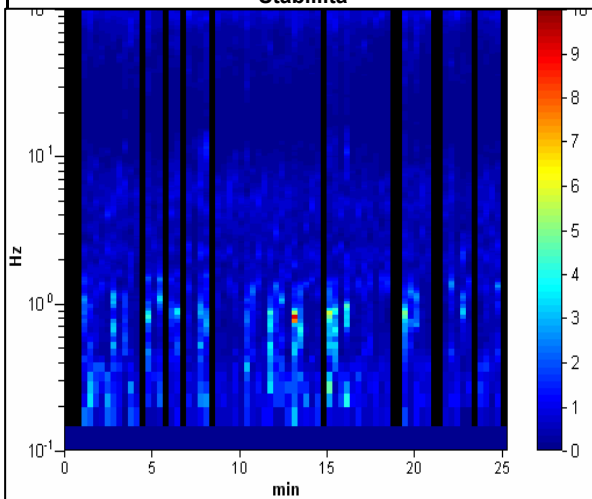
Max. HV at 0.83 ± 0.51 Hz. (In the range 0.0 - 30.0 Hz).



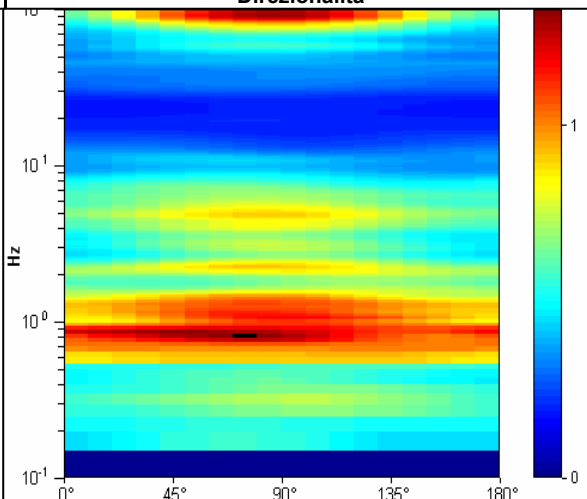
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H55

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

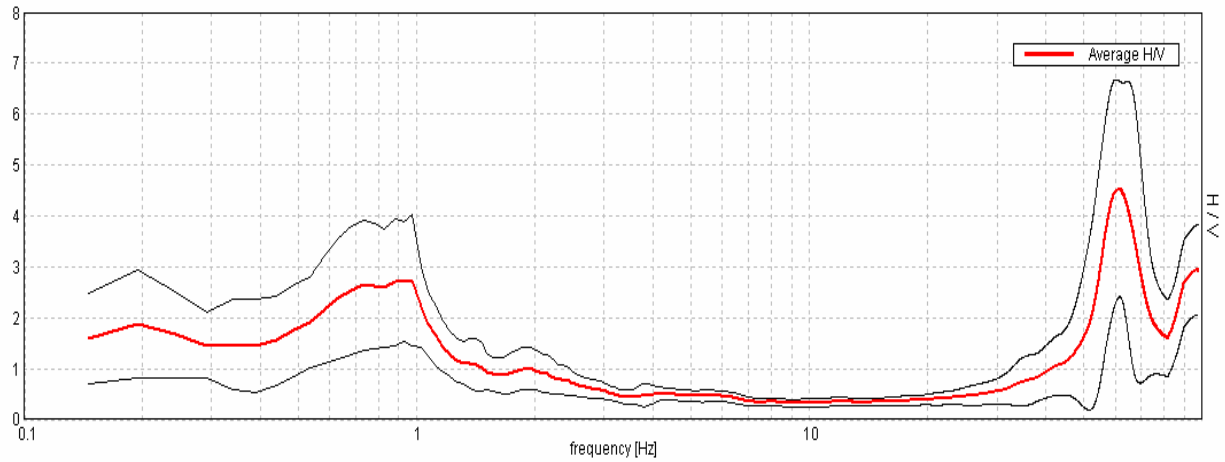
QUOTA: 38,2 m slm

OPERATORI: Mazzetti M.

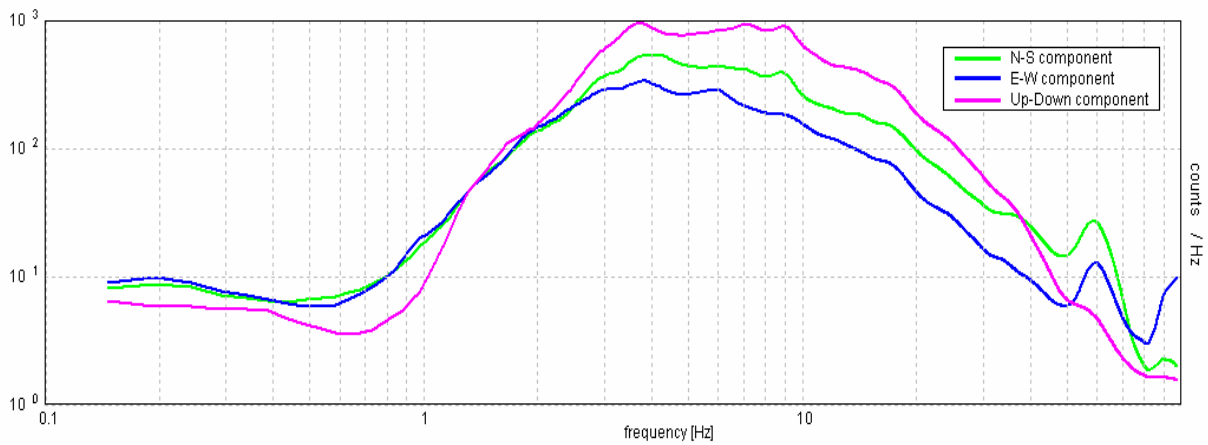
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

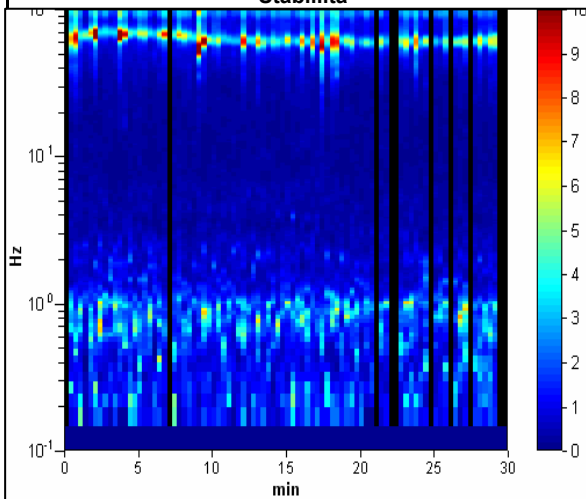
Max. HV at 0.98 ± 0.26 Hz. (In the range 0.0 - 30.0 Hz).



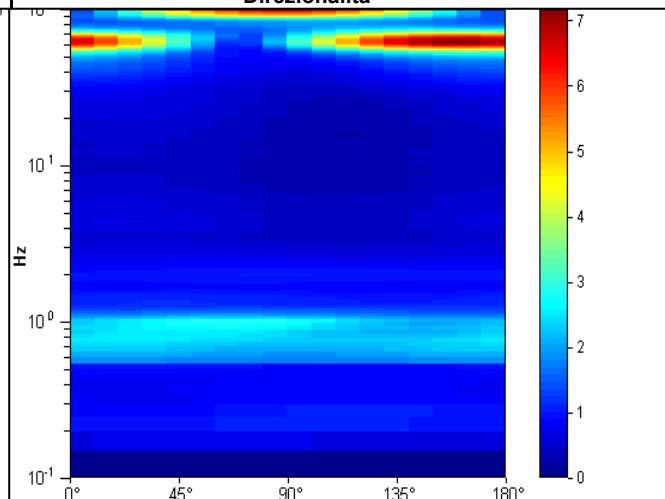
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H56

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

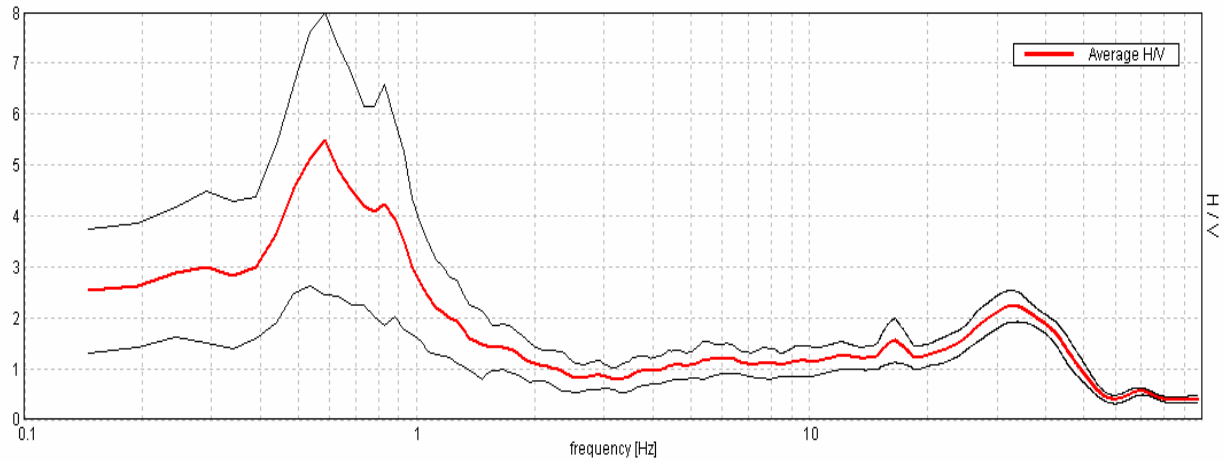
QUOTA: 38 m slm

OPERATORI: Mazzetti M.

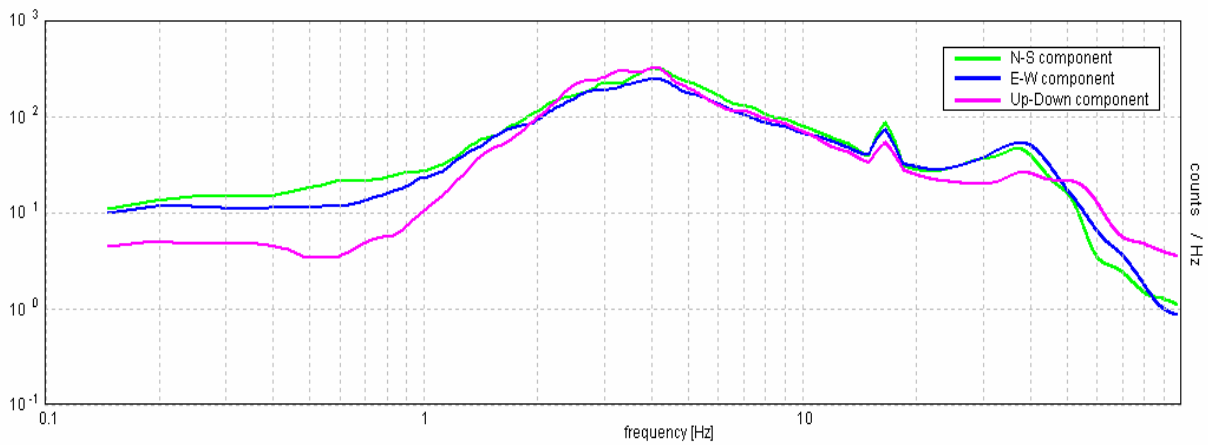
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

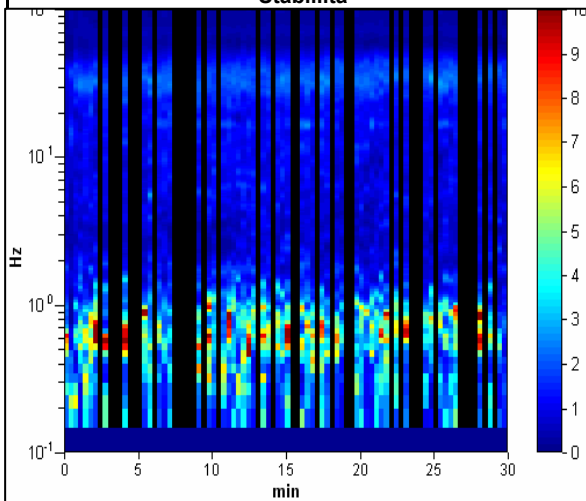
Max. HV at 0.59 ± 0.0 Hz. (In the range 0.0 - 30.0 Hz).



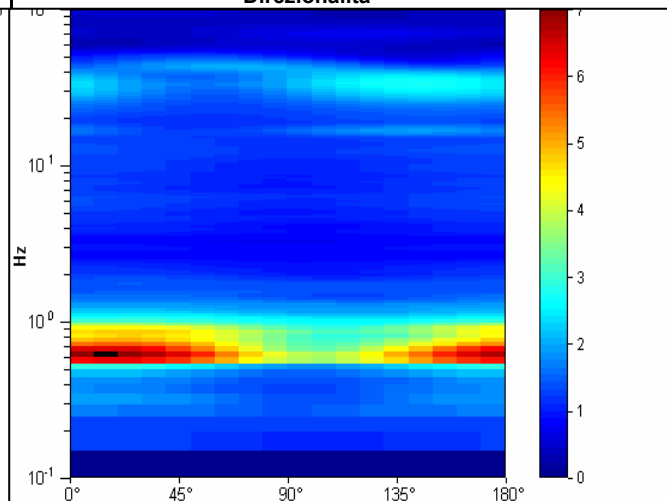
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H57

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

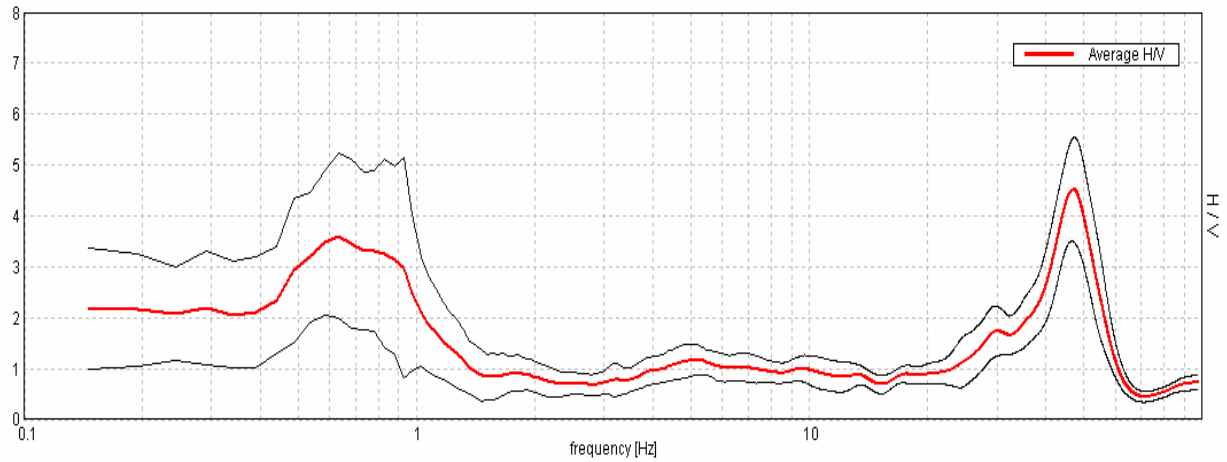
QUOTA: 36 m slm

OPERATORI: Mazzetti M.

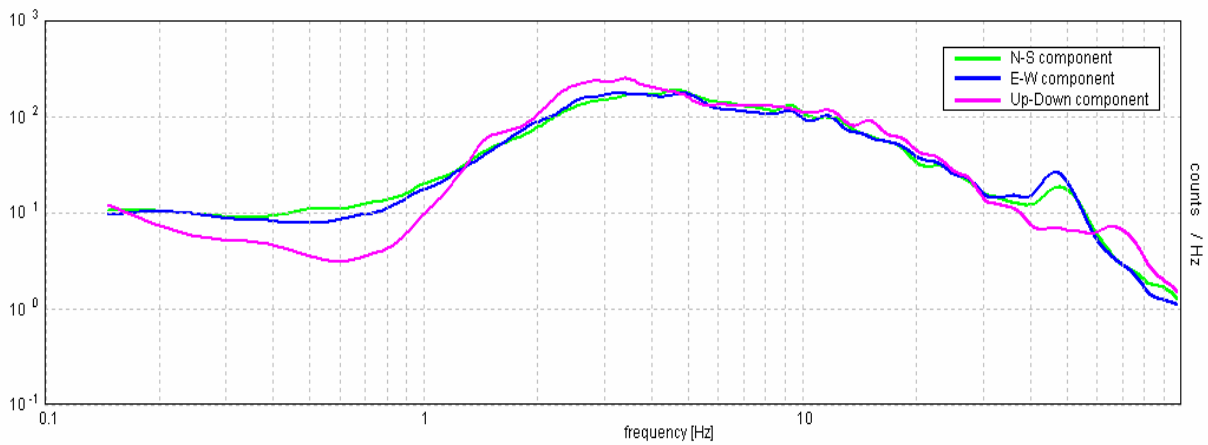
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

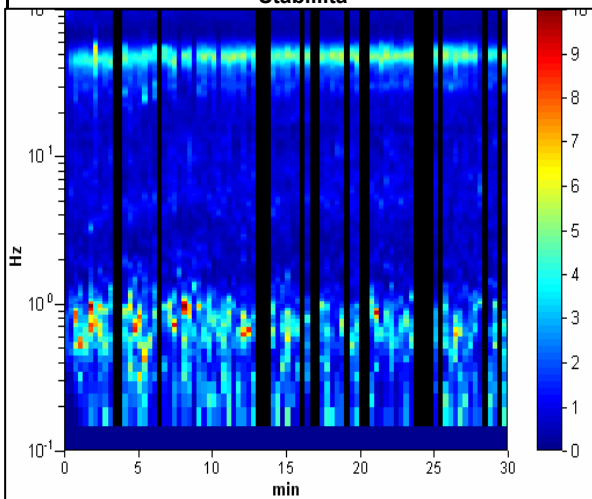
Max. HV at 0.63 ± 0.14 Hz. (In the range 0.0 - 30.0 Hz).



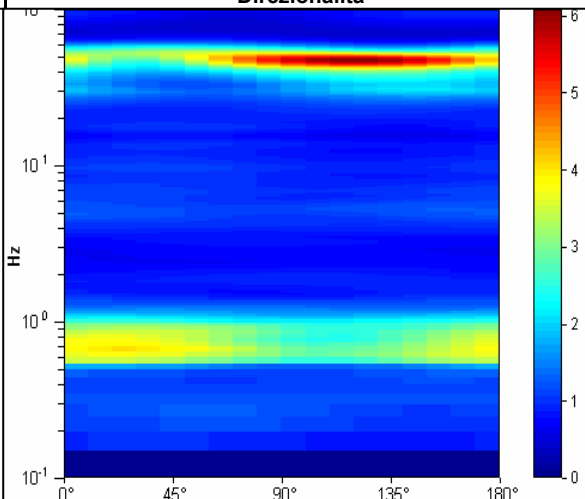
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H58

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

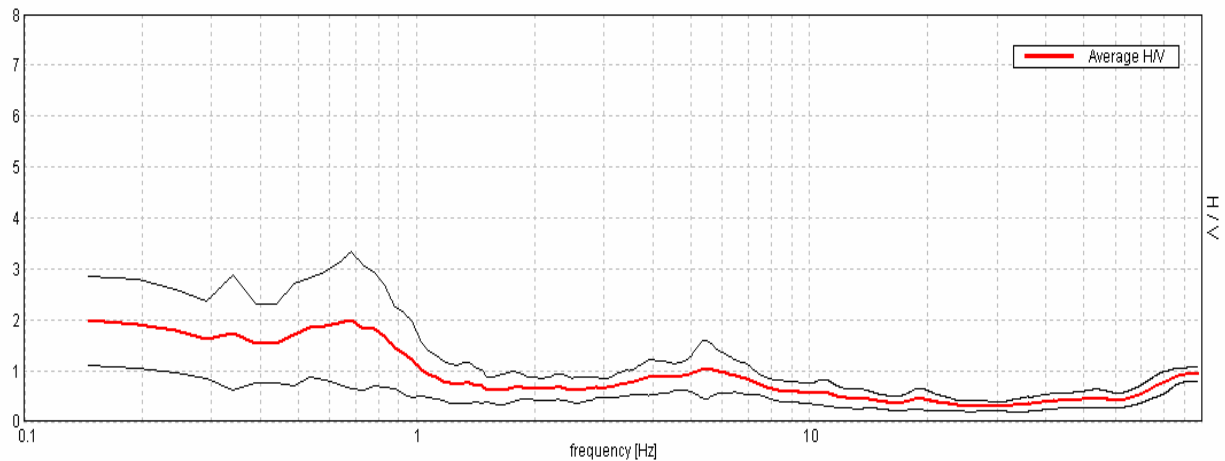
QUOTA: 35 m slm

OPERATORI: Mazzetti M.

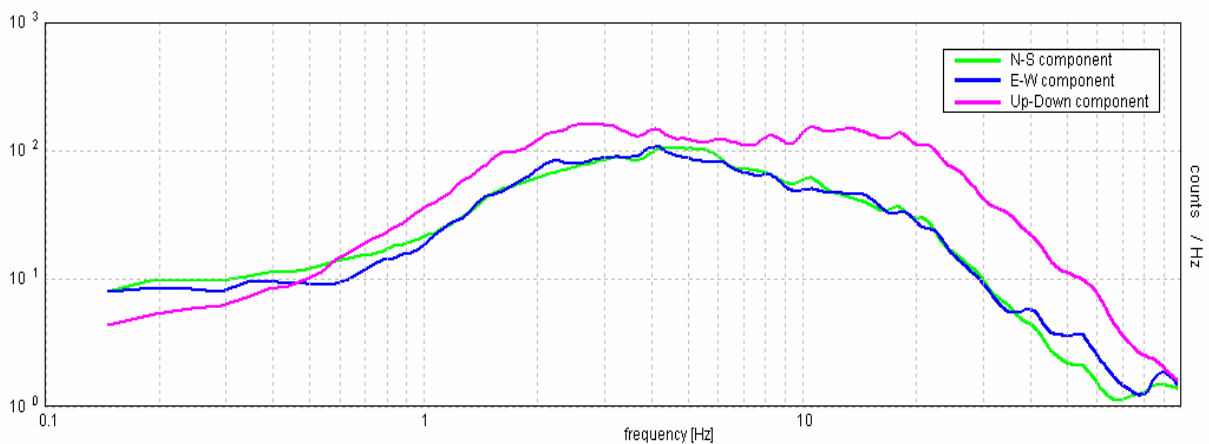
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

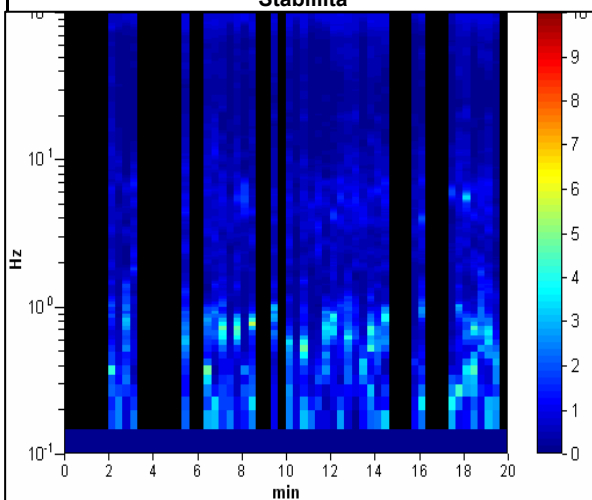
Max. HV at 0.68 ± 0.37 Hz. (In the range 0.0 - 30.0 Hz).



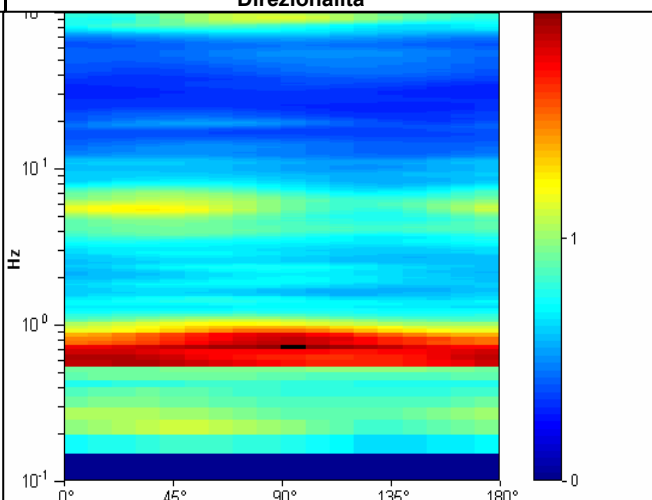
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H59

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

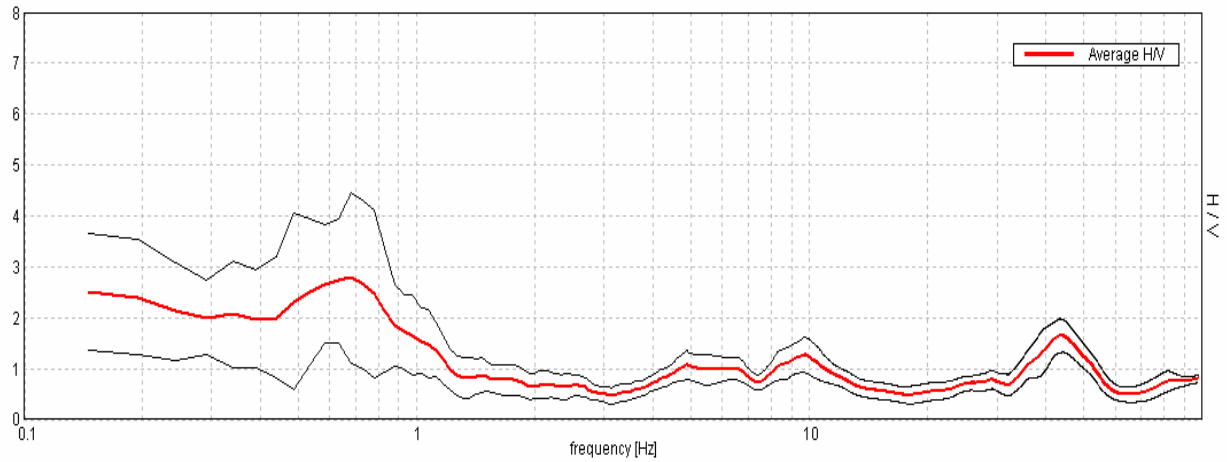
QUOTA: 34 m slm

OPERATORI: Mazzetti M.

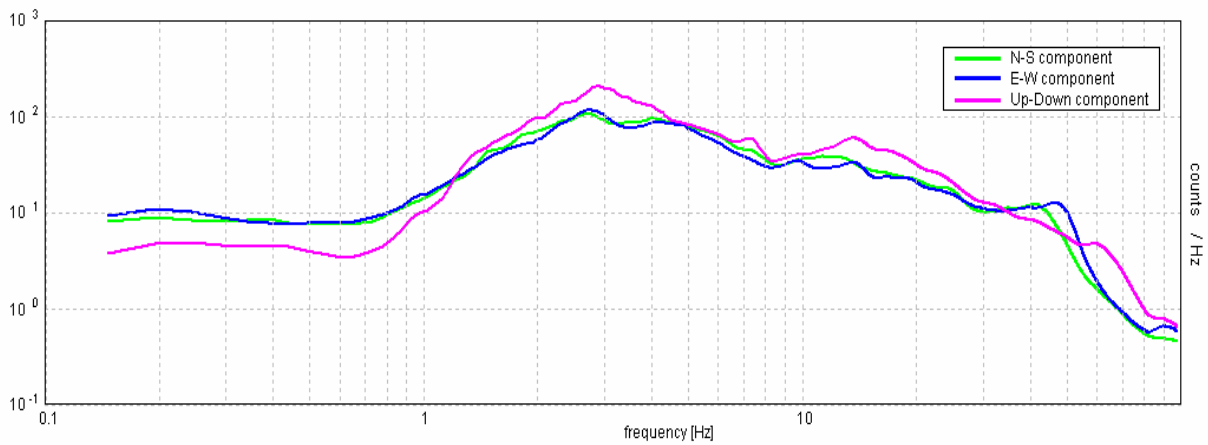
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

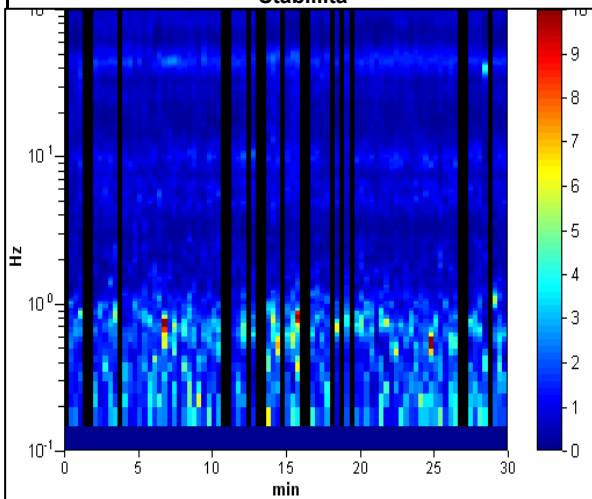
Max. HV at 0.68 ± 0.07 Hz. (In the range 0.0 - 30.0 Hz).



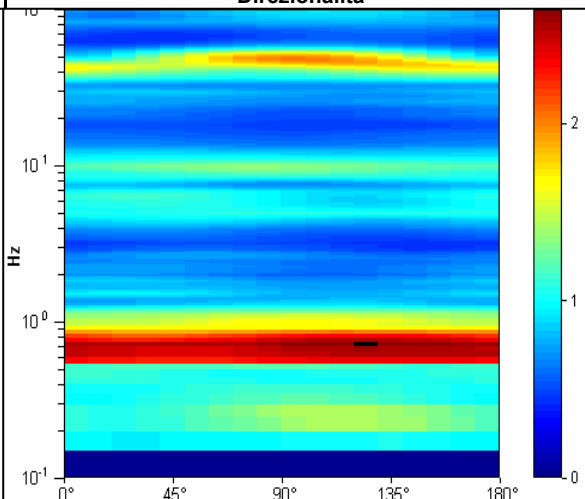
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H60

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

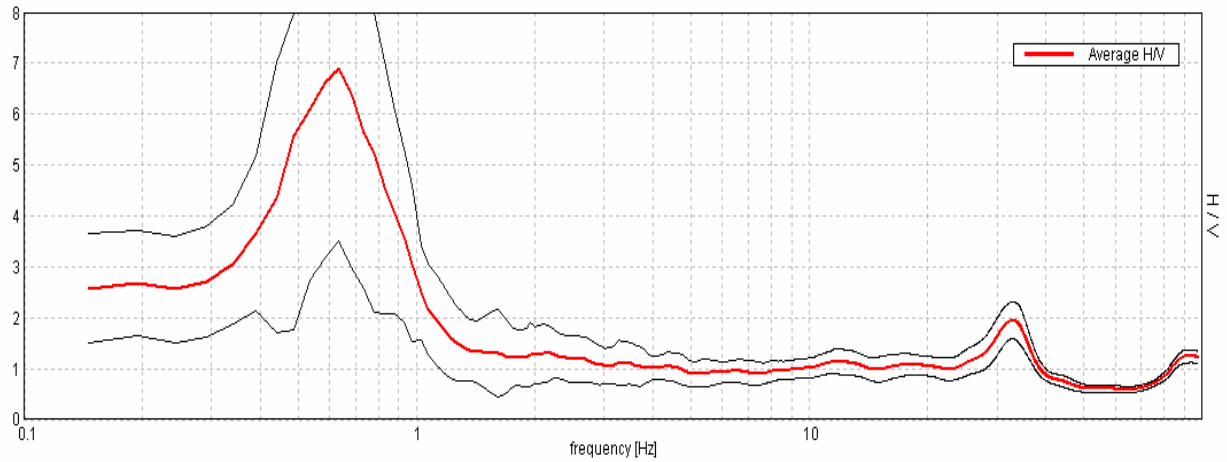
QUOTA: 38 m slm

OPERATORI: Mazzetti M.

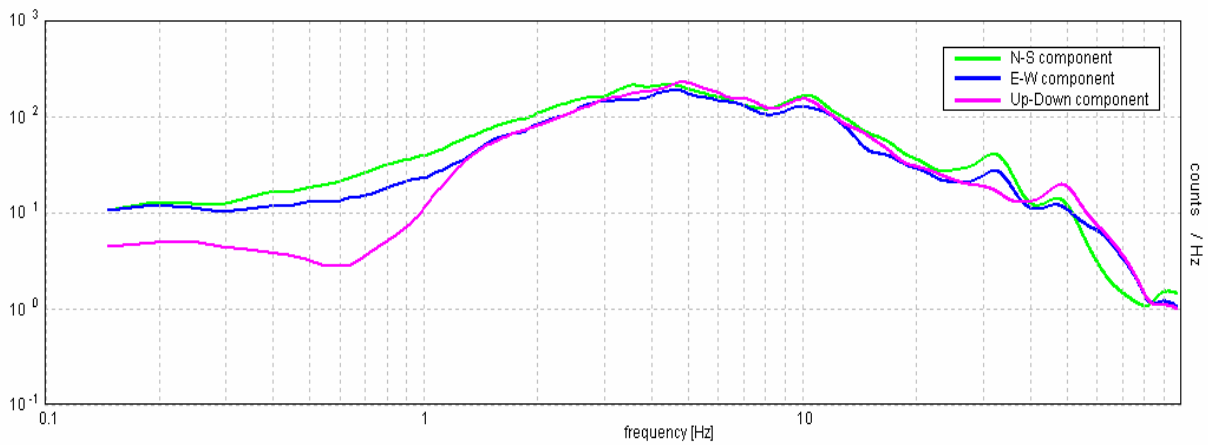
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

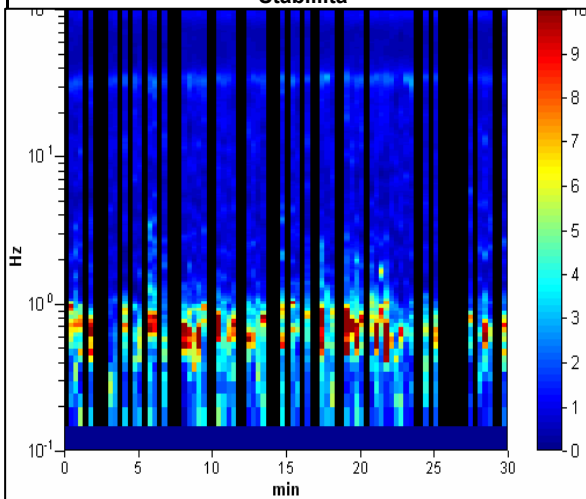
Max. HV at 0.63 ± 0.04 Hz. (In the range 0.0 - 30.0 Hz).



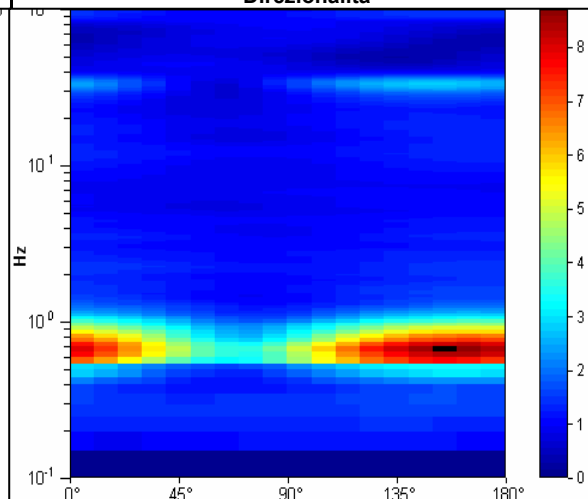
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H61
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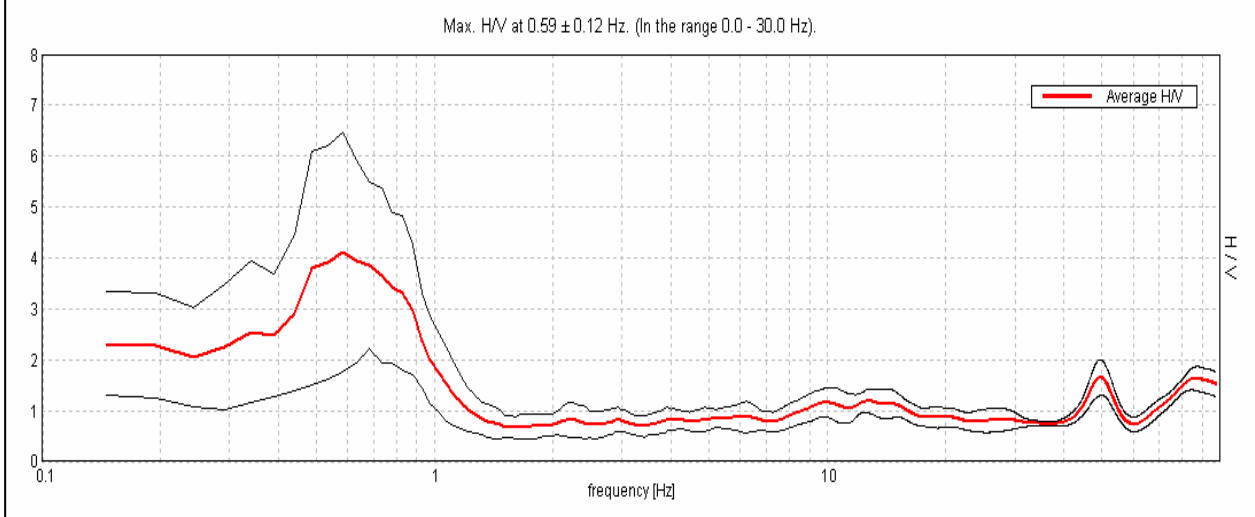
LOCALITA': Campogalliano (MO)	COMMITTENTE: Amm. Comun. Campogalliano
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DATA: 15-03-2013	CANTIERE: Microzonazione sismica 2013
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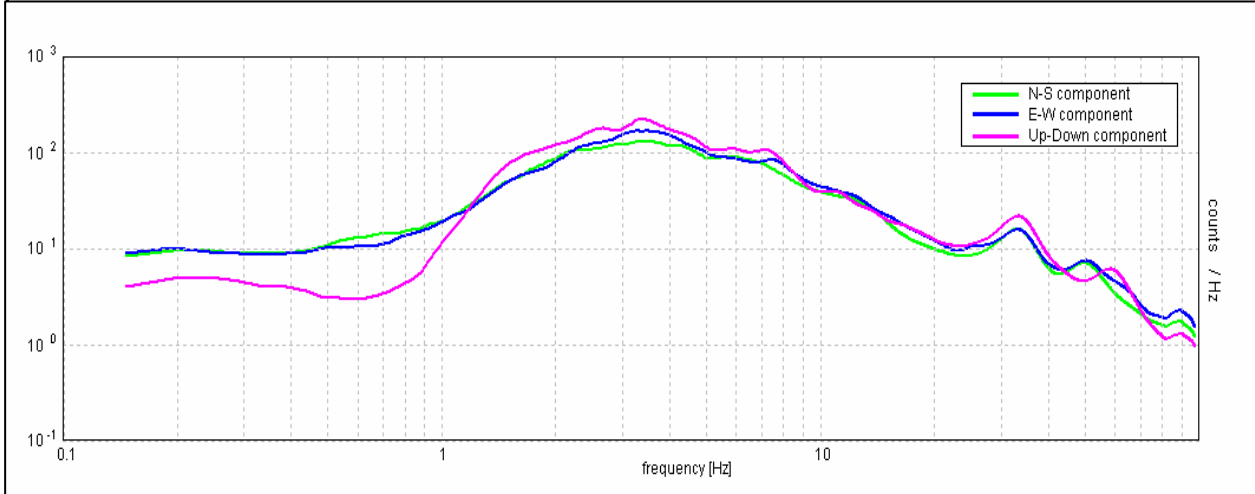
QUOTA: 32.7 m slm	OPERATORI: Mazzetti M.
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Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

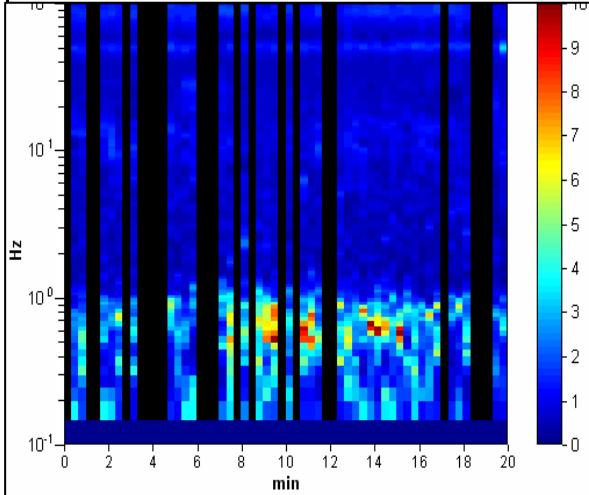
Rapporto spettrale



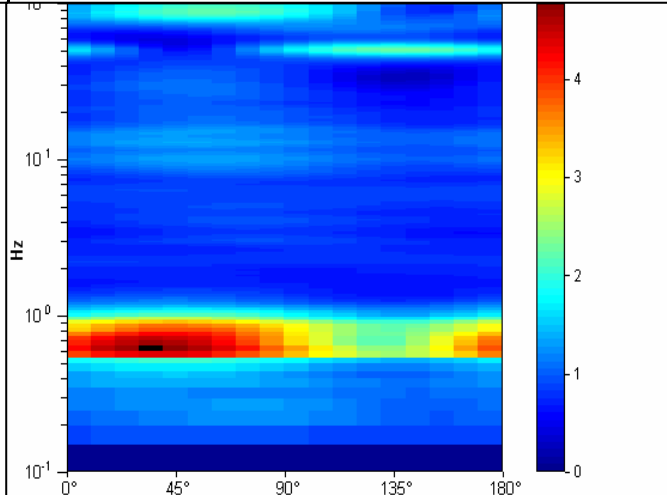
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H62

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

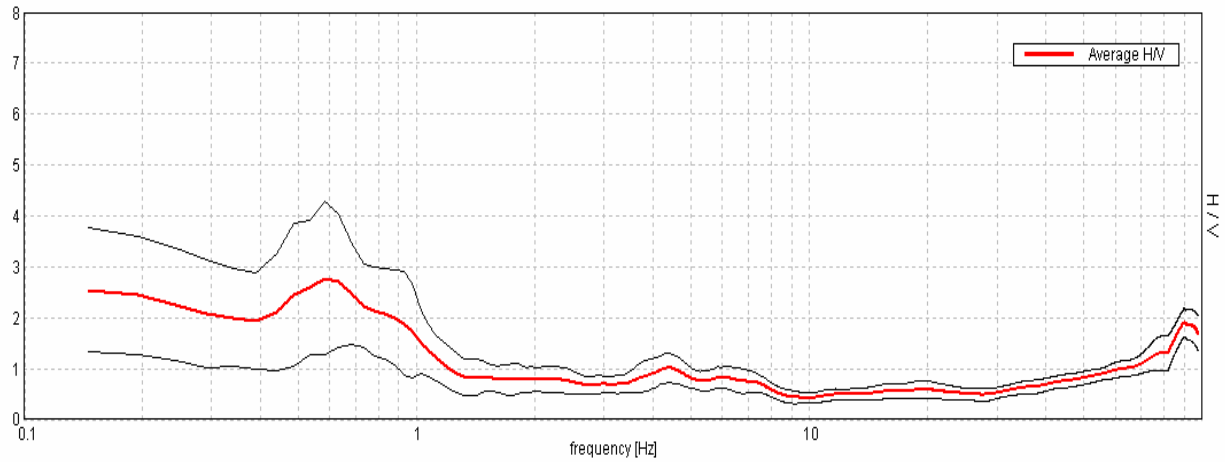
QUOTA: 32 m slm

OPERATORI: Mazzetti M.

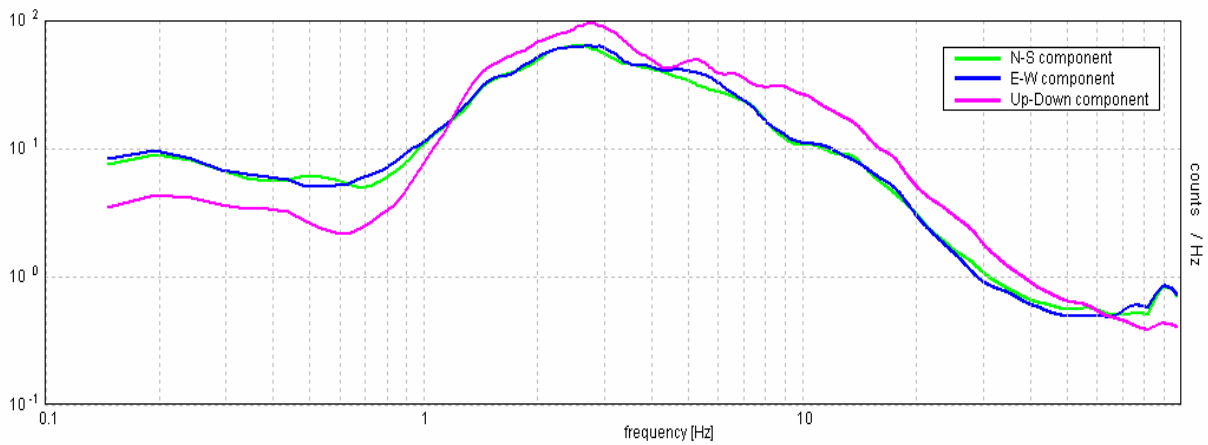
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

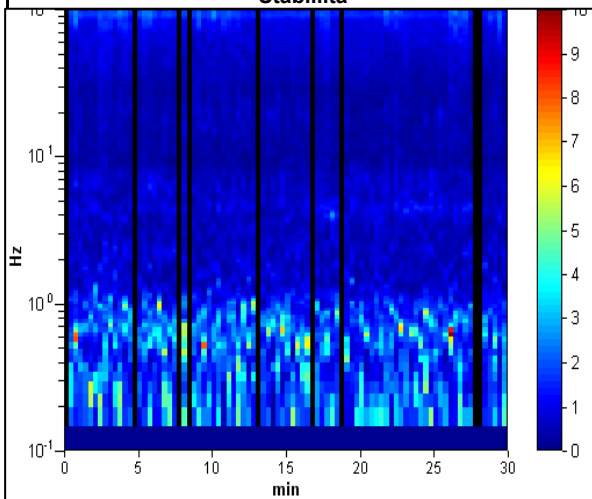
Max. HV at 0.59 ± 0.14 Hz. (In the range 0.0 - 30.0 Hz).



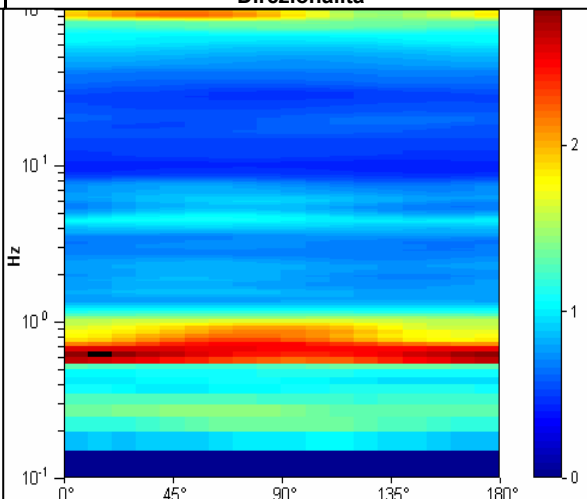
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H63

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

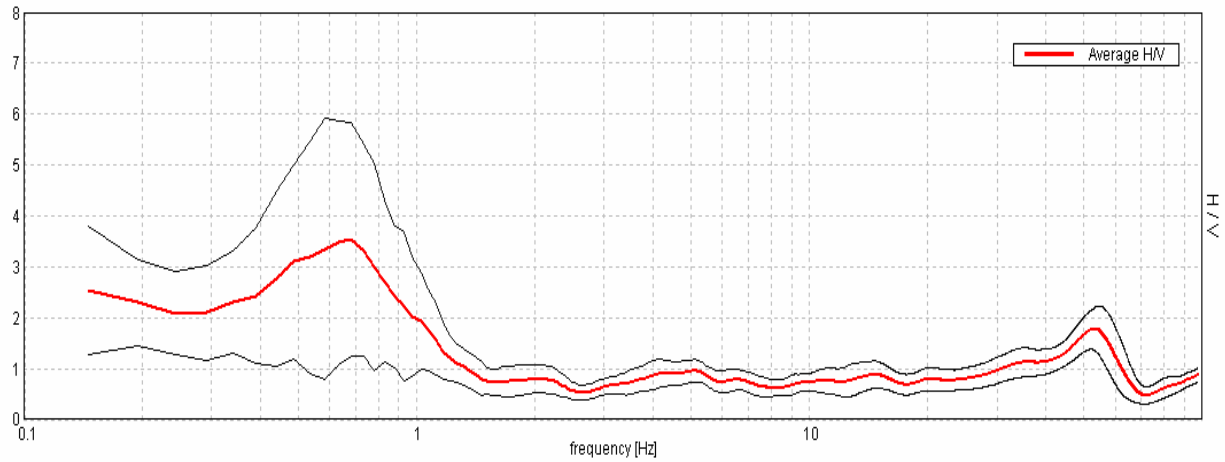
QUOTA: 34 m slm

OPERATORI: Mazzetti M.

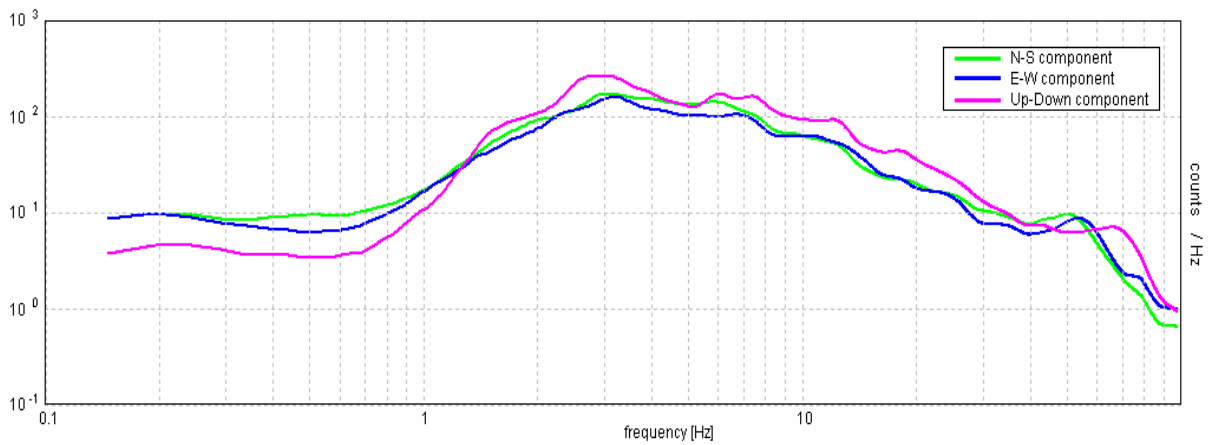
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

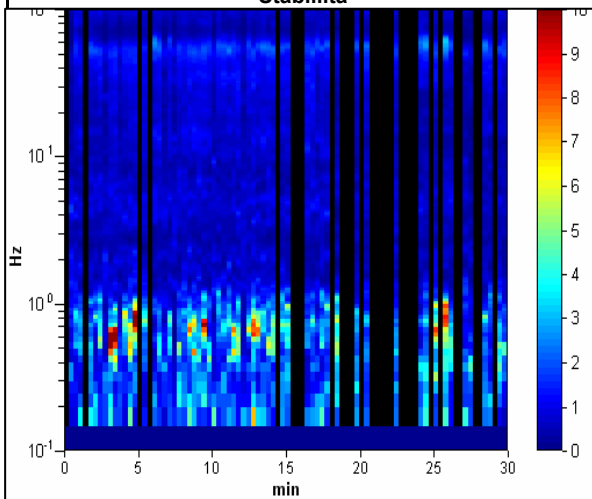
Max. HV at 0.68 ± 0.1 Hz. (In the range 0.0 - 30.0 Hz).



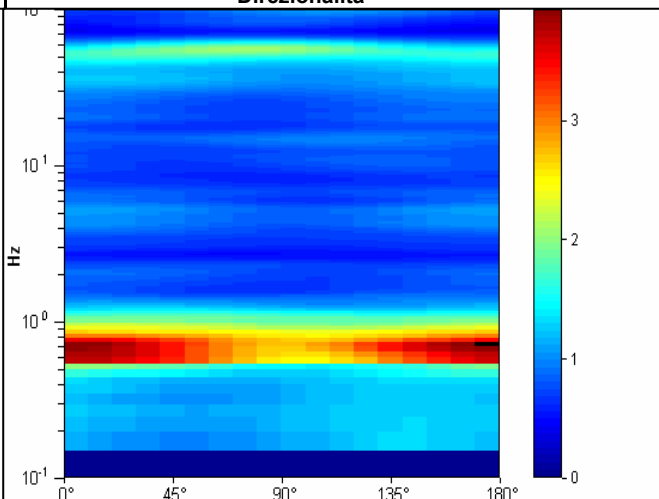
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H64

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

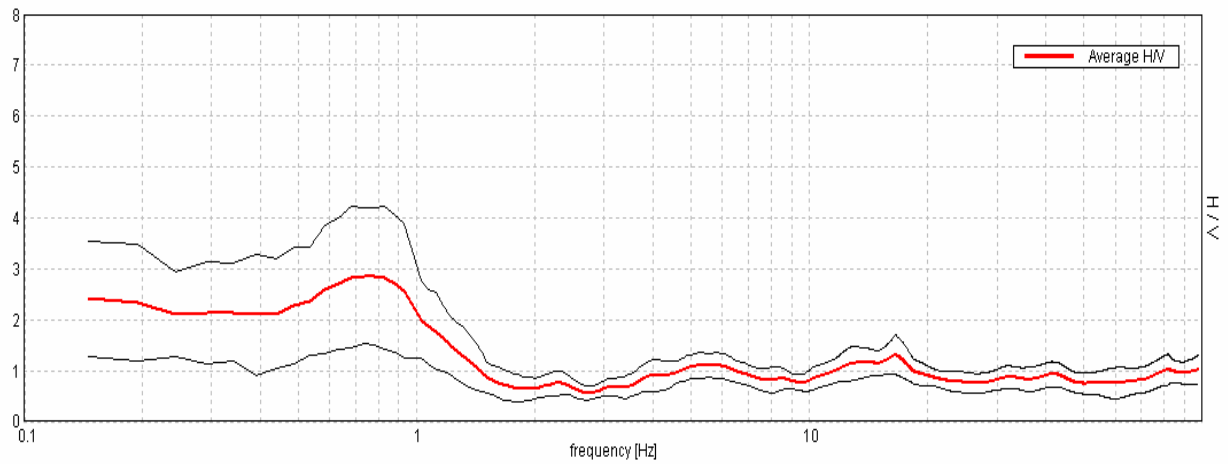
QUOTA: 35,3 m slm

OPERATORI: Mazzetti M.

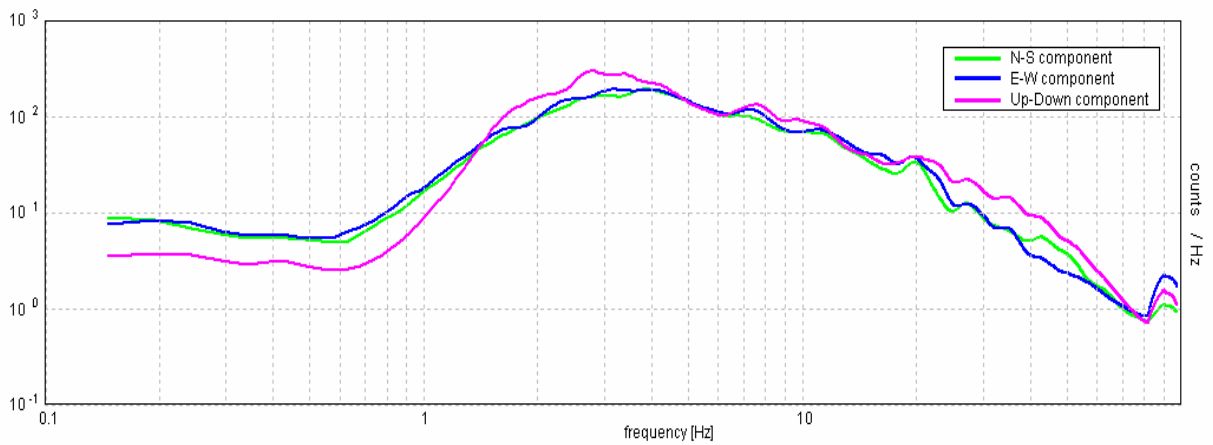
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

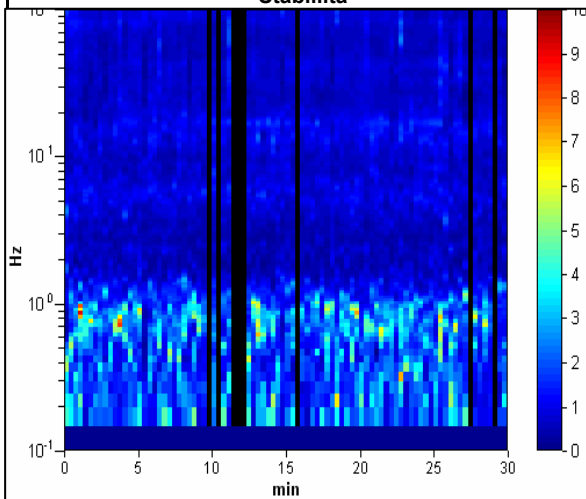
Max. HV at 0.73 ± 0.12 Hz. (In the range 0.0 - 30.0 Hz).



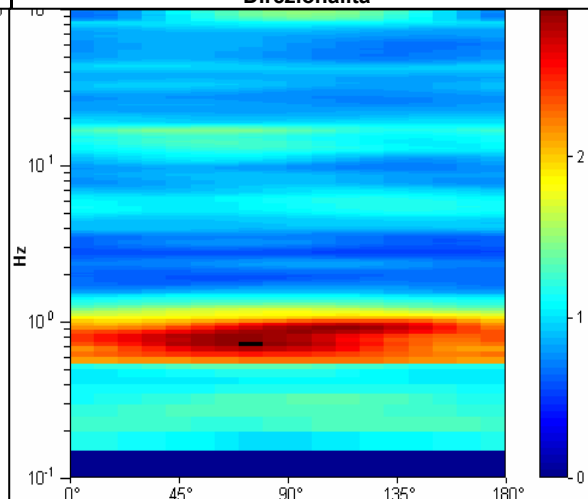
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H65

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

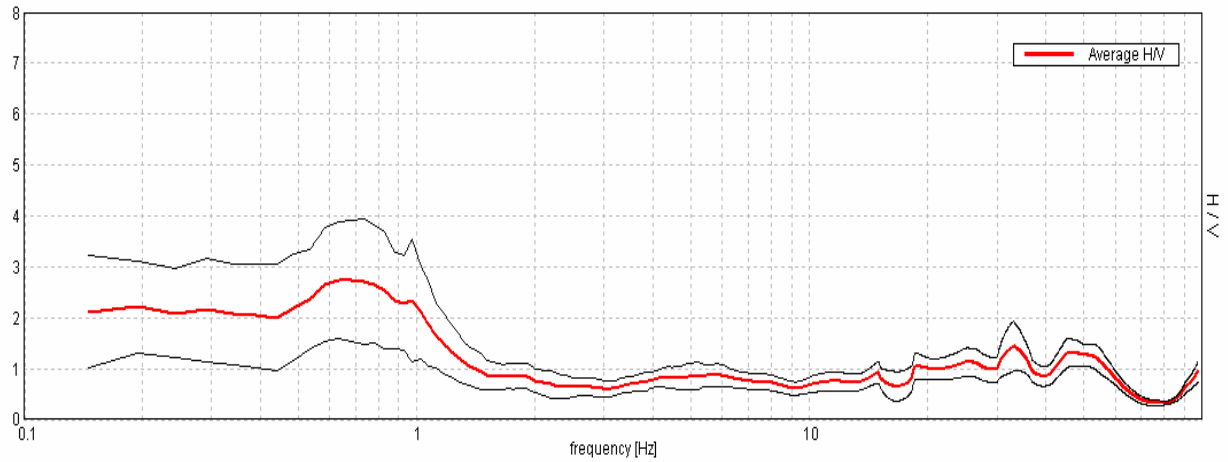
QUOTA: 36,3 m slm

OPERATORI: Mazzetti M.

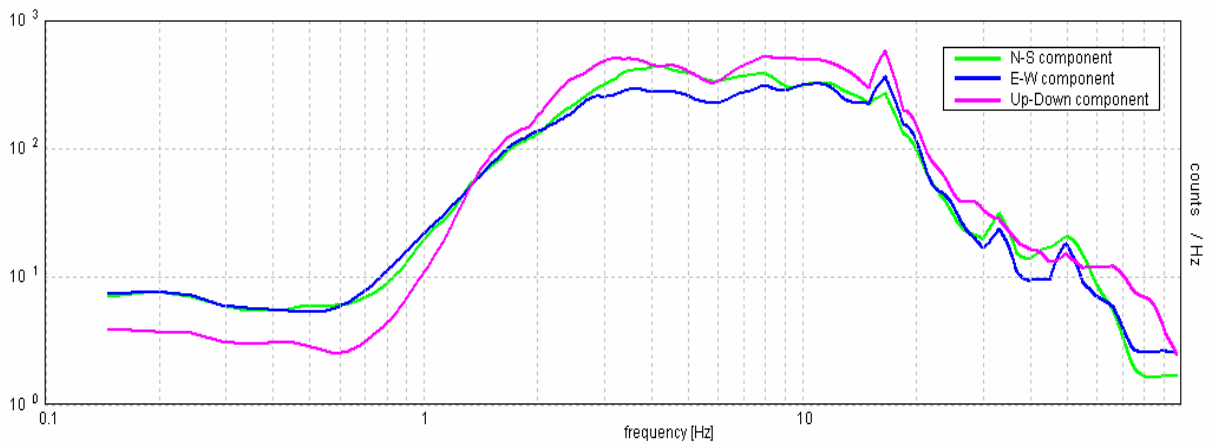
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

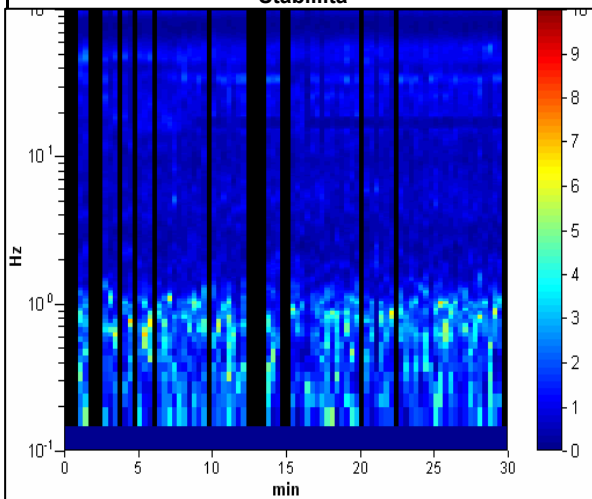
Max. HV at 0.68 ± 0.11 Hz. (In the range 0.0 - 30.0 Hz).



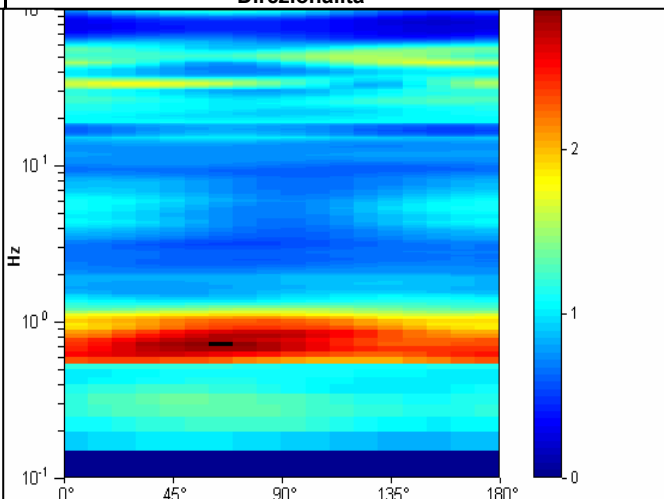
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H66

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

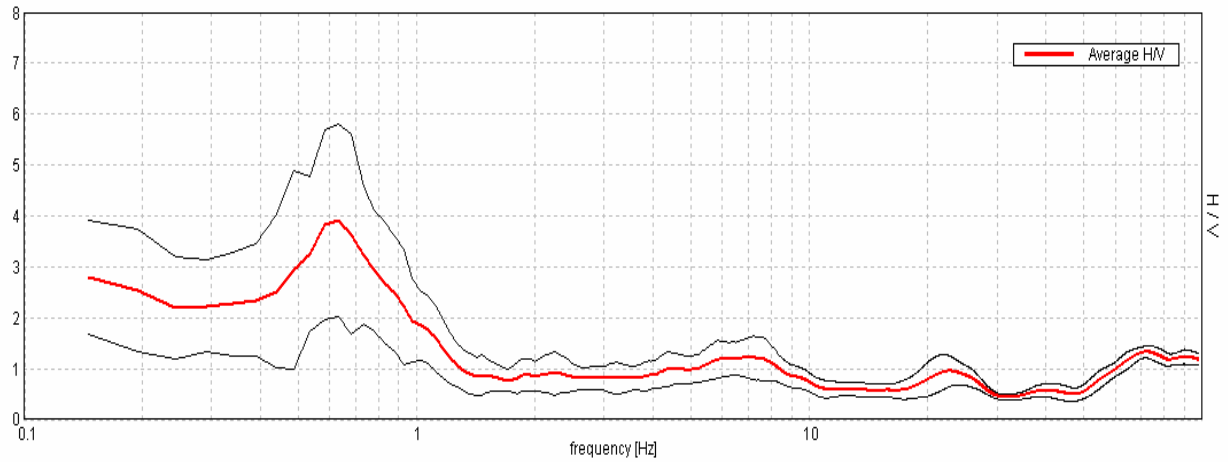
QUOTA: 33 m slm

OPERATORI: Mazzetti M.

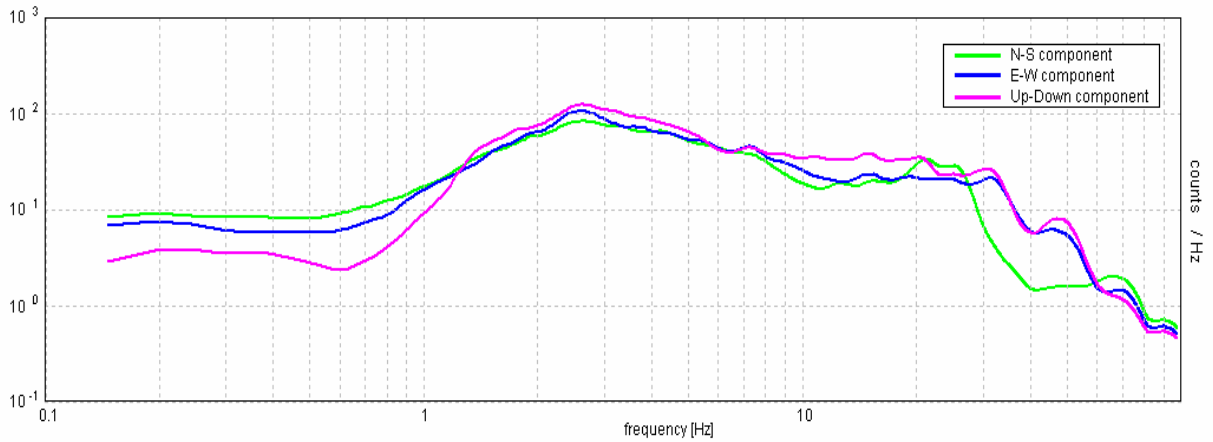
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

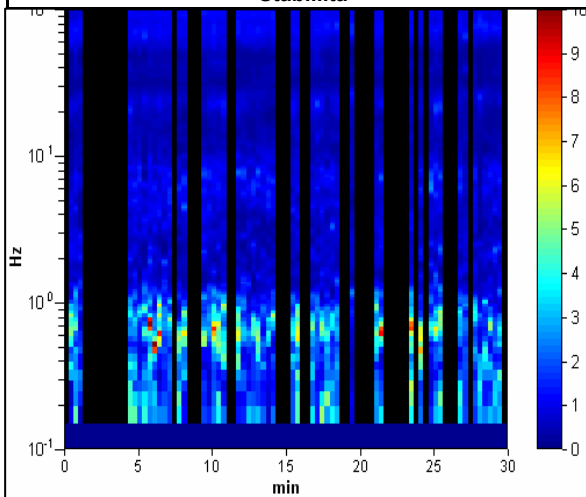
Max. HV at 0.63 ± 0.08 Hz. (In the range 0.0 - 30.0 Hz).



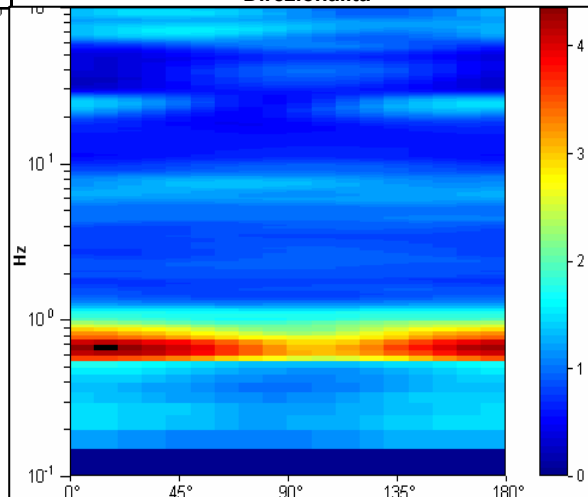
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H67

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

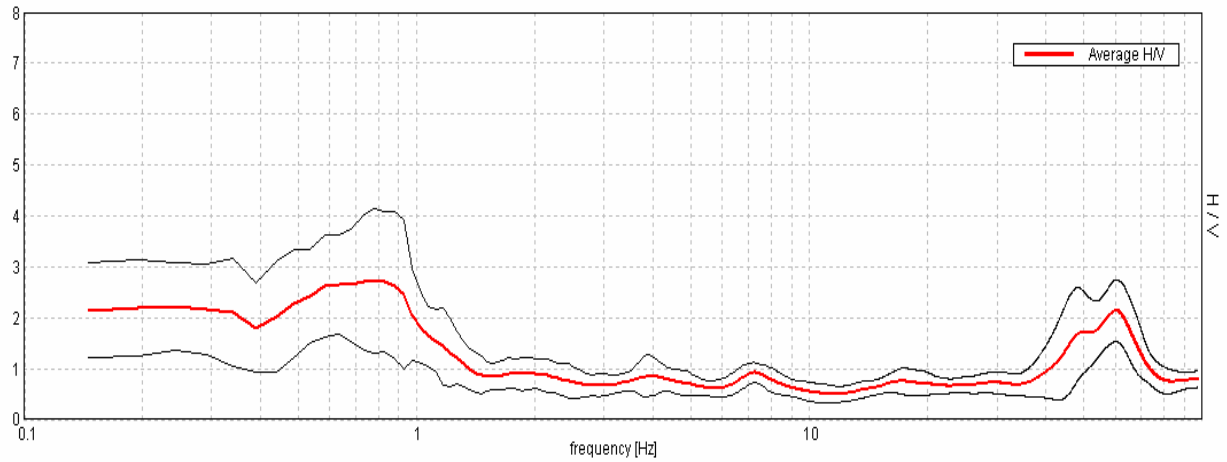
QUOTA: 33,2 m slm

OPERATORI: Mazzetti M.

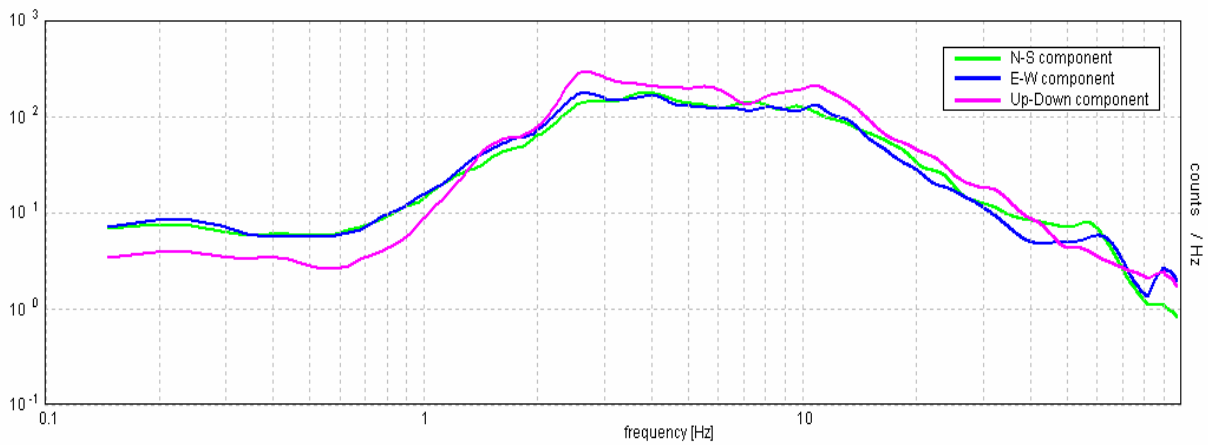
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

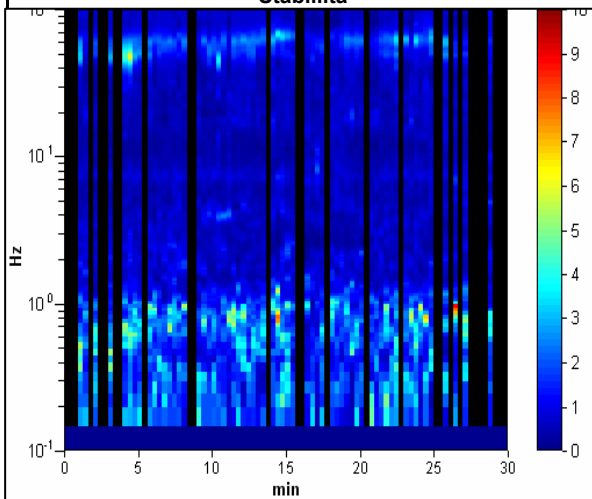
Max. HV at 0.78 ± 0.15 Hz. (In the range 0.0 - 30.0 Hz).



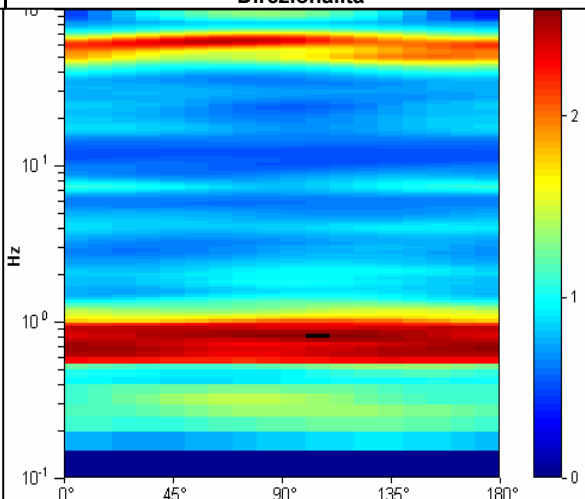
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H68

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 15-03-2013

CANTIERE: Microzonazione sismica 2013

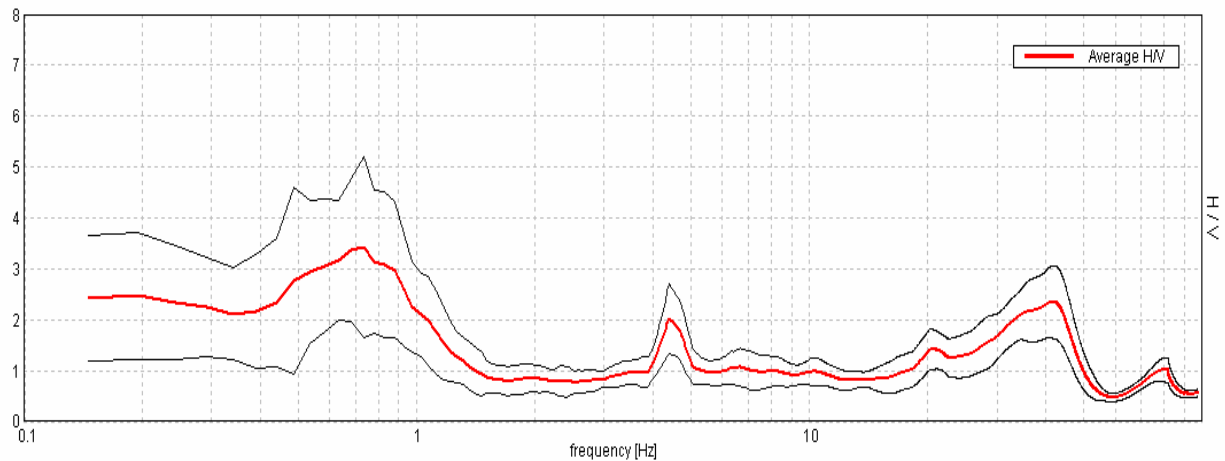
QUOTA: 34,2 m slm

OPERATORI: Mazzetti M.

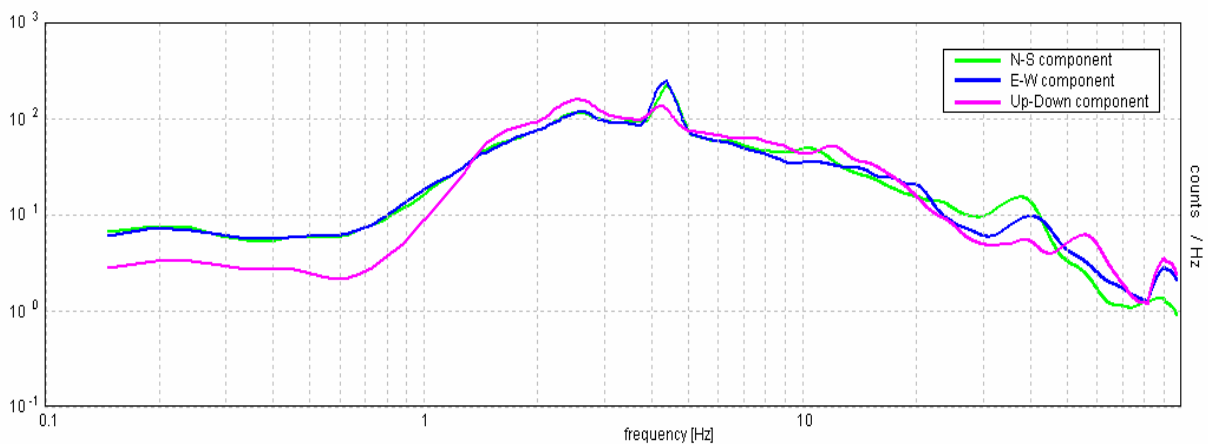
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

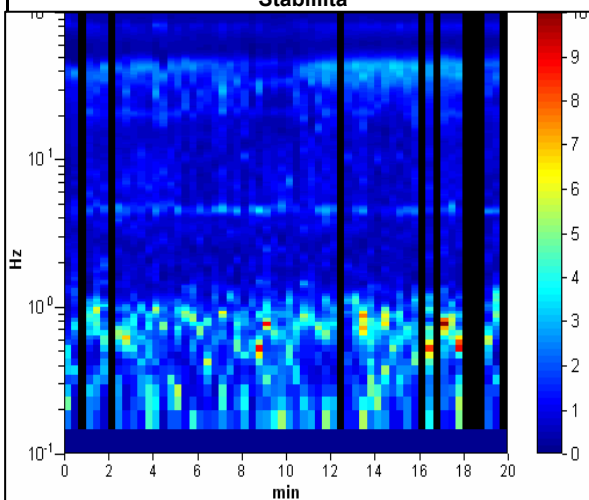
Max. HV at 0.73 ± 0.12 Hz. (In the range 0.0 - 30.0 Hz).



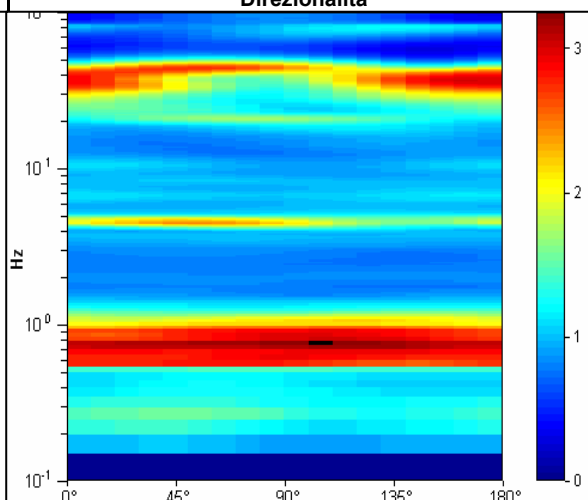
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H69

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 22-03-2013

CANTIERE: Microzonazione sismica 2013

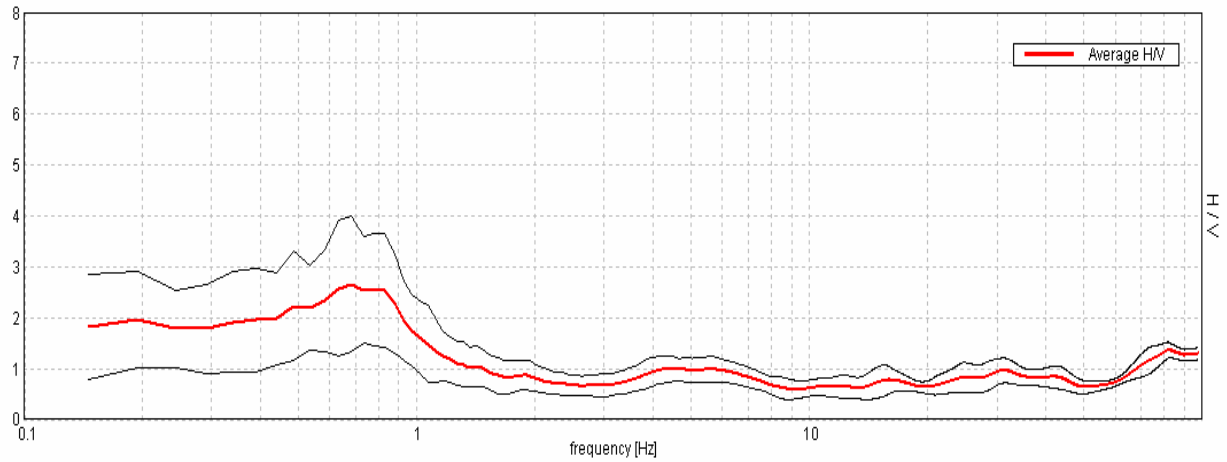
QUOTA: 34,8 m slm

OPERATORI: Mazzetti M.

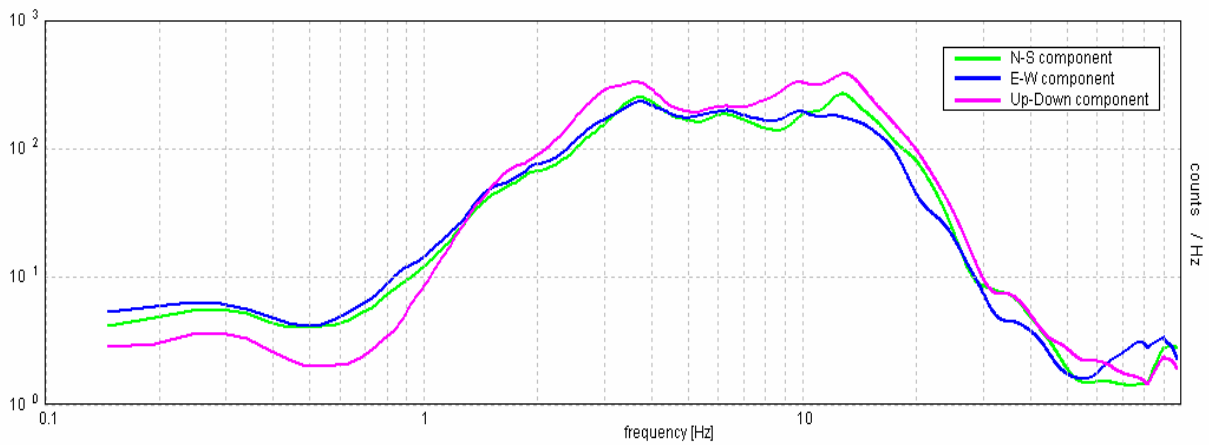
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

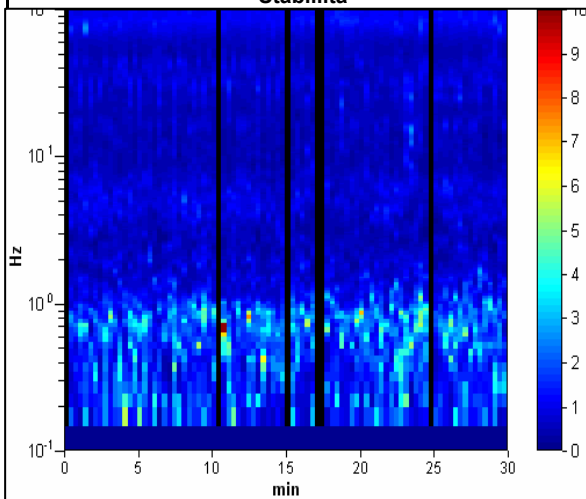
Max. HV at 0.68 ± 0.02 Hz. (In the range 0.0 - 30.0 Hz).



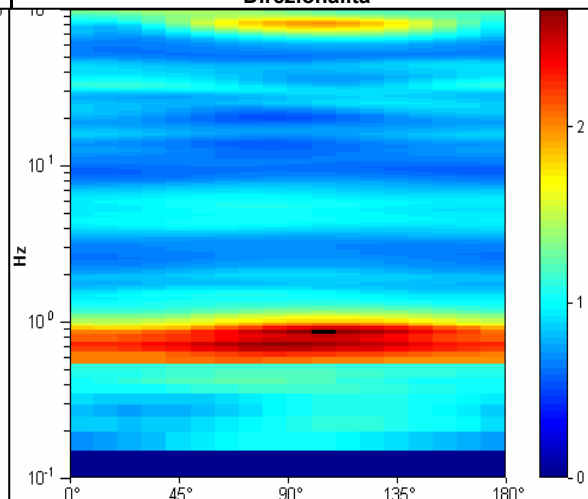
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H70

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 22-03-2013

CANTIERE: Microzonazione sismica 2013

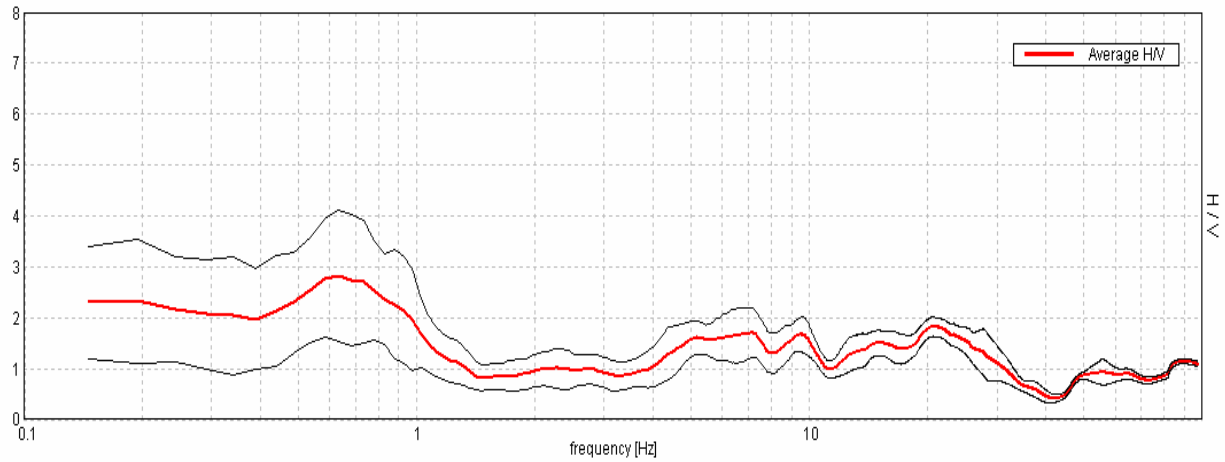
QUOTA: 32,5 m slm

OPERATORI: Mazzetti M.

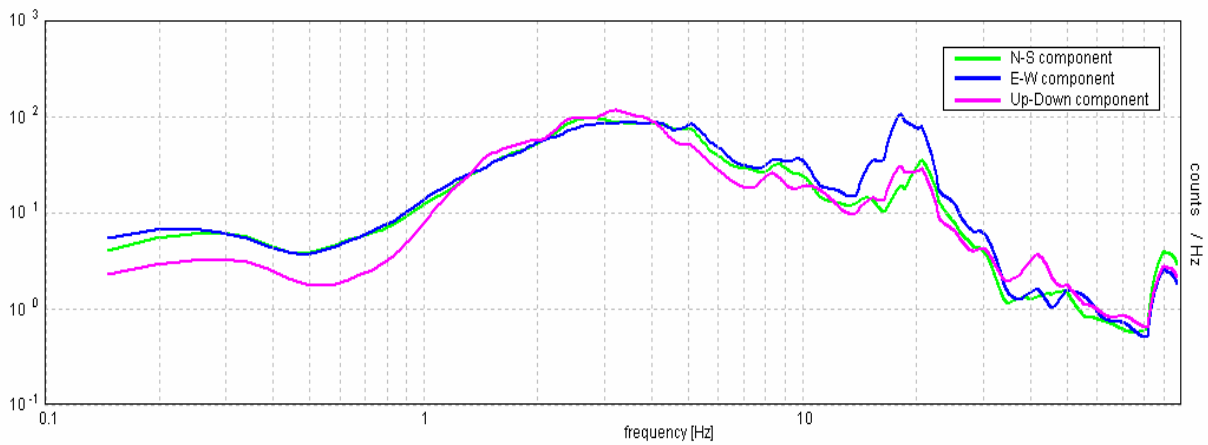
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

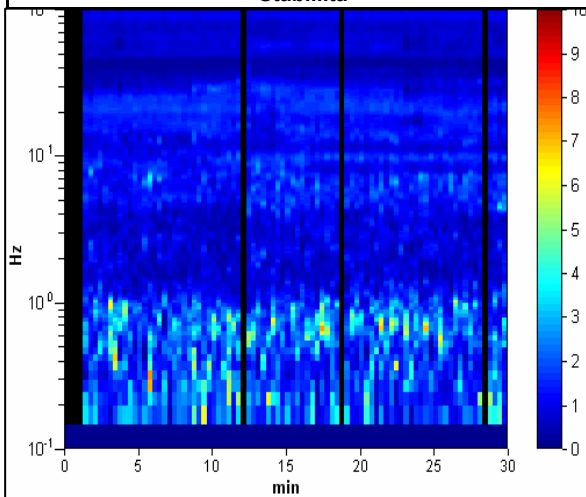
Max. HV at 0.63 ± 0.19 Hz. (In the range 0.0 - 30.0 Hz).



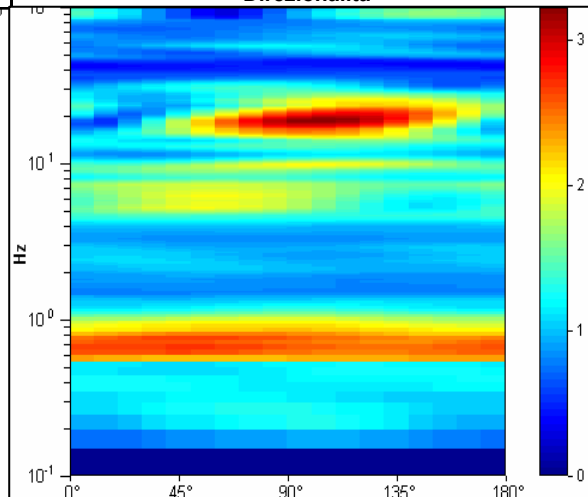
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H71

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 22-03-2013

CANTIERE: Microzonazione sismica 2013

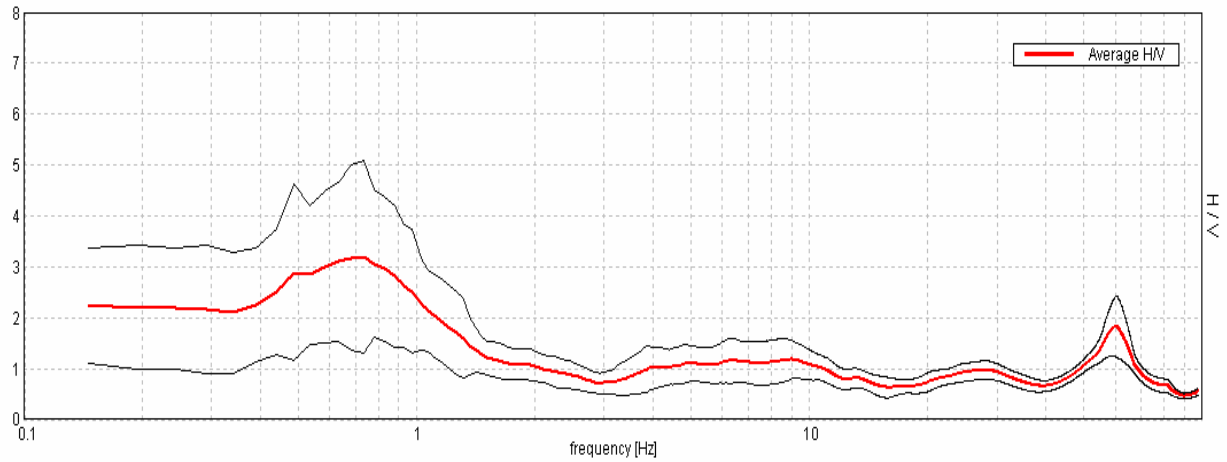
QUOTA: 35,8 m slm

OPERATORI: Mazzetti M.

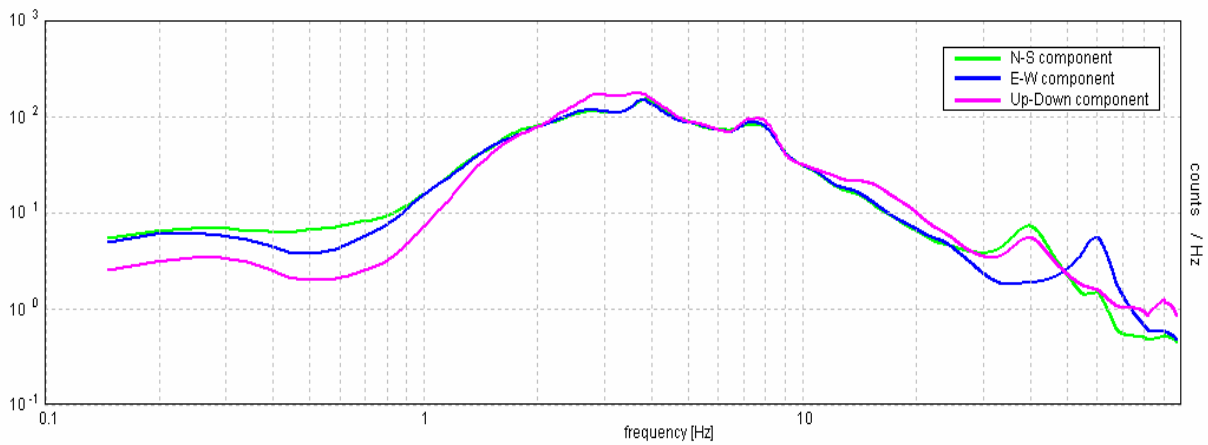
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

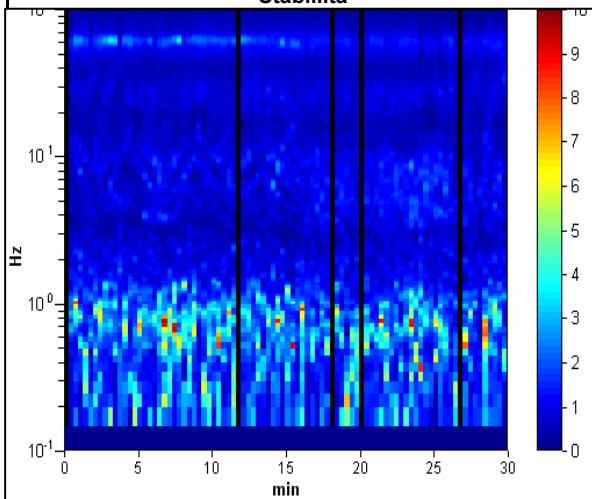
Max. HV at 0.73 ± 0.09 Hz. (In the range 0.0 - 30.0 Hz).



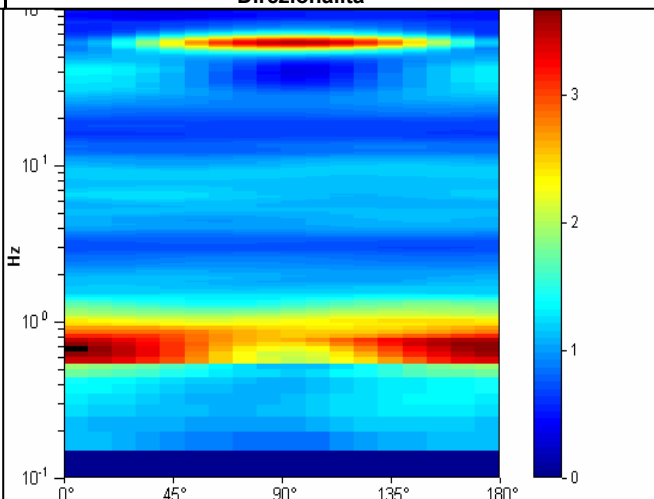
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H72

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 22-03-2013

CANTIERE: Microzonazione sismica 2013

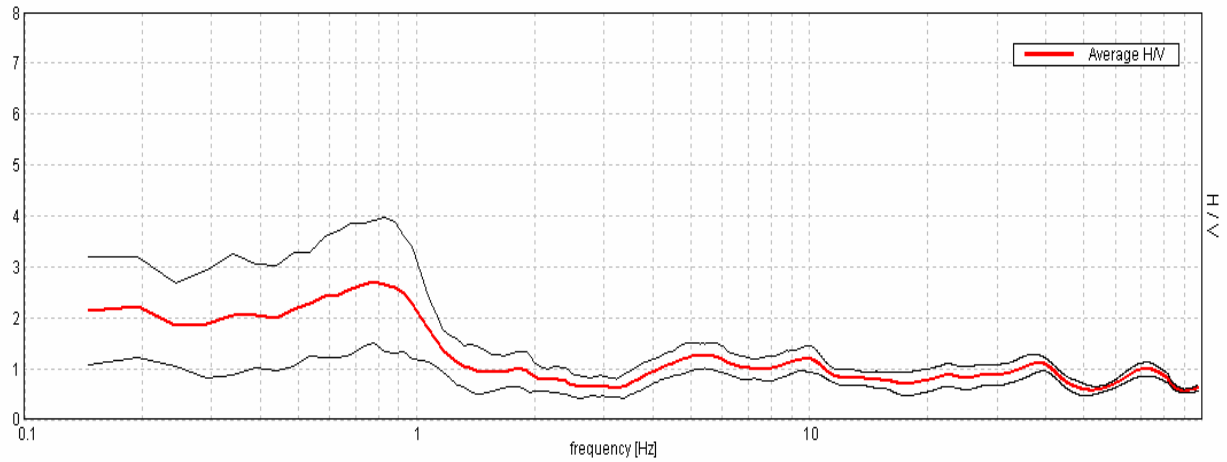
QUOTA: 36,5 m slm

OPERATORI: Mazzetti M.

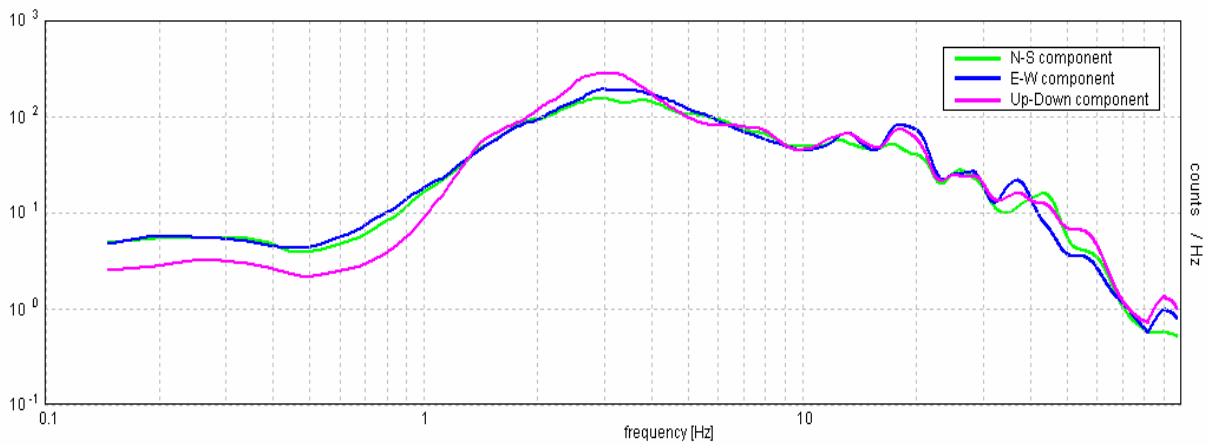
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

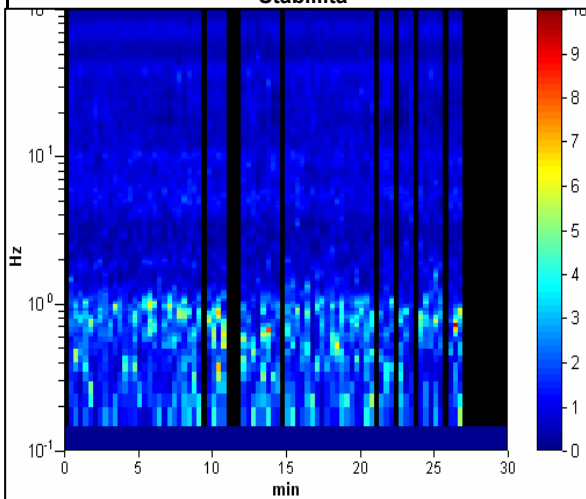
Max. HV at 0.78 ± 0.1 Hz. (In the range 0.0 - 30.0 Hz).



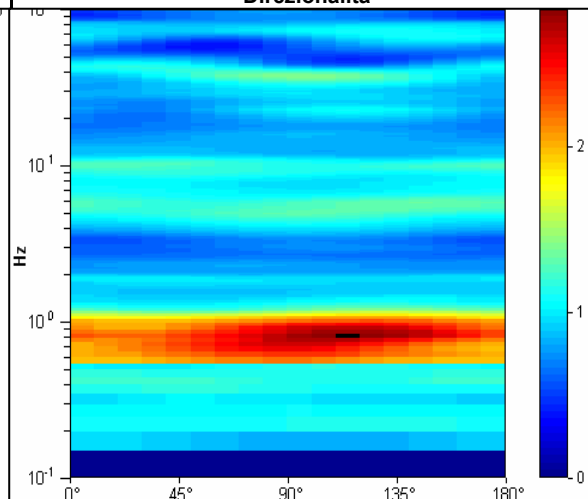
Ampiezza spettrale



Stabilità



Direzionalità

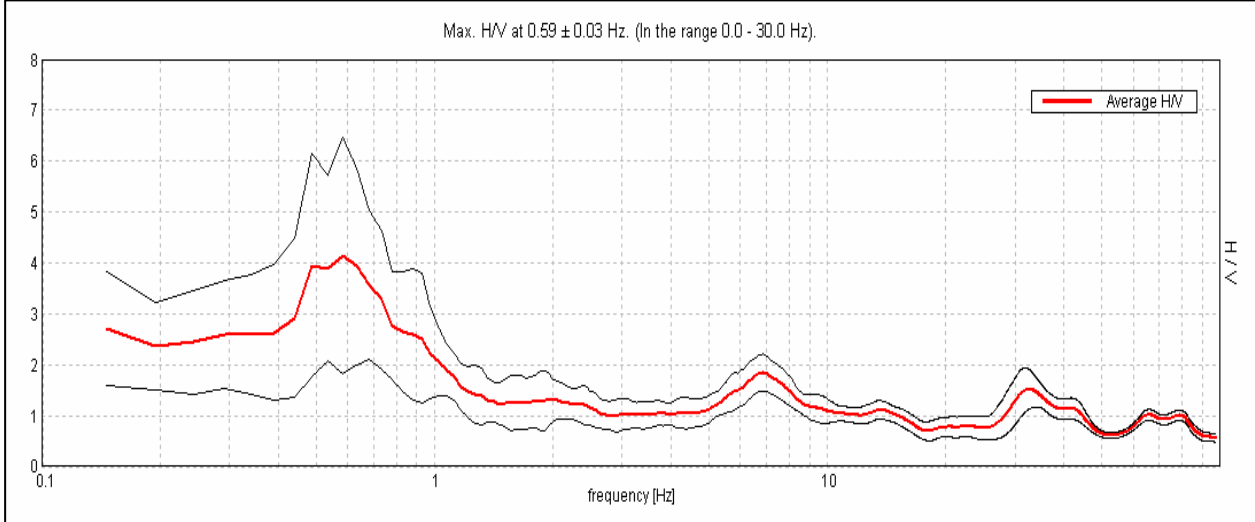


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H73
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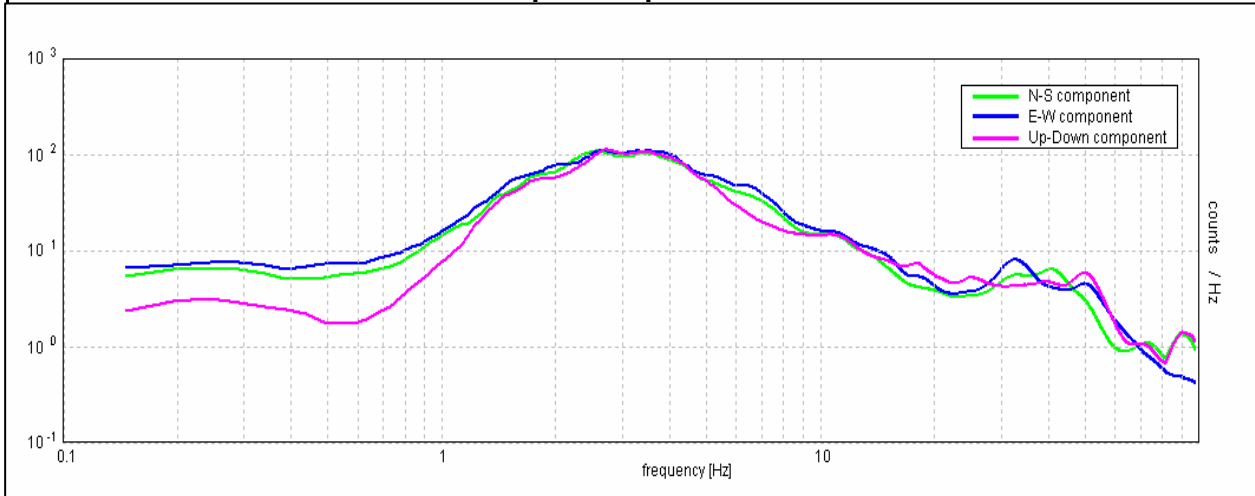
LOCALITA': Campogalliano (MO)	COMMITTENTE: Amm. Comun. Campogalliano
DATA: 22-03-2013	CANTIERE: Microzonazione sismica 2013
QUOTA: 34,2 m slm	OPERATORI: Mazzetti M.

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

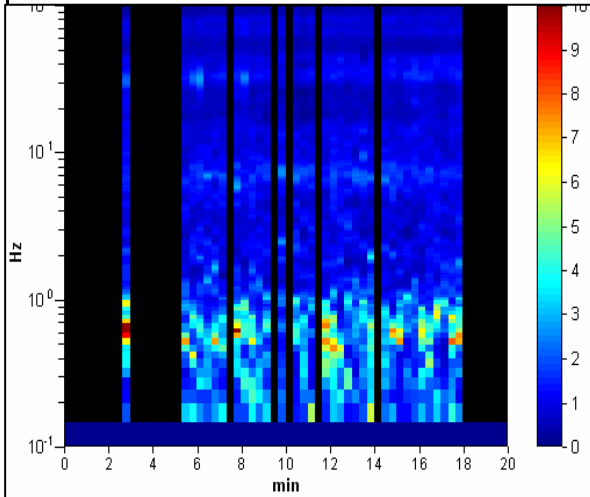
Rapporto spettrale



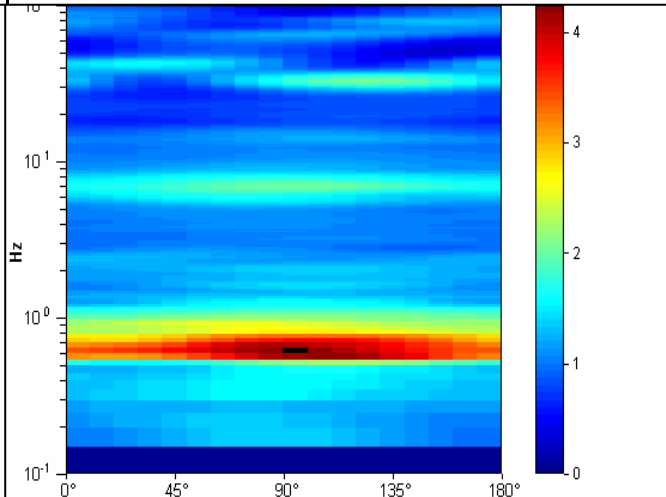
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H74

LOCALITA': Campogalliano (MO)

COMMITTENTE: Amm. Comun. Campogalliano

DATA: 22-03-2013

CANTIERE: Microzonazione sismica 2013

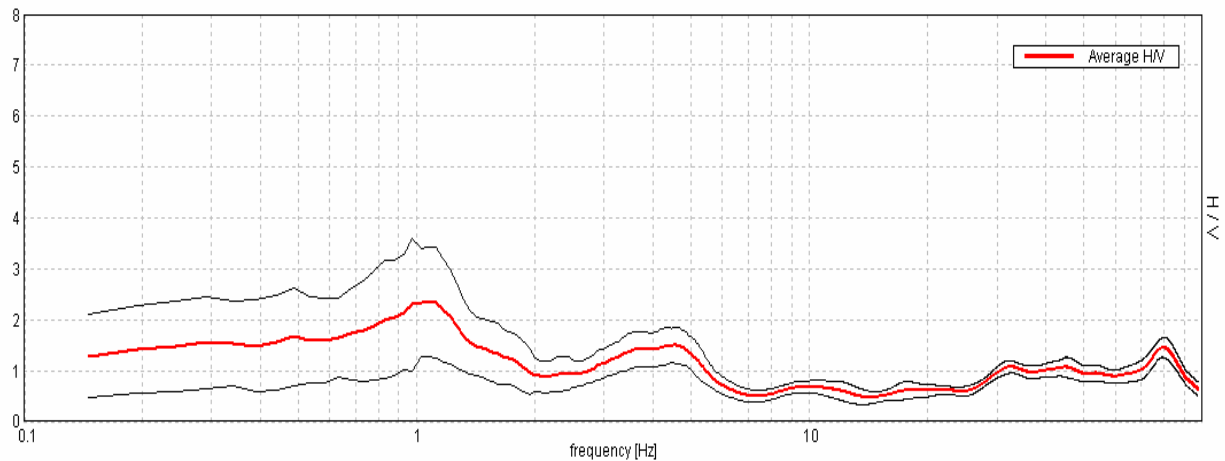
QUOTA: 40 m slm

OPERATORI: Mazzetti M.

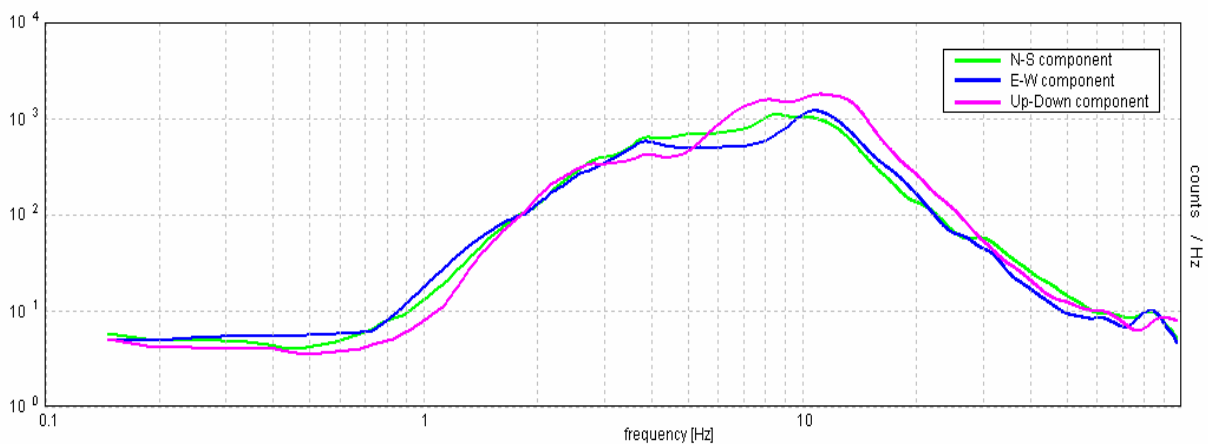
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

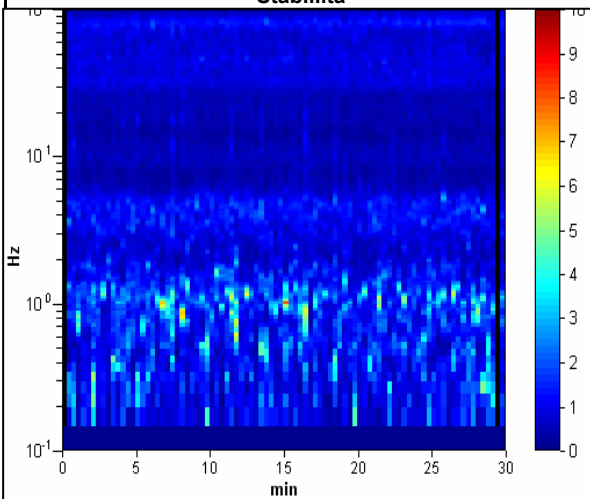
Max. HV at 1.07 ± 0.13 Hz. (In the range 0.0 - 30.0 Hz).



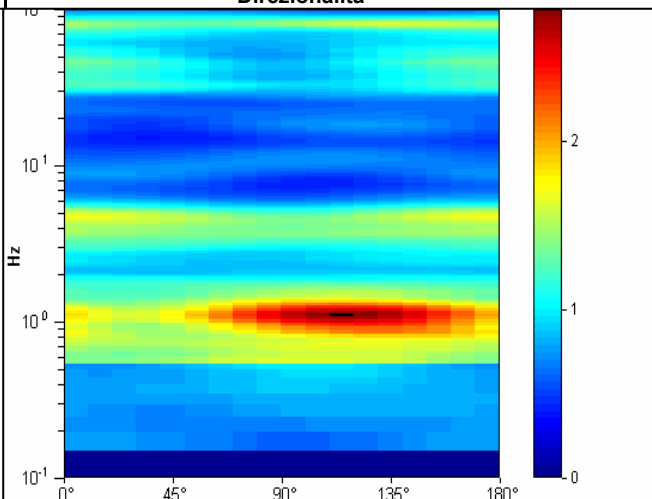
Ampiezza spettrale



Stabilità



Direzionalità



INDAGINI PREGRESSE

STUDIO GEOLOGICO CENTROGEO

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

STENDIMENTI SISMICI

Re.Mi.

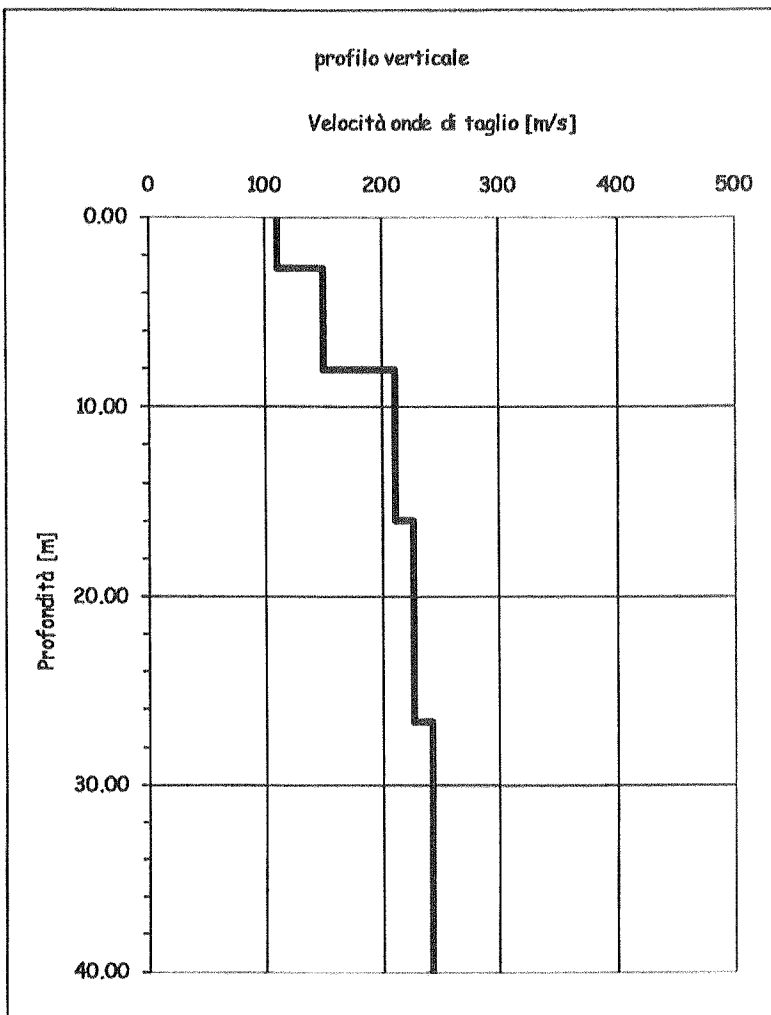
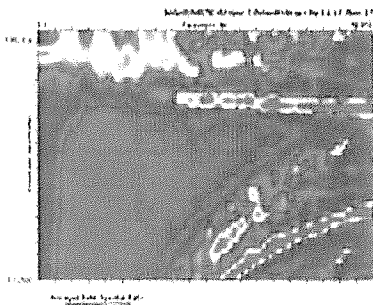
STUDIO GEOLOGICO CENTROGEO

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

R101

strati	Prof.	H	Vs	tempi
1	2.67	1.67	112	0.01489
2	8.00	5.33	150	0.03544
3	16.00	8.00	211	0.03792
4	26.67	10.67	228	0.04688
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
ULTIMO	31.00	4.33	244	0.01775
Somma tempi				0.15288
Vs30				196
CLASSE				C

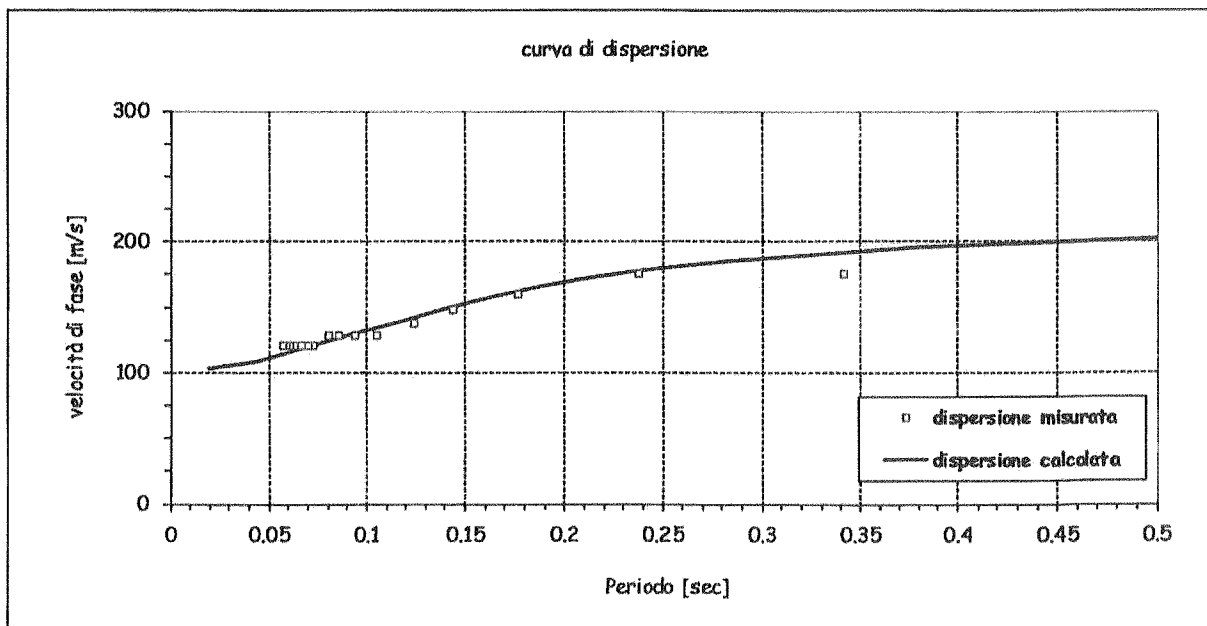
Vs Refraction Microtremor



località **Panzano**

Prof. Posa Fond. **1**

Sond. N° **n.1**

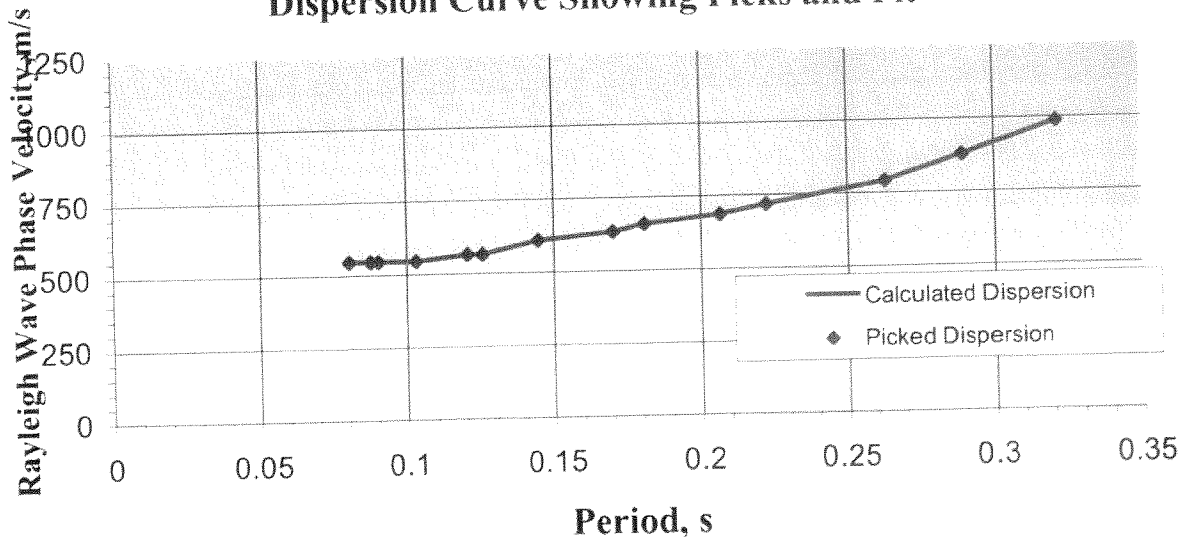


Determinazione della Vs30

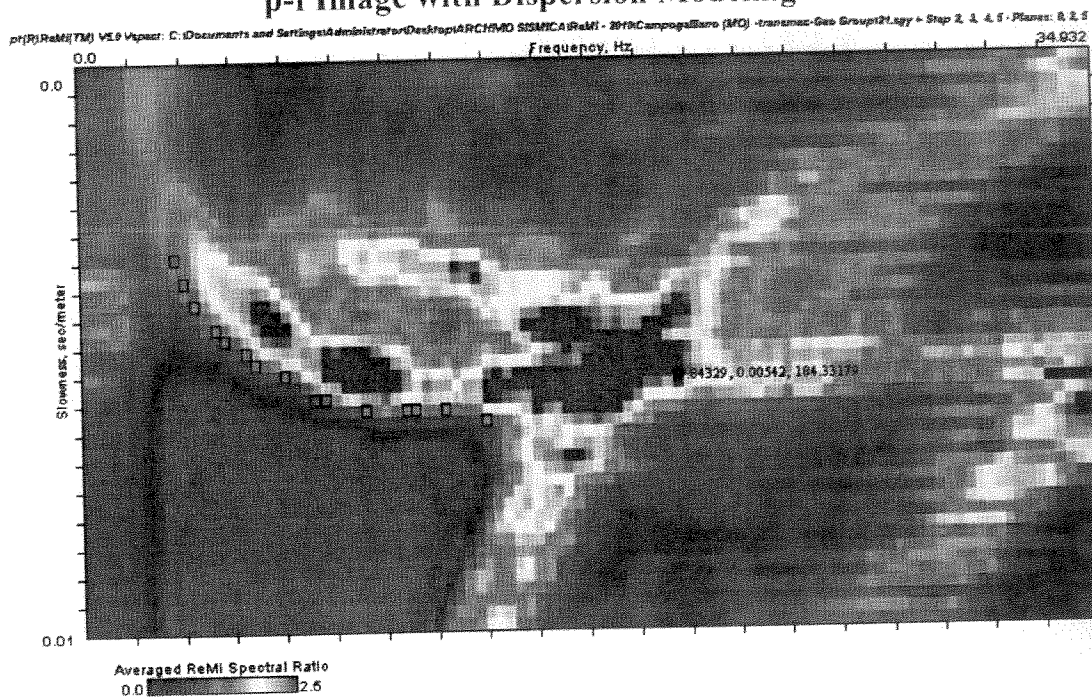
PROVE PENETROMETRICHE S.r.l.
 41051 - Castelnuovo Rangone (MO) Tel. 059 - 535046 / Fax 059 - 539166
 e-mail: provepenetrometriche@alice.it - www.provepenetrometriche.com

Campogalliano (MO) - 17/03/2010

Dispersion Curve Showing Picks and Fit



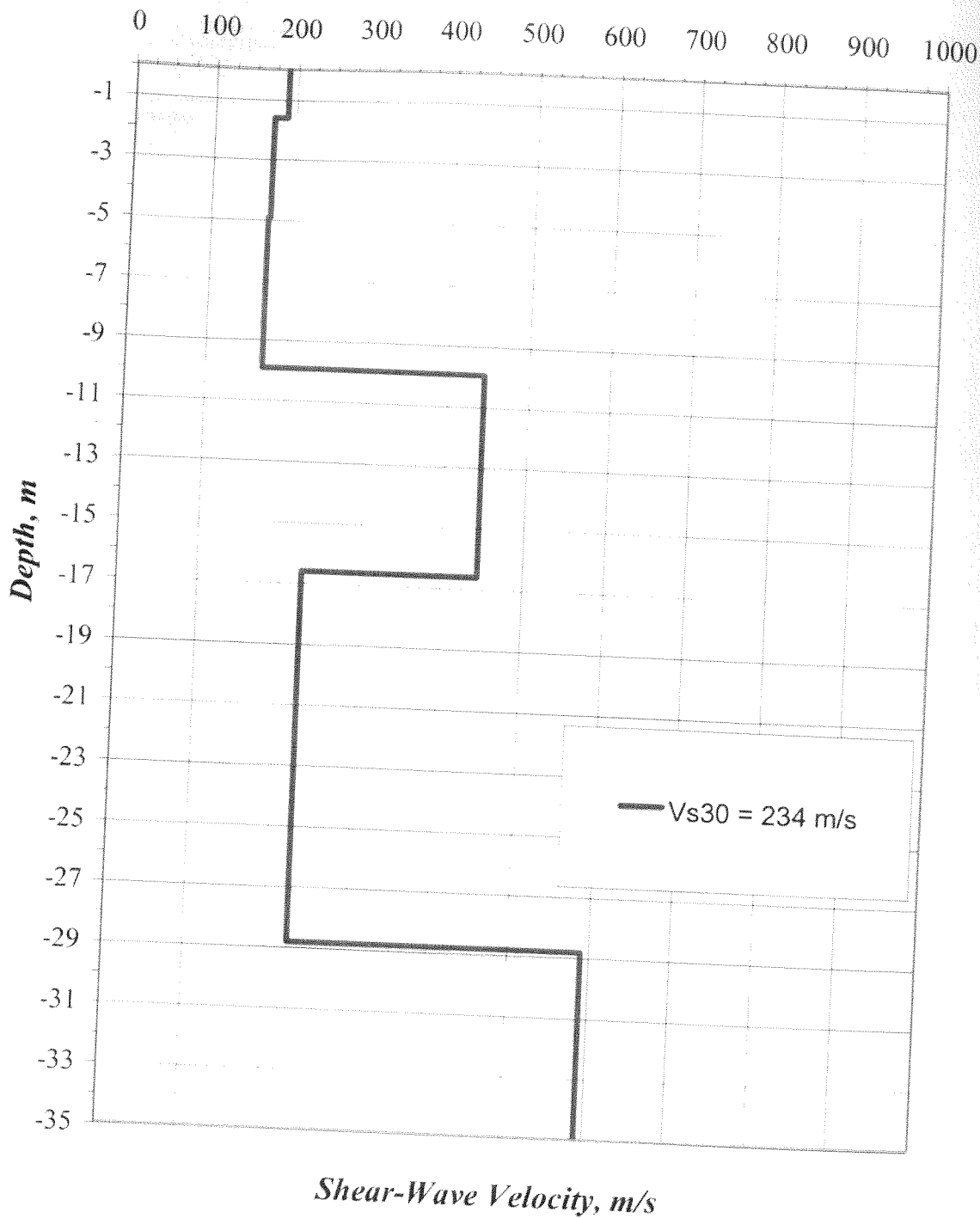
p-f Image with Dispersion Modeling Picks



PROVE PENETROMETRICHE
 ELABORAZIONE DATI
 IL TECNICO

Sondaggi a carotaggio continuo e trivellazioni-penetrometrie dinamiche DPL, DPH, DPSH, SPT, SCPT
 penetrometrie statiche con piezocono o punta meccanica-prove di permeabilità in sito, piezometri, inclinometri-geofisica

Campogalliano (MO) - 17/03/2010
Vs Model



Shear-Wave Velocity, m/s

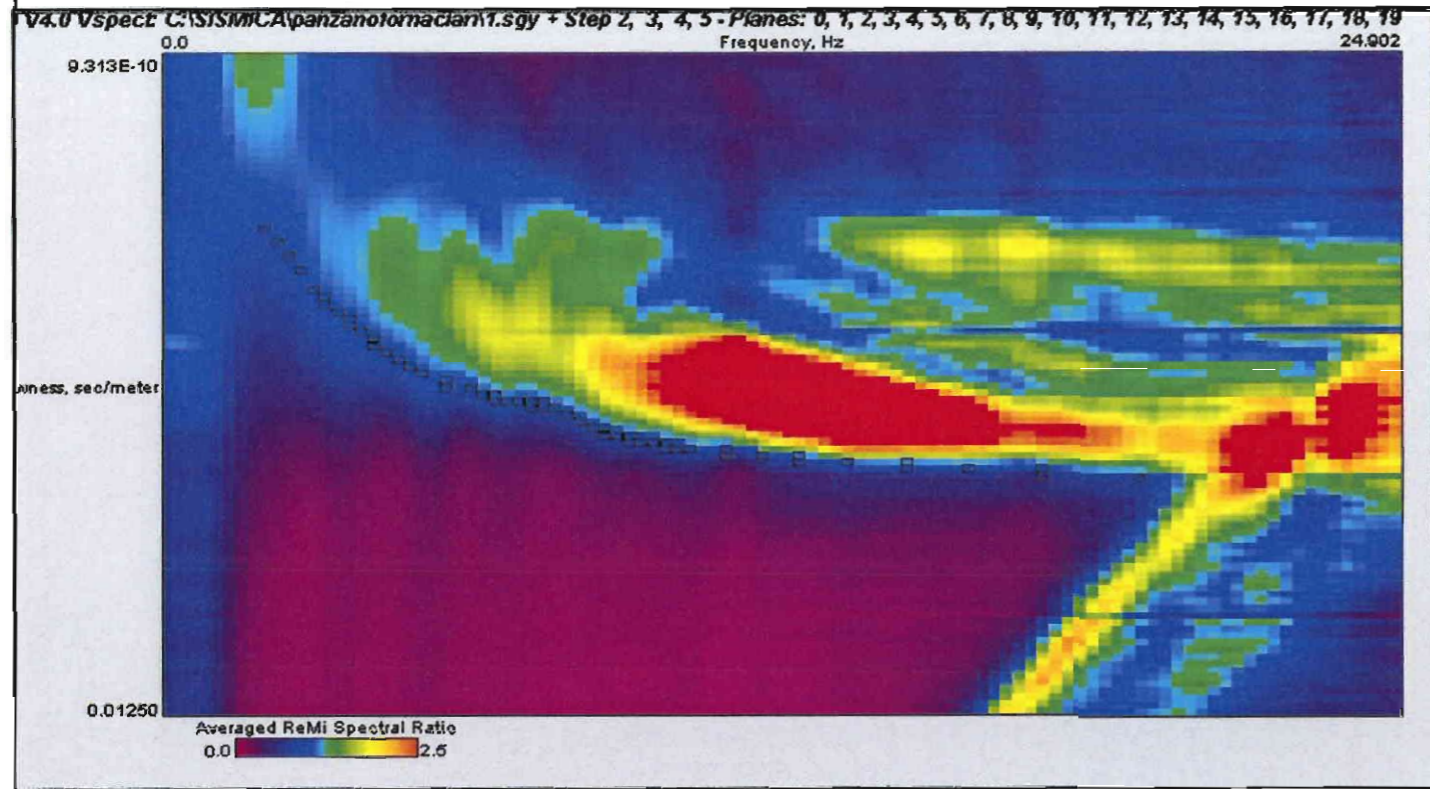
PROVE PENETROMETRICHE srl
ELABORAZIONE DATI
IL TECNICO

R103

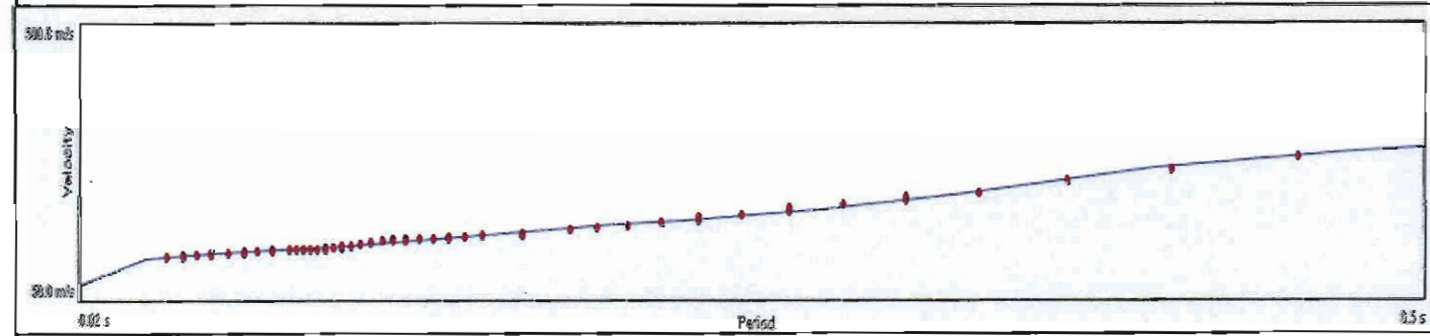
INDAGINE Re.Mi. N° 1

CENTROGEO SURVEY S.n.c. P.zza S.Quirino, 6 - 42015 CORREGGIO	COMMITTENTE: Dr. Andrea Fornaciari
LOCALITA': Panzano di Campogalliano (MO)	CANTIERE: Costruzione edificio
DATA: 08-06-2007	OPERATORI: Dr. Gallarotti - Mazzetti M.
QUOTA: 32,5 m slm	

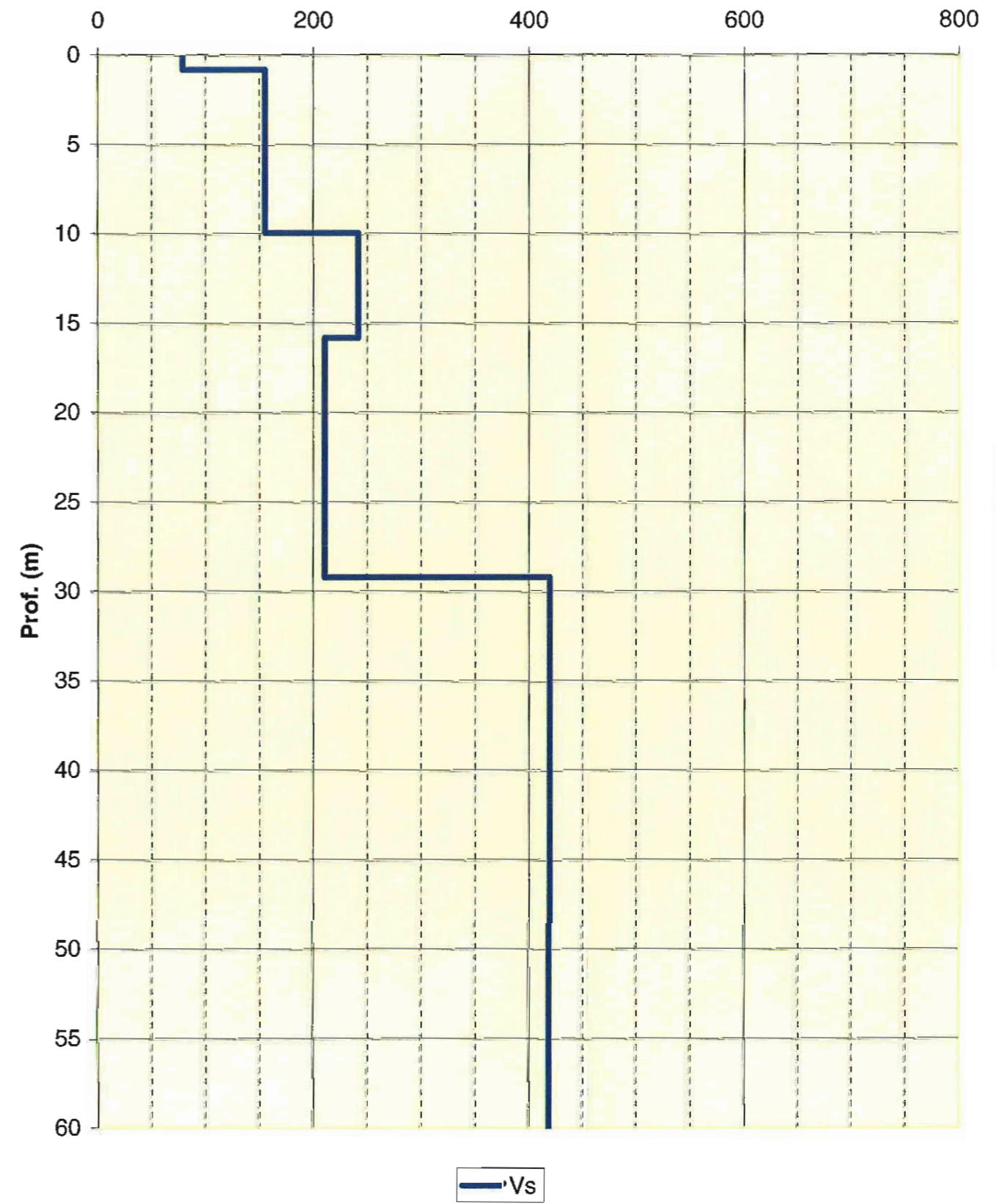
Spettro di potenza



Curva di dispersione



Modello interpretativo profilo Vs (m/s)



STENDIMENTI SISMICI MASW

STUDIO GEOLOGICO CENTROGEO

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

Figura 32: ANDAMENTO DELLA CURVA DI DISPERSIONE MISURATA

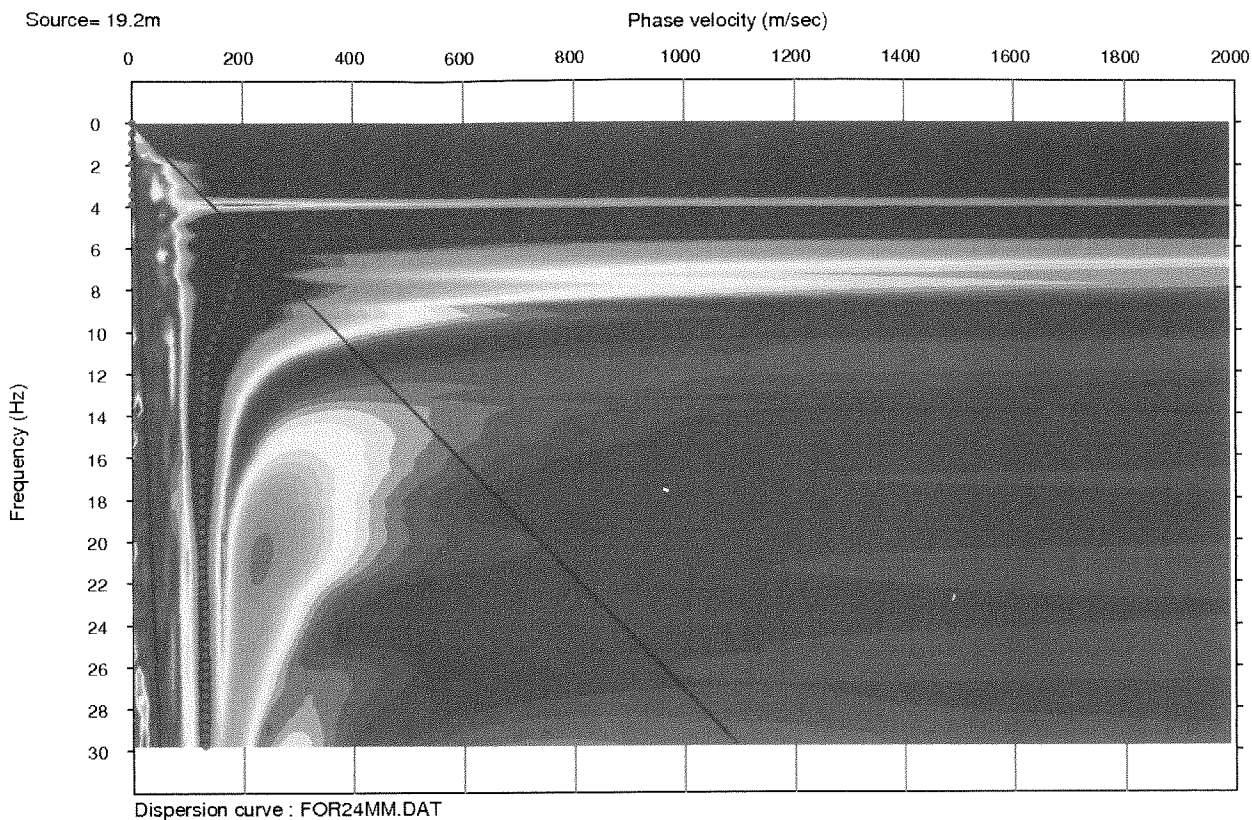


Figura 33: ANDAMENTO DELLE FREQUENZE RILEVATE E DELLA VELOCITA' DI FASE

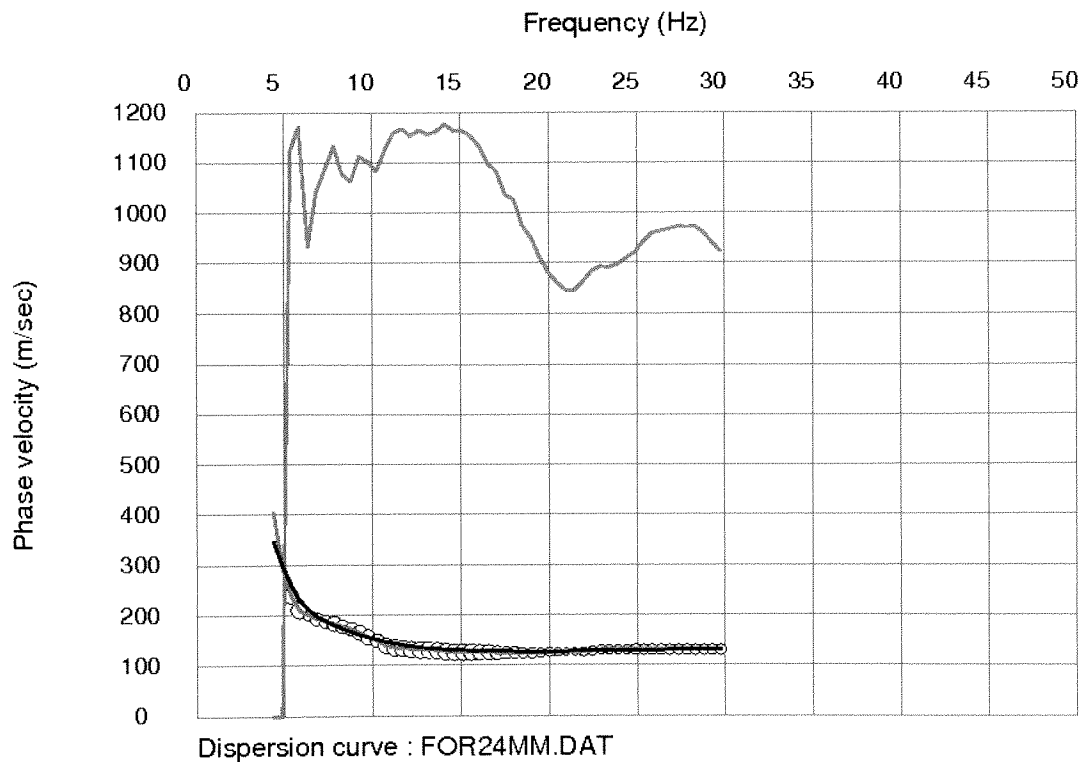
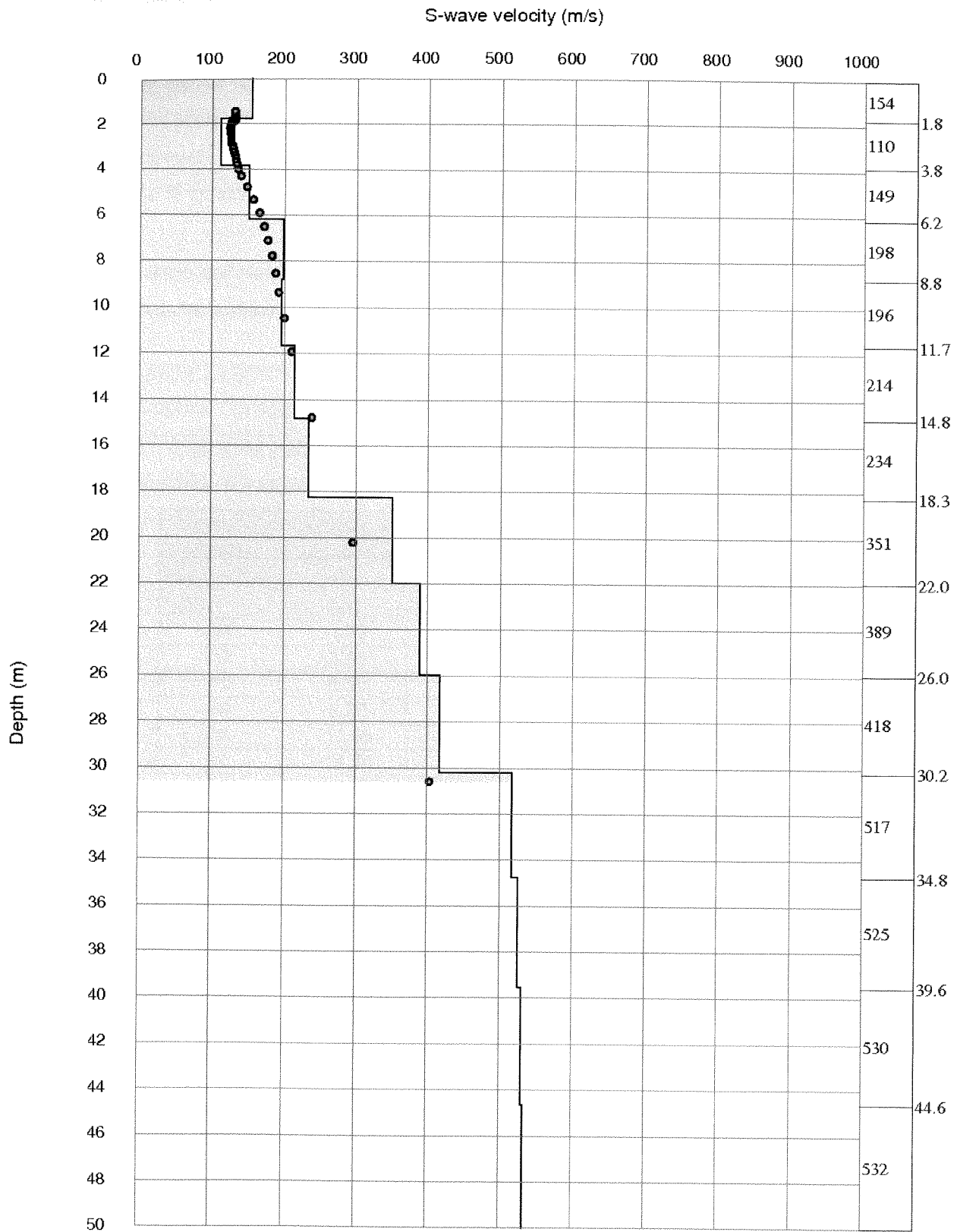


Figura 34: ANDAMENTO DELLE VELOCITA' DI TAGLIO DELLE ONDE SISMICHE CON IL PROCESSO DI INVERSIONE



S-wave velocity model (inverted): FOR24MM.DAT

Average V_s 30m = 224.8 m/sec

MW102

winMASW 4.1.1 Pro - Inversion of Surface-Wave Dispersion Curves

Main results

See "winMASW_report.txt" for further details.

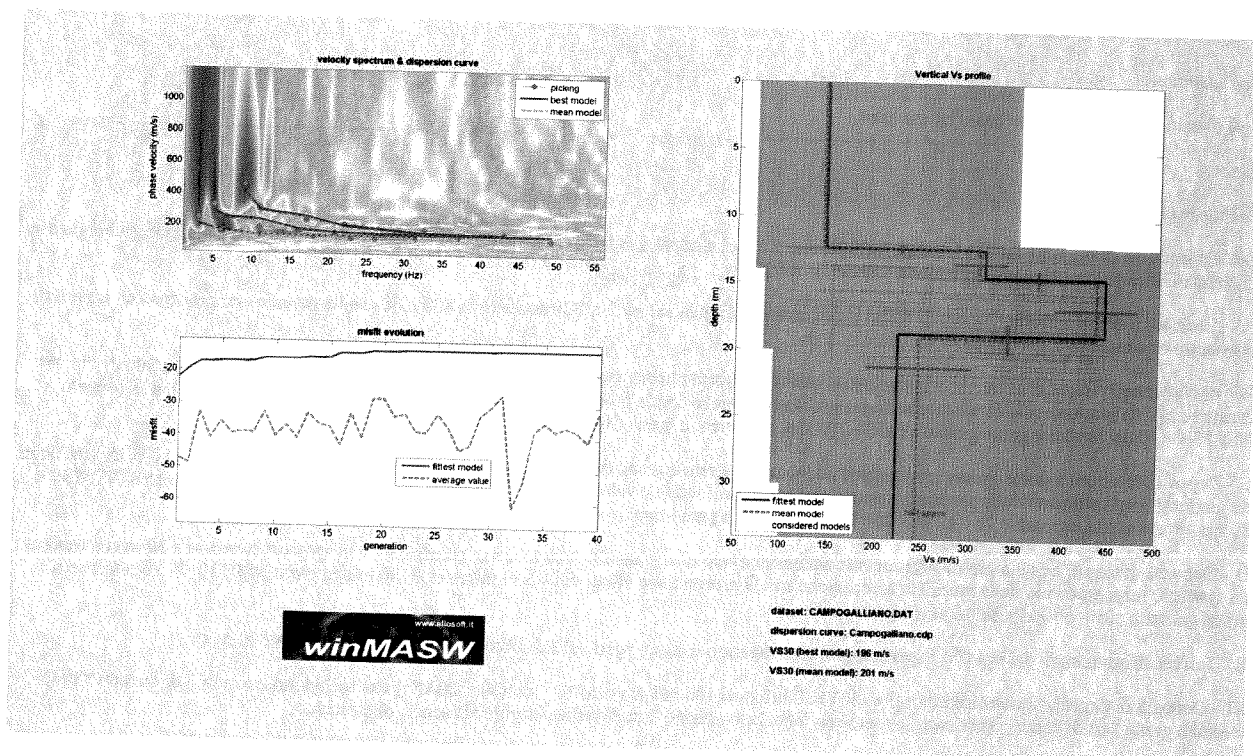
www.eliosoft.it

Date: 18 3 2011

Time: 14 23

Dataset: CAMPOGALLIANO.DAT

Considered dispersion curve: Campogalliano.cdp



Mean model

Vs (m/s): 142, 309, 434, 245

Standard deviations (m/s): 3, 29, 44, 56

Thickness (m): 12.4, 2.2, 4.4

Standard deviations (m/s): 0.3, 0.7, 1.2

Density (gr/cm³): 1.76, 1.95, 2.03, 1.87

Shear modulus (MPa): 35, 186, 382, 112

Analysis: Rayleigh Waves

INDAGINI HVSR

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

H101

TROMINO® *Grilla*
www.tromino.it

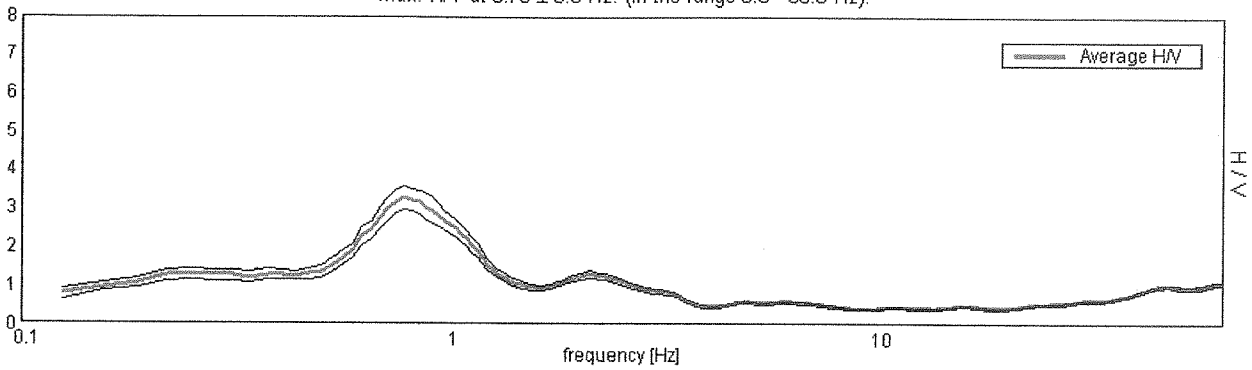
CAMPOGALLIANO (MO), VIA ROMA

Start recording: 26/05/11 10:19:15 End recording: 26/05/11 10:49:16
Channel labels: NORTH SOUTH; EAST WEST; UP DOWN
GPS data not available

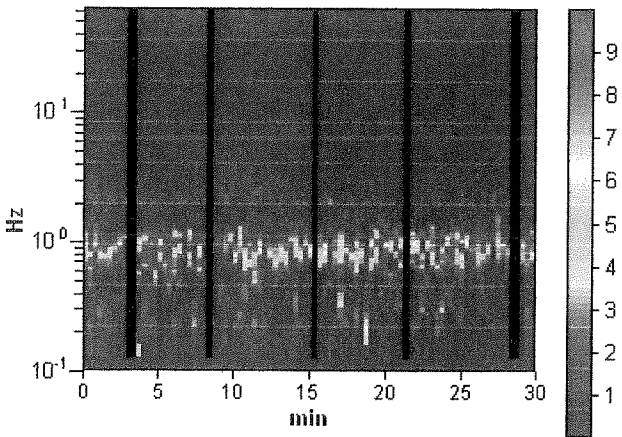
Trace length: 0h30'00". Analyzed 92% trace (manual window selection)
Sampling frequency: 128 Hz
Window size: 20 s
Smoothing window: Triangular window
Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIO

Max. H/V at 0.78 ± 0.0 Hz. (In the range 0.0 - 50.0 Hz).

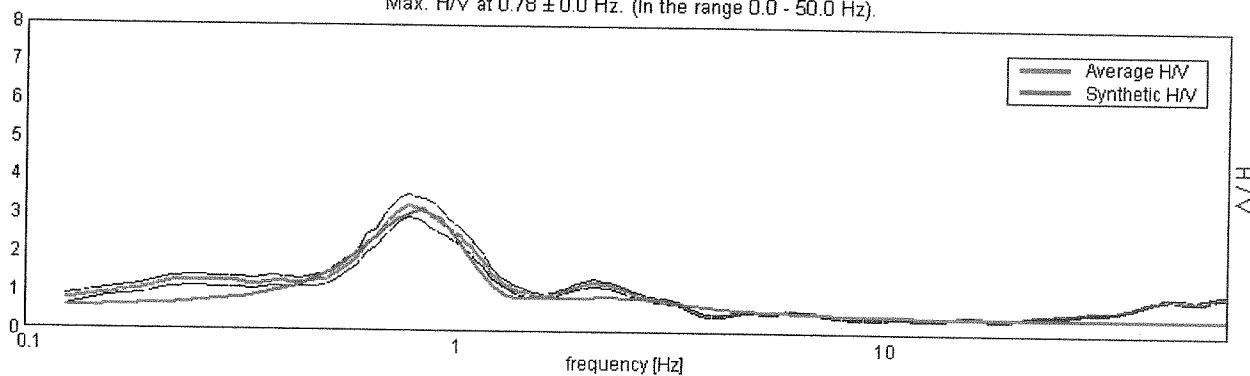


H/V TIME HISTORY



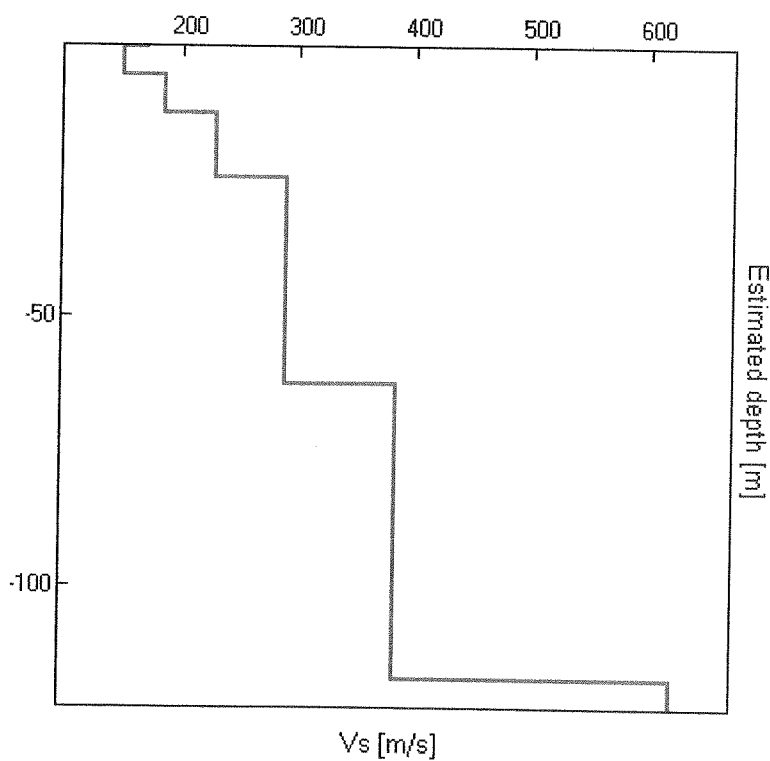
EXPERIMENTAL VS. SYNTHETIC H/V

Max. H/V at 0.78 ± 0.0 Hz. (In the range 0.0 - 50.0 Hz).



Depth at the bottom of the layer [m]	Thickness [m]	Vs [m/s]
0.40	0.40	170
5.40	5.00	150
12.40	7.00	185
24.40	12.00	230
62.40	38.00	290
117.40	55.00	385
inf.	inf.	620

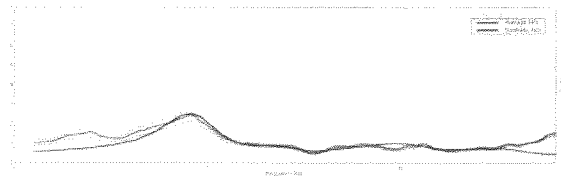
$V_s(1.0-31.0) = 211$ m/s



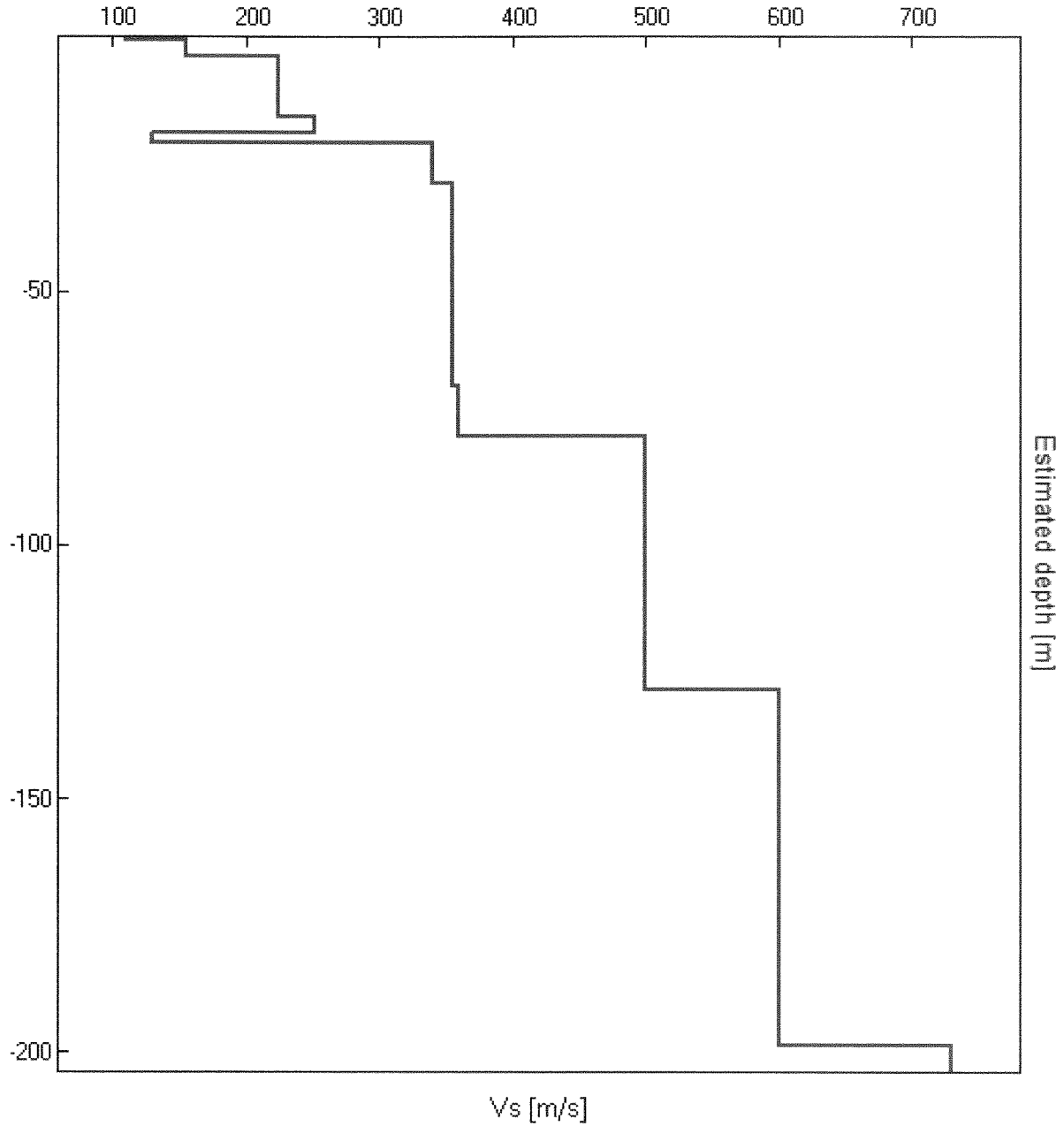
H102

spessori [m]	profondità [m]	Vs	
		[km/s]	[m/s]
0.80	0.80	0.110	110
2.90	3.70	0.155	155
12.00	15.70	0.225	225
3.00	18.70	0.252	252
2.00	20.70	0.130	130
8.00	28.70	0.340	340
40.00	68.70	0.355	355
10.00	78.70	0.360	360
50.00	128.70	0.500	500
70.00	198.70	0.600	600
Inf.	Inf.	0.700	700

Parametri del modello (TR01)



Confronto tra curva H/V teorica e sperimentale (TR01)



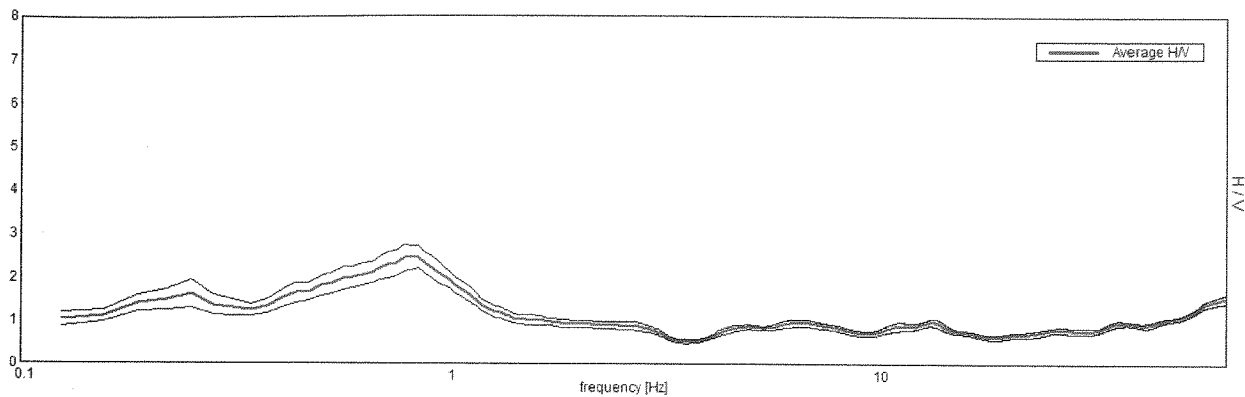
Modello sismico del sottosuolo (TR01)

CAMPOGALLIANO, TRACCIA 1 TR01

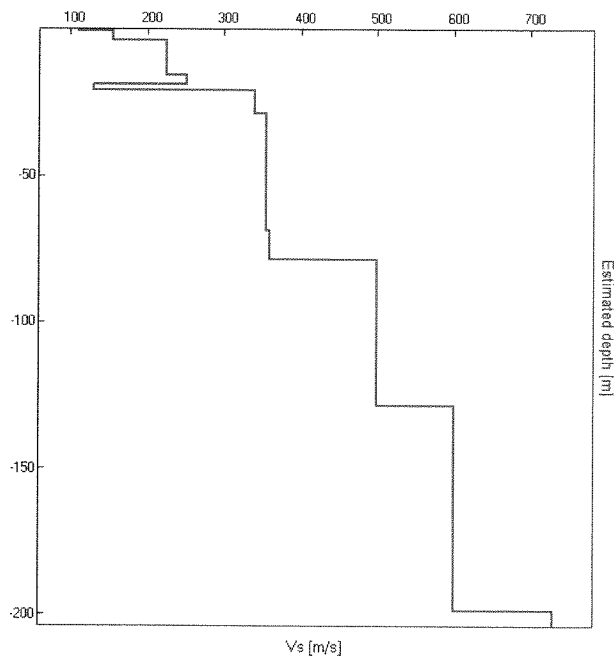
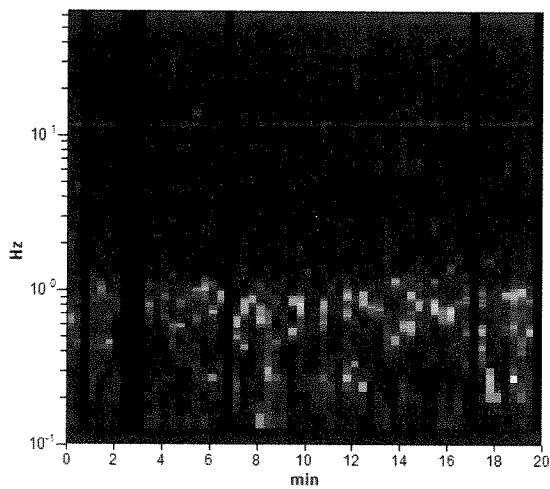
Start recording: 17/05/10 08:52:13 End recording: 17/05/10 09:12:14
Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN
GPS location: 010°49.8383 E, 44°41.5634 N (72.3 m)
UTC time (synchronized to the first recording sample): not available in this acquisition mode + 0 samples
Satellite no.: 05
Trace length: 0h20'00". Analyzed 88% trace (manual window selection)
Sampling frequency: 128 Hz
Window size: 20 s
Smoothing window: Triangular window
Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIO

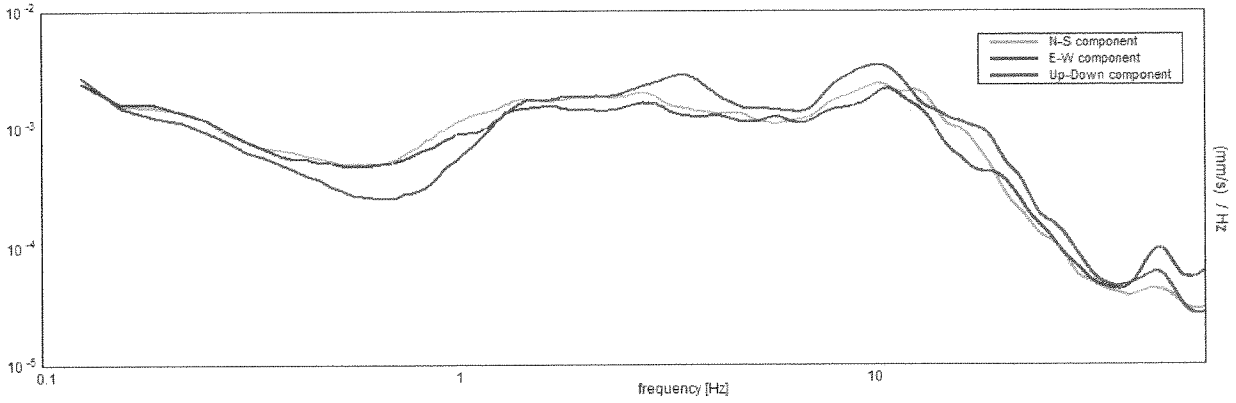
Max H/V at 0.84 ± 0.03 Hz (in the range 0.0 - 64.0 Hz)



H/V TIME HISTORY

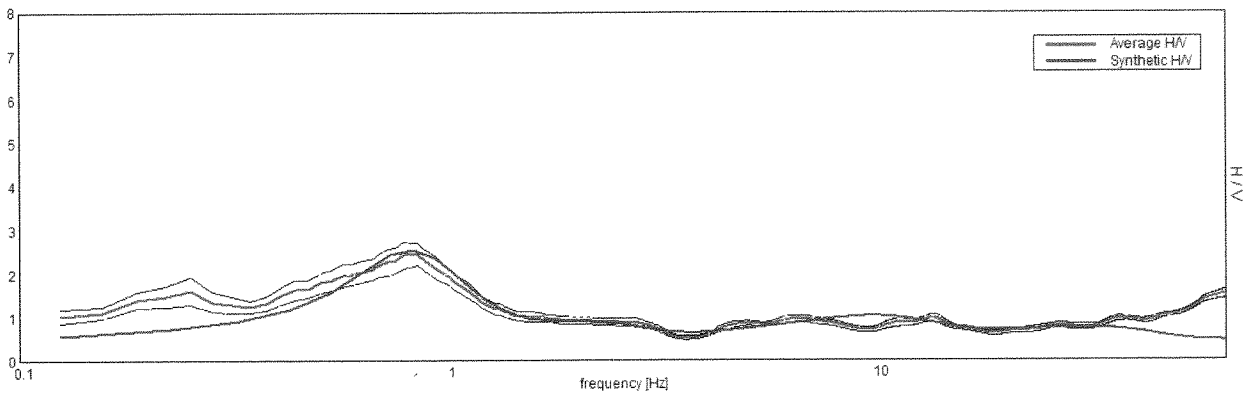


SINGLE COMPONENT SPECTRA



EXPERIMENTAL VS. SYNTHETIC H/V

Max. H/V at 0.84 ± 0.03 Hz. (in the range 0.0 - 64.0 Hz)



Depth at the bottom of the layer

[m]

0.80
 3.70
 15.70
 18.70
 20.70
 28.70
 68.70
 78.70
 128.70
 198.70
 inf.

Thickness [m]

0.80
 2.90
 12.00
 3.00
 2.00
 8.00
 40.00
 10.00
 50.00
 70.00
 inf.

Vs [m/s]

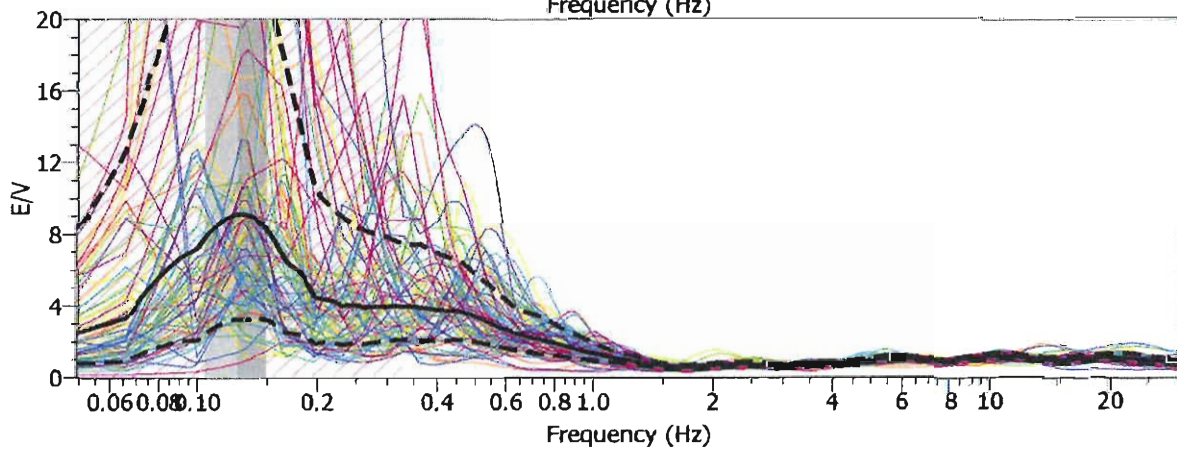
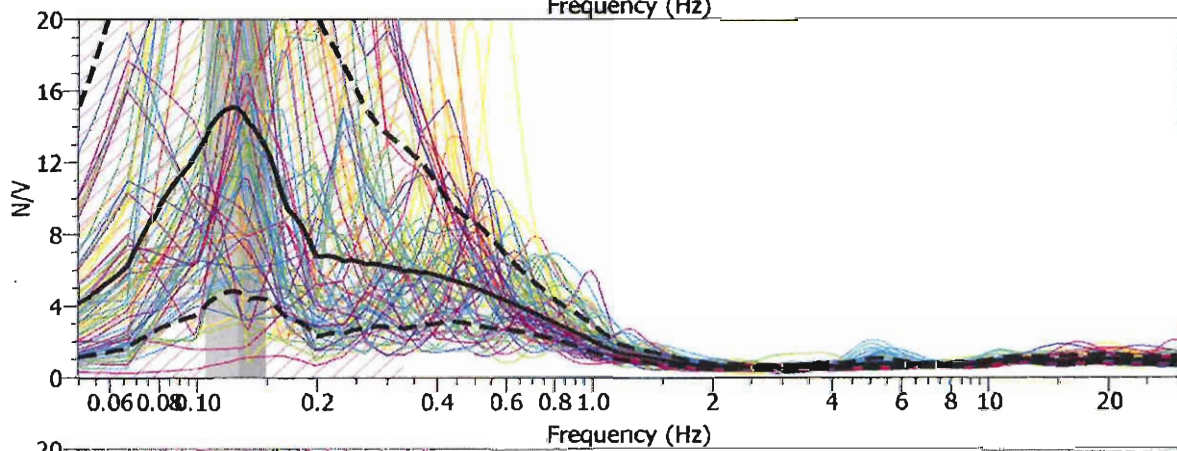
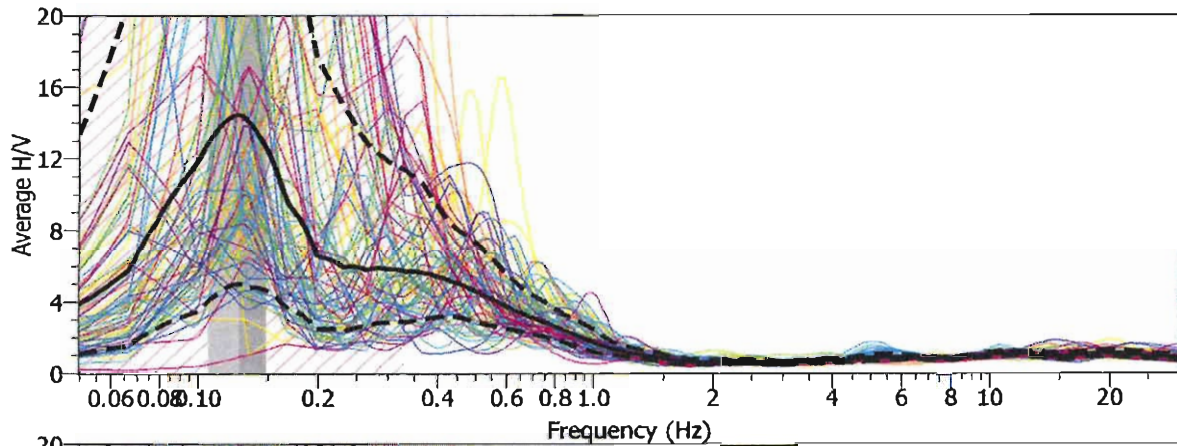
110
 155
 225
 252
 130
 340
 355
 360
 500
 600
 730

Vs30 (1.0-31.0)=234m/s
Terreno di tipo C

H103

CENTROGEO SURVEY S.n.c. P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR N° 1
LOCALITA': Panzano di Campogalliano (MO)	COMMITTENTE: Dr. Fornaciari Andrea
DATA: 08-06-2007	CANTIERE: Costruzione edificio
QUOTA: 32,5 m s.l.m.	OPERATORI: Dr. Gallarotti - Mazzetti M.

Rapporti spettrali



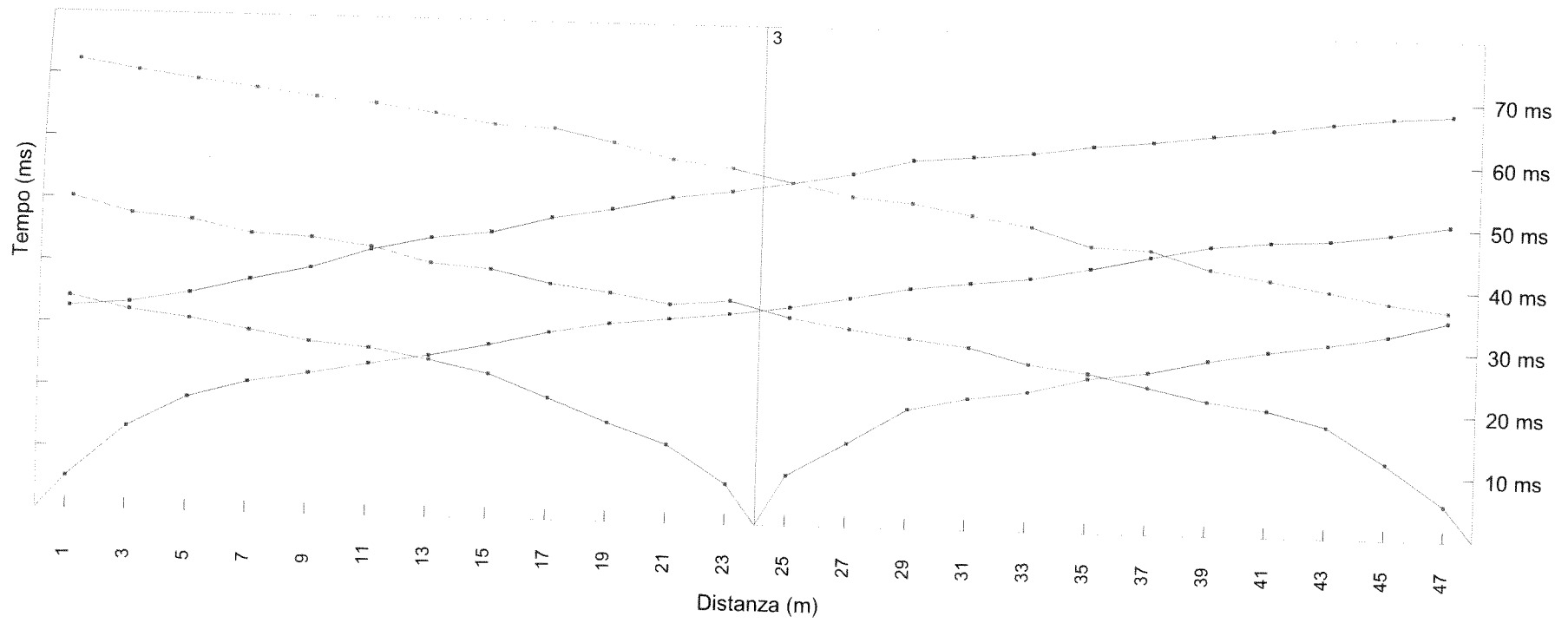
STENDIMENTI SISMICI A RIFRAZIONE

STUDIO GEOLOGICO CENTROGEO

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

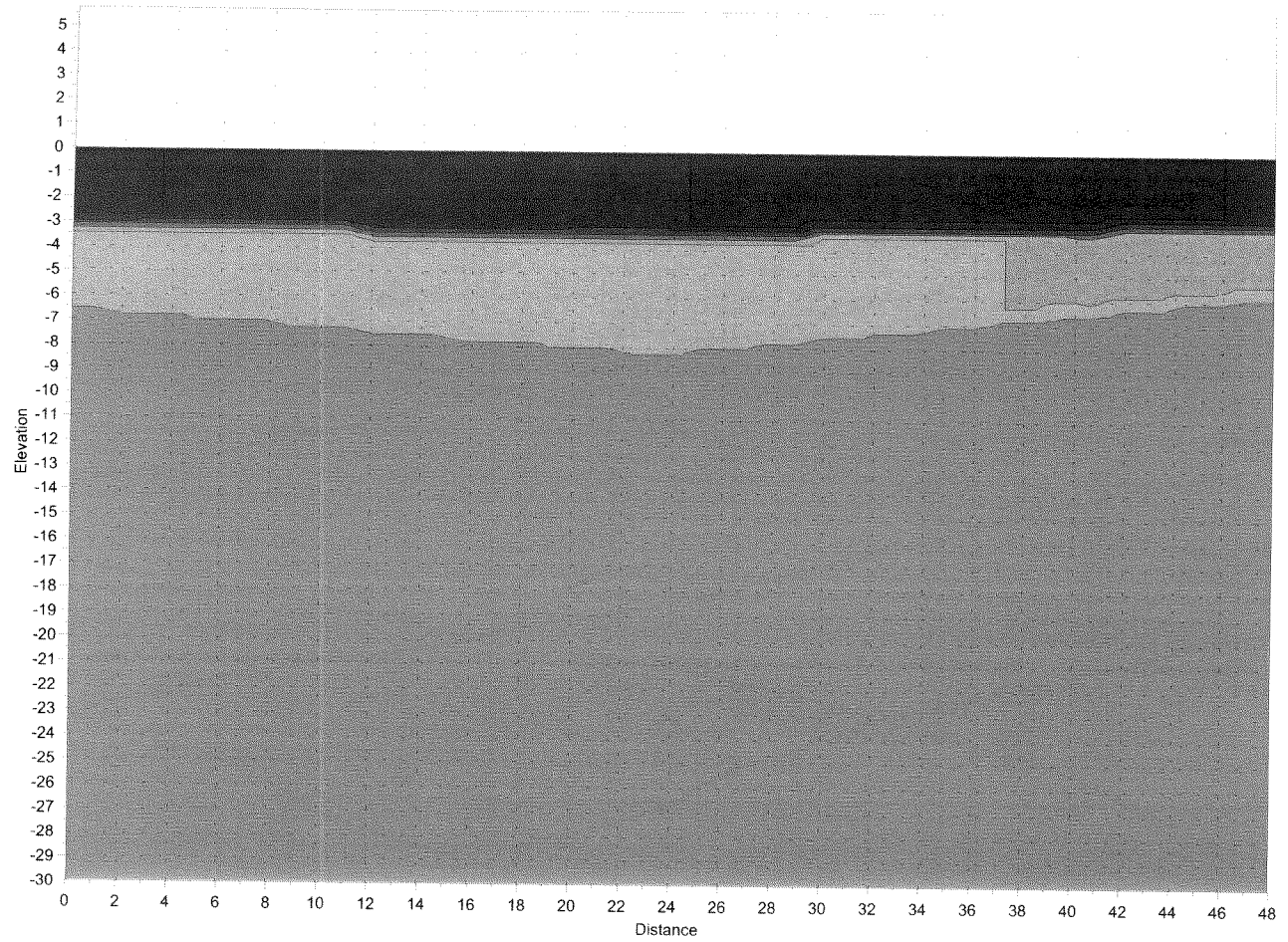
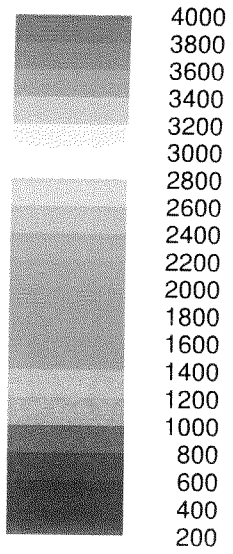
Profilo SALICETO

BS101



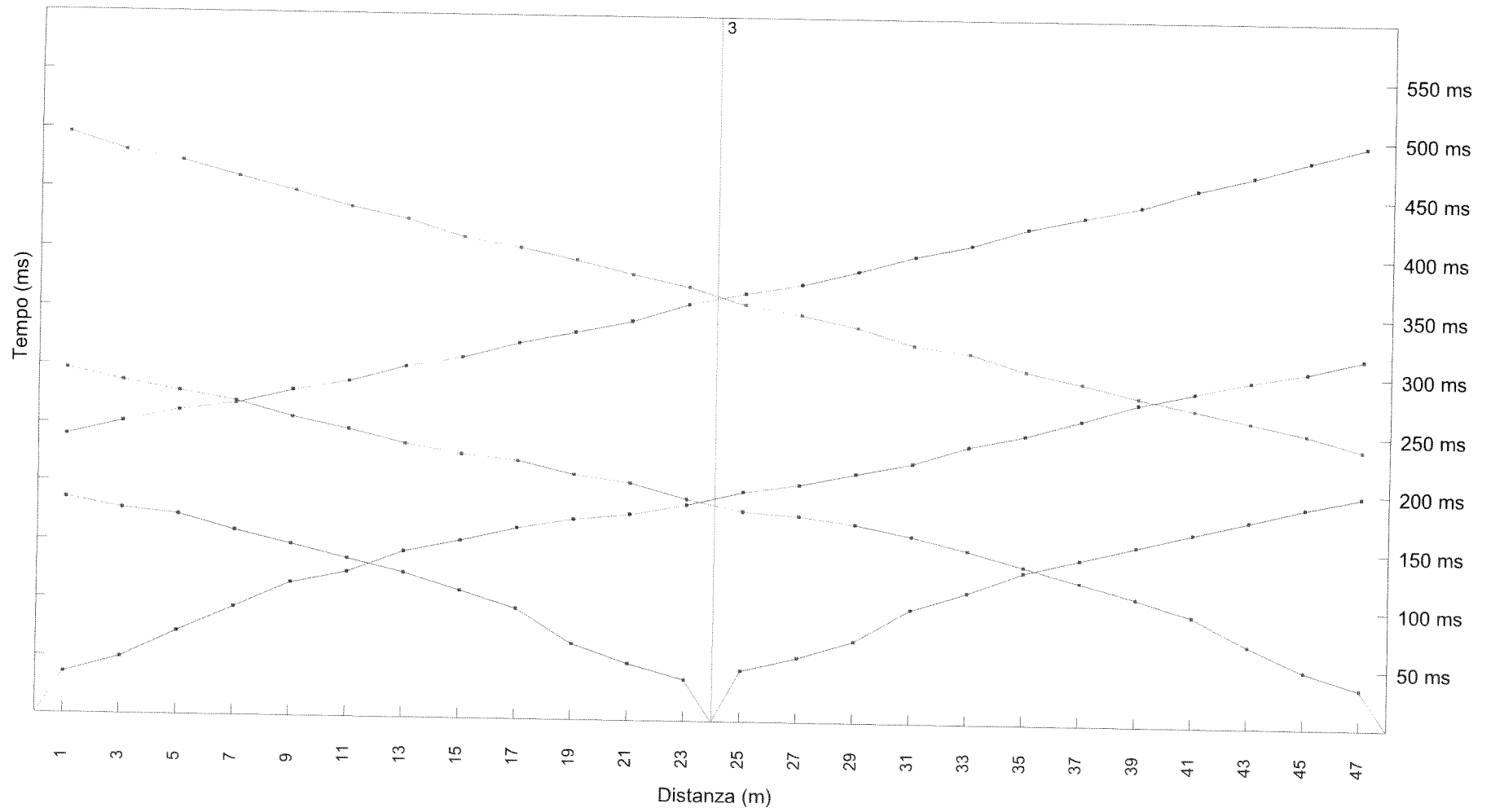
Stendimento sismostratigrafico n° 1 - Shot point depth computation
Località: Saliceto Buzzalino - Comune di Campogalliano (MO)

Velocity meters/s

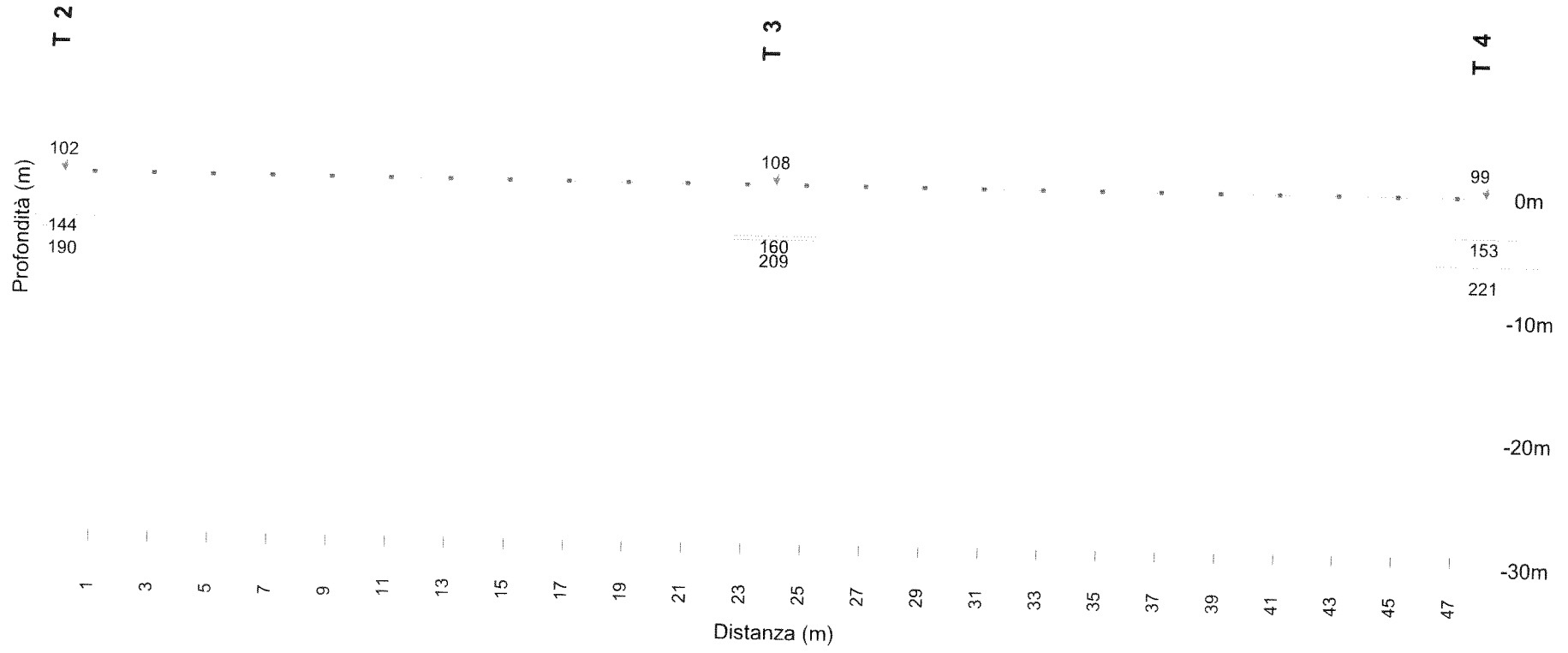


Committente: Comune di Campogalliano - Data: 11 aprile 2006

Profilo SALICETOVS30



Profilo SALICETOVS30





Dott. Stefano Righetti Geologo

via G. Giacosa, 7 - 42100 Reggio nell'Emilia

tel.: +39 0522 322516 - +39 340 8063931

C. Fisc. RGH SFN 62T22 H294N - P.IVA 01824240350

Località:
Committente:
Tipo di prova:

Saliceto Buzzalino - Campogalliano (MO)
Comune di Campogalliano
Determinazione Vs30
con sismica a rifrazione

data: **11/04/06**
Cantiere: **Variante PRG**
Stendimento n° **1**

	SHOT B - T2		SHOT C - T3		SHOT D - T4	
	Profondità [m]	Velocità onde S [m/s]	Profondità [m]	Velocità onde S [m/s]	Profondità [m]	Velocità onde S [m/s]
		V_{s_i}		V_{s_i}		V_{s_i}
Base Strato 1	3.17	102	3.59	108	3.03	99
Base Strato 2	6.48	144	8.34	159	5.6	153
Base Strato 3	30	190	30	208	30	221
	h_i		h_i		h_i	
Spessore Strato 1	3.17		3.59		3.03	
Spessore Strato 2	3.31		4.75		2.57	
Spessore Strato 3	23.52		21.66		24.4	
Vs30 [m/s]		168.7		179.4		190.1

Formula per il calcolo della Vs30

$$V_{S_{30}} = \frac{30}{\sum_{i=1}^n \frac{h_i}{V_{s_i}}}$$

**PROVE
PENETROMETRICHE
STATICHE CPT**

STUDIO GEOLOGICO CENTROGEO

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

CPT101

GEO GROUP S.R.L.
via Cesare Costa, 182 - 41100 Modena

PROVA PENETROMETRICA STATICA MECCANICA LETTURE CAMPAGNA E VALORI TRASFORMATI

CPT **1**

riferimento **327-2010**
certificato n° **04002213**

Committente: **studio tecnico**
Cantiere: **ristrutturazione fabbricati**
Località: **panzano di campogalliano via fornaci**

U.M.: **MPa** Data esec.: **30/11/2010**
Pagina: **1/4** Data certificato: **30/11/2010**
Elaborato: Falda: **-0.50 m**

H	L1	L2	Lt	qc	fs	F	Rf	H	L1	L2	Lt	qc	fs	F	Rf
m	-	-	-	MPa	kPa	-	%	m	-	-	-	MPa	kPa	-	%
0.20	0.00	0.00		0.00	65.66	0									
0.40	20.00	30.00		1.96	78.40	25	4.0								
0.60	12.00	24.00		1.18	71.54	16	6.1								
0.80	9.00	20.00		0.88	65.66	13	7.4								
1.00	8.00	18.00		0.78	32.34	24	4.1								
1.20	7.00	12.00		0.69	58.80	12	8.6								
1.40	9.00	18.00		0.88	51.94	17	5.9								
1.60	10.00	18.00		0.98	51.94	19	5.3								
1.80	10.00	18.00		0.98	39.20	25	4.0								
2.00	10.00	16.00		0.98	39.20	25	4.0								
2.20	8.00	14.00		0.78	39.20	20	5.0								
2.40	7.00	13.00		0.69	39.20	18	5.7								
2.60	11.00	17.00		1.08	32.34	33	3.0								
2.80	6.00	11.00		0.59	19.60	30	3.3								
3.00	9.00	12.00		0.88	26.46	33	3.0								
3.20	5.00	9.00		0.49	26.46	19	5.4								
3.40	6.00	10.00		0.59	39.20	15	6.7								
3.60	8.00	14.00		0.78	32.34	24	4.1								
3.80	5.00	10.00		0.49	12.74	38	2.6								
4.00	6.00	8.00		0.59	12.74	46	2.2								
4.20	7.00	9.00		0.69	32.34	21	4.7								
4.40	5.00	10.00		0.49	51.94	9	10.6								
4.60	8.00	16.00		0.78	32.34	24	4.1								
4.80	9.00	14.00		0.88	65.66	13	7.4								
5.00	8.00	18.00		0.78	46.06	17	5.9								
5.20	8.00	15.00		0.78	26.46	30	3.4								
5.40	7.00	11.00		0.69	32.34	21	4.7								
5.60	6.00	11.00		0.59	26.46	22	4.5								
5.80	5.00	9.00		0.49	26.46	19	5.4								
6.00	4.00	8.00		0.39	26.46	15	6.8								
6.20	5.00	9.00		0.49	39.20	13	8.0								
6.40	5.00	11.00		0.49	85.26	6	17.4								
6.60	18.00	31.00		1.76	58.80	30	3.3								
6.80	9.00	18.00		0.88	78.40	11	8.9								
7.00	16.00	28.00		1.57	71.54	22	4.6								
7.20	18.00	29.00		1.76	46.06	38	2.6								
7.40	16.00	23.00		1.57	39.20	40	2.5								
7.60	11.00	17.00		1.08	65.66	16	6.1								
7.80	12.00	22.00		1.18	124.46	9	10.6								
8.00	22.00	41.00		2.16	58.80	37	2.7								
8.20	34.00	43.00		3.33	51.94	64	1.6								
8.40	11.00	19.00		1.08	65.66	16	6.1								
8.60	11.00	21.00		1.08	46.06	23	4.3								
8.80	7.00	14.00		0.69	46.06	15	6.7								
9.00	8.00	15.00		0.78	32.34	24	4.1								
9.20	8.00	13.00		0.78	71.54	11	9.1								
9.40	10.00	21.00		0.98	65.66	15	6.7								
9.60	10.00	20.00		0.98	65.66	15	6.7								
9.80	10.00	20.00		0.98	51.94	19	5.3								
10.00	16.00	24.00		1.57	46.06	34	2.9								
10.20	13.00	20.00		1.27	98.00	13	7.7								
10.40	18.00	33.00		1.76	104.86	17	5.9								
10.60	27.00	43.00		2.65	124.46	21	4.7								
10.80	23.00	42.00		2.25	144.06	16	6.4								
11.00	22.00	44.00		2.16	149.94	14	7.0								
11.20	26.00	49.00		2.55	163.66	16	6.4								
11.40	28.00	53.00		2.74	65.66	42	2.4								
11.60	38.00	48.00		3.72	149.94	25	4.0								
11.80	39.00	62.00		3.82	183.26	21	4.8								
12.00	40.00	68.00		3.92	130.34	30	3.3								
12.20	21.00	41.00		2.06	144.06	14	7.0								
12.40	22.00	44.00		2.16											

H = profondità
L1 = prima lettura (punta)
L2 = seconda lettura (punta + laterale)
Lt = terza lettura (totale)
CT = 10.00 costante di trasformazione

qc = resistenza di punta
fs = resistenza laterale calcolata
0.20 m sopra quota qc
F = rapporto Begemann (qc / fs)
Rf = rapporto Schmertmann (fs / qc)*100

nota:

FON019

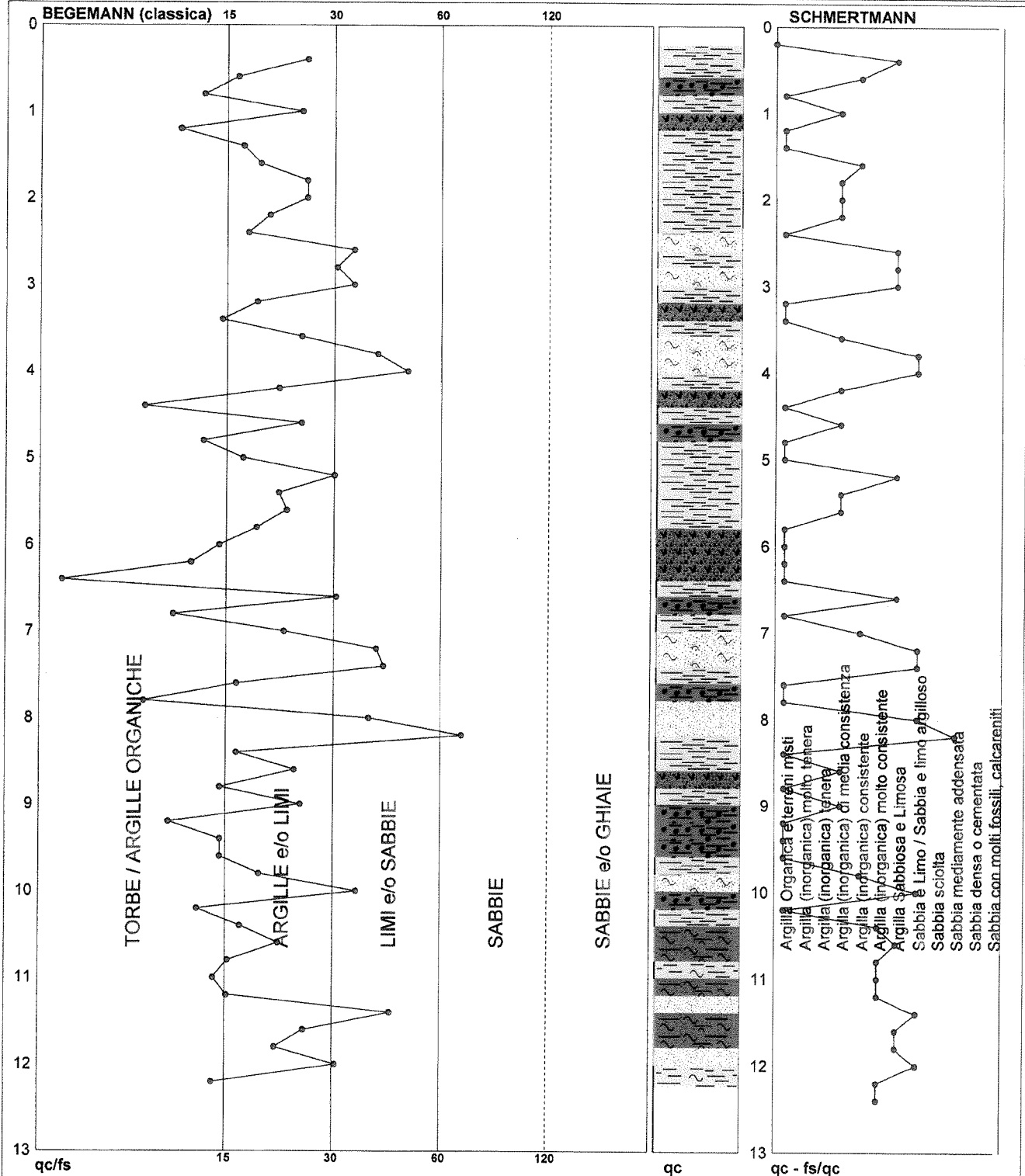
PROVA PENETROMETRICA STATICA MECCANICA

DIAGRAMMI LITOLOGIA

CPT	1
riferimento	327-2010
certificato n°	04002213

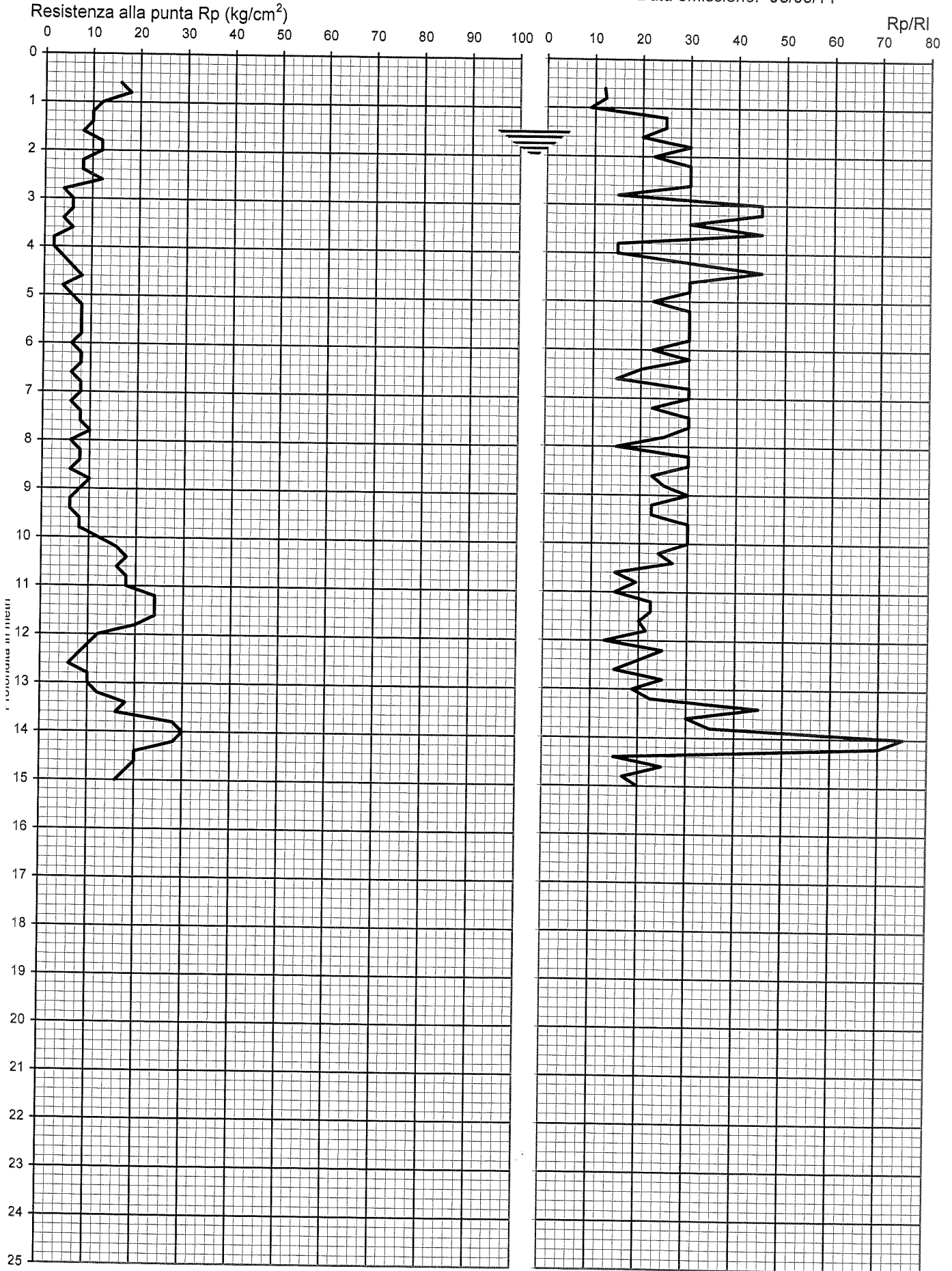
Committente: **studio tecnico**
Cantiere: **ristrutturazione fabbricati**
Località: **panzano di campogalliano via fornaci**

U.M.: **MPa** Data eseg.: 30/11/2010
Scala: 1:65 Data certificato: 30/11/2010
Pagina: 3/4
Elaborato: Falda: -0.50 m



Torbe / Argille org. :	18 punti, 28.13%	Argilla Organica e terreni misti:	22 punti, 34.38%	Argilla Sabbiosa e Limosa:	9 punti, 14.06%
Argille e/o Limi :	32 punti, 50.00%	Argilla (inorganica) molto tenera:	0 punti, 0.00%	Sabbia e Limo / Sabbia e limo arg.:	8 punti, 12.50%
Limi e/o Sabbie :	10 punti, 15.63%	Argilla (inorganica) tenera:	0 punti, 0.00%	Sabbia sciolta:	0 punti, 0.00%
Sabbie:	1 punti, 1.56%	Argilla (inorganica) media consist.:	11 punti, 17.19%	Sabbia mediamente addensata:	1 punti, 1.56%
Sabbie e/o Ghiaie :	0 punti, 0.00%	Argilla (inorganica) consistente:	4 punti, 6.25%	Sabbia densa o cementata:	0 punti, 0.00%
		Argilla (inorganica) molto consist.:	5 punti, 7.81%	Sabbia con molti fossili, calcareniti:	0 punti, 0.00%

nota: FON019



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	Rl (kg/cm ²)	Rp/Rl [-]
0,20					
0,40					
0,60	16	36	16	1,33	12,00
0,80	18	40	18	1,47	12,27
1,00	12	32	12	1,33	9,00
1,20	10	16	10	0,40	25,00
1,40	10	16	10	0,40	25,00
1,60	8	14	8	0,40	20,00
1,80	12	18	12	0,40	30,00
2,00	12	20	12	0,53	22,50
2,20	8	12	8	0,27	30,00
2,40	8	12	8	0,27	30,00
2,60	12	18	12	0,40	30,00
2,80	4	8	4	0,27	15,00
3,00	6	8	6	0,13	45,00
3,20	6	8	6	0,13	45,00
3,40	4	6	4	0,13	30,00
3,60	6	8	6	0,13	45,00
3,80	2	4	2	0,13	15,00
4,00	2	4	2	0,13	15,00
4,20	4	6	4	0,13	30,00
4,40	6	8	6	0,13	45,00
4,60	8	12	8	0,27	30,00
4,80	4	6	4	0,13	30,00
5,00	6	10	6	0,27	22,50
5,20	8	12	8	0,27	30,00
5,40	8	12	8	0,27	30,00
5,60	8	12	8	0,27	30,00
5,80	8	12	8	0,27	30,00
6,00	6	10	6	0,27	22,50
6,20	8	12	8	0,27	30,00
6,40	8	14	8	0,40	20,00
6,60	6	12	6	0,40	15,00
6,80	8	12	8	0,27	30,00
7,00	8	12	8	0,27	30,00
7,20	6	10	6	0,27	22,50
7,40	8	12	8	0,27	30,00
7,60	8	12	8	0,27	30,00
7,80	10	16	10	0,40	25,00
8,00	6	12	6	0,40	15,00
8,20	8	12	8	0,27	30,00
8,40	8	12	8	0,27	30,00
8,60	6	10	6	0,27	22,50
8,80	10	16	10	0,40	25,00
9,00	8	12	8	0,27	30,00
9,20	6	10	6	0,27	22,50
9,40	6	10	6	0,27	22,50
9,60	8	12	8	0,27	30,00
9,80	8	12	8	0,27	30,00
10,00	12	18	12	0,40	30,00
10,20	16	26	16	0,67	24,00
10,40	18	28	18	0,67	27,00
10,60	16	32	16	1,07	15,00
10,80	18	32	18	0,93	19,29
11,00	18	36	18	1,20	15,00
11,20	24	40	24	1,07	22,50
11,40	24	40	24	1,07	22,50
11,60	24	42	24	1,20	20,00
11,80	20	34	20	0,93	21,43
12,00	12	26	12	0,93	12,86
12,20	10	16	10	0,40	25,00
12,40	8	14	8	0,40	20,00
12,60	6	12	6	0,40	15,00
12,80	10	16	10	0,40	25,00
13,00	10	18	10	0,53	18,75
13,20	12	20	12	0,53	22,50
13,40	18	24	18	0,40	45,00
13,60	16	24	16	0,53	30,00
13,80	28	40	28	0,80	35,00
14,00	30	36	30	0,40	75,00
14,20	28	34	28	0,40	70,00
14,40	20	40	20	1,33	15,00
14,60	20	32	20	0,80	25,00
14,80	18	34	18	1,07	16,88
15,00	16	28	16	0,80	20,00

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	Rl (kg/cm ²)	Rp/Rl [-]
15,20					
15,40					
15,60					
15,80					
16,00					
16,20					
16,40					
16,60					
16,80					
17,00					
17,20					
17,40					
17,60					
17,80					
18,00					
18,20					
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18,60					
18,80					
19,00					
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21,00					
21,20					
21,40					
21,60					
21,80					
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23,00					
23,20					
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25,40					
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26,80					
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27,20					
27,40					
27,60					
27,80					
28,00					
28,20					
28,40					
28,60					
28,80					
29,00					
29,20					
29,40					
29,60					
29,80					
30,00					

CPT103

EDILGEO

Committente

UNIONCASA-ABITCOOP

Sondaggio

1

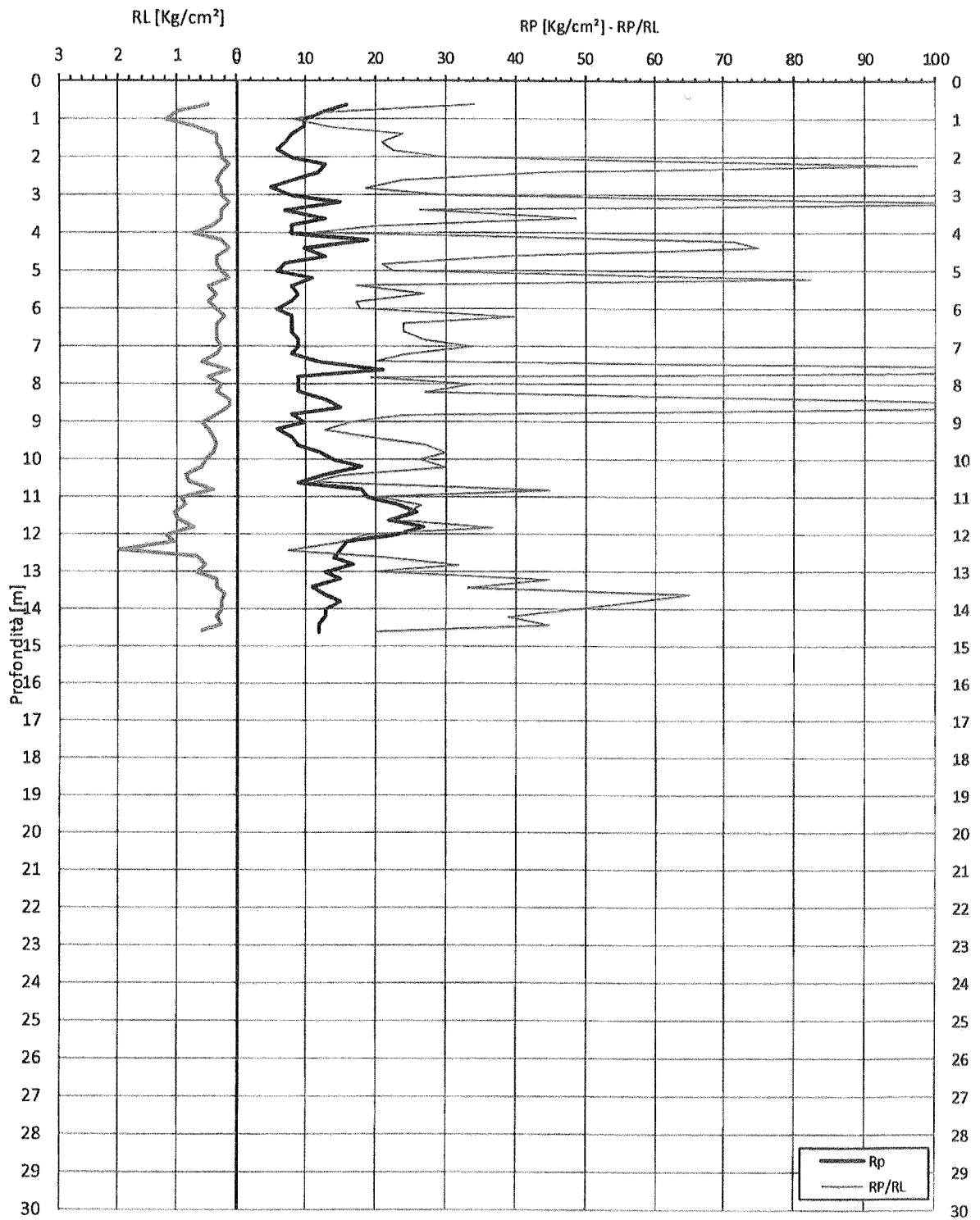
Viale Milano 21, Sassuolo (MO). Tel. 0536 - 870085

Località

Panzano

Falda			1.6								
Prof	L1	L2	Prof	L1	L2	Prof	L1	L2	Prof	L1	L2
0.2			10.2	18	27						
0.4			10.4	13	26						
0.6	16	23	10.6	9	21						
0.8	13	28	10.8	18	24						
1	10	28	11	19	33						
1.2	10	21	11.2	23	36						
1.4	8	13	11.4	26	42						
1.6	7	12	11.6	22	37						
1.8	6	10	11.8	27	38						
2	8	12	12	23	41						
2.2	13	15	12.2	16	32						
2.4	12	16	12.4	15	45						
2.6	8	13	12.6	14	24						
2.8	5	9	12.8	17	25						
3	8	12	13	13	23						
3.2	15	17	13.2	15	20						
3.4	7	11	13.4	11	16						
3.6	13	17	13.6	13	16						
3.8	8	14	13.8	15	19						
4	8	19	14	13	17						
4.2	19	23	14.2	13	18						
4.4	10	12	14.4	12	16						
4.6	13	18	14.6	12	21						
4.8	7	12									
5	6	10									
5.2	11	13									
5.4	8	15									
5.6	9	14									
5.8	8	15									
6	6	11									
6.2	8	11									
6.4	8	13									
6.6	8	13									
6.8	9	14									
7	9	13									
7.2	8	13									
7.4	12	21									
7.6	21	23									
7.8	9	16									
8	9	13									
8.2	9	14									
8.4	13	15									
8.6	15	17									
8.8	8	13									
9	10	19									
9.2	6	13									
9.4	8	14									
9.6	9	14									
9.8	12	18									
10	14	22									

Dati di campagna CPT 1



RP : Resistenza alla punta
RP/RL : Rapporto stratigrafico

Prova penetrometrica statica CPT
Penetrometro PAGANI TG73/Statica 100 kN
Punta meccanica Begemann, cella di carico elettrica

Grafico relativo alla resistenza alla punta "Rp" e al rapporto "Rp/fs" CPT 1

PROVA ... Nr.1

Strumento utilizzato...
 Prova eseguita in data
 Profondità prova

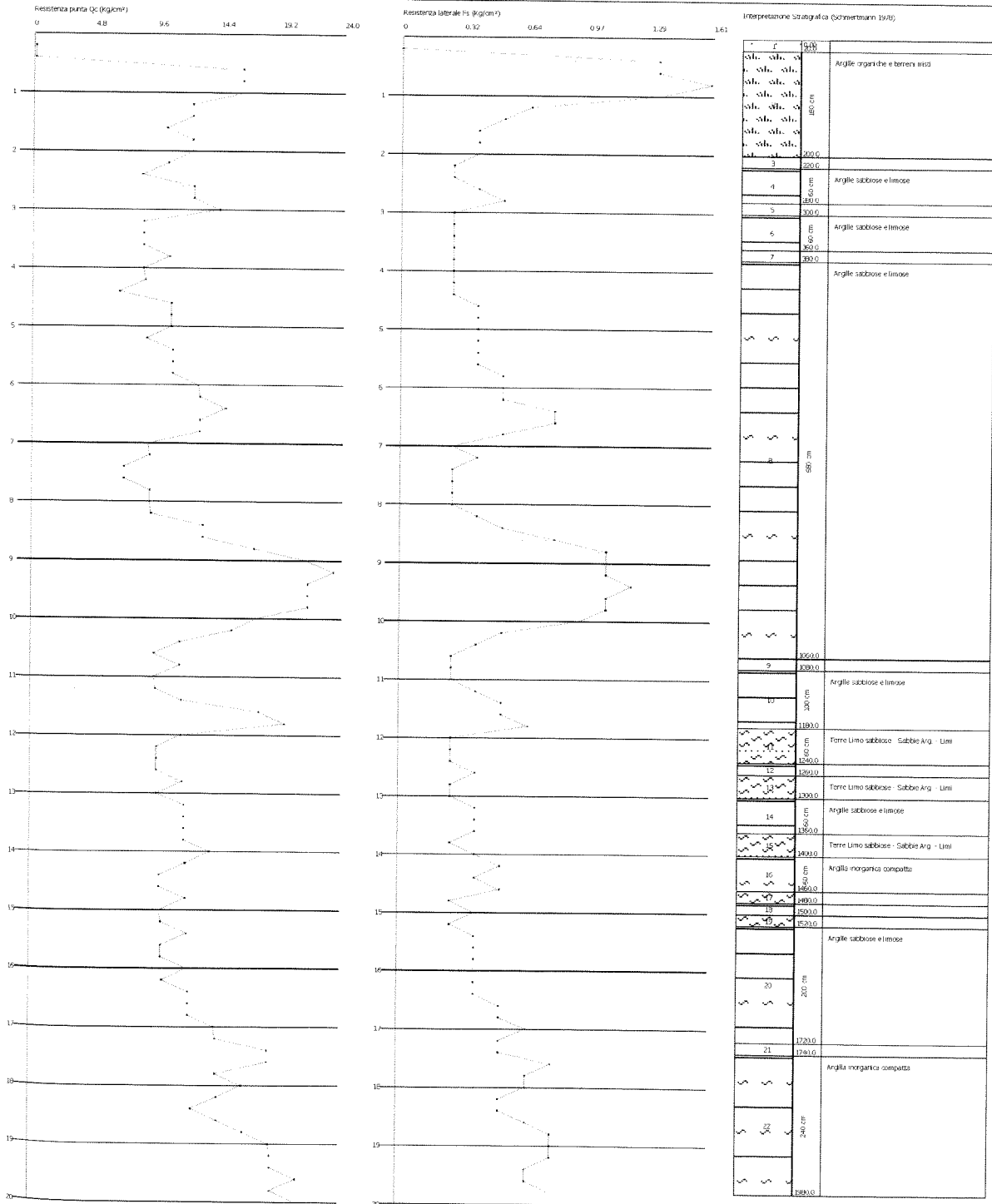
GOUDA 100 kN
 12/04/2010
 20.00 mt

Prova CPT - Cone Penetration Test
 Strumento Utilizzato: GOUDA 100 kN
 Diagramma Resistenza: q, fs

Committente:
 Fiorani Flavio
 Cantare Via Nanna 32
 Località: Campogalliano

Data: 12/04/2010

Scala: 1:100



Profondità (m)	Lettura punta (Kg/cm²)	Lettura laterale (Kg/cm²)	qc (Kg/cm²)	fs (Kg/cm²)	qc/fs Begemann	fs/qcx100 (Schmertmann)
0.20	0.0	0.0	0.14	0.0		0.0
0.40	0.0	0.0	0.14	1.33	0.11	950.0
0.60	16.0	36.0	16.14	1.33	12.14	8.24

DOTT. GEOL. KATIA LORENZONI
Piazza Caduti della Libertà, 14 – 41057 SPILAMBERTO (MO)
Telefono +39 059 782500 – Telefax +39 059 785170

0.80	16.0	36.0	16.14	1.6	10.09	9.91
1.00	16.0	40.0	16.14	1.33	12.14	8.24
1.20	12.0	32.0	12.28	0.67	18.33	5.46
1.40	12.0	22.0	12.28	0.53	23.17	4.32
1.60	10.0	18.0	10.28	0.4	25.7	3.89
1.80	12.0	18.0	12.28	0.4	30.7	3.26
2.00	12.0	18.0	12.28	0.4	30.7	3.26
2.20	10.0	16.0	10.41	0.27	38.56	2.59
2.40	8.0	12.0	8.41	0.27	31.15	3.21
2.60	12.0	16.0	12.41	0.4	31.03	3.22
2.80	12.0	18.0	12.41	0.53	23.42	4.27
3.00	14.0	22.0	14.41	0.27	53.37	1.87
3.20	8.0	12.0	8.55	0.27	31.67	3.16
3.40	8.0	12.0	8.55	0.27	31.67	3.16
3.60	8.0	12.0	8.55	0.27	31.67	3.16
3.80	10.0	14.0	10.55	0.27	39.07	2.56
4.00	8.0	12.0	8.55	0.27	31.67	3.16
4.20	8.0	12.0	8.69	0.27	32.19	3.11
4.40	6.0	10.0	6.69	0.27	24.78	4.04
4.60	10.0	14.0	10.69	0.4	26.73	3.74
4.80	10.0	16.0	10.69	0.4	26.73	3.74
5.00	10.0	16.0	10.69	0.4	26.73	3.74
5.20	8.0	14.0	8.83	0.4	22.08	4.53
5.40	10.0	16.0	10.83	0.4	27.08	3.69
5.60	10.0	16.0	10.83	0.4	27.08	3.69
5.80	10.0	16.0	10.83	0.53	20.43	4.89
6.00	12.0	20.0	12.83	0.53	24.21	4.13
6.20	12.0	20.0	12.97	0.53	24.47	4.09
6.40	14.0	22.0	14.97	0.8	18.71	5.34
6.60	12.0	24.0	12.97	0.8	16.21	6.17
6.80	12.0	24.0	12.97	0.53	24.47	4.09
7.00	8.0	16.0	8.97	0.27	33.22	3.01
7.20	8.0	12.0	9.1	0.4	22.75	4.4
7.40	6.0	12.0	7.1	0.27	26.3	3.8
7.60	6.0	10.0	7.1	0.27	26.3	3.8
7.80	8.0	12.0	9.1	0.27	33.7	2.97
8.00	8.0	12.0	9.1	0.27	33.7	2.97
8.20	8.0	12.0	9.24	0.4	23.1	4.33
8.40	12.0	18.0	13.24	0.53	24.98	4.0
8.60	12.0	20.0	13.24	0.8	16.55	6.04
8.80	16.0	28.0	17.24	1.07	16.11	6.21
9.00	20.0	36.0	21.24	1.07	19.85	5.04
9.20	22.0	38.0	23.38	1.07	21.85	4.58
9.40	20.0	36.0	21.38	1.2	17.82	5.61
9.60	20.0	38.0	21.38	1.07	19.98	5.0
9.80	20.0	36.0	21.38	1.07	19.98	5.0
10.00	16.0	32.0	17.38	0.93	18.69	5.35
10.20	14.0	28.0	15.52	0.53	29.28	3.41
10.40	10.0	18.0	11.52	0.4	28.8	3.47
10.60	8.0	14.0	9.52	0.27	35.26	2.84
10.80	10.0	14.0	11.52	0.27	42.67	2.34
11.00	8.0	12.0	9.52	0.27	35.26	2.84
11.20	8.0	12.0	9.66	0.4	24.15	4.14
11.40	10.0	16.0	11.66	0.53	22.0	4.55
11.60	16.0	24.0	17.66	0.53	33.32	3.0
11.80	18.0	26.0	19.66	0.67	29.34	3.41
12.00	10.0	20.0	11.66	0.27	43.19	2.32
12.20	8.0	12.0	9.79	0.27	36.26	2.76
12.40	8.0	12.0	9.79	0.27	36.26	2.76
12.60	8.0	12.0	9.79	0.4	24.48	4.09
12.80	10.0	16.0	11.79	0.27	43.67	2.29
13.00	8.0	12.0	9.79	0.27	36.26	2.76
13.20	10.0	14.0	11.93	0.4	29.83	3.35
13.40	10.0	16.0	11.93	0.4	29.83	3.35
13.60	10.0	16.0	11.93	0.4	29.83	3.35
13.80	10.0	16.0	11.93	0.27	44.19	2.26
14.00	12.0	16.0	13.93	0.4	34.83	2.87
14.20	10.0	16.0	12.07	0.53	22.77	4.39

DOTT. GEOL. KATIA LORENZONI
Piazza Caduti della Libertà, 14 – 41057 SPILAMBERTO (MO)
Telefono +39 059 782500 – Telefax +39 059 785170

14.40	8.0	16.0	10.07	0.4	25.18	3.97
14.60	8.0	14.0	10.07	0.53	19.0	5.26
14.80	10.0	18.0	12.07	0.27	44.7	2.24
15.00	8.0	12.0	10.07	0.4	25.18	3.97
15.20	8.0	14.0	10.21	0.27	37.81	2.64
15.40	10.0	14.0	12.21	0.4	30.53	3.28
15.60	8.0	14.0	10.21	0.4	25.53	3.92
15.80	8.0	14.0	10.21	0.4	25.53	3.92
16.00	10.0	16.0	12.21	0.4	30.53	3.28
16.20	8.0	14.0	10.35	0.4	25.88	3.86
16.40	10.0	16.0	12.35	0.4	30.88	3.24
16.60	10.0	16.0	12.35	0.53	23.3	4.29
16.80	10.0	18.0	12.35	0.53	23.3	4.29
17.00	12.0	20.0	14.35	0.67	21.42	4.67
17.20	12.0	22.0	14.48	0.53	27.32	3.66
17.40	16.0	24.0	18.48	0.53	34.87	2.87
17.60	16.0	24.0	18.48	0.8	23.1	4.33
17.80	12.0	24.0	14.48	0.67	21.61	4.63
18.00	14.0	24.0	16.48	0.67	24.6	4.07
18.20	12.0	22.0	14.62	0.53	27.58	3.63
18.40	10.0	18.0	12.62	0.53	23.81	4.2
18.60	12.0	20.0	14.62	0.67	21.82	4.58
18.80	14.0	24.0	16.62	0.8	20.78	4.81
19.00	16.0	28.0	18.62	0.8	23.28	4.3
19.20	16.0	28.0	18.76	0.8	23.45	4.26
19.40	16.0	28.0	18.76	0.67	28.0	3.57
19.60	18.0	28.0	20.76	0.67	30.99	3.23
19.80	16.0	26.0	18.76	0.8	23.45	4.26
20.00	18.0	30.0	20.76	0.0		0.0

Prof. Strato (m)	qc Media (Kg/cm ²)	fs Media (Kg/cm ²)	Gamma Medio (t/m ³)	Comp. Geotecnico	Descrizione
0.20	0.14	0.0	1.8	Incoerente	Sabbie Sciolte
2.00	11.96	0.95	1.86	Coesivo	Argille organiche e terreni misti
2.20	10.41	0.27	1.86	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
2.80	11.08	0.4	1.86	Incoerente-Coesivo	Argille sabbiose e limose
3.00	14.41	0.27	1.8	Incoerente	Sabbie Sciolte
3.60	8.55	0.27	1.82	Incoerente-Coesivo	Argille sabbiose e limose
3.80	10.55	0.27	1.86	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
10.60	12.65	0.56	1.87	Incoerente-Coesivo	Argille sabbiose e limose
10.80	11.52	0.27	1.85	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
11.80	13.63	0.48	1.87	Incoerente-Coesivo	Argille sabbiose e limose
12.40	10.41	0.27	1.82	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
12.60	9.79	0.4	1.81	Coesivo	Argilla inorganica di media consistenza
13.00	10.79	0.27	1.83	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
13.60	11.93	0.4	1.85	Incoerente-Coesivo	Argille sabbiose e limose
14.00	12.93	0.34	1.86	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
14.60	10.74	0.49	1.82	Coesivo	Argilla inorganica compatta
14.80	12.07	0.27	1.85	Incoerente-Coesivo	Terre Limo sabbiose - Sabbie Arg. - Limi
15.00	10.07	0.4	1.81	Coesivo	Argilla inorganica di media consistenza

**PROVA PENETROMETRICA STATICA
LETTURE DI CAMPAGNA / VALORI DI RESISTENZA**

CPT 1

2.010496-059

- committente : Rovatti Marisa - data : 14/05/2012
- lavoro : Realizzazione servizio agricolo - quota inizio : Piano Campagna
- località : Via Vecchia,17 - Saliceto Buzzalino di Campogalliano - prof. falda : 1,50 m da quota inizio
- note : - pagina : 1

prf	LP	LL	Rp	RL	Rp/RI	prf	LP	LL	Rp	RL	Rp/RI
m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-	m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-
0,20	14,0	---	28,0	1,33	21,0	8,80	7,0	14,5	14,0	1,00	14,0
0,40	17,0	27,0	34,0	2,13	16,0	9,00	7,0	14,5	14,0	1,00	14,0
0,60	12,5	28,5	25,0	2,67	9,0	9,20	7,0	14,5	14,0	0,27	52,0
0,80	11,0	31,0	22,0	2,27	10,0	9,40	12,5	14,5	25,0	0,80	31,0
1,00	10,0	27,0	20,0	2,07	10,0	9,60	5,0	11,0	10,0	0,60	17,0
1,20	7,0	22,5	14,0	1,47	10,0	9,80	4,5	9,0	9,0	0,67	13,0
1,40	8,5	19,5	17,0	1,20	14,0	10,00	5,5	10,5	11,0	0,93	12,0
1,60	8,5	17,5	17,0	1,13	15,0	10,20	11,0	18,0	22,0	1,13	19,0
1,80	8,0	16,5	16,0	1,07	15,0	10,40	12,5	21,0	25,0	1,33	19,0
2,00	6,0	14,0	12,0	0,67	18,0	10,60	11,0	21,0	22,0	1,47	15,0
2,20	6,0	11,0	12,0	0,67	18,0	10,80	11,0	22,0	22,0	1,60	14,0
2,40	5,0	10,0	10,0	0,60	17,0	11,00	10,0	22,0	20,0	1,20	17,0
2,60	5,5	10,0	11,0	0,73	15,0	11,20	7,5	16,5	15,0	0,73	20,0
2,80	7,0	12,5	14,0	0,73	19,0	11,40	7,0	12,5	14,0	0,60	23,0
3,00	7,0	12,5	14,0	0,60	23,0	11,60	5,0	9,5	10,0	0,47	21,0
3,20	6,5	11,0	13,0	0,93	14,0	11,80	7,0	10,5	14,0	0,87	16,0
3,40	5,0	12,0	10,0	0,47	21,0	12,00	8,5	15,0	17,0	1,07	16,0
3,60	5,5	9,0	11,0	0,53	21,0	12,20	13,0	21,0	26,0	1,20	22,0
3,80	4,0	8,0	8,0	0,53	15,0	12,40	7,0	16,0	14,0	0,87	16,0
4,00	4,0	8,0	8,0	0,60	13,0	12,60	5,5	12,0	11,0	0,60	18,0
4,20	6,5	11,0	13,0	0,80	16,0	12,80	5,5	10,0	11,0	0,40	27,0
4,40	6,0	12,0	12,0	0,73	16,0	13,00	7,0	10,0	14,0	1,00	14,0
4,60	6,5	12,0	13,0	0,80	16,0	13,20	9,0	16,5	18,0	0,67	27,0
4,80	5,0	11,0	10,0	0,80	12,0	13,40	4,5	9,5	9,0	0,47	19,0
5,00	3,5	9,5	7,0	0,40	17,0	13,60	5,0	8,5	10,0	0,47	21,0
5,20	4,0	7,0	8,0	0,27	30,0	13,80	4,5	8,0	9,0	0,53	17,0
5,40	4,5	6,5	9,0	0,27	34,0	14,00	4,0	8,0	8,0	0,67	12,0
5,60	7,0	9,0	14,0	0,33	42,0	14,20	7,0	12,0	14,0	0,80	17,0
5,80	5,0	7,5	10,0	0,33	30,0	14,40	7,0	13,0	14,0	1,13	12,0
6,00	4,5	7,0	9,0	0,47	19,0	14,60	9,5	18,0	19,0	1,33	14,0
6,20	6,5	10,0	13,0	0,67	19,0	14,80	9,0	19,0	18,0	1,60	11,0
6,40	5,5	10,5	11,0	0,53	21,0	15,00	10,0	22,0	20,0	1,60	12,0
6,60	6,0	10,0	12,0	0,53	22,0	15,20	9,0	21,0	18,0	1,40	13,0
6,80	4,5	8,5	9,0	0,47	19,0	15,40	11,5	22,0	23,0	1,67	14,0
7,00	4,0	7,5	8,0	0,53	15,0	15,60	13,5	26,0	27,0	1,67	16,0
7,20	5,0	9,0	10,0	0,47	21,0	15,80	16,5	29,0	33,0	2,07	16,0
7,40	5,5	9,0	11,0	0,53	21,0	16,00	15,5	31,0	31,0	2,13	15,0
7,60	5,5	9,5	11,0	0,40	27,0	16,20	16,0	32,0	32,0	1,87	17,0
7,80	7,5	10,5	15,0	0,60	25,0	16,40	16,0	30,0	32,0	2,07	15,0
8,00	5,5	10,0	11,0	0,60	18,0	16,60	13,0	28,5	26,0	2,00	13,0
8,20	4,5	9,0	9,0	0,60	15,0	16,80	12,5	27,5	25,0	2,00	12,0
8,40	5,5	10,0	11,0	0,67	16,0	17,00	12,0	27,0	24,0	---	---
8,60	7,0	12,0	14,0	1,00	14,0						

- PENETROMETRO STATICO tipo GOUDA da 10 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 20 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann $\phi = 35.7$ mm (area punta 10 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

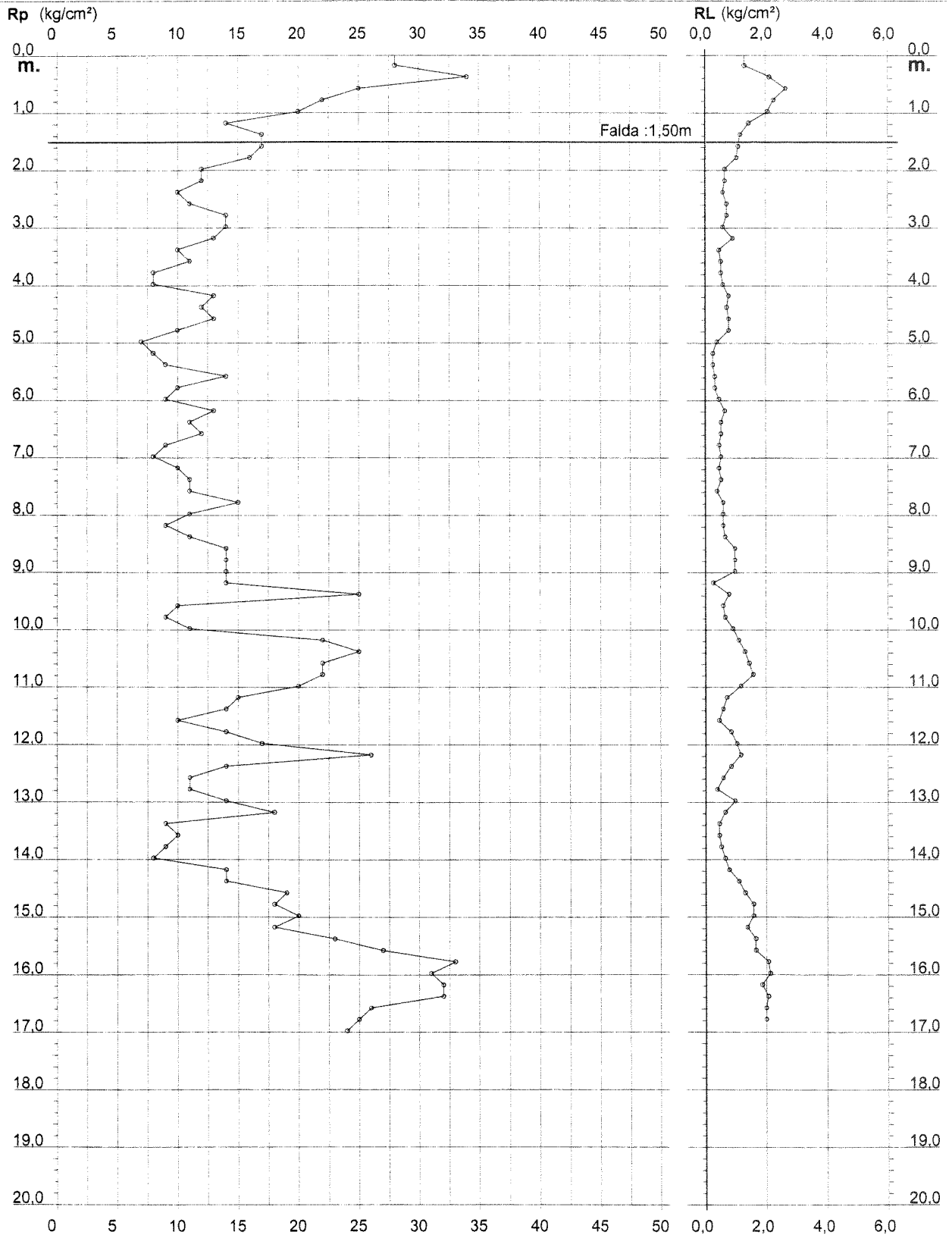
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 1

2.010496-059

- committente : Rovatti Marisa
 - lavoro : Realizzazione servizio agricolo
 - località : Via Vecchia, 17 - Saliceto Buzzalino di Campogalliano

- data : 14/05/2012
 - quota inizio : Piano Campagna
 - prof. falda : 1,50 m da quota inizio
 - scala vert. : 1 : 100





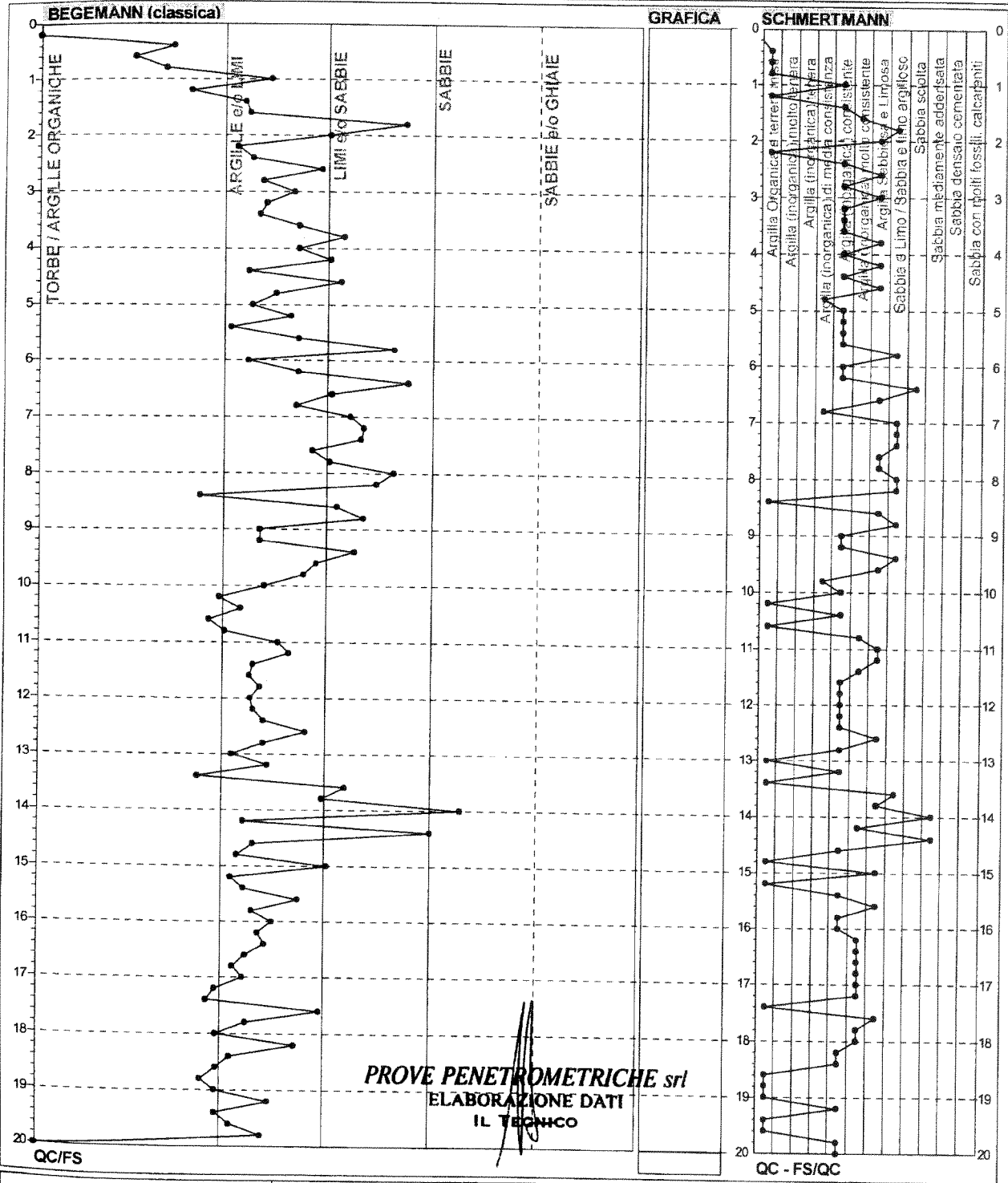
PROVE PENETROMETRICHE SRL
 Via per Modena, 8 - 41051 Castelnuovo Rangone (MO)
 Tel. 059-535046 - Fax: 059-539166

PROVA PENETROMETRICA STATICA MECCANICA INTERPRETAZIONE LITOLOGICA

n°	CPT1
riferimento	064-06
certificato n°	000209
n° verbale accett.	0072 del 27/03/06

Committente: **Comune di Campogalliano (MO)**
 Cantiere: **Variante PRG**
 Località: **Saliceto Buzzalino - Comune di Campogalliano (MO)**

U.M.: **MPa** Data esecuzione: **04/04/2006**
 Scala: **1:100** Data certificato: **07/04/2006**
 Pagina: **1** Preforo:
 Elaborato: **3/3** Falda: **-1,20 m**



Torbe / Argille organiche :	14 punti,	14,00%
Argille e/o Limi :	69 punti,	69,00%
Limi e/o Sabbie :	16 punti,	16,00%
Sabbie :	1 punti,	1,00%
Sabbie e/o Ghiaie :	0 punti,	0,00%

Lo sperimentatore:

Il direttore laboratorio:

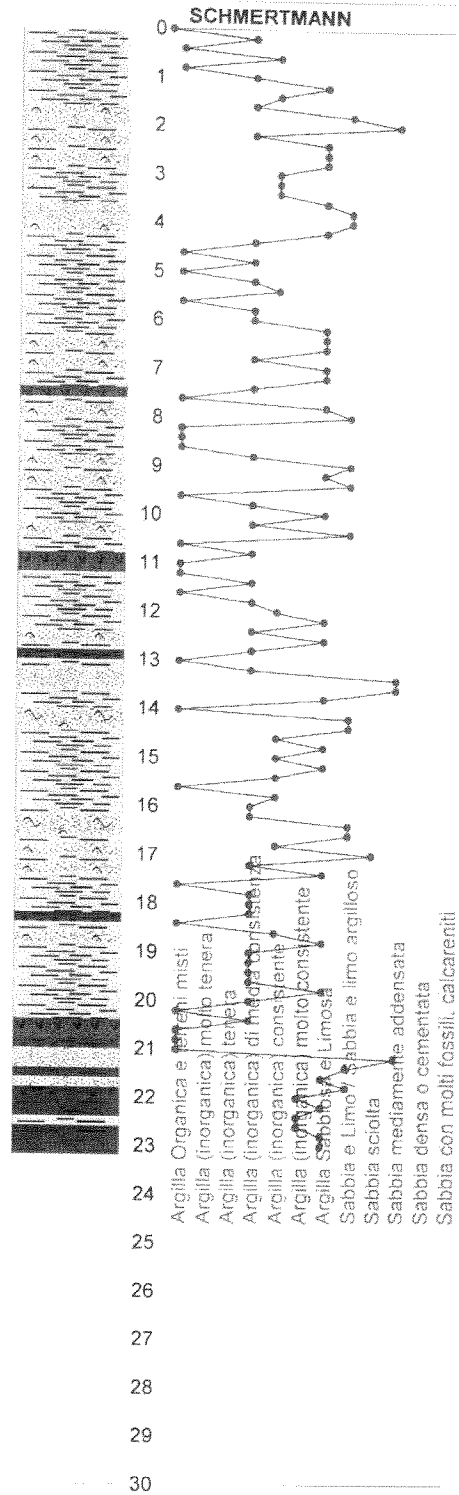
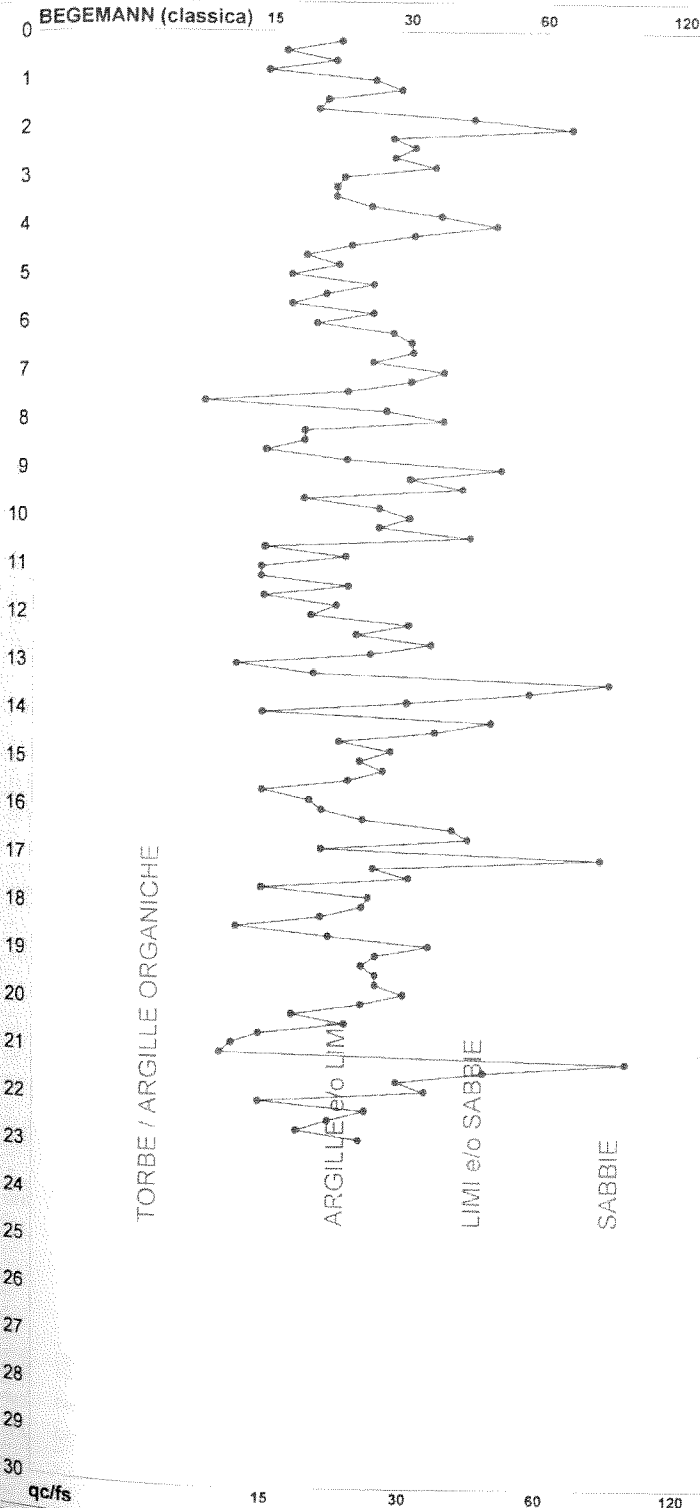
FOND-020408-01

PROVA PENETROMETRICA STATICA MECCANICA
DIAGRAMMI LITOLOGIA

CPT **4**
riferimento **122-2010**
certificato n° **04001836**

Committente: **Studio tecnico**
Cantiere: **Ampliamento fabbricato industriale**
Località: **Campogalliano (MO)**

U.M.: **MPa** Data eseg.: **08/03/2010**
Scala: **1:150** Data certificato: **11/03/2010**
Pagina: **3/4**
Elaborato: Falda: **-0.40 m da p.c.**



qc/fs	15	30	60	120	qc	qc - fs/qc
Torbe / Argille org.:	9 punti, 6.04%	Argilla Organica e terreni misti	23 punti, 15.44%	Argilla Sabbiosa e Limosa:	25 punti, 16.78%	
Argille e/o Limi:	79 punti, 53.02%	Argilla (inorganica) molto tenera	0 punti, 0.00%	Sabbia e Limo / Sabbia e limo arg.:	13 punti, 8.72%	
Limi e/o Sabbie:	22 punti, 14.77%	Argilla (inorganica) tenera	0 punti, 0.00%	Sabbia sciolta:	1 punto, 0.67%	
Sabbie:	4 punti, 2.68%	Argilla (inorganica) media consist.	32 punti, 21.48%	Sabbia mediamente addensata	4 punti, 2.68%	
Sabbie e/o Ghiaie:	0 punti, 0.00%	Argilla (inorganica) consistente	13 punti, 8.72%	Sabbia densa o cementata	0 punti, 0.00%	
		Argilla (inorganica) molto consist.	3 punti, 2.01%	Sabbia con molti fossili, calcareniti	0 punti, 0.00%	

nota:

PROVA PENETROMETRICA STATICA MECCANICA

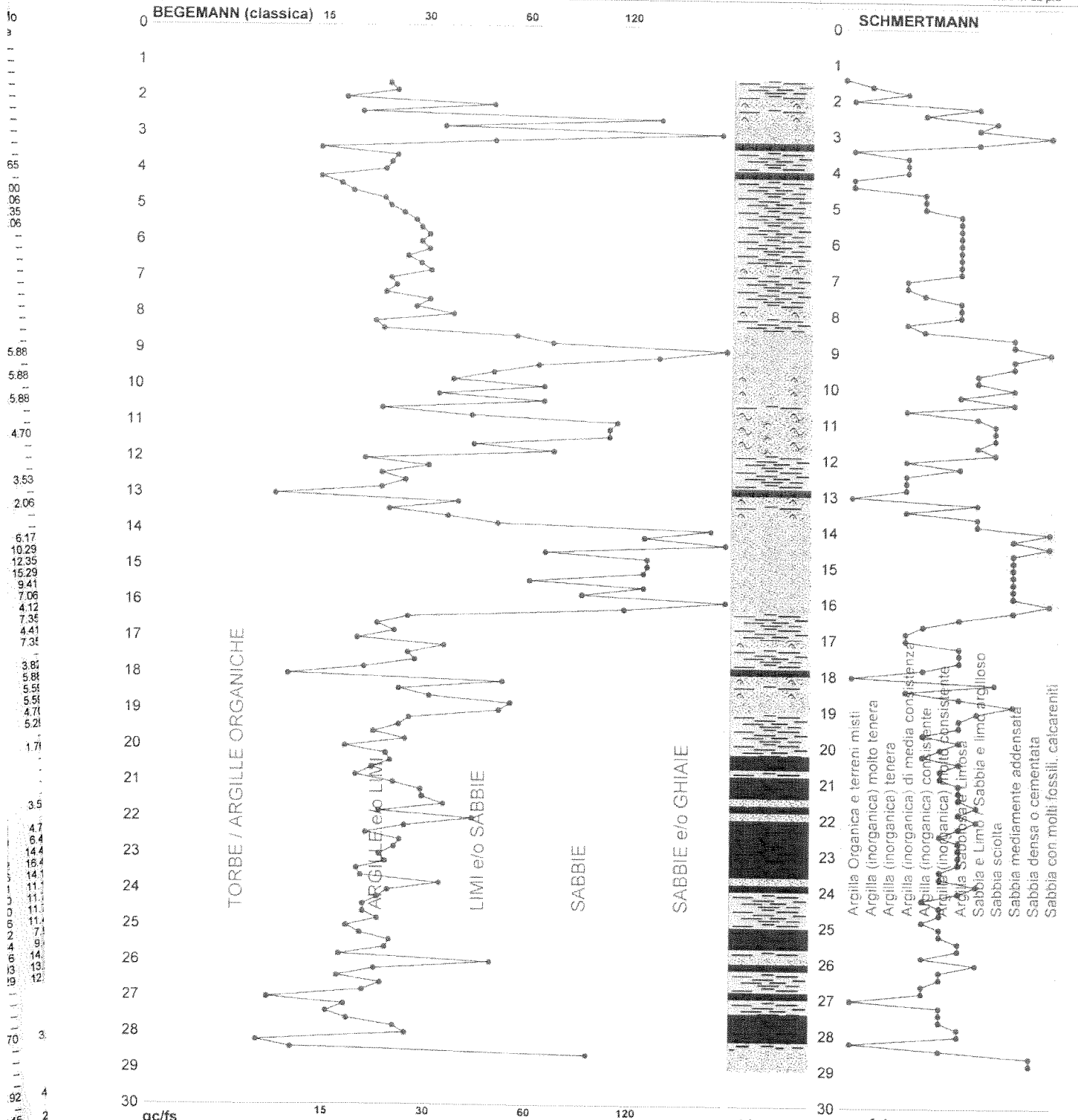
DIAGRAMMI LITOLOGIA

CPT 9

referimento **122-2010**
certificato n° **04001841**

Committente: **Studio tecnico**
Cantiere: **Ampliamento fabbricato industriale**
Località: **Campogalliano (MO)**

U.M.: **MPa** Data exec.: **09/03/2010**
Scala: **1:150** Data certificato: **09/03/2010**
Pagina: **3/4**
Elaborato: Falda: **-0.90 m da p.c.**

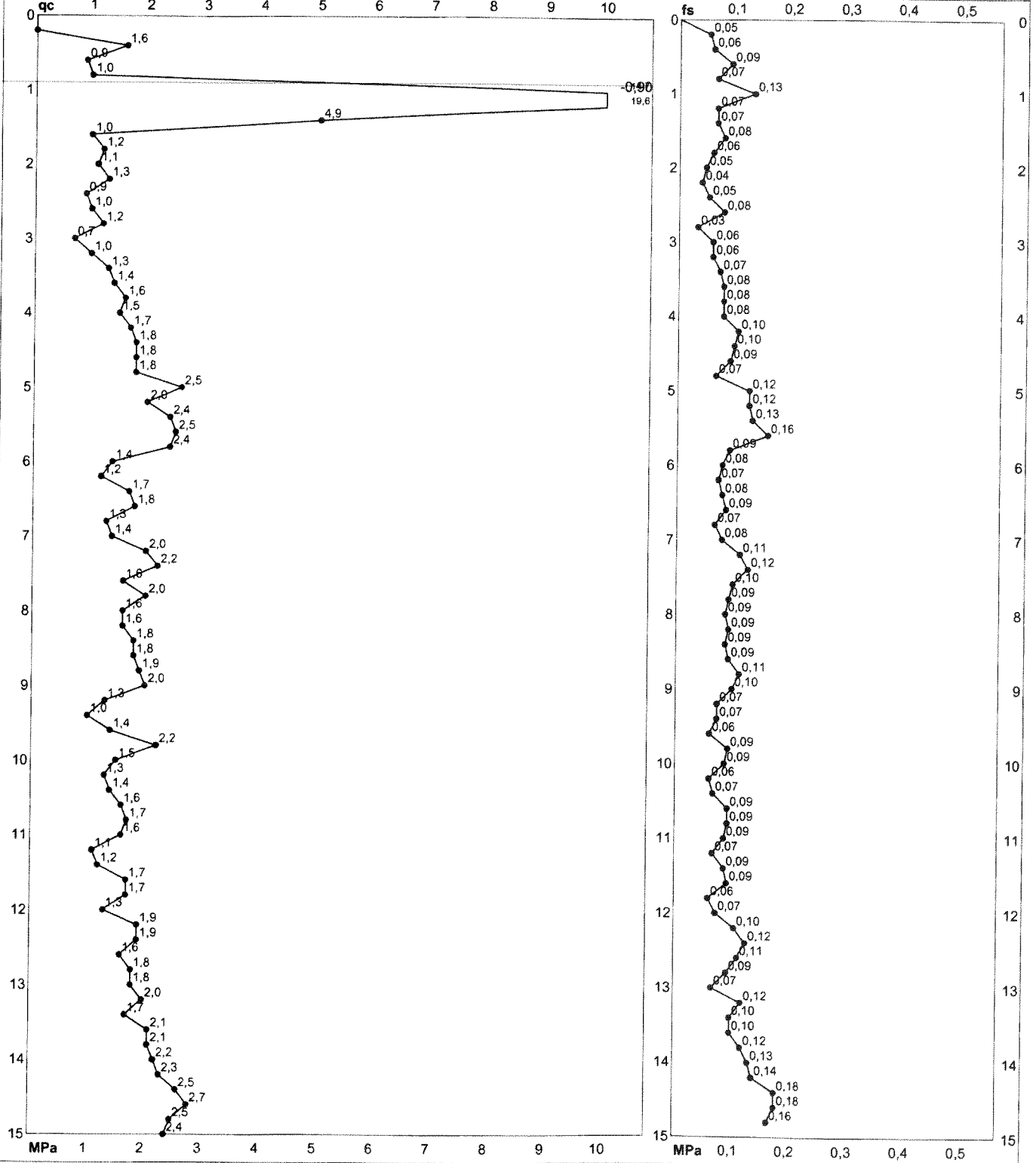


qc/fs	15	30	60	120	qc	qc - fs/qc
Torbe / Argille org :	14 punti, 9.40%	Argilla Organica e terreni misti	8 punti, 5.37%	Argilla Sabbiosa e Limosa	37 punti, 24.83%	
Argille e/o Limi :	81 punti, 54.36%	Argilla (inorganica) molto tenera	1 punti, 0.67%	Sabbia e Limo / Sabbia e limo arg.	15 punti, 10.07%	
Limi e/o Sabbie :	24 punti, 16.11%	Argilla (inorganica) tenera	0 punti, 0.00%	Sabbia sciolta:	6 punti, 4.03%	
Sabbie :	15 punti, 10.07%	Argilla (inorganica) media consist.	16 punti, 10.74%	Sabbia mediamente addensata:	16 punti, 10.74%	
Sabbie e/o Ghiaie :	9 punti, 6.04%	Argilla (inorganica) consistente	15 punti, 10.07%	Sabbia densa o cementata:	1 punti, 0.67%	
		Argilla (inorganica) molto consist.	16 punti, 10.74%	Sabbia con molti fossili, calcareniti	5 punti, 3.36%	

nota:

PROVA PENETROMETRICA STATICA MECCANICA DIAGRAMMI DI RESISTENZA	n°	1
	certificato n°	RdP R02240

Committente: Studio Arkigeo Cantiere: Studio terreno di fondazione Località: Campogalliano (MO) - Via Magnagallo est	U.M.: MPa Scala: 1:75 Pagina: 3/3 Elaborato:	Data eseg.: 14/03/2011 Data certificato: 16/03/2011 Preforo: m Falda: -0,90 m
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Coord. Relative	Coord. Geografiche	Penetrometro: Pagani TG63-100 Responsabile: Dott. Geol. Salvatore Mucci Assistente:	Quota inizio : Corr.astine: kN/ml
Xr: m	Xg:		
Yr: m	Yg:		
Zr: m	Zg:		

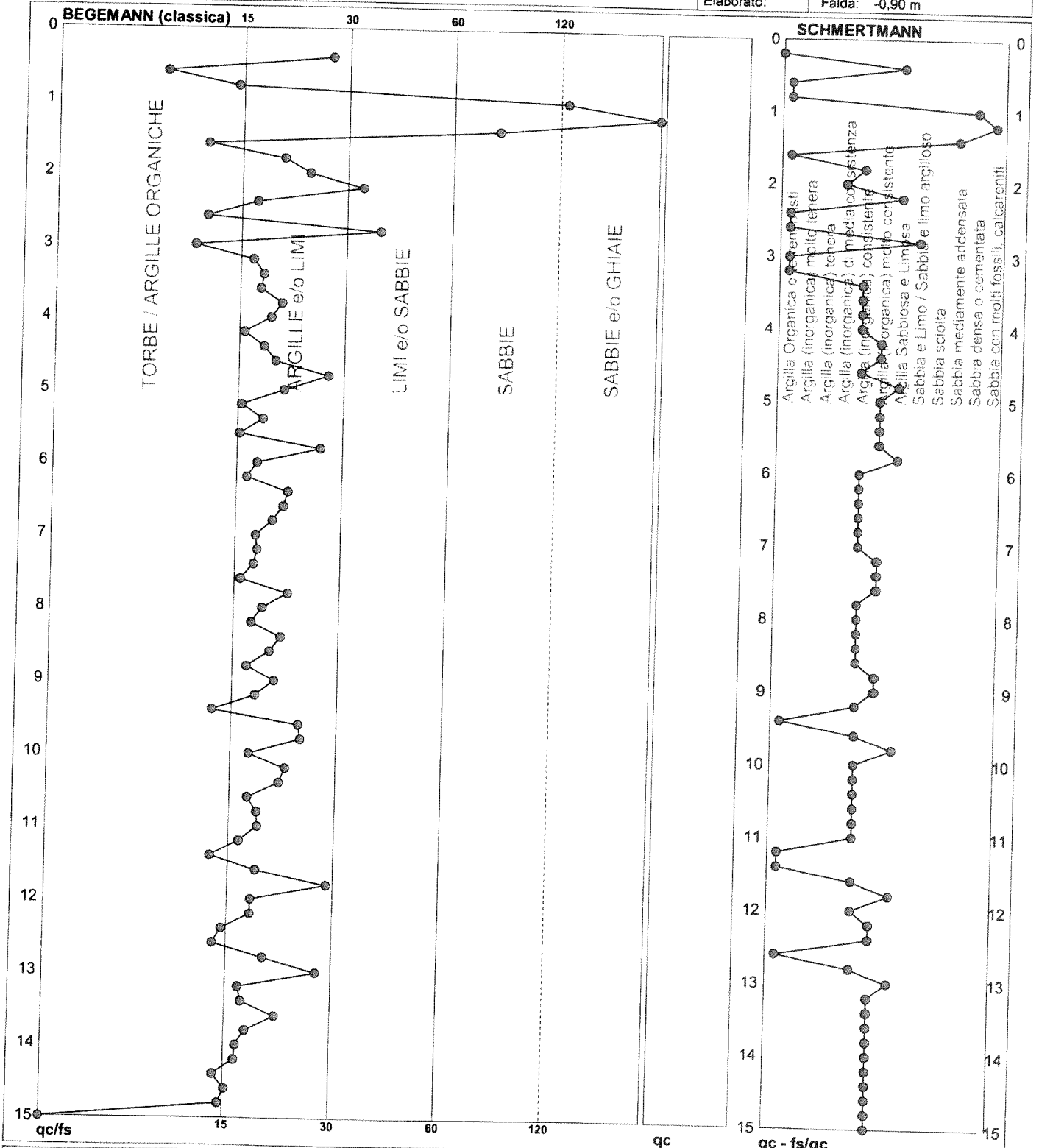
PROVA PENETROMETRICA STATICA MECCANICA

DIAGRAMMI LITOLOGIA

n° **1**

Committente: **Studio Arkigeo**
 Cantiere: **Studio terreno di fondazione**
 Località: **Campogalliano (MO) - Via Magnalio est**

U.M.: **MPa** Data exec.: **14/03/2011**
 Scala: **1:75**
 Pagina: **1** Prefero: **m**
 Elaborato: **1** Falda: **-0,90 m**



Torbe / Argille org. :	13 punti, 17,57%	Argilla Organica e terreni misti:	11 punti, 14,86%	Argilla Sabbiosa e Limosa:	7 punti, 9,46%
Argille e/o Limi :	57 punti, 77,03%	Argilla (inorganica) molto tenera:	0 punti, 0,00%	Sabbia e Limo / Sabbie e limo arg.:	1 punto, 1,35%
Limi e/o Sabbie :	2 punti, 2,70%	Argilla (inorganica) tenera:	0 punti, 0,00%	Sabbia sciolta:	0 punti, 0,00%
Sabbie:	2 punti, 2,70%	Argilla (inorganica) media consist.:	1 punto, 1,35%	Sabbia mediamente addensata:	1 punto, 1,35%
Sabbie e/o Ghiaie :	1 punto, 1,35%	Argilla (inorganica) consistente:	28 punti, 37,84%	Sabbia densa o cementata:	1 punto, 1,35%
		Argilla (inorganica) molto consist.:	22 punti, 29,73%	Sabbia con molti fossili, calcareniti:	1 punto, 1,35%

PROVA PENETROMETRICA STATICA MECCANICA

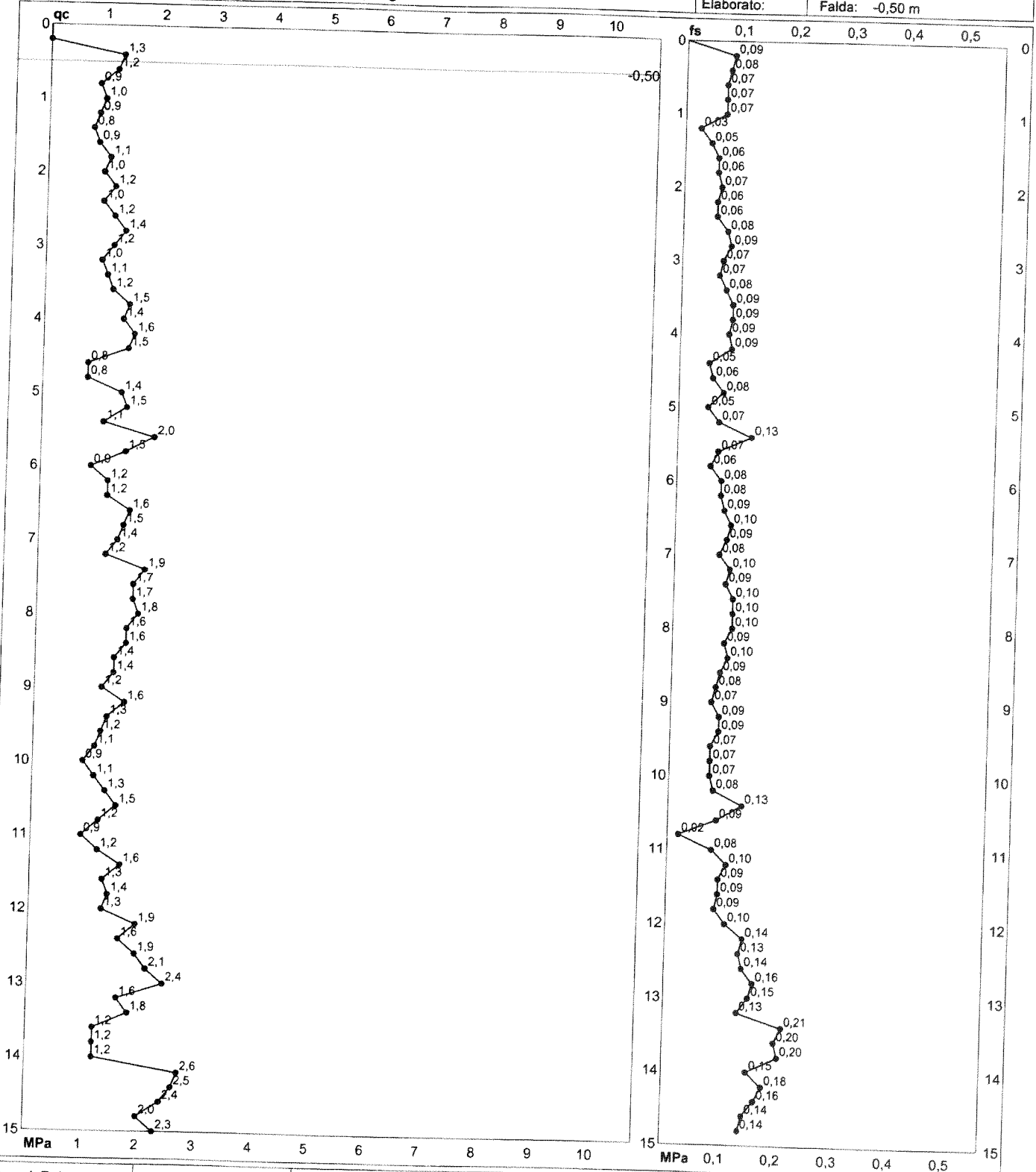
DIAGRAMMI DI RESISTENZA

n°	2
certificato n°	RdP R02241

Committente: **Studio Arkigeo**
 Cantiere: **Studio terreno di fondazione**
 Località: **Campogalliano (MO) - Via Magnagallo est**

U.M.: **MPa**
 Scala: **1:75**
 Pagina: **3/3**
 Elaborato:

Data esec.: **14/03/2011**
 Data certificato: **16/03/2011**
 Preforo: **m**
 Falda: **-0,50 m**



Coord. Relative Xr: m Yr: m Zr: m	Coord. Geografiche Xg: Yg: Zg:	Penetrometro: Pagani TG63-100 Responsabile: Dott. Geol. Salvatore Mucci Assistente:	Quota inizio: Corr.astine: kN/ml
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FON018

PROVA PENETROMETRICA STATICA MECCANICA

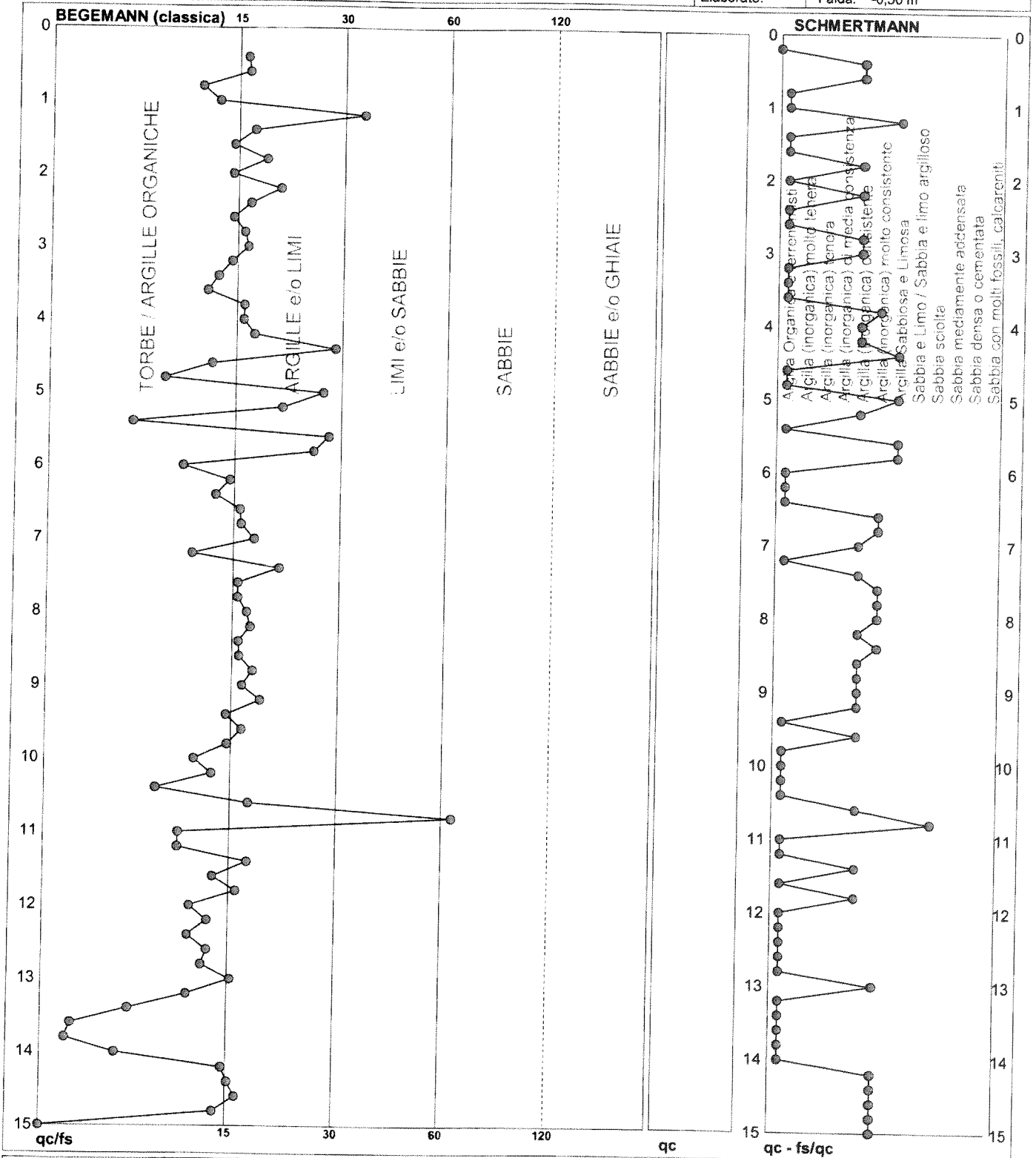
DIAGRAMMI LITOLOGIA

n°

2

Committente: **Studio Arkigeo**
 Cantiere: **Studio terreno di fondazione**
 Località: **Campogalliano (MO) - Via Magnagallo est**

U.M.: **MPa** Data eseg.: **14/03/2011**
 Scala: **1:75**
 Pagina: **1** Preforo: **m**
 Elaborato: Falda: **-0,50 m**



Torbe / Argille org. :	36 punti, 48,65%	Argilla Organica e terreni misti:	35 punti, 47,30%	Argilla Sabbiosa e Limosa:	5 punti, 6,76%
Argille e/o Limi :	37 punti, 50,00%	Argilla (inorganica) molto tenera:	0 punti, 0,00%	Sabbia e Limo / Sabbia e limo arg.:	0 punti, 0,00%
Limi e/o Sabbie :	2 punti, 2,70%	Argilla (inorganica) tenera:	0 punti, 0,00%	Sabbia sciolta:	1 punti, 1,35%
Sabbie:	0 punti, 0,00%	Argilla (inorganica) media consist.:	0 punti, 0,00%	Sabbia mediamente addensata:	0 punti, 0,00%
Sabbie e/o Ghiaie :	0 punti, 0,00%	Argilla (inorganica) consistente:	20 punti, 27,03%	Sabbia densa o cementata:	0 punti, 0,00%
		Argilla (inorganica) molto consist.:	12 punti, 16,22%	Sabbia con molti fossili, calcareniti:	0 punti, 0,00%

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
.6	22	2.6	SABBIA E LIMO
.8	30	5	SABBIA E LIMO
1	28	10	ARGILLA SAB/LIMOSA
1.2	26	8.9	ARGILLA SAB/LIMOSA
1.4	39	2.4	SABBIA E LIMO
1.6	35	6	SABBIA E LIMO
1.8	28	8.8	ARGILLA SAB/LIMOSA
2	30	6.3	SABBIA
2.2	35	6	SABBIA E LIMO
2.4	26	8.9	ARGILLA SAB/LIMOSA
2.6	26	2.6	SABBIA E LIMO
2.8	7	3.3	ARGILLA MEDIA
3	8	2.6	ARGILLA SAB/LIMOSA
3.2	6	.6	SABBIA E LIMO
3.4	5	1.3	SABBIA SCIOLTA
3.6	4	2.6	ARGILLA ORG.E/O TERR.MISTI
3.8	5	2	ARGILLA TENERA
4	10	1.3	SABBIA E LIMO

4.2	12	2.6	SABBIA SCIOLTA
4.4	5	2	ARGILLA TENERA
4.6	4	2.6	ARGILLA ORG.E/O TERR.MISTI
4.8	6	2.6	ARGILLA TENERA
5	5	1.7	ARGILLA SAB/LIMOSA
5.2	6	2.6	ARGILLA TENERA
5.4	6	4	ARGILLA ORG.E/O TERR.MISTI
5.6	6	3.7	ARGILLA ORG.E/O TERR.MISTI
5.8	6	2.4	ARGILLA TENERA
6	5	2	ARGILLA TENERA
6.2	6	4	ARGILLA ORG.E/O TERR.MISTI
6.4	8	8	ARGILLA ORG.E/O TERR.MISTI
6.6	12	6.6	ARGILLA MEDIA
6.8	8	6.6	ARGILLA ORG.E/O TERR.MISTI
7	10	5.3	ARGILLA MEDIA
7.2	8	5.3	ARGILLA ORG.E/O TERR.MISTI
7.4	8	5.3	ARGILLA ORG.E/O TERR.MISTI
7.6	14	6.6	ARGILLA MEDIA
7.8	16	5.3	ARGILLA SAB/LIMOSA
8	20	5.3	SABBIA
8.2	26	8.9	ARGILLA SAB/LIMOSA
8.4	30	16	ARGILLA SAB/LIMOSA
8.6	35	16.9	ARGILLA SAB/LIMOSA
8.8	35	10.9	ARGILLA SAB/LIMOSA
9	28	8.8	ARGILLA SAB/LIMOSA

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218
 Part. I.V.A. 01475850366

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PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
9.2	26	10.1	ARGILLA SAB/LIMOSA
9.4	39	10.9	SABBIA
9.6	30	7.5	SABBIA
9.8	35	6	SABBIA E LIMO
10	28	13.7	ARGILLA SAB/LIMOSA
10.2	26	12.6	ARGILLA SAB/LIMOSA
10.4	35	7.2	SABBIA
10.6	26	13.8	ARGILLA SAB/LIMOSA
10.8	30	8.7	SABBIA
11	35	7.2	SABBIA
11.2	28	10	ARGILLA SAB/LIMOSA
11.4	26	15	ARGILLA COMPATTA
11.6	43	3.6	SABBIA E LIMO
11.8	39	3.6	SABBIA E LIMO
12	39	4.8	SABBIA E LIMO
12.2	39	9.7	SABBIA
12.4	43	9.7	SABBIA
12.6	48	9.7	SABBIA
12.8	46	8.4	SABBIA E LIMO
13	43	6	SABBIA E LIMO
13.2	37	10.9	SABBIA
13.4	39	8.4	SABBIA
13.6	43	4.8	SABBIA E LIMO
13.8	35	1.2	SABBIA E LIMO
14	48	14.5	ARGILLA SAB/LIMOSA
14.2	59	9.7	SABBIA E LIMO
14.4	63	12.1	SABBIA E LIMO
14.6	52	12.1	SABBIA
14.8	55	9.7	SABBIA E LIMO
15	57	10.9	SABBIA E LIMO
15.2	50	16.9	ARGILLA SAB/LIMOSA
15.4	57	16.9	ARGILLA SAB/LIMOSA
15.6	61	8.4	SABBIA E LIMO
15.8	54	3.6	SABBIA E LIMO
16	44	7.2	SABBIA E LIMO
16.2	26	2.6	SABBIA E LIMO
16.4	16	13.2	ARGILLA COMPATTA
16.6	8	8	ARGILLA ORG.E/O TERR.MISTI
16.8	12	8	ARGILLA ORG.E/O TERR.MISTI
17	12	6.6	ARGILLA MEDIA
17.2	12	8	ARGILLA ORG.E/O TERR.MISTI
17.4	24	18.8	ARGILLA COMPATTA
17.6	52	3.6	SABBIA E LIMO
17.8	70	9.7	SABBIA E LIMO
18	55	13.3	SABBIA

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

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Part. I.V.A. 01475850366

4

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
18.2	59	8.4	SABBIA E LIMO
18.4	66	12.1	SABBIA E LIMO
18.6	74	4.8	SABBIA E LIMO
18.8	55	2.4	SABBIA E LIMO
19	52	2.4	SABBIA E LIMO
19.2	52	4.8	SABBIA E LIMO
19.4	12	15.8	ARGILLA SAB/LIMOSA
19.6	20	12.9	ARGILLA COMPATTA
19.8	16	9.3	ARGILLA COMPATTA
20	20	12.9	ARGILLA COMPATTA
20.2	18	15.5	ARGILLA COMPATTA
20.4	12	10.6	ARGILLA ORG.E/O TERR.MISTI
20.6	14	18.1	ARGILLA SAB/LIMOSA
20.8	16	18	ARGILLA COMPATTA
21	26	13.8	ARGILLA SAB/LIMOSA
21.2	14	19.4	ARGILLA SAB/LIMOSA
21.4	20	14.1	ARGILLA COMPATTA
21.6	20	14.1	ARGILLA COMPATTA
21.8	24	15.1	ARGILLA COMPATTA
22	20	14.1	ARGILLA COMPATTA
22.2	12	17	ARGILLA SAB/LIMOSA
22.4	18	17.9	ARGILLA COMPATTA
22.6	20	17.8	ARGILLA COMPATTA
22.8	20	17.8	ARGILLA COMPATTA
23	16	18	ARGILLA COMPATTA
23.2	14	15.7	ARGILLA MEDIA
23.4	30	17.2	ARGILLA MOLTO COMPATTA
23.6	41	2.4	SABBIA E LIMO
23.8	14	21.8	ARGILLA SAB/LIMOSA
24	14	14.5	ARGILLA MEDIA
24.2	14	14.5	ARGILLA MEDIA
24.4	16	13.2	ARGILLA COMPATTA
24.6	14	14.5	ARGILLA MEDIA
24.8	16	14.4	ARGILLA COMPATTA
25	18	13	ARGILLA COMPATTA
25.2	16	14.4	ARGILLA COMPATTA
25.4	14	14.5	ARGILLA MEDIA
25.6	18	13	ARGILLA COMPATTA
25.8	18	13	ARGILLA COMPATTA
26	14	9.3	ARGILLA MEDIA
26.2	12	8	ARGILLA ORG.E/O TERR.MISTI
26.4	18	6.6	ARGILLA SAB/LIMOSA
26.6	18	16.7	ARGILLA COMPATTA
26.8	18	15.5	ARGILLA COMPATTA
27	10	9.3	ARGILLA ORG.E/O TERR.MISTI

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Part. I.V.A. 01475850366

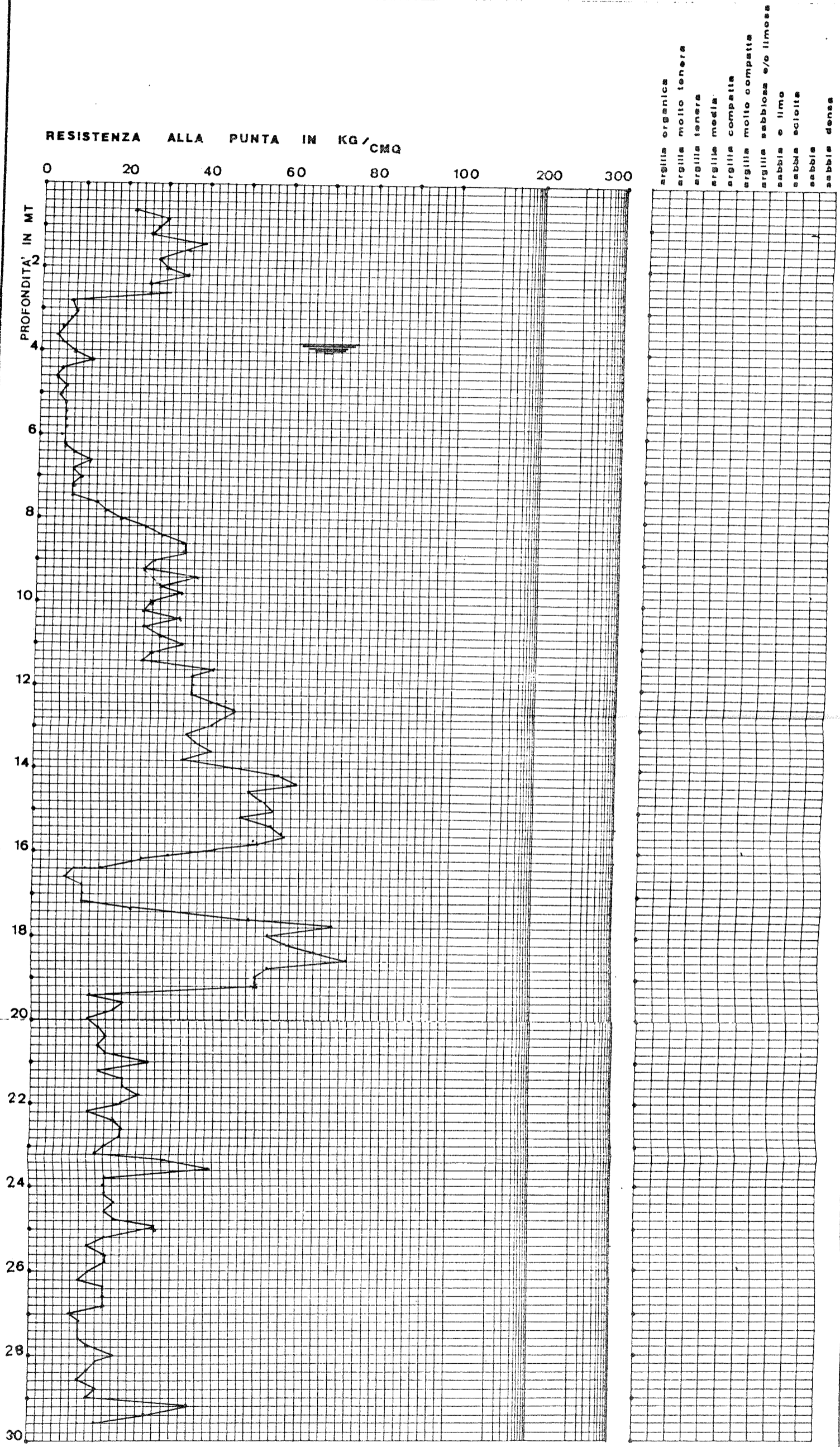
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PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
27.2	12	2.6	SABBIA SCIOLTA
27.4	12	4	ARGILLA SAB/LIMOSA
27.6	12	5.3	ARGILLA MEDIA
27.8	14	9.3	ARGILLA MEDIA
28	20	4	SABBIA
28.2	16	9.3	ARGILLA COMPATTA
28.4	12	6.6	ARGILLA MEDIA
28.6	10	6.6	ARGILLA ORG.E/O TERR.MISTI
28.8	16	6.6	ARGILLA SAB/LIMOSA
29	14	10.6	ARGILLA ORG.E/O TERR.MISTI
29.2	37	1.2	SABBIA E LIMO
29.4	28	11.2	ARGILLA SAB/LIMOSA
29.6	16	13.2	ARGILLA COMPATTA

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MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

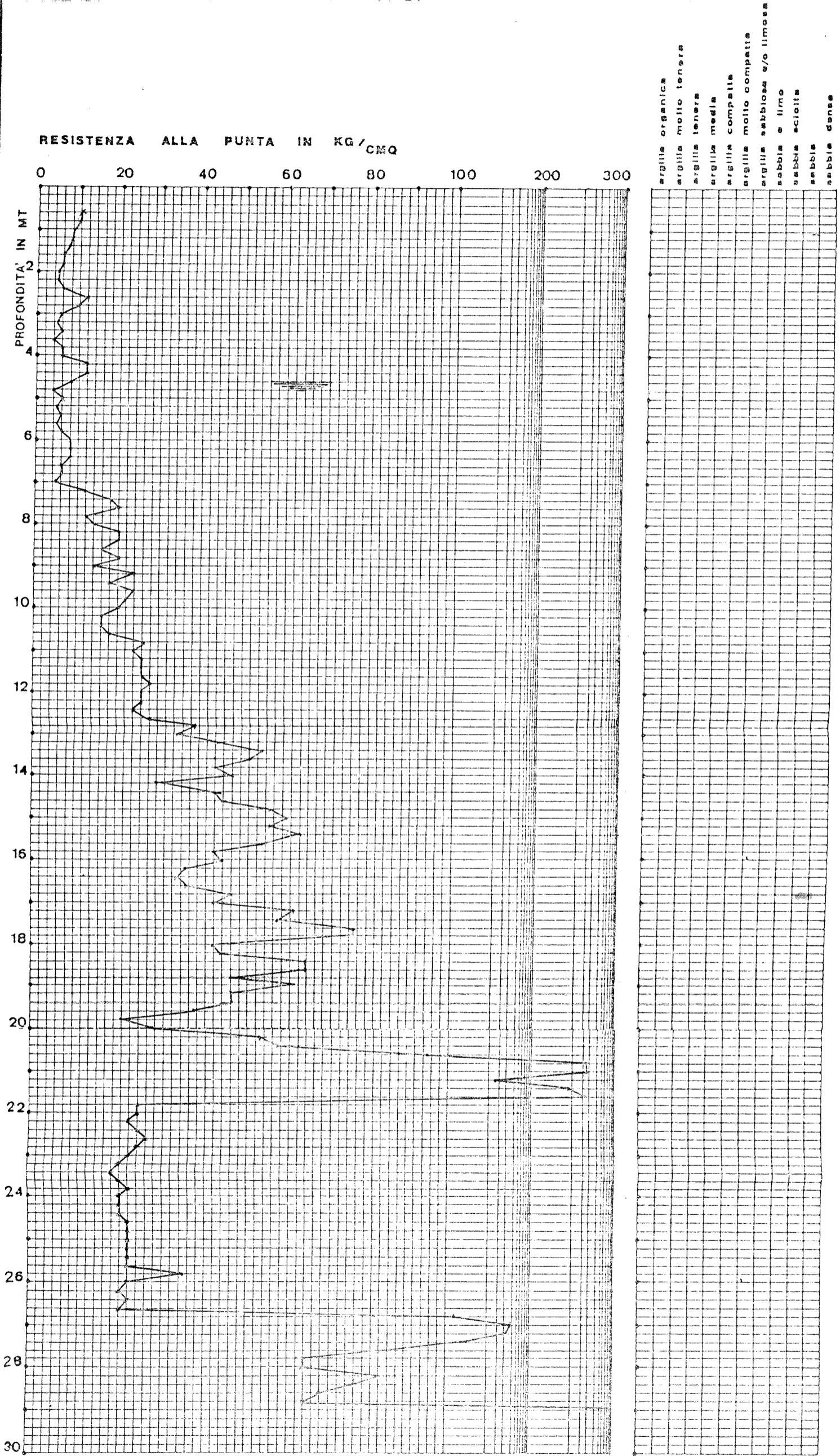


(penetrometro statico da 10t a punta meccanica con "friction jacket")

RILIEVI TOPOGRAFICI E GEOLOGICI MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

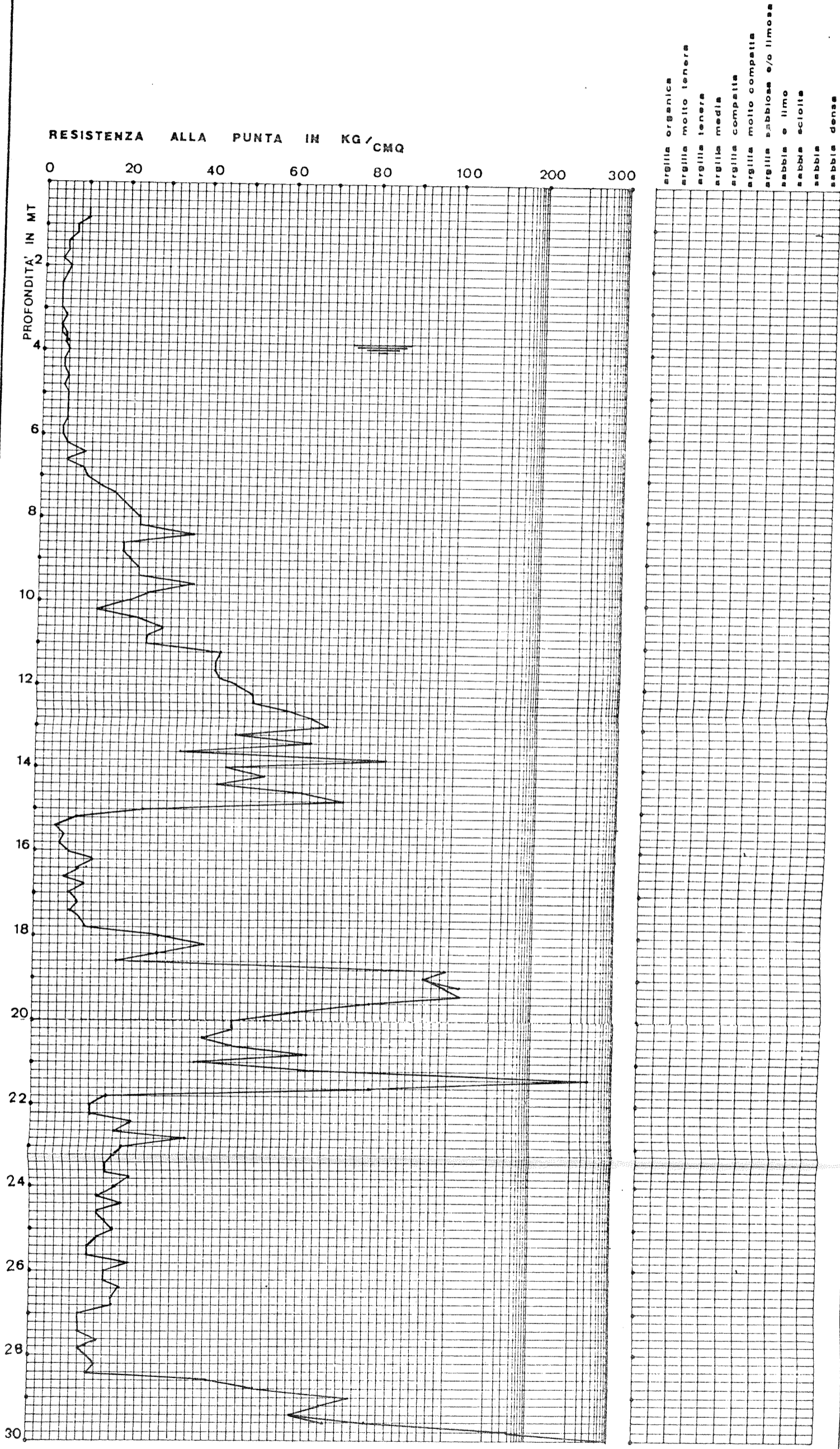


(penetrometro statico da 10t a punta meccanica con "friction jacket")

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366



(penetrometro statico da 10 t a punta meccanica con "friction jacket")

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
.6	10	4	ARGILLA MEDIA
.8	10	2.6	SABBIA SCIOLTA
1	8	4	ARGILLA MEDIA
1.2	8	2.6	ARGILLA SAB/LIMOSA
1.4	7	3.3	ARGILLA MEDIA
1.6	6	2.6	ARGILLA TENERA
1.8	6	2.6	ARGILLA TENERA
2	5	2	ARGILLA TENERA
2.2	7	.6	SABBIA E LIMO
2.4	6	4	ARGILLA ORG.E/O TERR.MISTI
2.6	14	2.6	SABBIA E LIMO
2.8	12	1.3	SABBIA E LIMO
3	6	2.6	ARGILLA TENERA
3.2	5	3	ARGILLA ORG.E/O TERR.MISTI
3.4	6	2.6	ARGILLA TENERA
3.6	4	1.7	ARGILLA TENERA
3.8	6	2.6	ARGILLA TENERA
4	6	4	ARGILLA ORG.E/O TERR.MISTI
4.2	12	2.6	SABBIA SCIOLTA
4.4	12	4	ARGILLA SAB/LIMOSA
4.6	8	1.3	SABBIA E LIMO
4.8	4	2.6	ARGILLA ORG.E/O TERR.MISTI
5	6	1.3	SABBIA SCIOLTA
5.2	5	2	ARGILLA TENERA
5.4	6	4	ARGILLA ORG.E/O TERR.MISTI
5.6	5	3.3	ARGILLA ORG.E/O TERR.MISTI
5.8	6	5.3	ARGILLA ORG.E/O TERR.MISTI
6	8	4	ARGILLA MEDIA
6.2	8	6.6	ARGILLA ORG.E/O TERR.MISTI
6.4	8	6.6	ARGILLA ORG.E/O TERR.MISTI
6.6	6	4	ARGILLA ORG.E/O TERR.MISTI
6.8	6	4	ARGILLA ORG.E/O TERR.MISTI
7	5	4.6	ARGILLA ORG.E/O TERR.MISTI
7.2	12	6.6	ARGILLA MEDIA
7.4	18	4	SABBIA SCIOLTA
7.6	20	2.6	SABBIA E LIMO
7.8	12	5.3	ARGILLA MEDIA
8	14	6.6	ARGILLA MEDIA
8.2	20	4	SABBIA
8.4	20	6.6	ARGILLA SAB/LIMOSA
8.6	16	5.3	ARGILLA SAB/LIMOSA
8.8	20	6.6	ARGILLA SAB/LIMOSA
9	14	2.6	SABBIA E LIMO

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

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PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
9.2	24	7.8	ARGILLA SAB/LIMOSA
9.4	18	5.3	SABBIA SCIOLTA
9.6	24	7.8	ARGILLA SAB/LIMOSA
9.8	22	2.6	SABBIA E LIMO
10	20	4	SABBIA
10.2	16	5.3	ARGILLA SAB/LIMOSA
10.4	16	2.6	SABBIA E LIMO
10.6	18	8	ARGILLA SAB/LIMOSA
10.8	26	8.9	ARGILLA SAB/LIMOSA
11	24	9	ARGILLA SAB/LIMOSA
11.2	26	8.9	ARGILLA SAB/LIMOSA
11.4	26	8.9	ARGILLA SAB/LIMOSA
11.6	26	8.9	ARGILLA SAB/LIMOSA
11.8	28	5.2	SABBIA E LIMO
12	26	13.8	ARGILLA SAB/LIMOSA
12.2	26	7.7	ARGILLA SAB/LIMOSA
12.4	24	10.3	ARGILLA SAB/LIMOSA
12.6	28	7.6	SABBIA
12.8	39	4.8	SABBIA E LIMO
13	35	7.2	SABBIA
13.2	44	4.8	SABBIA E LIMO
13.4	55	1.2	SABBIA E LIMO
13.6	52	8.4	SABBIA E LIMO
13.8	44	8.4	SABBIA E LIMO
14	48	2.4	SABBIA E LIMO
14.2	30	12.3	ARGILLA SAB/LIMOSA
14.4	44	8.4	SABBIA E LIMO
14.6	46	6	SABBIA E LIMO
14.8	57	2.4	SABBIA E LIMO
15	63	4.8	SABBIA E LIMO
15.2	57	9.7	SABBIA E LIMO
15.4	64	6	SABBIA E LIMO
15.6	55	10.9	SABBIA E LIMO
15.8	44	7.2	SABBIA E LIMO
16	46	2.4	SABBIA E LIMO
16.2	37	7.2	SABBIA E LIMO
16.4	35	1.2	SABBIA E LIMO
16.6	37	1.2	SABBIA E LIMO
16.8	48	4.8	SABBIA E LIMO
17	44	1.2	SABBIA E LIMO
17.2	63	4.8	SABBIA E LIMO
17.4	59	9.7	SABBIA E LIMO
17.6	77	7.2	SABBIA E LIMO
17.8	77	4.8	SABBIA E LIMO
18	44	7.2	SABBIA E LIMO

RILIEVI TOPOGRAFICI E GEOLOGICI MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

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PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
18.2	46	6	SABBIA E LIMO
18.4	66	7.2	SABBIA E LIMO
18.6	66	6	SABBIA E LIMO
18.8	48	12.1	SABBIA
19	63	7.2	SABBIA E LIMO
19.2	48	4.8	SABBIA E LIMO
19.4	48	12.1	SABBIA
19.6	39	1.2	SABBIA E LIMO
19.8	22	2.6	SABBIA E LIMO
20	30	14.8	ARGILLA SAB/LIMOSA
20.2	55	4.8	SABBIA E LIMO
20.4	59	2.4	SABBIA E LIMO
20.6	95	24.2	SABBIA
20.8	266	48.5	SABBIA E LIMO
21	266	24.2	SABBIA E LIMO
21.2	157	36.3	SABBIA DENSA
21.4	248	24.2	SABBIA E LIMO
21.6	266	24.2	SABBIA E LIMO
21.8	26	39.3	ARGILLA SAB/LIMOSA
22	26	24.7	ARGILLA COMPATTA
22.2	24	16.3	ARGILLA COMPATTA
22.4	26	17.4	ARGILLA COMPATTA
22.6	28	16.1	ARGILLA COMPATTA
22.8	26	15	ARGILLA COMPATTA
23	24	16.3	ARGILLA COMPATTA
23.2	22	17.7	ARGILLA COMPATTA
23.4	20	16.6	ARGILLA COMPATTA
23.6	22	17.7	ARGILLA COMPATTA
23.8	24	16.3	ARGILLA COMPATTA
24	22	15.2	ARGILLA COMPATTA
24.2	22	15.2	ARGILLA COMPATTA
24.4	22	17.7	ARGILLA COMPATTA
24.6	24	16.3	ARGILLA COMPATTA
24.8	24	16.3	ARGILLA COMPATTA
25	24	18.8	ARGILLA COMPATTA
25.2	24	17.5	ARGILLA COMPATTA
25.4	24	17.5	ARGILLA COMPATTA
25.6	24	18.8	ARGILLA COMPATTA
25.8	37	14.5	ARGILLA SAB/LIMOSA
26	24	18.8	ARGILLA COMPATTA
26.2	22	17.7	ARGILLA COMPATTA
26.4	24	17.5	ARGILLA COMPATTA
26.6	22	17.7	ARGILLA COMPATTA
26.8	103	24.2	SABBIA DENSA
27	139	18.1	SABBIA E LIMO

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218
Part. I.V.A. 01475850366

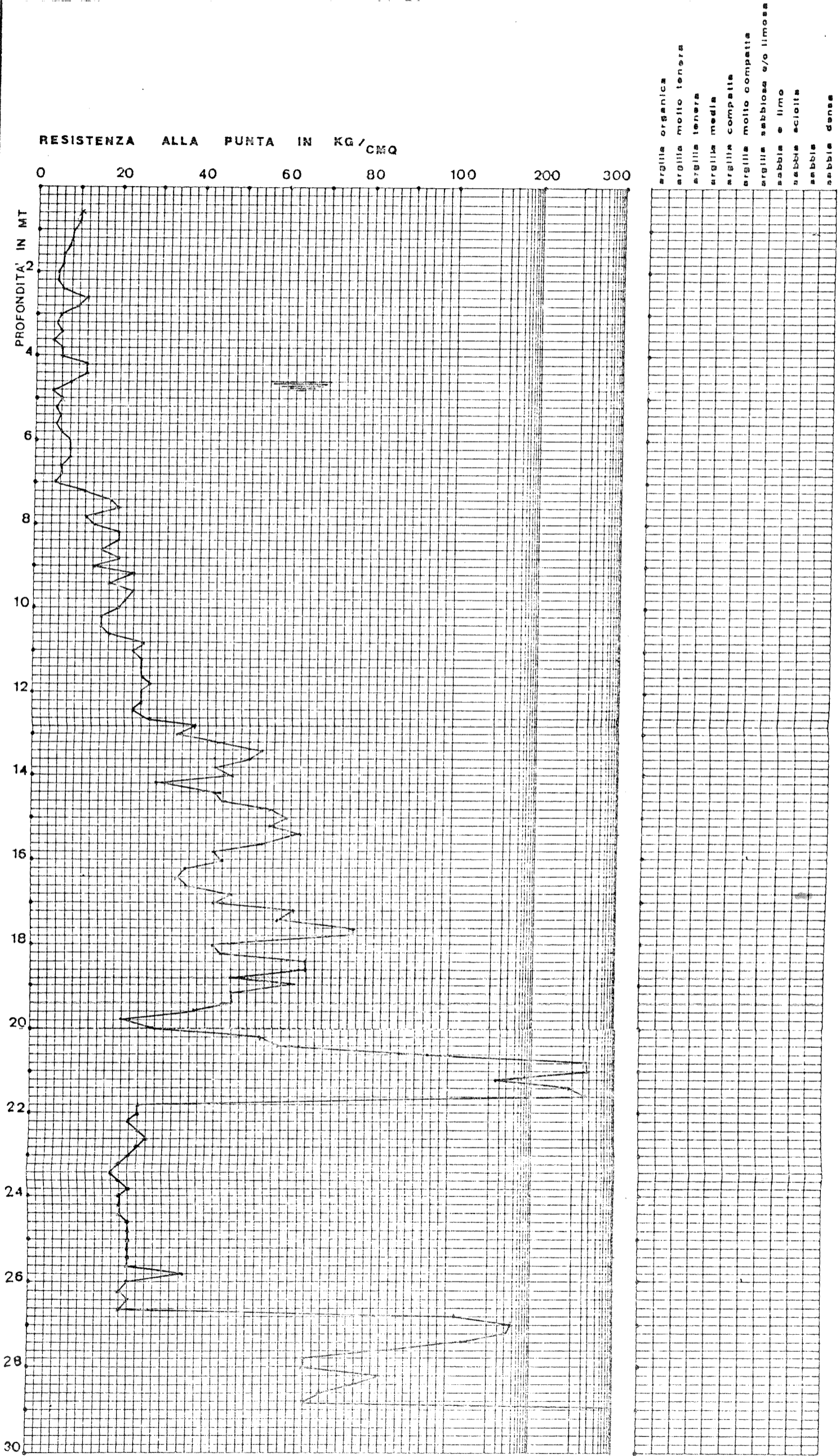
5

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
27.2	130	24.2	SABBIA E LIMO
27.4	103	7.2	SABBIA E LIMO
27.6	84	12.1	SABBIA E LIMO
27.8	66	8.4	SABBIA E LIMO
28	66	12.1	SABBIA E LIMO
28.2	84	4.8	SABBIA E LIMO
28.4	77	10.9	SABBIA E LIMO
28.6	70	13.3	SABBIA E LIMO
28.8	66	4.8	SABBIA E LIMO
29	376	36.4	SABBIA E LIMO
29.2	649	12.1	SABBIA E LIMO

RILIEVI TOPOGRAFICI E GEOLOGICI MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366



(penetrometro statico da 10t a punta meccanica con "friction jacket")

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
.6	10	2.6	SABBIA SCIOLTA
.8	10	4	ARGILLA MEDIA
1	7	3.3	ARGILLA MEDIA
1.2	7	4.6	ARGILLA ORG.E/O TERR.MISTI
1.4	5	3.3	ARGILLA ORG.E/O TERR.MISTI
1.6	5	3	ARGILLA ORG.E/O TERR.MISTI
1.8	4	1.3	ARGILLA SAB/LIMOSA
2	6	2.6	ARGILLA TENERA
2.2	5	2	ARGILLA TENERA
2.4	4	.6	SABBIA E LIMO
2.6	4	1.7	ARGILLA TENERA
2.8	4	2	ARGILLA TENERA
3	4	.9	SABBIA SCIOLTA
3.2	5	2	ARGILLA TENERA
3.4	4	2.4	ARGILLA ORG.E/O TERR.MISTI
3.6	5	1.7	ARGILLA SAB/LIMOSA
3.8	5	.6	SABBIA E LIMO
4	6	.6	SABBIA E LIMO

4.2	5	1.7	ARGILLA SAB/LIMOSA
4.4	5	1.6	ARGILLA SAB/LIMOSA
4.6	6	1.3	SABBIA SCIOLTA
4.8	5	2	ARGILLA TENERA
5	6	2	ARGILLA SAB/LIMOSA
5.2	6	4	ARGILLA ORG.E/O TERR.MISTI
5.4	6	4	ARGILLA ORG.E/O TERR.MISTI
5.6	6	3.3	ARGILLA ORG.E/O TERR.MISTI
5.8	5	2.9	ARGILLA ORG.E/O TERR.MISTI
6	5	1.7	ARGILLA SAB/LIMOSA
6.2	6	4	ARGILLA ORG.E/O TERR.MISTI
6.4	10	4	ARGILLA MEDIA
6.6	6	5.3	ARGILLA ORG.E/O TERR.MISTI
6.8	10	5.3	ARGILLA MEDIA
7	11	3.3	ARGILLA SAB/LIMOSA
7.2	14	8	ARGILLA MEDIA
7.4	18	4	SABBIA SCIOLTA
7.6	20	4	SABBIA
7.8	22	2.6	SABBIA E LIMO
8	24	4	SABBIA E LIMO
8.2	24	1.3	SABBIA E LIMO
8.4	37	1.2	SABBIA E LIMO
8.6	20	6.6	ARGILLA SAB/LIMOSA
8.8	20	2.6	SABBIA E LIMO
9	22	5.3	SABBIA

RILIEVI TOPOGRAFICI E GEOLOGICI MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

6

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
9.2	24	10.3	ARGILLA SAB/LIMOSA
9.4	24	12.7	ARGILLA COMPATTA
9.6	37	1.2	SABBIA E LIMO
9.8	26	10.1	ARGILLA SAB/LIMOSA
10	22	5.3	SABBIA
10.2	14	6.6	ARGILLA MEDIA
10.4	24	7.8	ARGILLA SAB/LIMOSA
10.6	30	5	SABBIA E LIMO
10.8	26	1.3	SABBIA E LIMO
11	26	1.3	SABBIA E LIMO
11.2	44	1.2	SABBIA E LIMO
11.4	43	2.4	SABBIA E LIMO
11.6	43	6	SABBIA E LIMO
11.8	44	1.2	SABBIA E LIMO
12	48	7.2	SABBIA E LIMO
12.2	52	9.7	SABBIA E LIMO
12.4	52	9.7	SABBIA E LIMO
12.6	61	3.6	SABBIA E LIMO
12.8	66	12.1	SABBIA E LIMO
13	70	7.2	SABBIA E LIMO
13.2	48	4.8	SABBIA E LIMO
13.4	66	9.7	SABBIA E LIMO
13.6	35	8.4	SABBIA
13.8	84	3.6	SABBIA E LIMO
14	46	2.4	SABBIA E LIMO
14.2	55	1.2	SABBIA E LIMO
14.4	44	14.5	ARGILLA SAB/LIMOSA
14.6	64	3.6	SABBIA E LIMO
14.8	74	6	SABBIA E LIMO
15	26	2.6	SABBIA E LIMO
15.2	10	8	ARGILLA ORG.E/O TERR.MISTI
15.4	5	2.9	ARGILLA ORG.E/O TERR.MISTI
15.6	7	.6	SABBIA E LIMO
15.8	6	4	ARGILLA ORG.E/O TERR.MISTI
16	8	4	ARGILLA MEDIA
16.2	14	5.3	ARGILLA SAB/LIMOSA
16.4	10	8	ARGILLA ORG.E/O TERR.MISTI
16.6	7	4.6	ARGILLA ORG.E/O TERR.MISTI
16.8	12	4	ARGILLA SAB/LIMOSA
17	8	9.3	ARGILLA MEDIA
17.2	10	5.3	ARGILLA MEDIA
17.4	8	9.3	ARGILLA MEDIA
17.6	11	4.6	ARGILLA MEDIA
17.8	12	12	ARGILLA MEDIA
18	30	12.3	ARGILLA SAB/LIMOSA

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

6

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
18.2	41	4.8	SABBIA E LIMO
18.4	30	12.3	ARGILLA SAB/LIMOSA
18.6	20	6.6	ARGILLA SAB/LIMOSA
18.8	99	9.7	SABBIA E LIMO
19	94	3.6	SABBIA E LIMO
19.2	99	9.7	SABBIA E LIMO
19.4	103	4.8	SABBIA E LIMO
19.6	81	2.4	SABBIA E LIMO
19.8	63	7.2	SABBIA E LIMO
20	48	2.4	SABBIA E LIMO
20.2	48	2.4	SABBIA E LIMO
20.4	41	3.6	SABBIA E LIMO
20.6	48	3.6	SABBIA E LIMO
20.8	66	1.2	SABBIA E LIMO
21	39	3.6	SABBIA E LIMO
21.2	66	9.7	SABBIA E LIMO
21.4	230	24.2	SABBIA E LIMO
21.6	81	2.4	SABBIA E LIMO
21.8	18	2.6	SABBIA E LIMO
22	14	8	ARGILLA MEDIA
22.2	14	8	ARGILLA MEDIA
22.4	24	9	ARGILLA SAB/LIMOSA
22.6	20	11.7	ARGILLA COMPATTA
22.8	37	4.8	SABBIA E LIMO
23	22	17.7	ARGILLA COMPATTA
23.2	20	14.1	ARGILLA COMPATTA
23.4	18	13	ARGILLA COMPATTA
23.6	18	13	ARGILLA COMPATTA
23.8	24	12.7	ARGILLA COMPATTA
24	20	11.7	ARGILLA COMPATTA
24.2	16	16.8	ARGILLA COMPATTA
24.4	22	9.2	ARGILLA SAB/LIMOSA
24.6	16	5.3	ARGILLA SAB/LIMOSA
24.8	18	8	ARGILLA SAB/LIMOSA
25	20	5.3	SABBIA
25.2	16	6.6	ARGILLA SAB/LIMOSA
25.4	14	4	SABBIA SCIOLTA
25.6	14	5.3	ARGILLA SAB/LIMOSA
25.8	24	11.5	ARGILLA SAB/LIMOSA
26	18	13	ARGILLA COMPATTA
26.2	18	13	ARGILLA COMPATTA
26.4	22	12.8	ARGILLA COMPATTA
26.6	20	14.1	ARGILLA COMPATTA
26.8	20	4	SABBIA
27	12	8	ARGILLA ORG.E/O TERR.MISTI

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366

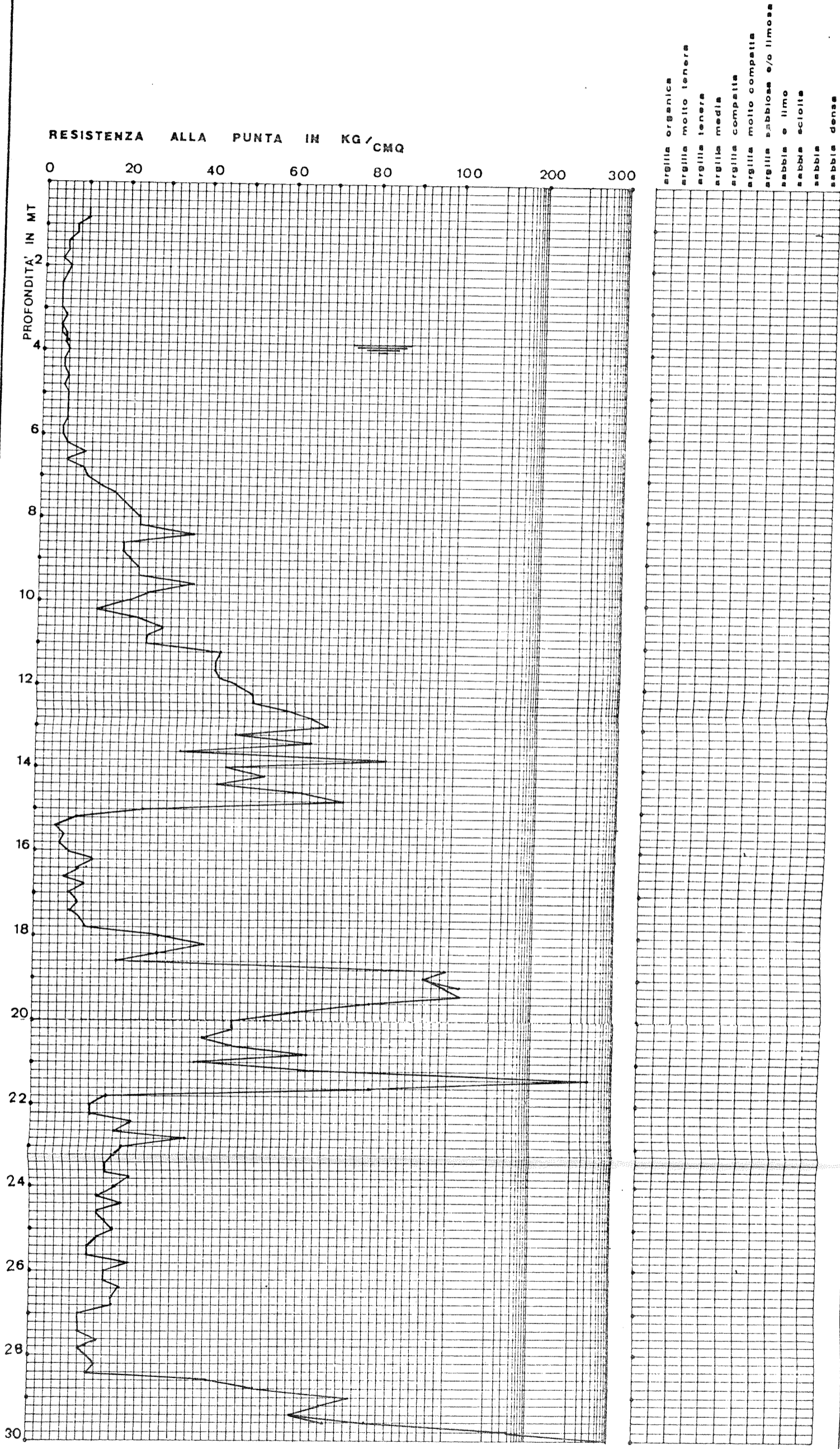
6

PROF. (MT)	RP (KG/CMQ)	RL (T/MQ)	LITOLOGIA
27.2	12	9.3	ARGILLA ORG.E/O TERR.MISTI
27.4	12	8	ARGILLA ORG.E/O TERR.MISTI
27.6	16	6.6	ARGILLA SAB/LIMOSA
27.8	12	21.9	ARGILLA SAB/LIMOSA
28	14	16.9	ARGILLA SAB/LIMOSA
28.2	16	9.3	ARGILLA COMPATTA
28.4	14	8	ARGILLA MEDIA
28.6	43	2.4	SABBIA E LIMO
28.8	54	15.7	SABBIA
29	77	7.2	SABBIA E LIMO
29.2	70	8.4	SABBIA E LIMO
29.4	63	9.7	SABBIA E LIMO
29.6	81	12.1	SABBIA E LIMO
29.8	139	12.1	SABBIA E LIMO
30	285	60.6	SABBIA DENSA

RILIEVI TOPOGRAFICI E GEOLOGICI
MAIOLI BARBIERI MODENA

C.so Canalgrande, 21 - MODENA - Tel. 210218

Part. I.V.A. 01475850366



(penetrometro statico da 10 t a punta meccanica con "friction jacket")

**PROVA PENETROMETRICA STATICA
LETTURE DI CAMPAGNA / VALORI DI RESISTENZA**

CPT 1

2.010496-059

- committente : Novi Lanfranco - Malagoli Ever
- lavoro : Ristrutturazione vecchio edificio ad uso abitazione
- località : Via Albone, 2 - Campogalliano (MO)
- note :

- data : 14/05/2012
- quota inizio : Piano Campagna
- prof. falda : 3,80 m da quota inizio
- pagina : 1

prf	LP	LL	Rp	RL	Rp/RI	prf	LP	LL	Rp	RL	Rp/RI
m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-	m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-
0,20	4,0	---	8,0	0,07	120,0	10,20	6,0	8,0	12,0	0,40	30,0
0,40	4,5	5,0	9,0	0,60	15,0	10,40	5,5	8,5	11,0	0,33	33,0
0,60	3,5	8,0	7,0	0,40	17,0	10,60	10,0	12,5	20,0	0,47	43,0
0,80	2,5	5,5	5,0	0,13	37,0	10,80	14,0	17,5	28,0	0,27	105,0
1,00	4,0	5,0	8,0	0,40	20,0	11,00	14,0	16,0	28,0	0,27	105,0
1,20	4,0	7,0	8,0	0,40	20,0	11,20	20,5	22,5	41,0	0,07	615,0
1,40	4,0	7,0	8,0	0,40	20,0	11,40	14,0	14,5	28,0	0,47	60,0
1,60	3,0	6,0	6,0	0,27	22,0	11,60	11,5	15,0	23,0	0,60	38,0
1,80	3,5	5,5	7,0	0,20	35,0	11,80	8,0	12,5	16,0	0,53	30,0
2,00	3,5	5,0	7,0	0,40	17,0	12,00	15,5	19,5	31,0	0,60	52,0
2,20	5,0	8,0	10,0	0,53	19,0	12,20	17,5	22,0	35,0	0,27	131,0
2,40	4,0	8,0	8,0	0,47	17,0	12,40	24,0	26,0	48,0	0,13	360,0
2,60	4,0	7,5	8,0	0,60	13,0	12,60	14,0	15,0	28,0	0,67	42,0
2,80	2,5	7,0	5,0	0,33	15,0	12,80	12,5	17,5	25,0	0,33	75,0
3,00	2,5	5,0	5,0	0,33	15,0	13,00	13,5	16,0	27,0	0,33	81,0
3,20	2,5	5,0	5,0	0,33	15,0	13,20	23,5	26,0	47,0	0,13	352,0
3,40	2,5	5,0	5,0	0,53	9,0	13,40	21,0	22,0	42,0	0,67	63,0
3,60	4,0	8,0	8,0	0,07	120,0	13,60	18,0	23,0	36,0	0,33	108,0
3,80	28,0	28,5	56,0	1,80	31,0	13,80	18,5	21,0	37,0	0,13	277,0
4,00	3,5	17,0	7,0	0,33	21,0	14,00	22,0	23,0	44,0	0,53	82,0
4,20	2,5	5,0	5,0	0,27	19,0	14,20	27,5	31,5	55,0	0,13	412,0
4,40	2,5	4,5	5,0	0,27	19,0	14,40	32,0	33,0	64,0	0,07	960,0
4,60	2,5	4,5	5,0	0,27	19,0	14,60	24,5	25,0	49,0	0,13	367,0
4,80	2,0	4,0	4,0	0,13	30,0	14,80	30,0	31,0	60,0	0,67	90,0
5,00	3,0	4,0	6,0	0,27	22,0	15,00	16,0	21,0	32,0	0,27	120,0
5,20	3,5	5,5	7,0	0,33	21,0	15,20	30,0	32,0	60,0	0,13	450,0
5,40	3,0	5,5	6,0	0,47	13,0	15,40	29,0	30,0	58,0	0,60	97,0
5,60	3,5	7,0	7,0	0,33	21,0	15,60	22,5	27,0	45,0	0,67	67,0
5,80	5,0	7,5	10,0	0,53	19,0	15,80	23,0	28,0	46,0	0,40	115,0
6,00	4,0	8,0	8,0	0,60	13,0	16,00	35,0	38,0	70,0	0,13	525,0
6,20	4,5	9,0	9,0	0,60	15,0	16,20	31,0	32,0	62,0	0,67	93,0
6,40	5,5	10,0	11,0	0,80	14,0	16,40	50,0	55,0	100,0	0,27	375,0
6,60	7,5	13,5	15,0	0,87	17,0	16,60	48,0	50,0	96,0	0,67	144,0
6,80	5,5	12,0	11,0	0,67	16,0	16,80	45,0	50,0	90,0	0,40	225,0
7,00	4,5	9,5	9,0	0,67	13,0	17,00	35,0	38,0	70,0	0,73	95,0
7,20	6,0	11,0	12,0	0,60	20,0	17,20	9,5	15,0	19,0	1,13	17,0
7,40	6,0	10,5	12,0	0,53	22,0	17,40	4,5	13,0	9,0	0,40	22,0
7,60	4,0	8,0	8,0	0,73	11,0	17,60	5,0	8,0	10,0	0,33	30,0
7,80	7,0	12,5	14,0	0,53	26,0	17,80	3,5	6,0	7,0	0,53	13,0
8,00	10,5	14,5	21,0	0,40	52,0	18,00	4,0	8,0	8,0	0,20	40,0
8,20	15,0	18,0	30,0	0,33	90,0	18,20	11,0	12,5	22,0	0,40	55,0
8,40	15,5	18,0	31,0	0,20	155,0	18,40	8,0	11,0	16,0	0,20	80,0
8,60	13,5	15,0	27,0	0,60	45,0	18,60	15,0	16,5	30,0	0,53	56,0
8,80	13,5	18,0	27,0	0,27	101,0	18,80	12,0	16,0	24,0	0,53	45,0
9,00	15,0	17,0	30,0	0,47	64,0	19,00	13,0	17,0	26,0	0,93	28,0
9,20	15,0	18,5	30,0	0,40	75,0	19,20	8,0	15,0	16,0	0,40	40,0
9,40	14,0	17,0	28,0	0,53	52,0	19,40	6,0	9,0	12,0	0,47	26,0
9,60	13,0	17,0	26,0	0,27	97,0	19,60	8,0	11,5	16,0	0,67	24,0
9,80	11,0	13,0	22,0	0,40	55,0	19,80	12,0	17,0	24,0	0,60	40,0
10,00	11,0	14,0	22,0	0,27	82,0	20,00	13,0	17,5	26,0	----	----

- PENETROMETRO STATICO tipo GOUDA da 10 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 20 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann $\phi = 35.7$ mm (area punta 10 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

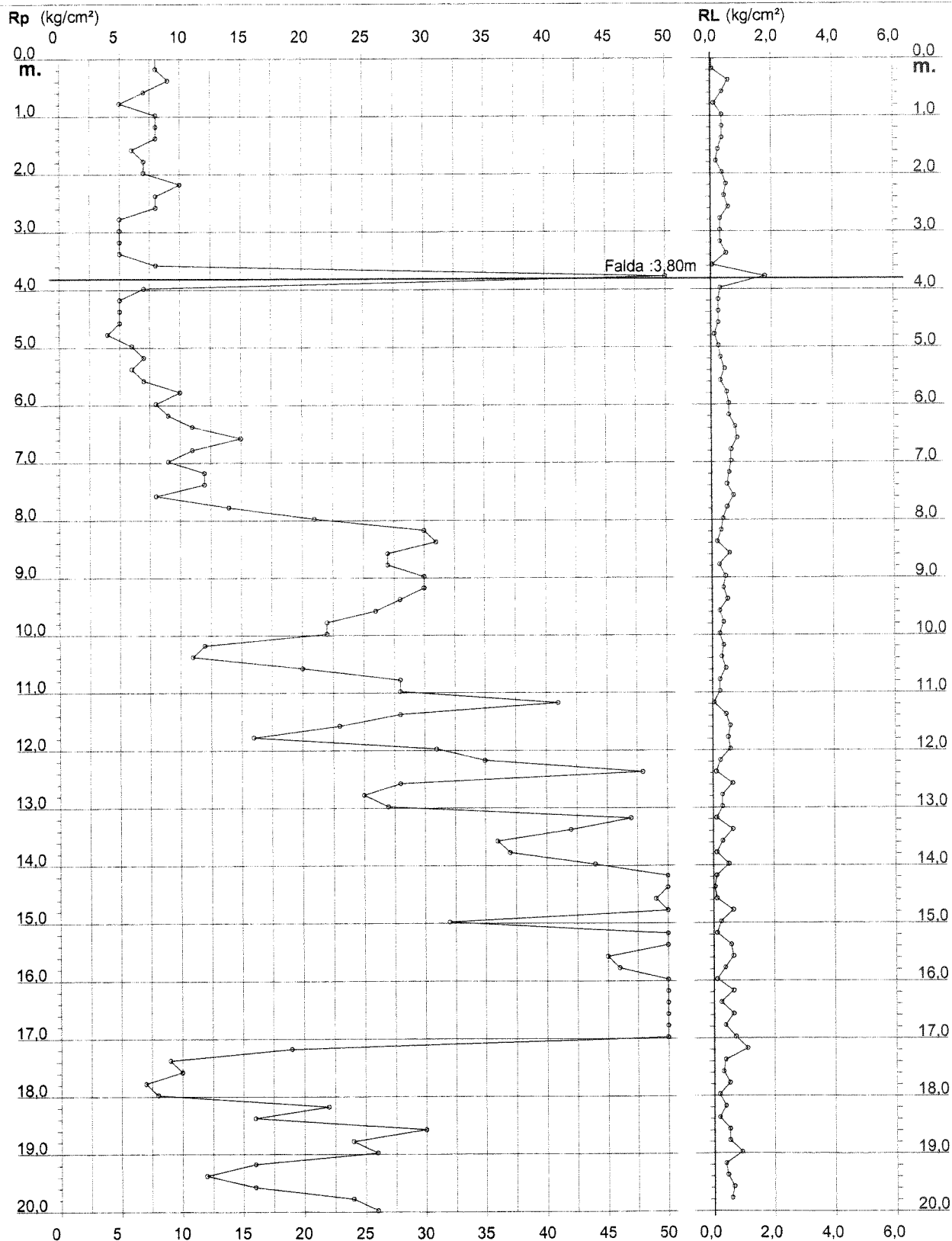
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 1

2.010496-059

- committente : Novi Lanfranco - Malagoli Ever
- lavoro : Ristrutturazione vecchio edificio ad uso abitazione
- località : Via Albone, 2 - Campogalliano (MO)

- data : 14/05/2012
- quota inizio : Piano Campagna
- prof. falda : 3,80 m da quota inizio
- scala vert.: 1 : 100

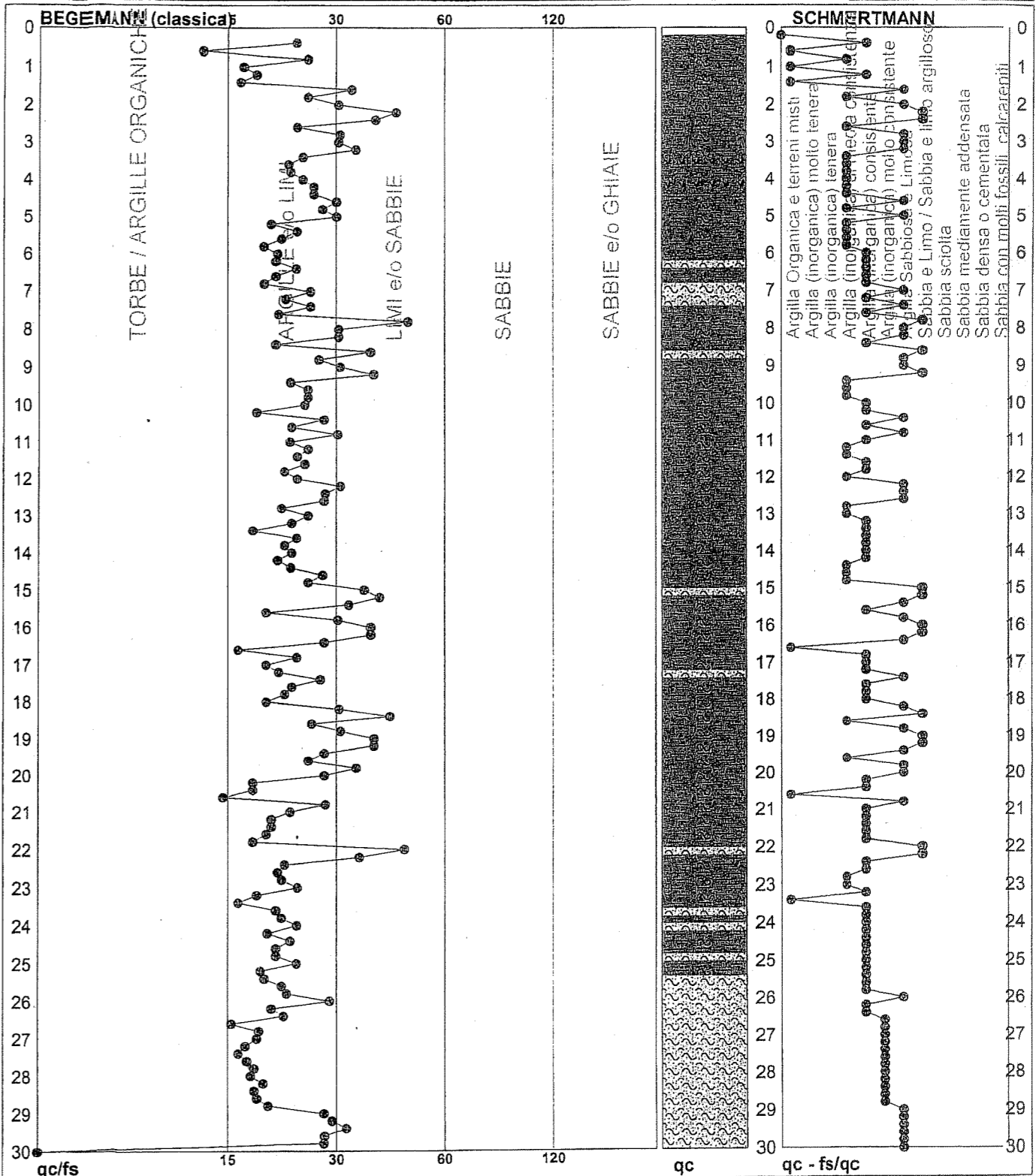


PROVA PENETROMETRICA STATICA MECCANICA
DIAGRAMMI LITOLOGIA

n°	1
riferimento	139-08

Committente: EDILSECCHIA SRL - RINALDI GUIDO
 Cantiere: CAMPOGALLIANO Via Bonaccini
 Località: CAMPOGALLIANO Via Bonaccini

U.M.: kg/cm²
 Scala: 1:150
 Pagina: 1
 Elaborato: Data exec.: 03/12/2008
 Preforo: m
 Falda: -3,50 m



Torbe / Argille organiche: 0 punti,	Argilla Organica e terreni misti: 6 punti,	Argilla Sabbiosa e Limosa: 34 punti,
Argille e/o Limi: 123 punti,	Argilla (inorganica) molto tenera: 0 punti,	Sabbia e Limo / Sabbia e limo argilloso: 0 punti,
Limi e/o Sabbie: 23 punti,	Argilla (inorganica) tenera: 0 punti,	Sabbia sciolta: 0 punti,
Sabbie: 0 punti,	Argilla (inorganica) media consistente: 22 punti,	Sabbia mediamente addensata: 0 punti,
Sabbie e/o Ghiaie: 0 punti,	Argilla (inorganica) consistente: 53 punti,	Sabbia densa o cementata: 0 punti,
	Argilla (inorganica) molto consistente: 2 punti,	Sabbia con molti fossili, calcareniti: 0 punti,

**PROVA PENETROMETRICA STATICA
LETTURE DI CAMPAGNA / VALORI DI RESISTENZA**

CPT 2

3.010496-117

- committente: Dr. Geologo Nicola Bombonato
- lavoro: Nuovo complesso residenziale
- località: Campogalliano (MO)
- resp. cantiere: Nome Responsabile
- assist. cantiere: Nome Assistente

- data prova : 25/05/2011
- quota inizio : Piano Campagna
- prof. falda : 2.10 m da quota inizio

- data emiss. : 30/05/2011
- pagina n°:

prf	LP	LL	Rp	RL	Rp/RI	prf	LP	LL	Rp	RL	Rp/RI
m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-	m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-
0.20	42.0	54.0	42.0	2.00	21.0	5.80	13.0	27.0	13.0	0.67	19.0
0.40	74.0	104.0	74.0	2.80	26.0	6.00	19.0	29.0	19.0	1.00	19.0
0.60	46.0	88.0	46.0	2.27	20.0	6.20	17.0	32.0	17.0	1.07	16.0
0.80	23.0	57.0	23.0	1.67	14.0	6.40	16.0	32.0	16.0	0.87	18.0
1.00	9.0	34.0	9.0	0.73	12.0	6.60	19.0	32.0	19.0	1.07	18.0
1.20	10.0	21.0	10.0	0.47	21.0	6.80	14.0	30.0	14.0	1.00	14.0
1.40	9.0	16.0	9.0	0.53	17.0	7.00	10.0	25.0	10.0	0.73	14.0
1.60	10.0	18.0	10.0	0.60	17.0	7.20	13.0	24.0	13.0	0.80	16.0
1.80	11.0	20.0	11.0	0.53	21.0	7.40	17.0	29.0	17.0	1.07	16.0
2.00	12.0	20.0	12.0	0.60	20.0	7.60	15.0	31.0	15.0	1.07	14.0
2.20	11.0	20.0	11.0	0.53	21.0	7.80	15.0	31.0	15.0	1.13	13.0
2.40	13.0	21.0	13.0	0.87	15.0	8.00	13.0	30.0	13.0	0.73	18.0
2.60	12.0	25.0	12.0	0.73	16.0	8.20	12.0	23.0	12.0	0.80	15.0
2.80	9.0	20.0	9.0	0.60	15.0	8.40	15.0	27.0	15.0	0.93	16.0
3.00	13.0	22.0	13.0	0.60	22.0	8.60	19.0	33.0	19.0	1.40	14.0
3.20	7.0	16.0	7.0	0.40	17.0	8.80	19.0	40.0	19.0	1.33	14.0
3.40	6.0	12.0	6.0	0.47	13.0	9.00	20.0	40.0	20.0	1.33	15.0
3.60	5.0	12.0	5.0	0.47	11.0	9.20	17.0	37.0	17.0	0.67	25.0
3.80	6.0	13.0	6.0	0.40	15.0	9.40	20.0	30.0	20.0	0.93	21.0
4.00	7.0	13.0	7.0	0.53	13.0	9.60	15.0	29.0	15.0	1.00	15.0
4.20	11.0	19.0	11.0	0.73	15.0	9.80	13.0	28.0	13.0	1.20	11.0
4.40	10.0	21.0	10.0	0.73	14.0	10.00	15.0	33.0	15.0	0.93	16.0
4.60	11.0	22.0	11.0	0.67	16.0	10.20	14.0	28.0	14.0	0.87	16.0
4.80	17.0	27.0	17.0	1.00	17.0	10.40	14.0	27.0	14.0	0.87	16.0
5.00	11.0	26.0	11.0	0.87	13.0	10.60	15.0	28.0	15.0	1.13	13.0
5.20	15.0	28.0	15.0	0.93	16.0	10.80	17.0	34.0	17.0	1.27	13.0
5.40	20.0	34.0	20.0	1.13	18.0	11.00	14.0	33.0	14.0	----	----
5.60	16.0	33.0	16.0	0.93	17.0						

- PENETROMETRO STATICO tipo TG63-200 PAGANI SEMOVENTE da 10 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 10 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann $\varnothing = 35.7$ mm (area punta 10 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

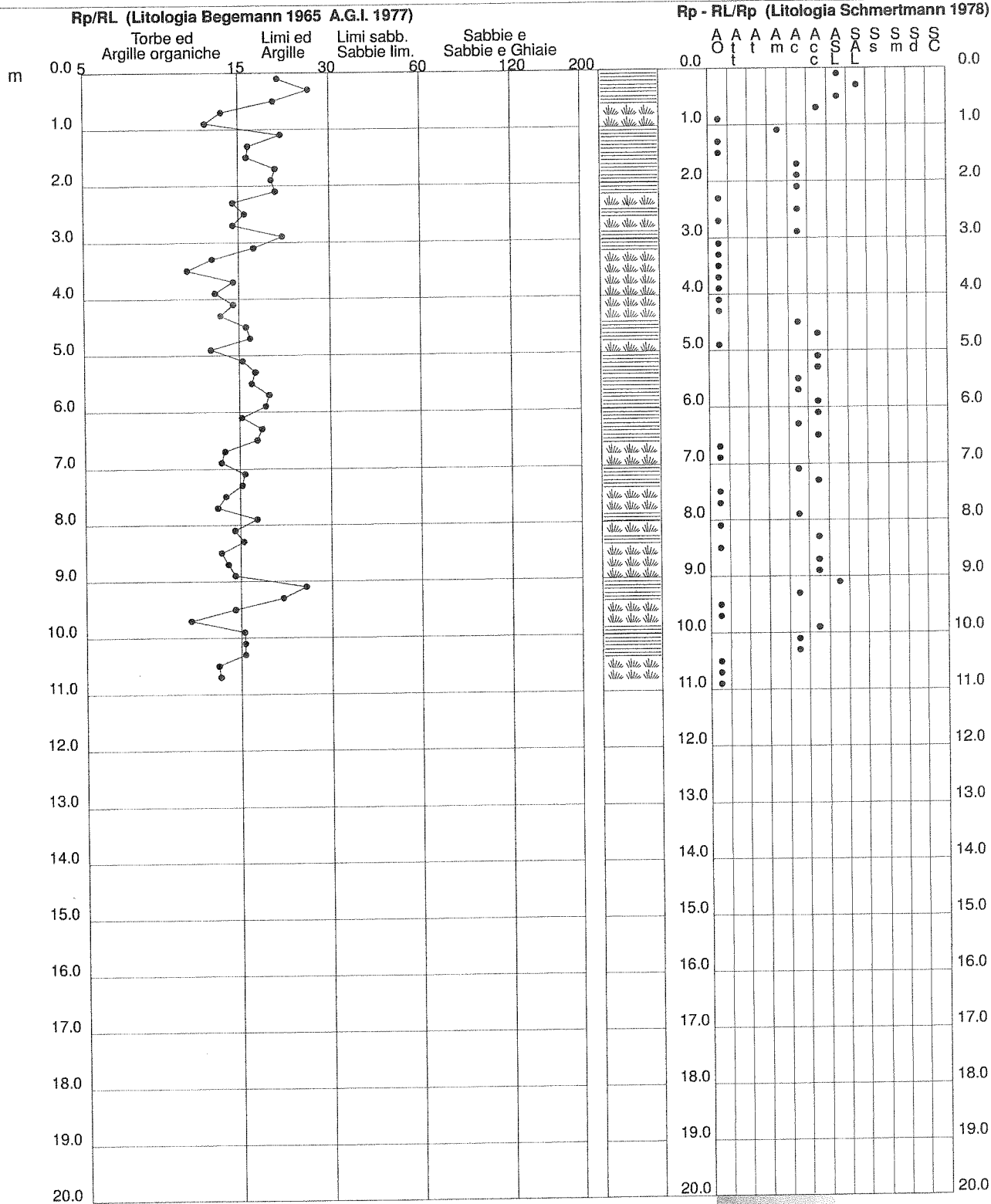
PROVA PENETROMETRICA STATICA VALUTAZIONI LITOLOGICHE

CPT 2

3.010496-117

- committente: Dr. Geologo Nicola Bombonato
 - lavoro: Nuovo complesso residenziale
 - località: Campogalliano (MO)
 - resp. cantiere: Nome Responsabile
 - assist. cantiere: Nome Assistente

- data prova : 25/05/2011
 - quota inizio : Piano Campagna
 - prof. falda : 2.10 m da quota inizio
 - scala vert.: 1 : 100
 - data emiss. : 30/05/2011
 - pagina n°:



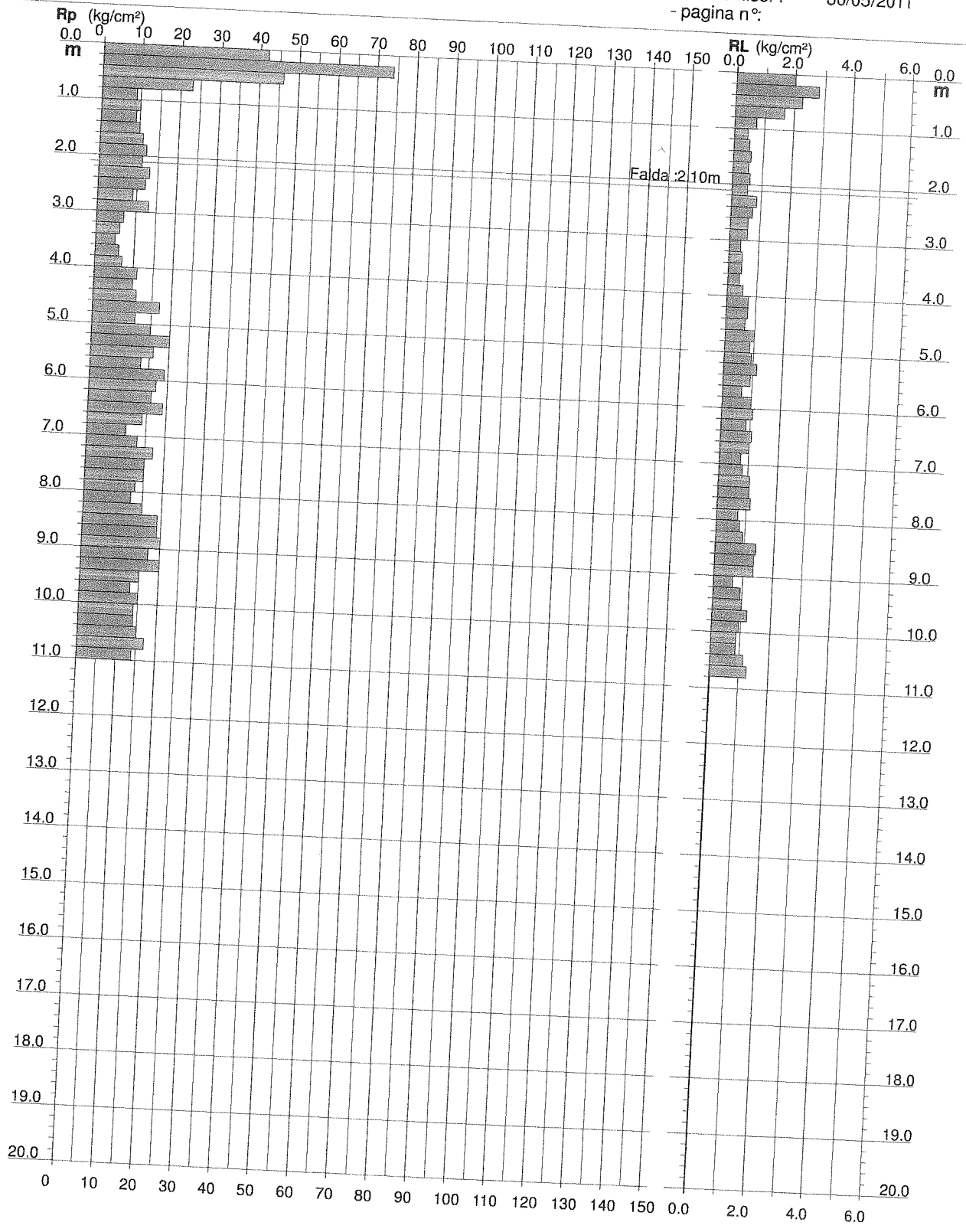
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 2

3.010496-117

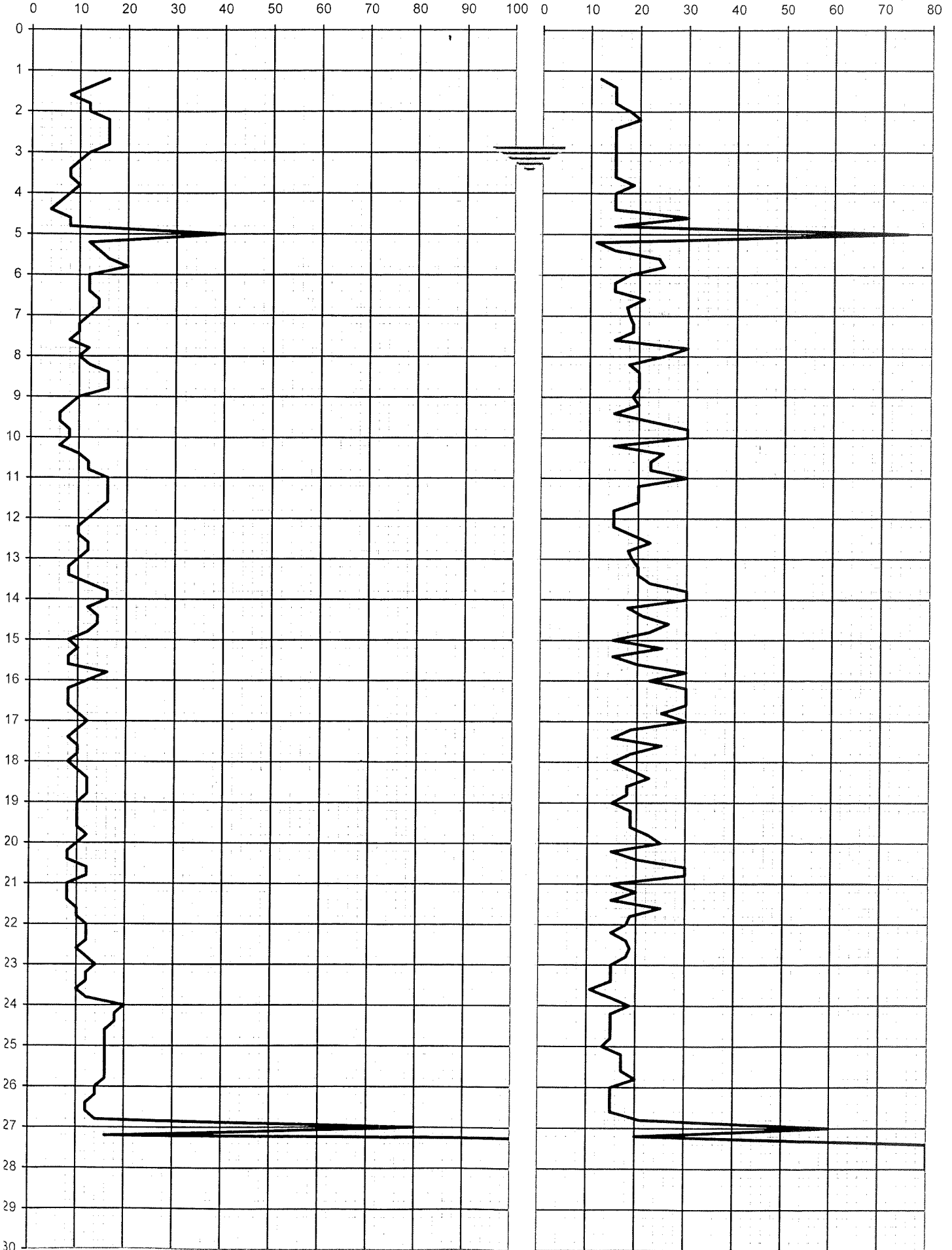
- committente: Dr. Geologo Nicola Bombonato
- lavoro: Nuovo complesso residenziale
- località: Campogalliano (MO)
- resp. cantiere: Nome Responsabile
- assist. cantiere: Nome Assistente

- data prova : 25/05/2011
- quota inizio : Piano Campagna
- prof. falda : 2.10 m da quota inizio
- scala vert.: 1 : 100
- data emiss. : 30/05/2011
- pagina n°:



Resistenza alla punta Rp (kg/cm²)

Rp/Rl



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0,20					
0,40					
0,60					
0,80					
1,00					
1,20	16	36	16	1,33	12,00
1,40	12	24	12	0,80	15,00
1,60	8	16	8	0,53	15,00
1,80	12	24	12	0,80	15,00
2,00	12	22	12	0,67	18,00
2,20	16	28	16	0,80	20,00
2,40	16	32	16	1,07	15,00
2,60	16	32	16	1,07	15,00
2,80	16	32	16	1,07	15,00
3,00	12	24	12	0,80	15,00
3,20	10	20	10	0,67	15,00
3,40	8	16	8	0,53	15,00
3,60	8	16	8	0,53	15,00
3,80	10	18	10	0,53	18,75
4,00	8	16	8	0,53	15,00
4,20	6	12	6	0,40	15,00
4,40	4	8	4	0,27	15,00
4,60	8	12	8	0,27	30,00
4,80	8	16	8	0,53	15,00
5,00	40	48	40	0,53	75,00
5,20	12	28	12	1,07	11,25
5,40	14	28	14	0,93	15,00
5,60	16	26	16	0,67	24,00
5,80	20	32	20	0,80	25,00
6,00	12	22	12	0,67	18,00
6,20	12	24	12	0,80	15,00
6,40	12	24	12	0,80	15,00
6,60	14	24	14	0,67	21,00
6,80	14	26	14	0,80	17,50
7,00	12	22	12	0,67	18,00
7,20	10	18	10	0,53	18,75
7,40	10	18	10	0,53	18,75
7,60	8	16	8	0,53	15,00
7,80	12	18	12	0,40	30,00
8,00	10	16	10	0,40	25,00
8,20	12	22	12	0,67	18,00
8,40	16	28	16	0,80	20,00
8,60	16	28	16	0,80	20,00
8,80	16	28	16	0,80	20,00
9,00	10	18	10	0,53	18,75
9,20	8	14	8	0,40	20,00
9,40	6	12	6	0,40	15,00
9,60	6	10	6	0,27	22,50
9,80	8	12	8	0,27	30,00
10,00	8	12	8	0,27	30,00
10,20	6	12	6	0,40	15,00
10,40	10	16	10	0,40	25,00
10,60	12	20	12	0,53	22,50
10,80	12	20	12	0,53	22,50
11,00	16	24	16	0,53	30,00
11,20	16	28	16	0,80	20,00
11,40	16	28	16	0,80	20,00
11,60	16	28	16	0,80	20,00
11,80	14	28	14	0,93	15,00
12,00	12	24	12	0,80	15,00
12,20	10	20	10	0,67	15,00
12,40	10	18	10	0,53	18,75
12,60	12	20	12	0,53	22,50
12,80	12	22	12	0,67	18,00
13,00	10	18	10	0,53	18,75
13,20	8	14	8	0,40	20,00
13,40	8	14	8	0,40	20,00
13,60	12	20	12	0,53	22,50
13,80	16	24	16	0,53	30,00
14,00	16	24	16	0,53	30,00
14,20	12	22	12	0,67	18,00
14,40	14	24	14	0,67	21,00
14,60	14	22	14	0,53	26,25
14,80	12	20	12	0,53	22,50
15,00	8	16	8	0,53	15,00

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15,20	10	16	10	0,40	25,00
15,40	8	16	8	0,53	15,00
15,60	8	14	8	0,40	20,00
15,80	16	24	16	0,53	30,00
16,00	12	20	12	0,53	22,50
16,20	8	12	8	0,27	30,00
16,40	8	12	8	0,27	30,00
16,60	8	12	8	0,27	30,00
16,80	10	16	10	0,40	25,00
17,00	12	18	12	0,40	30,00
17,20	10	18	10	0,53	18,75
17,40	8	16	8	0,53	15,00
17,60	10	16	10	0,40	25,00
17,80	10	18	10	0,53	18,75
18,00	8	16	8	0,53	15,00
18,20	10	18	10	0,53	18,75
18,40	12	20	12	0,53	22,50
18,60	12	22	12	0,67	18,00
18,80	12	22	12	0,67	18,00
19,00	10	20	10	0,67	15,00
19,20	10	18	10	0,53	18,75
19,40	10	18	10	0,53	18,75
19,60	10	18	10	0,53	18,75
19,80	12	20	12	0,53	22,50
20,00	10	16	10	0,40	25,00
20,20	8	16	8	0,53	15,00
20,40	8	14	8	0,40	20,00
20,60	12	18	12	0,40	30,00
20,80	12	18	12	0,40	30,00
21,00	8	16	8	0,53	15,00
21,20	8	14	8	0,40	20,00
21,40	8	16	8	0,53	15,00
21,60	10	16	10	0,40	25,00
21,80	10	18	10	0,53	18,75
22,00	12	22	12	0,67	18,00
22,20	12	24	12	0,80	15,00
22,40	12	22	12	0,67	18,00
22,60	10	18	10	0,53	18,75
22,80	12	22	12	0,67	18,00
23,00	14	28	14	0,93	15,00
23,20	12	24	12	0,80	15,00
23,40	12	24	12	0,80	15,00
23,60	10	24	10	0,93	10,71
23,80	12	24	12	0,80	15,00
24,00	20	36	20	1,07	18,75
24,20	18	36	18	1,20	15,00
24,40	18	36	18	1,20	15,00
24,60	16	32	16	1,07	15,00
24,80	16	32	16	1,07	15,00
25,00	16	34	16	1,20	13,33
25,20	16	30	16	0,93	17,14
25,40	16	30	16	0,93	17,14
25,60	16	30	16	0,93	17,14
25,80	16	28	16	0,80	20,00
26,00	14	28	14	0,93	15,00
26,20	14	28	14	0,93	15,00
26,40	12	24	12	0,80	15,00
26,60	12	24	12	0,80	15,00
26,80	14	24	14	0,67	21,00
27,00	80	100	80	1,33	60,00
27,20	16	28	16	0,80	20,00
27,40	300		300		
27,60	400		400		
27,80	400		400		
28,00	500		500		
28,20					
28,40					
28,60					
28,80					
29,00					
29,20					
29,40					
29,60					
29,80					
30,00					

CPT118



Via AUSTRIA, 24 - 41100 MODENA



Prova n°: 1

Quota: P.C.

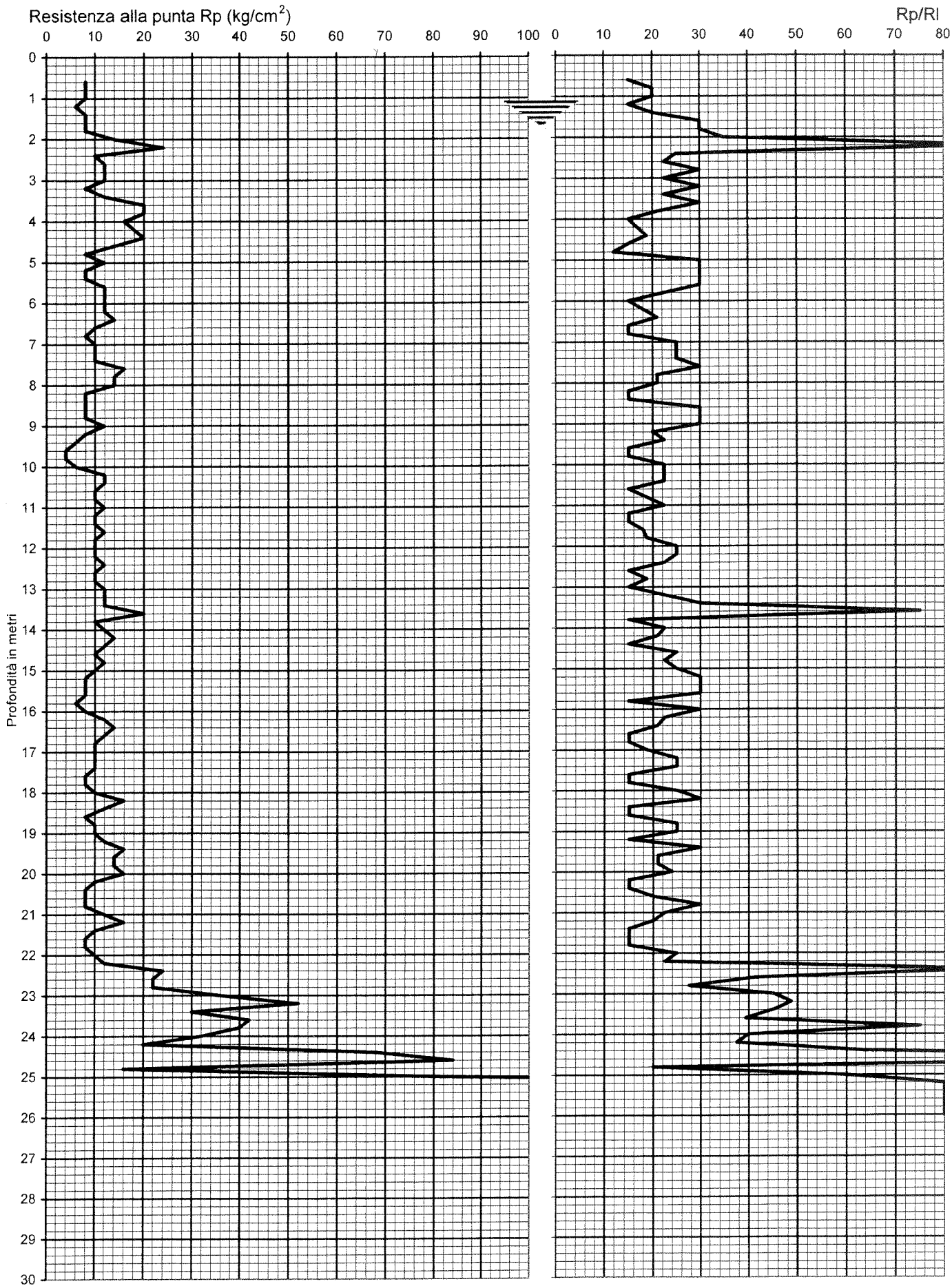
Data: 18/05/2010

Località: CASERMA CARABINIERI-CAMPOGALLIANO-MO

Committ.: C/O DOTT. VACCARI ANNA

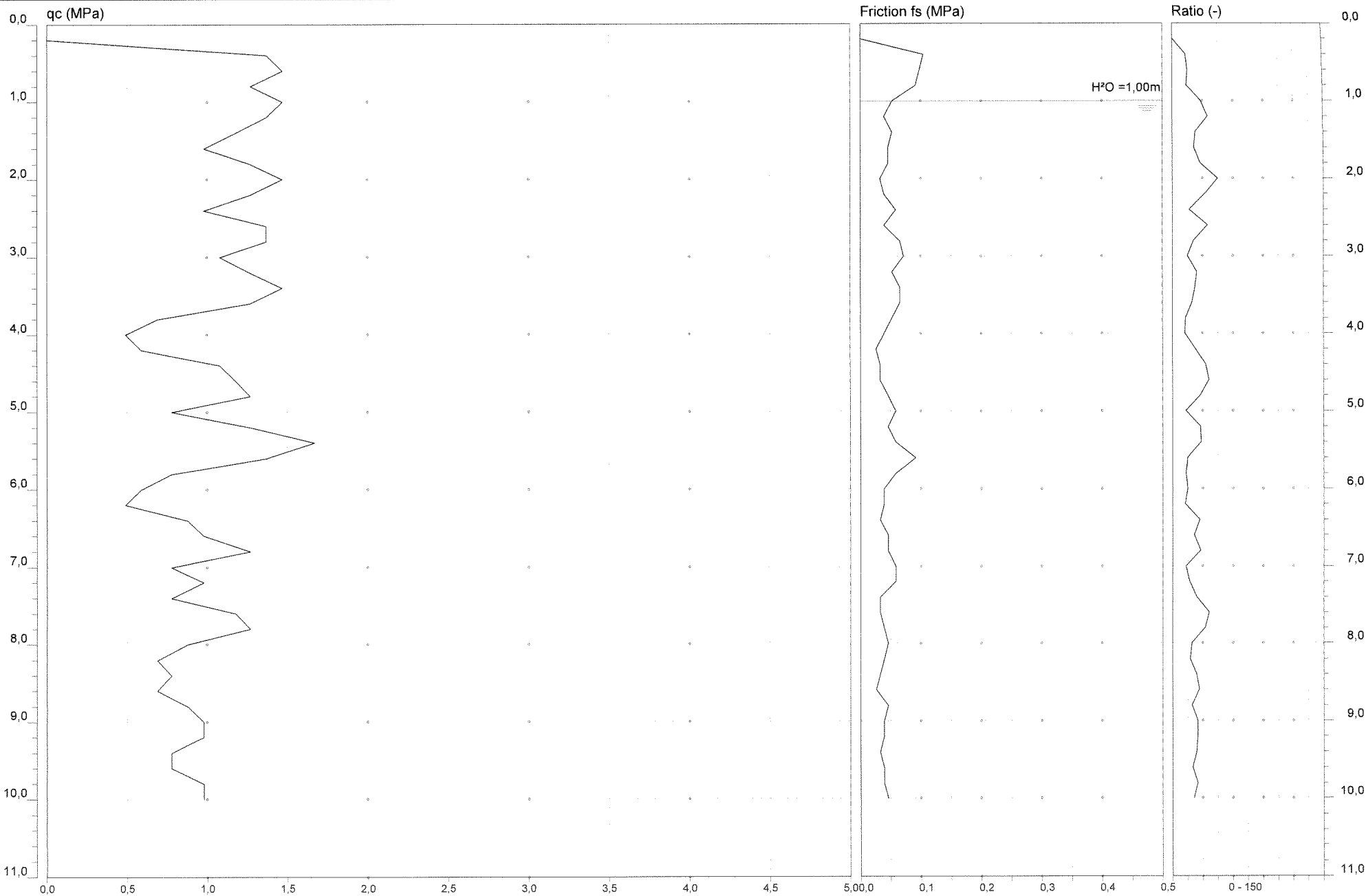
Certificato: 617/10

Data emissione: 18/05/10



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0,20					
0,40					
0,60	8	16	8	0,53	15,00
0,80	8	14	8	0,40	20,00
1,00	8	14	8	0,40	20,00
1,20	6	12	6	0,40	15,00
1,40	8	14	8	0,40	20,00
1,60	8	12	8	0,27	30,00
1,80	8	12	8	0,27	30,00
2,00	14	20	14	0,40	35,00
2,20	24	28	24	0,27	90,00
2,40	10	16	10	0,40	25,00
2,60	12	20	12	0,53	22,50
2,80	12	18	12	0,40	30,00
3,00	12	20	12	0,53	22,50
3,20	8	12	8	0,27	30,00
3,40	12	20	12	0,53	22,50
3,60	20	30	20	0,67	30,00
3,80	20	34	20	0,93	21,43
4,00	16	32	16	1,07	15,00
4,20	18	34	18	1,07	16,88
4,40	20	36	20	1,07	18,75
4,60	14	28	14	0,93	15,00
4,80	8	18	8	0,67	12,00
5,00	12	18	12	0,40	30,00
5,20	8	12	8	0,27	30,00
5,40	8	12	8	0,27	30,00
5,60	12	18	12	0,40	30,00
5,80	12	20	12	0,53	22,50
6,00	12	24	12	0,80	15,00
6,20	12	22	12	0,67	18,00
6,40	14	24	14	0,67	21,00
6,60	10	20	10	0,67	15,00
6,80	8	16	8	0,53	15,00
7,00	10	16	10	0,40	25,00
7,20	10	16	10	0,40	25,00
7,40	10	16	10	0,40	25,00
7,60	16	24	16	0,53	30,00
7,80	14	24	14	0,67	21,00
8,00	14	24	14	0,67	21,00
8,20	8	16	8	0,53	15,00
8,40	8	16	8	0,53	15,00
8,60	8	12	8	0,27	30,00
8,80	8	12	8	0,27	30,00
9,00	12	18	12	0,40	30,00
9,20	8	14	8	0,40	20,00
9,40	6	10	6	0,27	22,50
9,60	4	8	4	0,27	15,00
9,80	4	8	4	0,27	15,00
10,00	6	10	6	0,27	22,50
10,20	12	20	12	0,53	22,50
10,40	12	20	12	0,53	22,50
10,60	10	20	10	0,67	15,00
10,80	10	18	10	0,53	18,75
11,00	12	20	12	0,53	22,50
11,20	10	20	10	0,67	15,00
11,40	10	20	10	0,67	15,00
11,60	12	22	12	0,67	18,00
11,80	10	18	10	0,53	18,75
12,00	10	16	10	0,40	25,00
12,20	10	16	10	0,40	25,00
12,40	12	20	12	0,53	22,50
12,60	10	20	10	0,67	15,00
12,80	10	18	10	0,53	18,75
13,00	12	24	12	0,80	15,00
13,20	12	20	12	0,53	22,50
13,40	12	18	12	0,40	30,00
13,60	20	24	20	0,27	75,00
13,80	10	20	10	0,67	15,00
14,00	12	20	12	0,53	22,50
14,20	14	24	14	0,67	21,00
14,40	12	24	12	0,80	15,00
14,60	10	16	10	0,40	25,00
14,80	12	20	12	0,53	22,50
15,00	10	16	10	0,40	25,00

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15,20	8	12	8	0,27	30,00
15,40	8	12	8	0,27	30,00
15,60	8	12	8	0,27	30,00
15,80	6	12	6	0,40	15,00
16,00	8	12	8	0,27	30,00
16,20	12	20	12	0,53	22,50
16,40	14	24	14	0,67	21,00
16,60	12	24	12	0,80	15,00
16,80	10	20	10	0,67	15,00
17,00	10	18	10	0,53	18,75
17,20	10	16	10	0,40	25,00
17,40	10	16	10	0,40	25,00
17,60	8	16	8	0,53	15,00
17,80	8	16	8	0,53	15,00
18,00	10	16	10	0,40	25,00
18,20	16	24	16	0,53	30,00
18,40	12	24	12	0,80	15,00
18,60	8	16	8	0,53	15,00
18,80	10	16	10	0,40	25,00
19,00	10	16	10	0,40	25,00
19,20	12	24	12	0,80	15,00
19,40	16	24	16	0,53	30,00
19,60	14	24	14	0,67	21,00
19,80	14	24	14	0,67	21,00
20,00	16	26	16	0,67	24,00
20,20	10	20	10	0,67	15,00
20,40	8	16	8	0,53	15,00
20,60	8	14	8	0,40	20,00
20,80	8	12	8	0,27	30,00
21,00	12	20	12	0,53	22,50
21,20	16	28	16	0,80	20,00
21,40	10	20	10	0,67	15,00
21,60	8	16	8	0,53	15,00
21,80	8	16	8	0,53	15,00
22,00	10	16	10	0,40	25,00
22,20	12	20	12	0,53	22,50
22,40	24	28	24	0,27	90,00
22,60	22	30	22	0,53	41,25
22,80	22	34	22	0,80	27,50
23,00	36	48	36	0,80	45,00
23,20	52	68	52	1,07	48,75
23,40	30	40	30	0,67	45,00
23,60	42	58	42	1,07	39,38
23,80	40	48	40	0,53	75,00
24,00	32	44	32	0,80	40,00
24,20	20	28	20	0,53	37,50
24,40	68	84	68	1,07	63,75
24,60	84	92	84	0,53	157,50
24,80	16	28	16	0,80	20,00
25,00	80	100	80	1,33	60,00
25,20	180		180		
25,40	300		300		
25,60	400		400		
25,80	400		400		
26,00	400		400		
26,20					
26,40					
26,60					
26,80					
27,00					
27,20					
27,40					
27,60					
27,80					
28,00					
28,20					
28,40					
28,60					
28,80					
29,00					
29,20					
29,40					
29,60					
29,80					
30,00					



10,000 m

Sperimentatore: Dott. Geol. PAOLO CESTARI

Direttore Laboratorio: Dott. Geol. RITA BALLISTA

PROVA PENETROMETRICA STATICA MECCANICA

LETTURE CAMPAGNA: PUNTA, LATERALE, TOTALE

n°	2
riferimento	061-10

Committente: **QUADRIFOGLIO Srl**
 Cantiere: **CAMPOGALLIANO Via Paganini**
 Località: **CAMPOGALLIANO Via Paganini**

U.M.: **kg/cm²** Data eseg.: **17/05/2010**
 Pagina: **1** Preforo: **m**
 Elaborato: Falda: **-1,00 m** **1.00**

H	L1	L2	Lt	qc	fs	F	Fr	H	L1	L2	Lt	qc	fs	F	Fr
m	-	-	-	kg/cm ²	kg/cm ²	-	%	m	-	-	-	kg/cm ²	kg/cm ²	-	%
0,20	0,0	0,0		0,0	1,07	0									
0,40	14,0	30,0		14,0	1,00	14	7,1								
0,60	15,0	30,0		15,0	0,93	16	6,2								
0,80	13,0	27,0		13,0	0,53	25	4,1								
1,00	15,0	23,0		15,0	0,40	38	2,7								
1,20	14,0	20,0		14,0	0,53	26	3,8								
1,40	12,0	20,0		12,0	0,47	26	3,9								
1,60	10,0	17,0		10,0	0,47	21	4,7								
1,80	13,0	20,0		13,0	0,33	39	2,5								
2,00	15,0	20,0		15,0	0,40	38	2,7								
2,20	13,0	19,0		13,0	0,60	22	4,6								
2,40	10,0	19,0		10,0	0,40	25	4,0								
2,60	14,0	20,0		14,0	0,67	21	4,8								
2,80	14,0	24,0		14,0	0,73	19	5,2								
3,00	11,0	22,0		11,0	0,53	21	4,8								
3,20	13,0	21,0		13,0	0,67	19	5,2								
3,40	15,0	25,0		15,0	0,67	22	4,5								
3,60	13,0	23,0		13,0	0,53	25	4,1								
3,80	7,0	15,0		7,0	0,40	18	5,7								
4,00	5,0	11,0		5,0	0,27	19	5,4								
4,20	6,0	10,0		6,0	0,33	18	5,5								
4,40	11,0	16,0		11,0	0,33	33	3,0								
4,60	12,0	17,0		12,0	0,47	26	3,9								
4,80	13,0	20,0		13,0	0,60	22	4,6								
5,00	8,0	17,0		8,0	0,47	17	5,9								
5,20	13,0	20,0		13,0	0,60	22	4,6								
5,40	17,0	26,0		17,0	0,93	18	5,5								
5,60	14,0	28,0		14,0	0,60	23	4,3								
5,80	8,0	17,0		8,0	0,40	20	5,0								
6,00	6,0	12,0		6,0	0,40	15	6,7								
6,20	5,0	11,0		5,0	0,33	15	6,6								
6,40	9,0	14,0		9,0	0,47	19	5,2								
6,60	10,0	17,0		10,0	0,47	21	4,7								
6,80	13,0	20,0		13,0	0,60	22	4,6								
7,00	8,0	17,0		8,0	0,60	13	7,5								
7,20	10,0	19,0		10,0	0,33	30	3,3								
7,40	8,0	13,0		8,0	0,33	24	4,1								
7,60	12,0	17,0		12,0	0,40	30	3,3								
7,80	13,0	19,0		13,0	0,47	28	3,6								
8,00	9,0	16,0		9,0	0,40	23	4,4								
8,20	7,0	13,0		7,0	0,33	21	4,7								
8,40	8,0	13,0		8,0	0,27	30	3,4								
8,60	7,0	11,0		7,0	0,47	15	6,7								
8,80	9,0	16,0		9,0	0,40	23	4,4								
9,00	10,0	16,0		10,0	0,40	25	4,0								
9,20	10,0	16,0		10,0	0,33	30	3,3								
9,40	8,0	13,0		8,0	0,40	20	5,0								
9,60	8,0	14,0		8,0	0,40	20	5,0								
9,80	10,0	16,0		10,0	0,47	21	4,7								
10,00	10,0	17,0		10,0											

H = profondità
 L1 = prima lettura (punta)
 L2 = seconda lettura (punta + laterale)
 Lt = terza lettura (totale)
 CT = 10,00 costante di trasformazione

qc = resistenza di punta
 fs = resistenza laterale calcolata
 0.20 m sopra quota di qc
 F = rapporto di Begemann (qc / fs)
 Fr = rapporto di Schmertmann (fs / qc)%



intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 1 quota P.C.

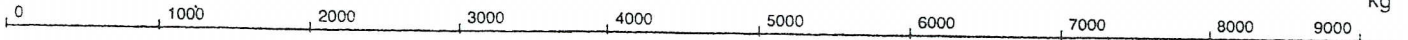
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 02/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

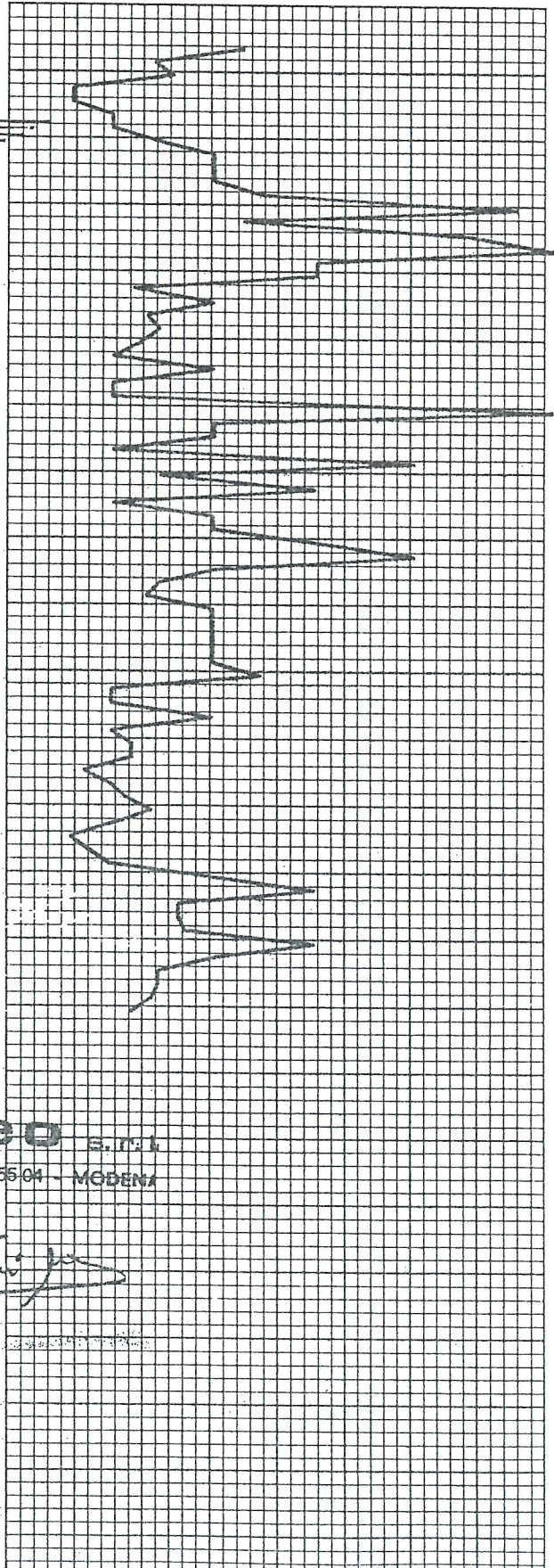
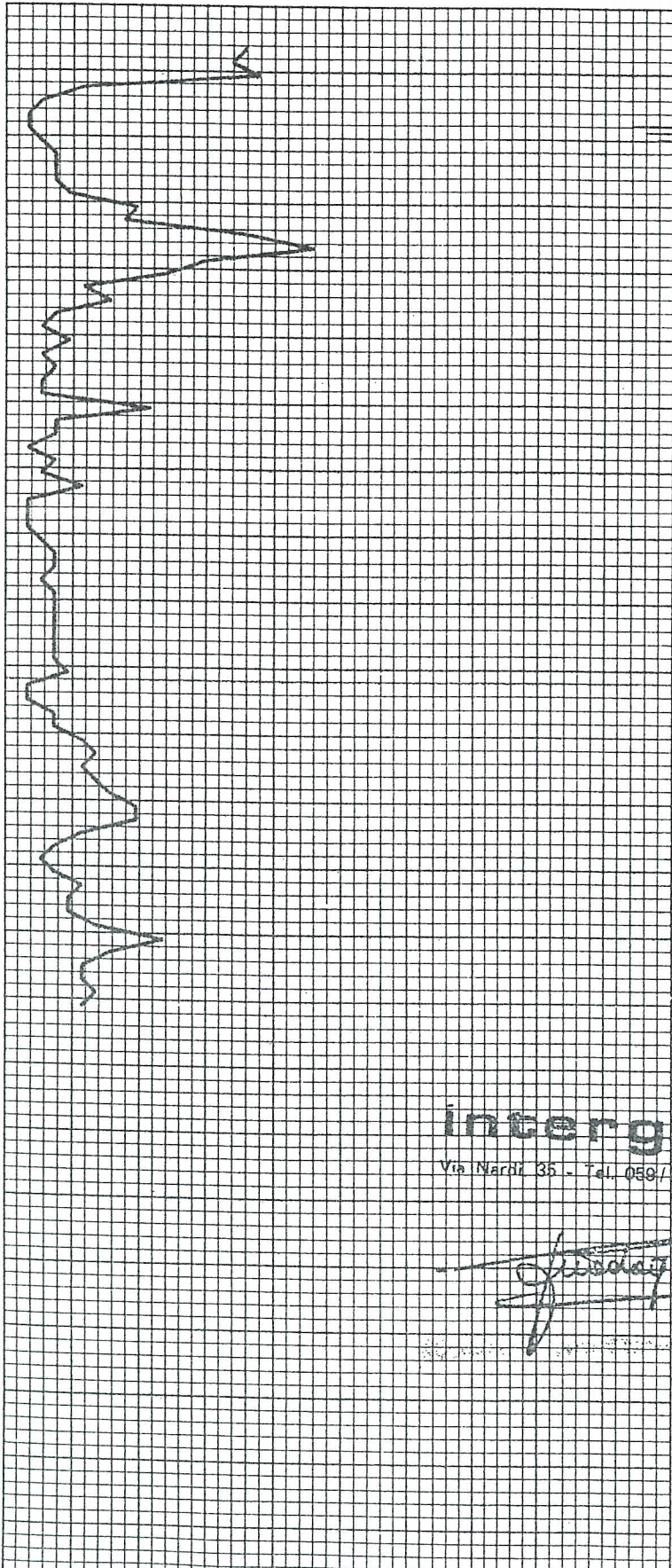
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 2 quota P.C.

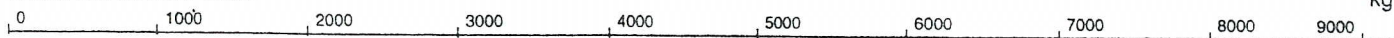
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 02/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

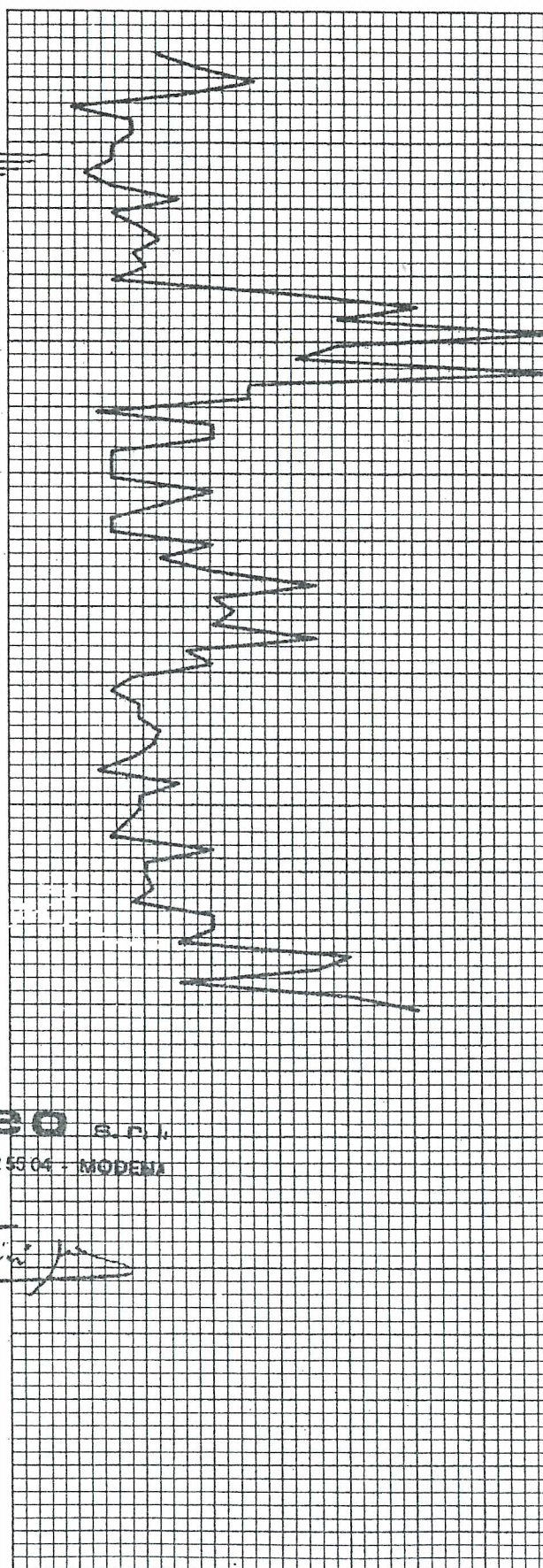
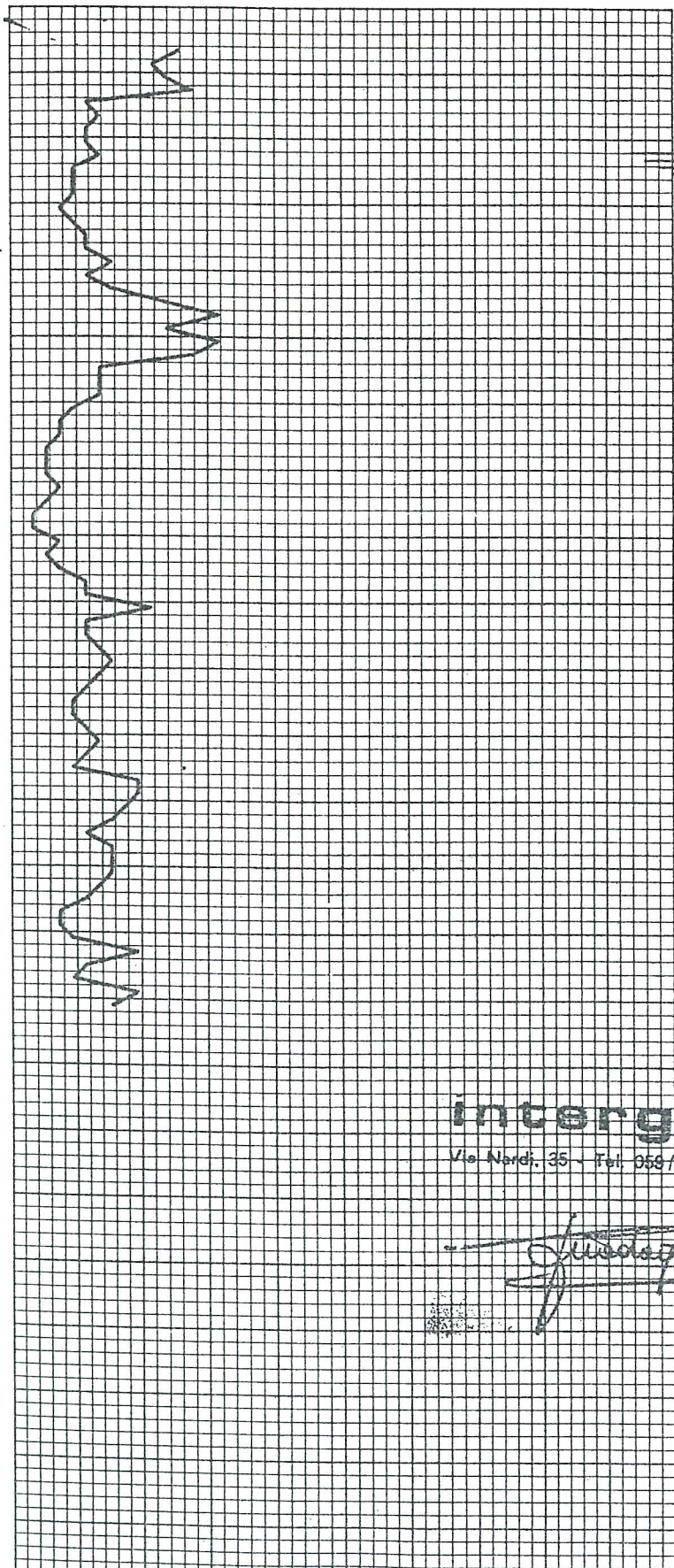
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA



intergeo s.r.l.

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prova n° 3 quota P.C.

località CAMPOGALLIANO

committente AMM. NE COM. LE

data 04/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

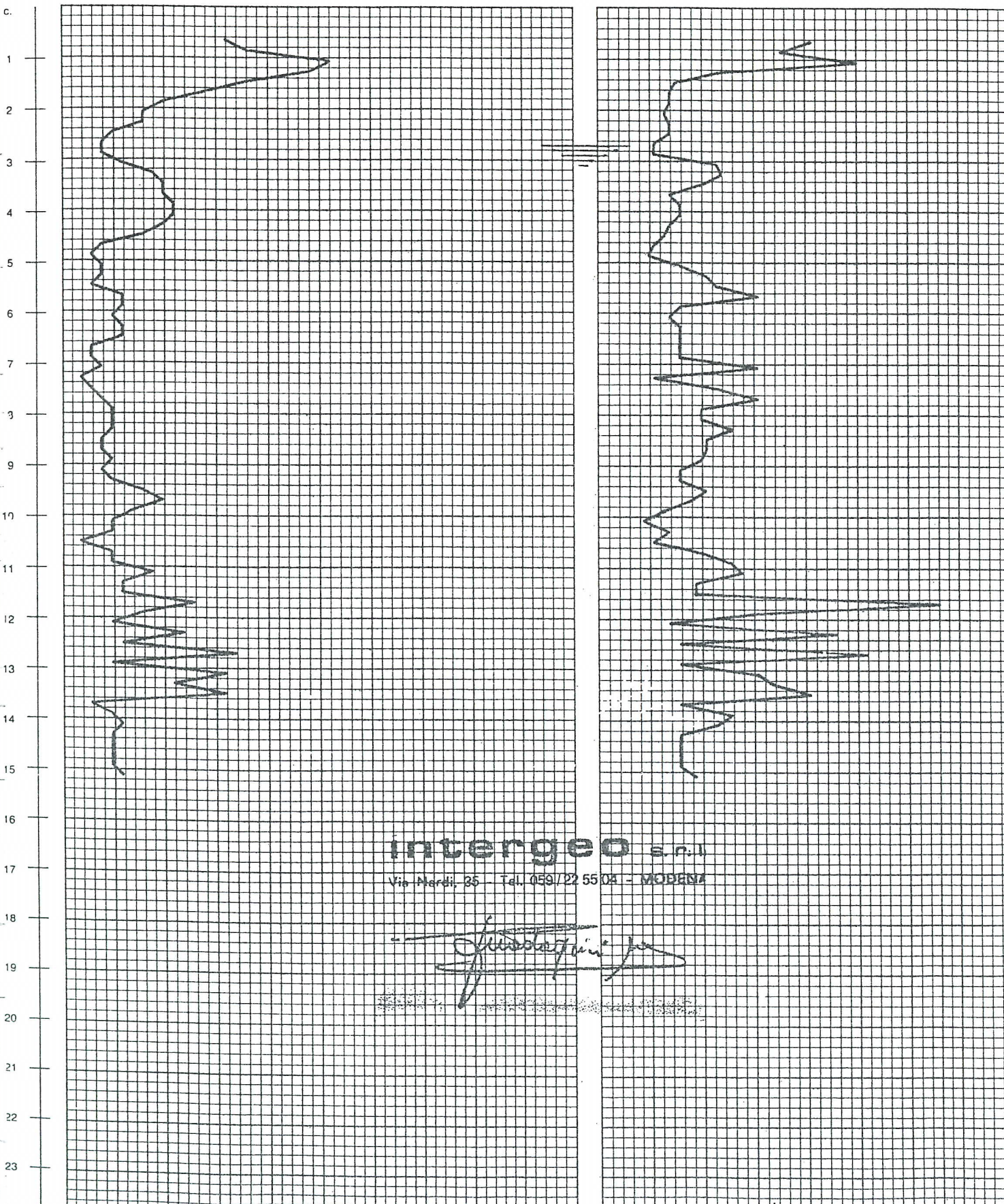
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.
Via Nardi, 35 - Tel. (059) 22 55 04 - MODENA

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 4 quota P.C.

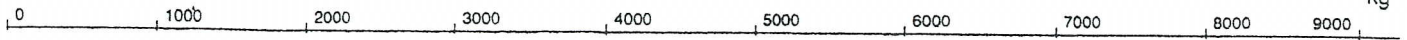
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 04/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

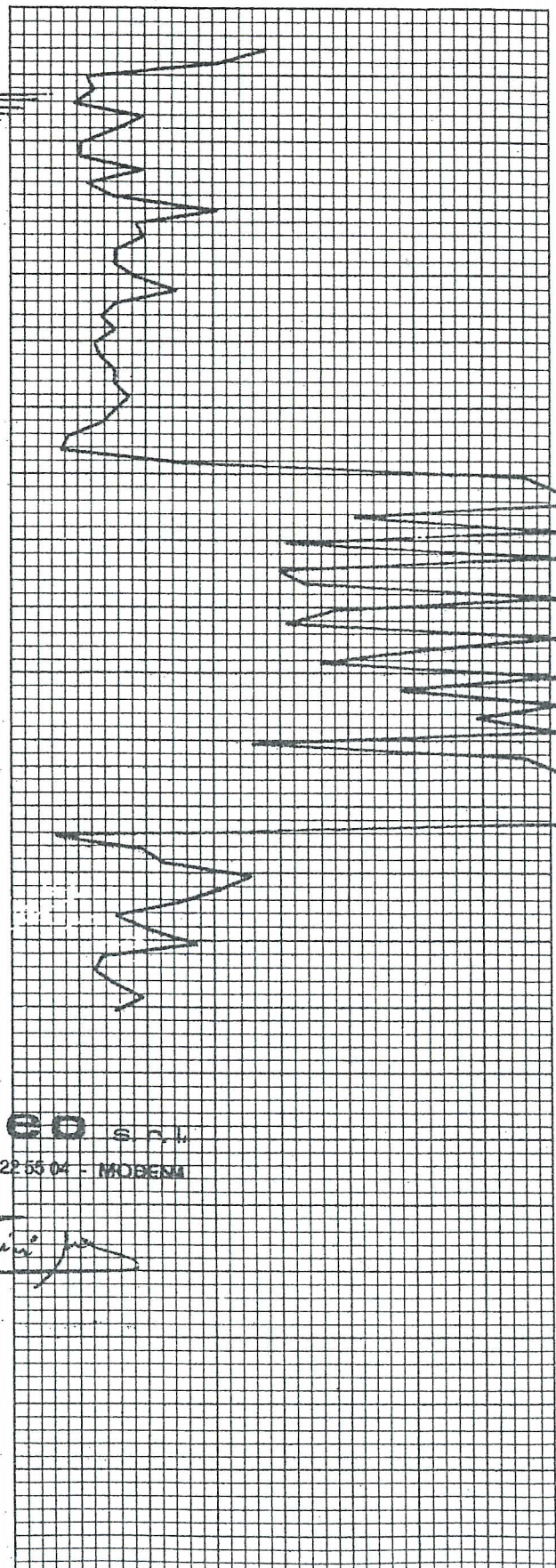
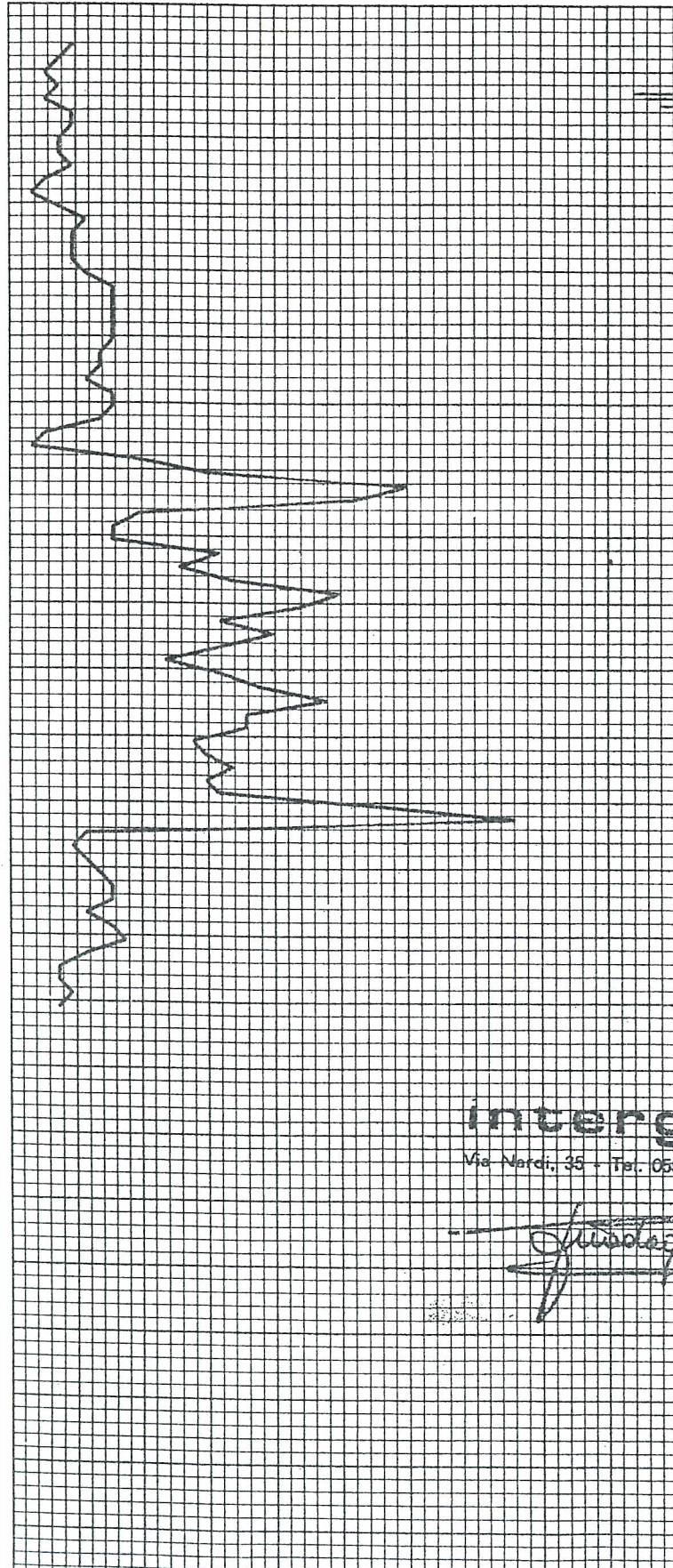
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/ri



intergeo s.r.l.

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Dr. Rebecchi



intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 5 quota P.C.

località CAMPOGALLIANO

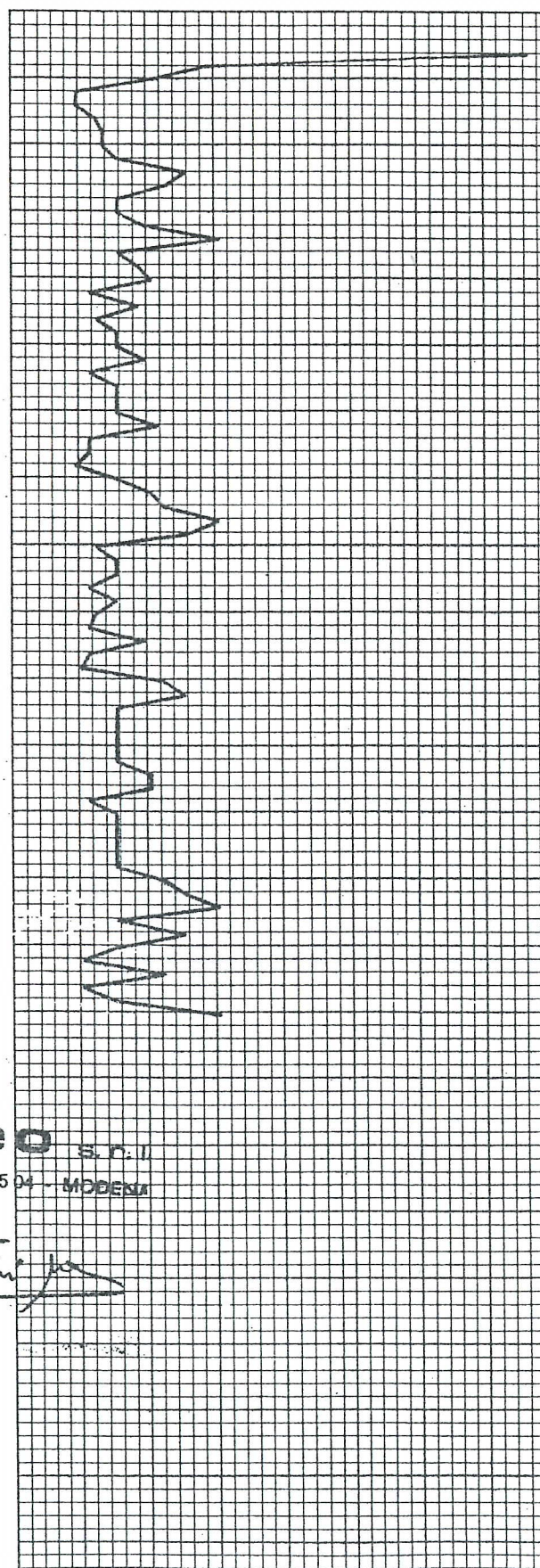
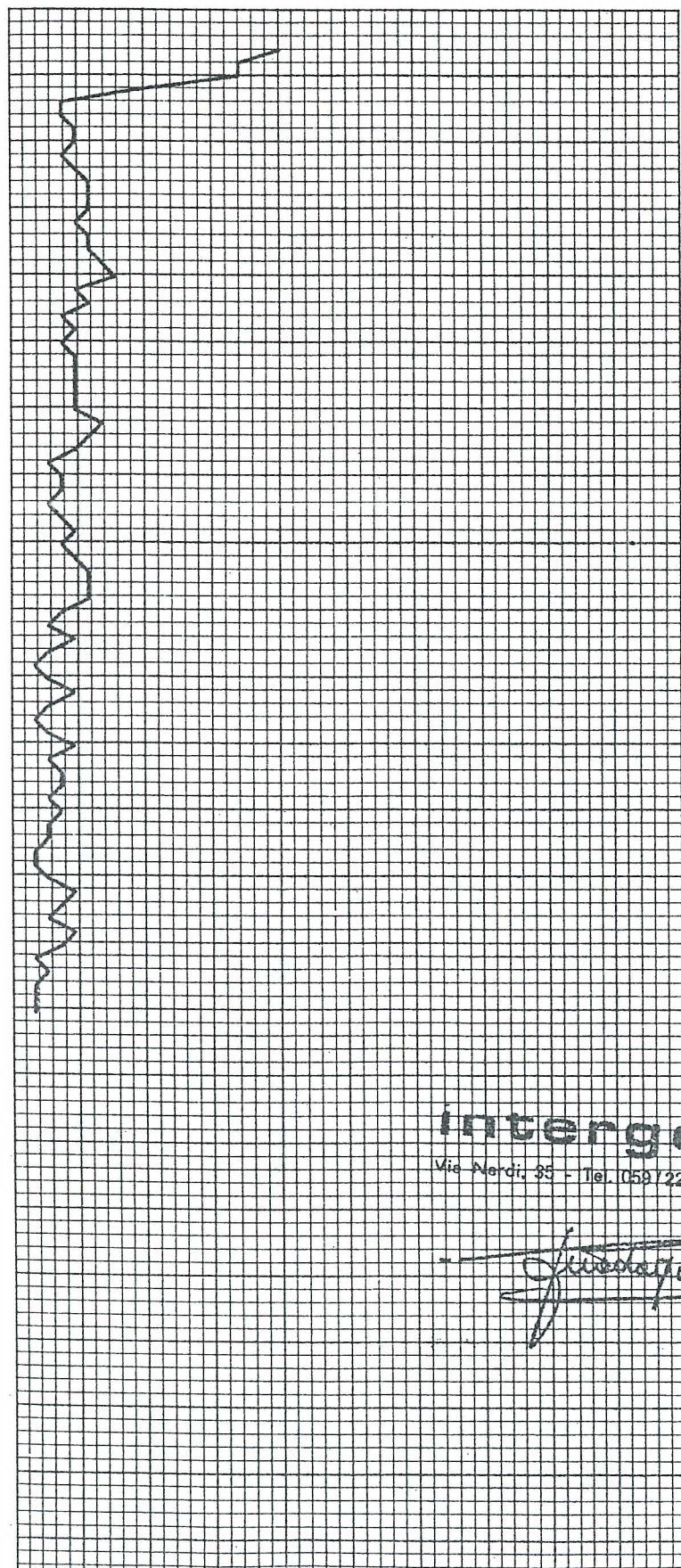
committente AMM. NE COM. LE

data 04/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale kg
0 1000 2000 3000 4000 5000 6000 7000 8000 9000

resistenza alla punta (Rp) kg/cm² Rp/rl
0 10 20 30 40 50 60 70 80 90 0 10 20 30 40 50 60 70



intergeo s.r.l.
Via Nardi, 35 - Tel. (059) 225504 - MODENA

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 6 quota P.C.

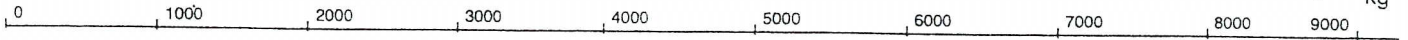
località CAMPOGALLIANO

committente AMM. NE COM. LE

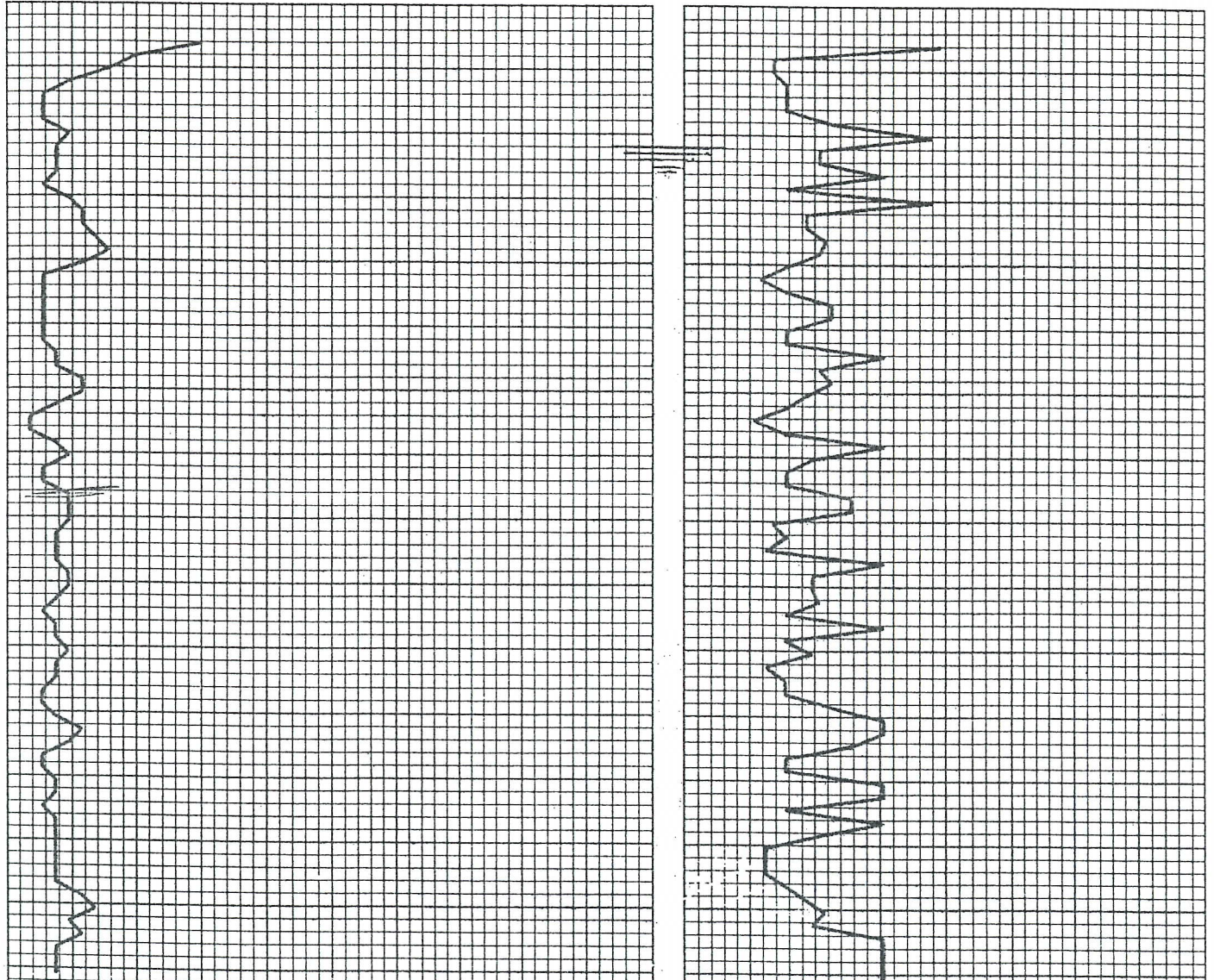
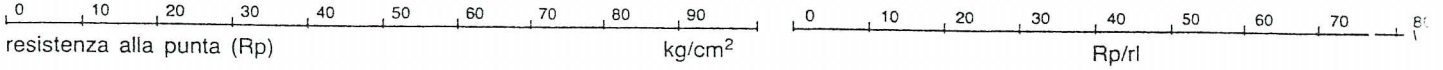
data 04/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale



resistenza alla punta (Rp)



intergeo s.r.l.

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 7 quota P.C.

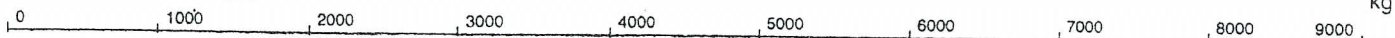
località CAMPOGALLIANO

committente AMM. NE. COM. LE

data 04/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

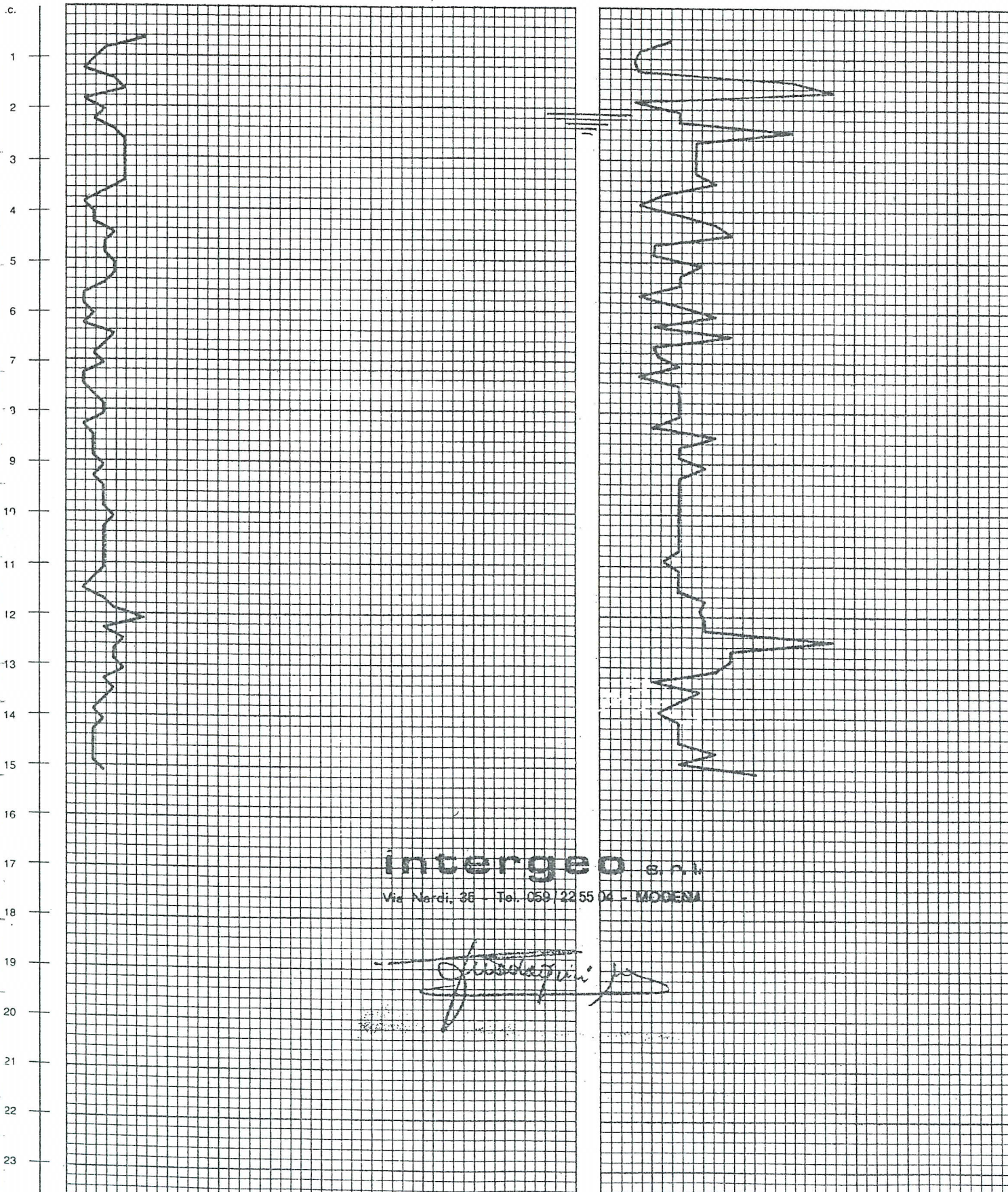
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.

Via Nardi, 35 - Tel. 059 225504 - MODENA

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 8 quota P.C.

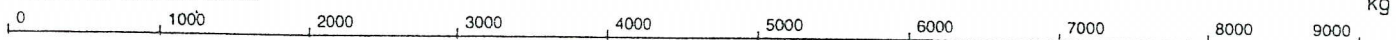
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 04/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

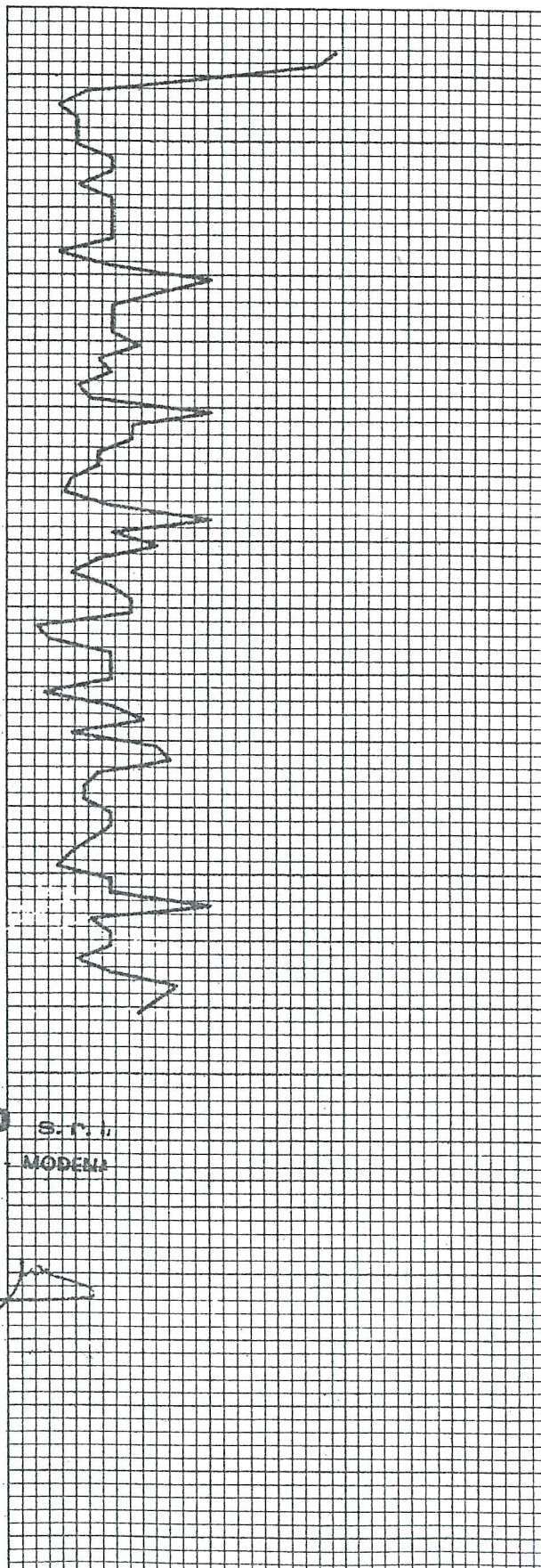
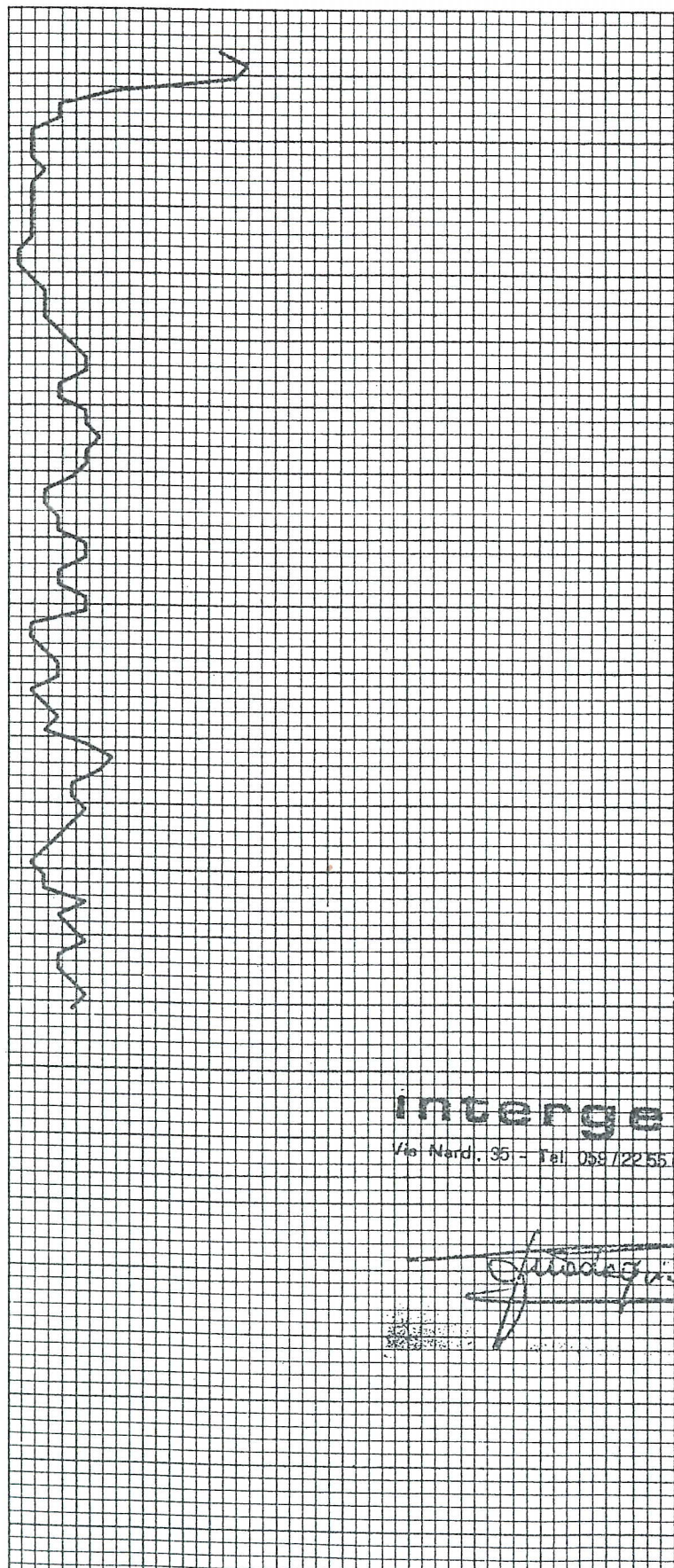
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.
Via Nardi, 35 - Tel. 059/225504 - MODENA

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CPT128

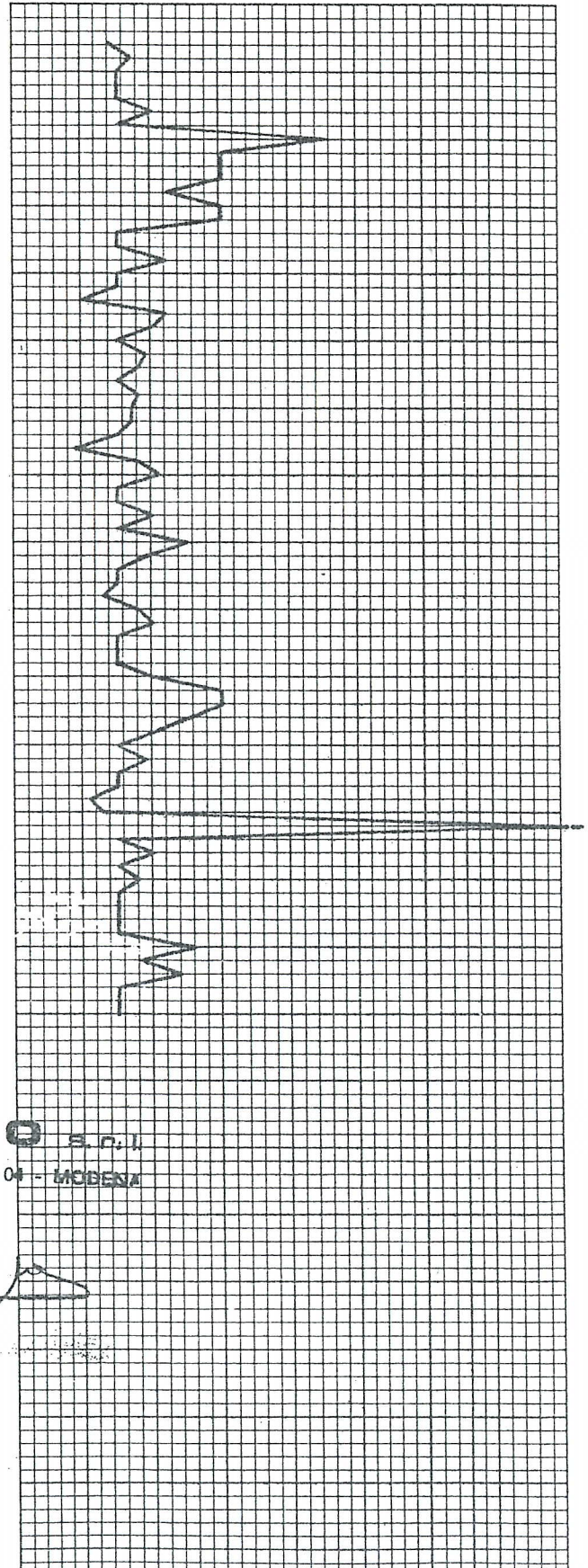
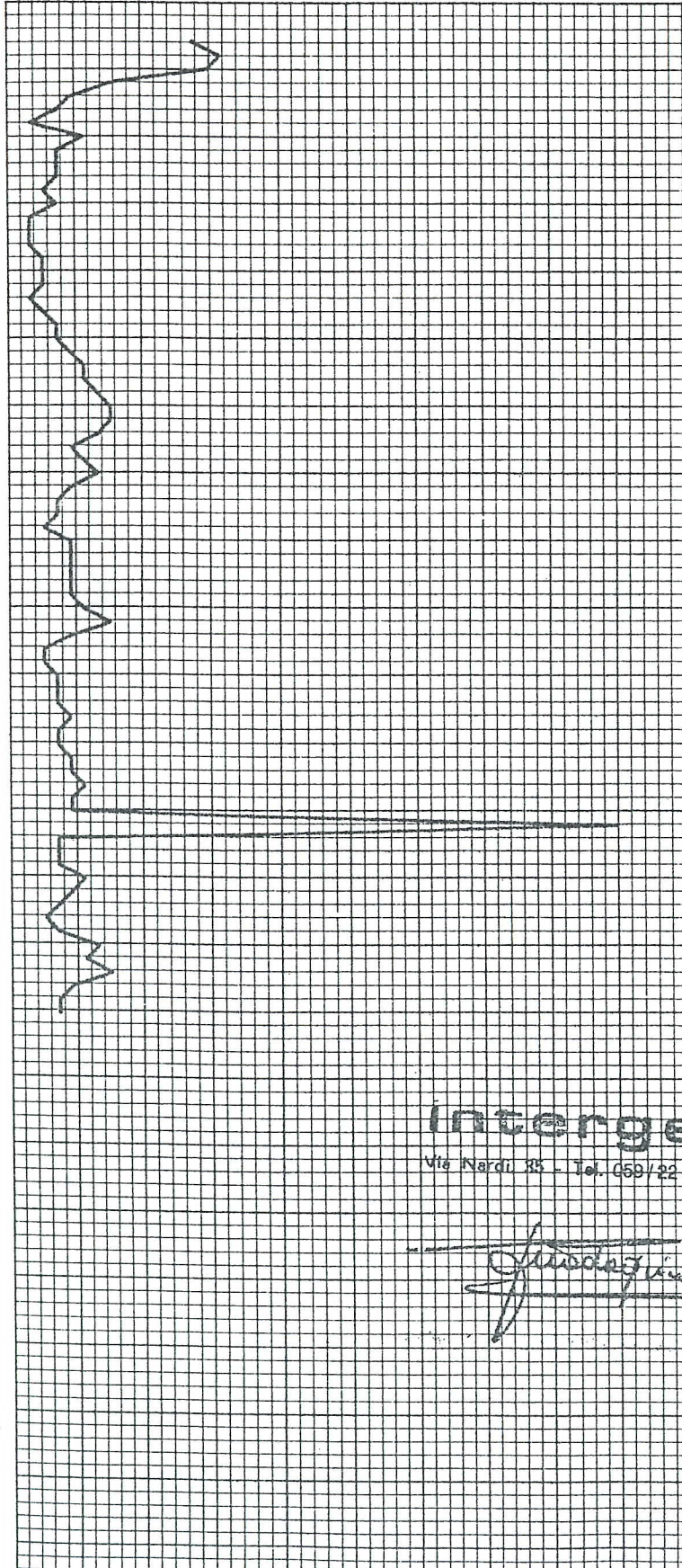
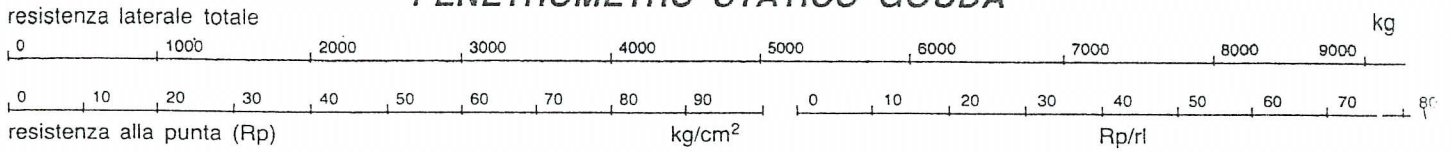


intergeo s.r.l.

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prova n° 9 quota P.C.
località CAMPOGALLIANO
committente AMM. NE COM. LE
data 06/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA



intergeo s.r.l.
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CPT129



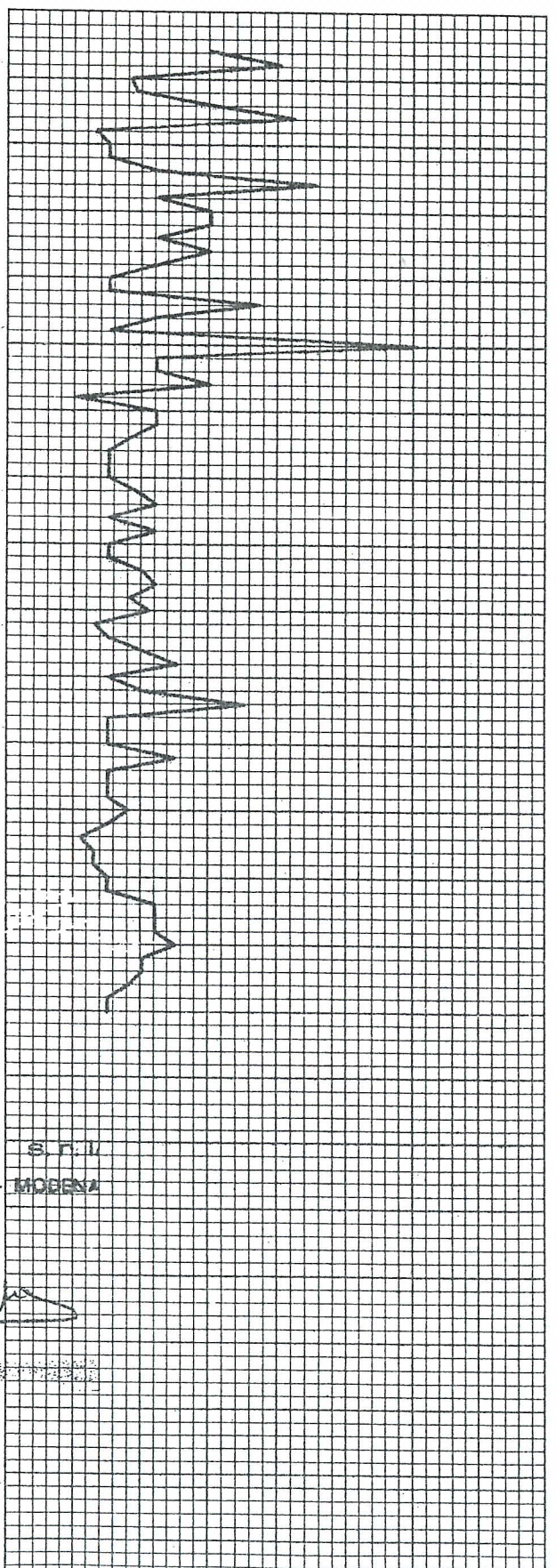
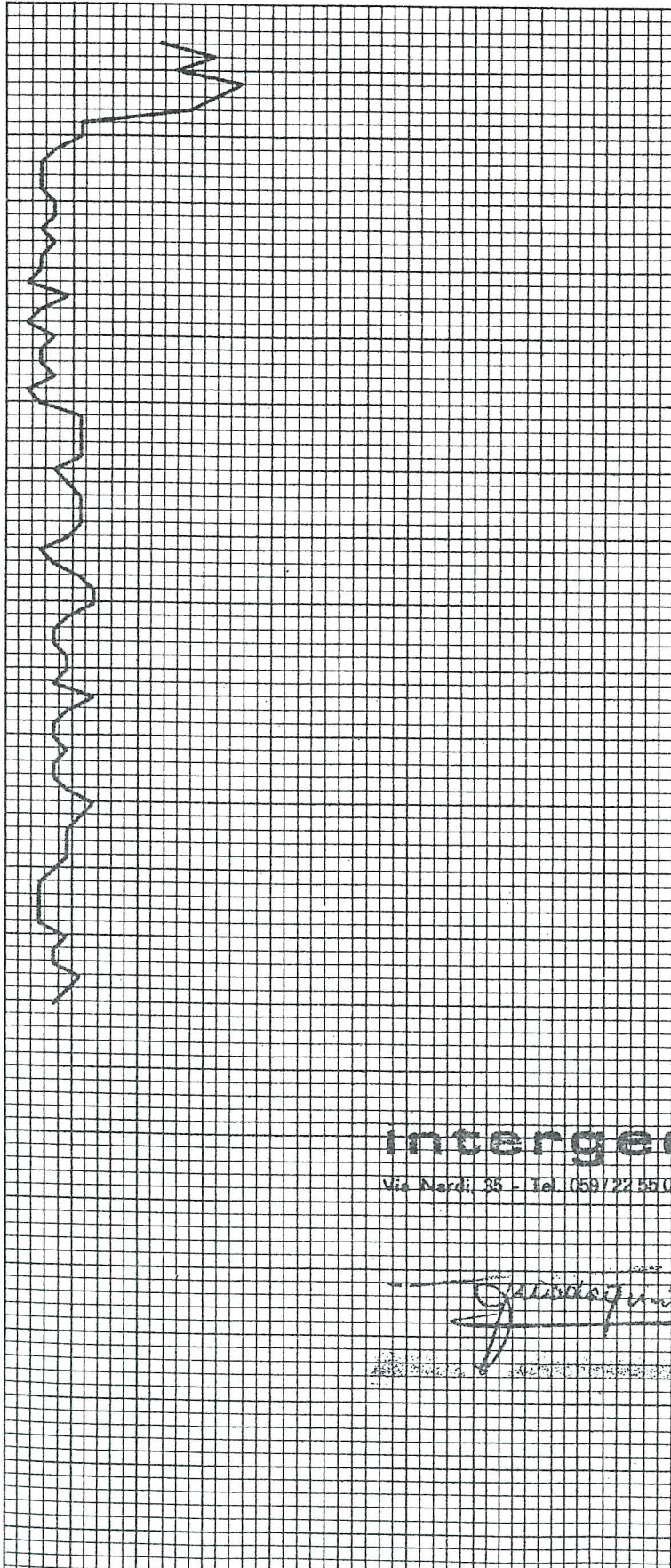
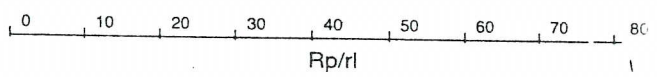
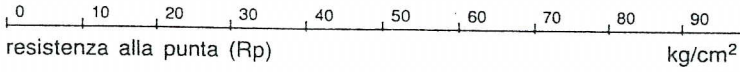
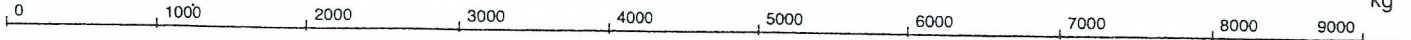
intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 10 quota P.C.
località CAMPOGALLIANO
committente AMM. NE COM. LE
data 06/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale



intergeo s.r.l.

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CPT130



intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220736

prova n° 11 quota P.C.

località CAMPOGALLIANO

committente RM. NE COM. LE

data 02/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

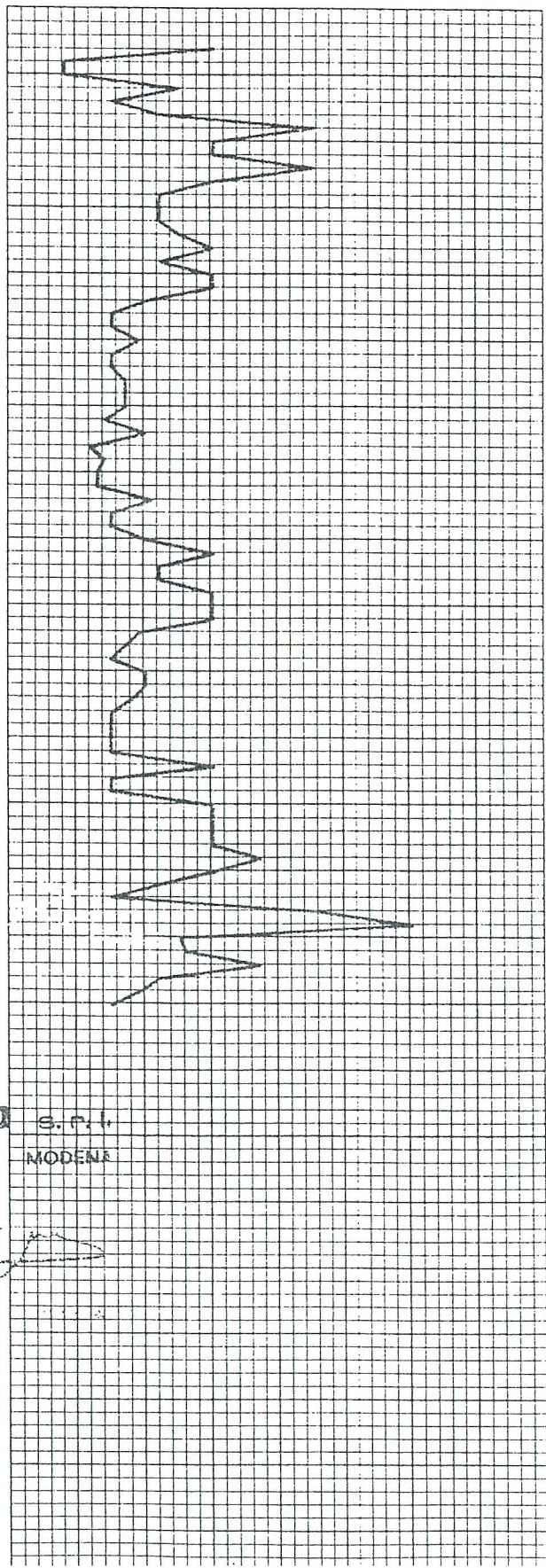
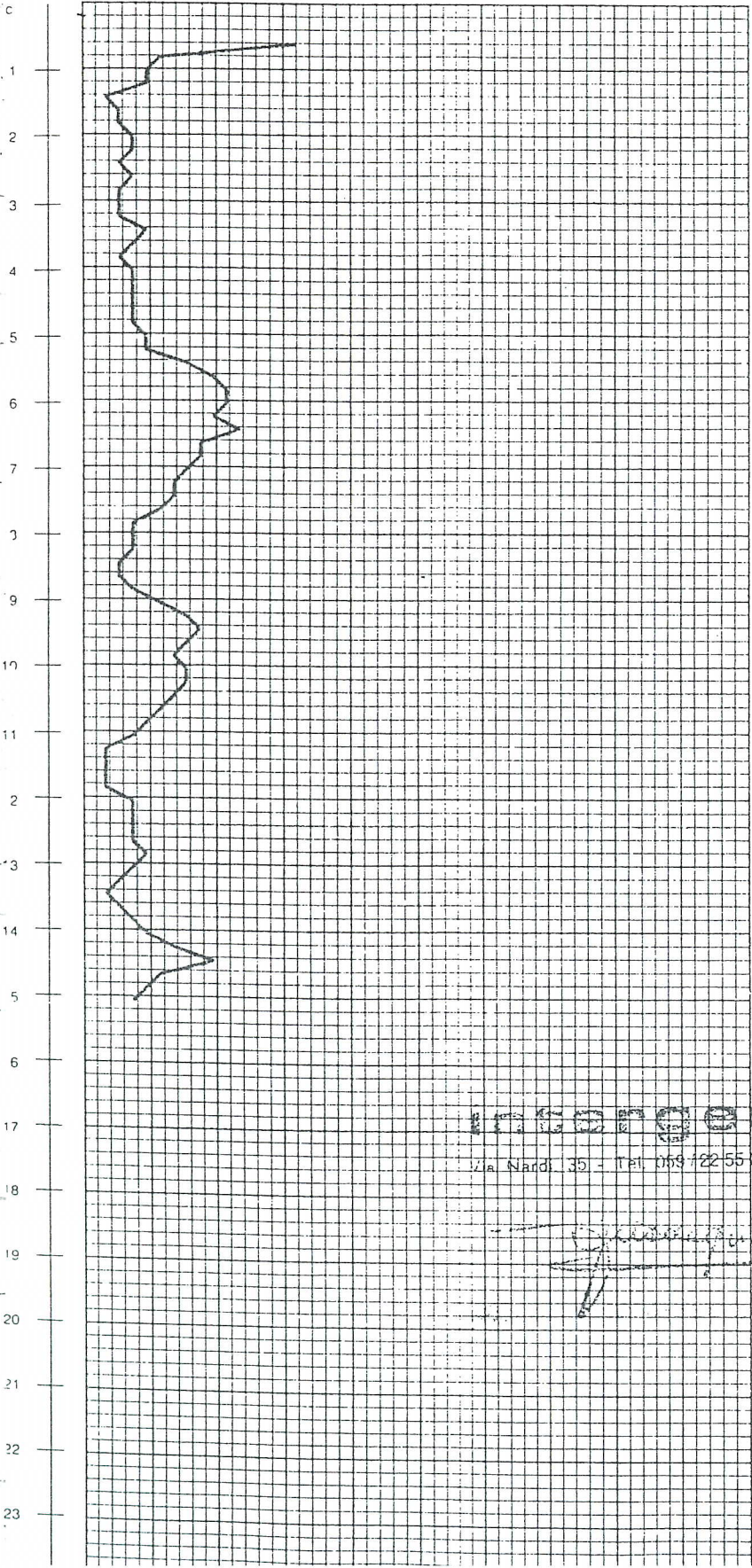
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 MODENA

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 12 quota P.C.

località CAMPOGALLIANO

committente AMM. NE COM. LE

data 02/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale

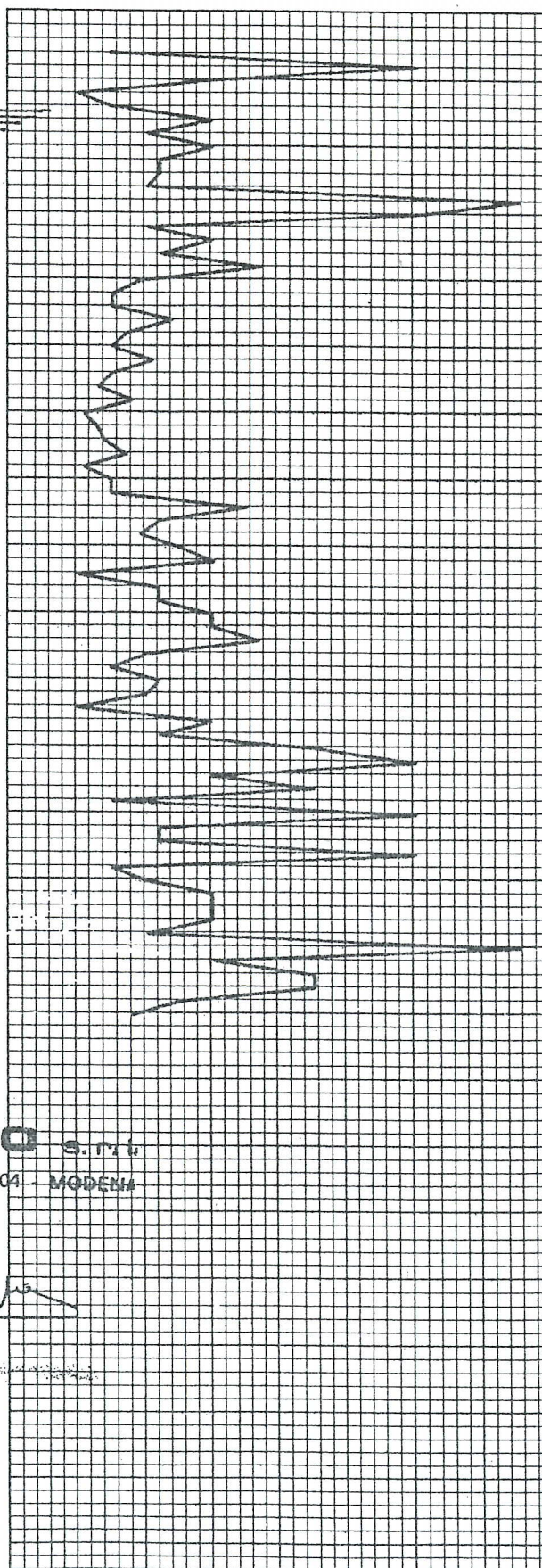
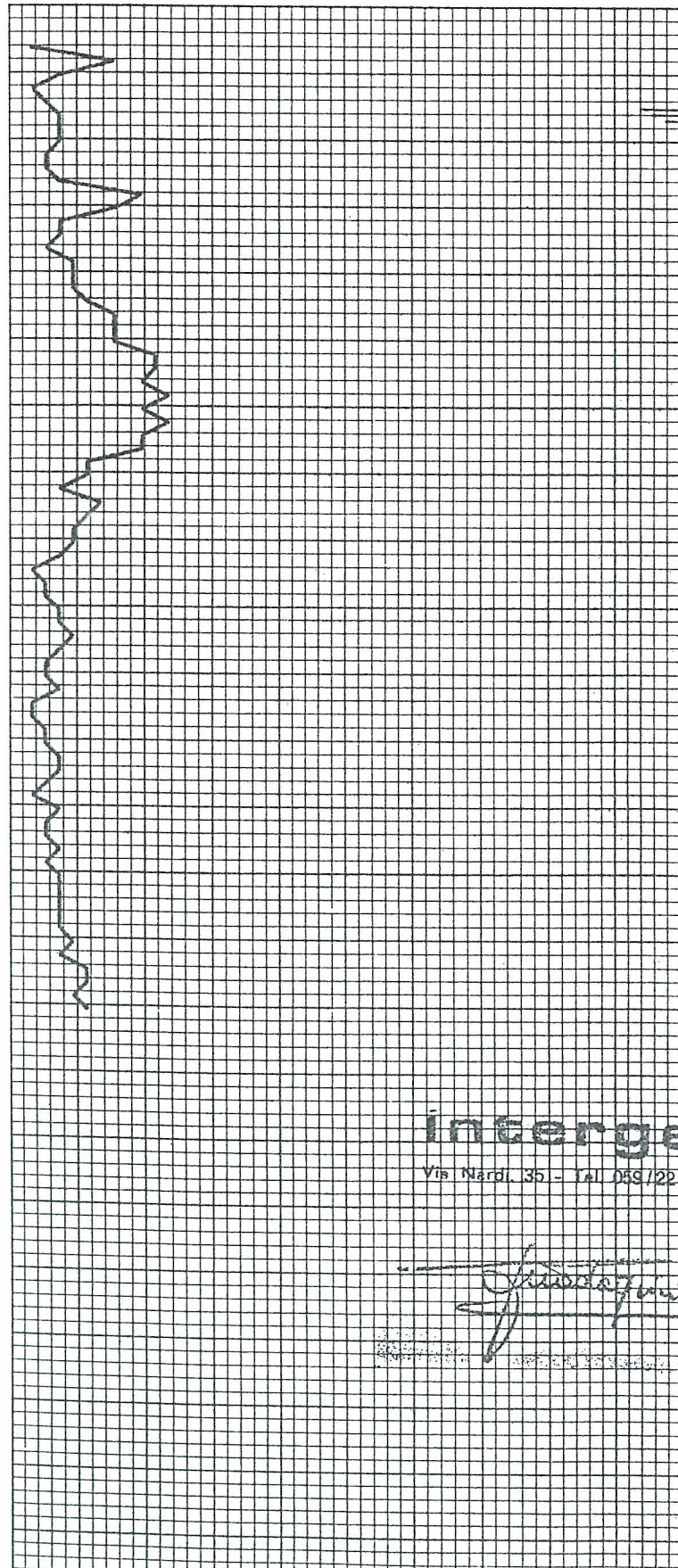


resistenza alla punta (Rp)

kg/cm²

Rp/rl

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intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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intergeo s.r.l.

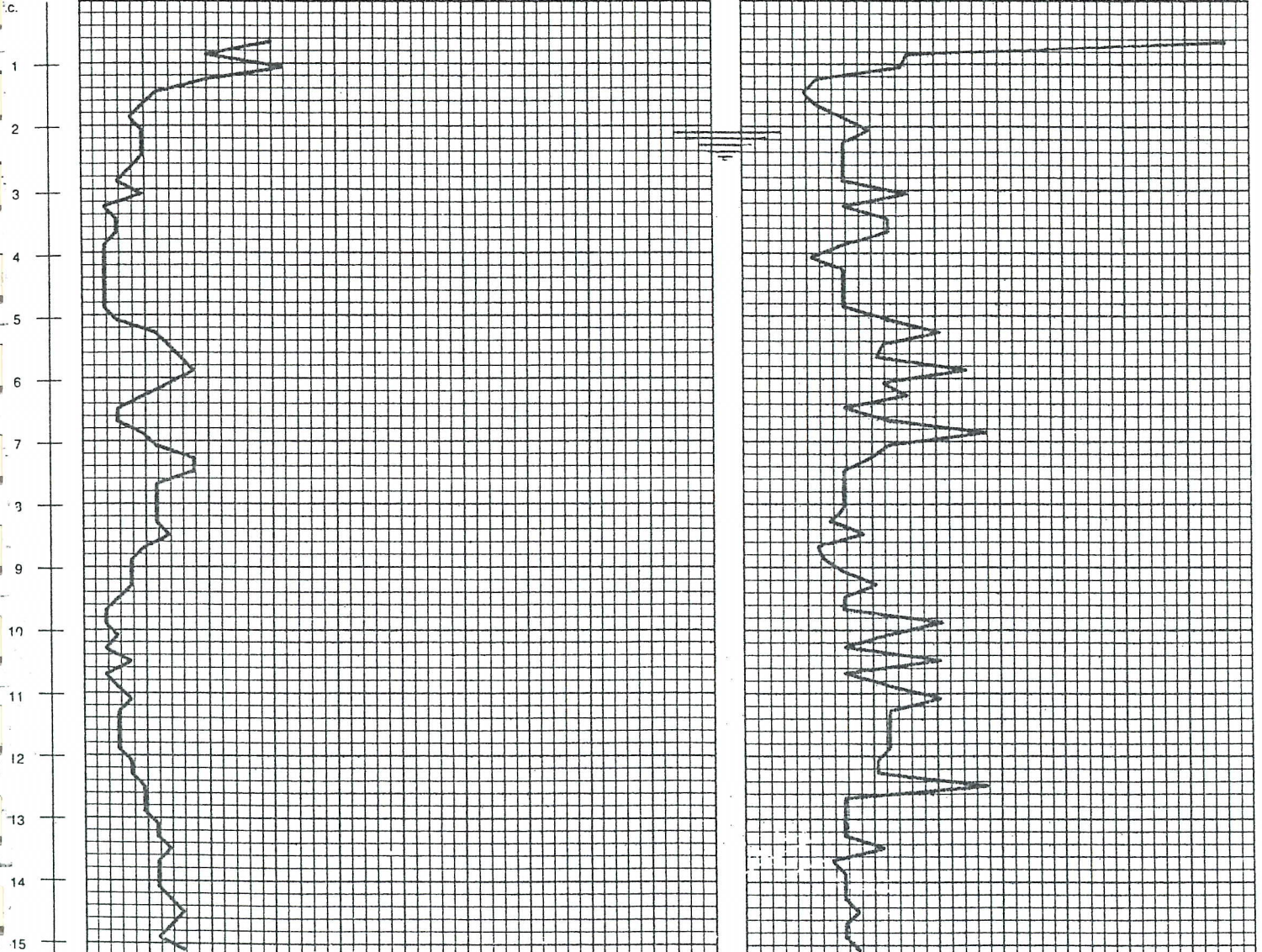
41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 13 quota P.C.
località CAMPOGALLIANO
committente AMM. NE COM. LE
data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale kg
0 1000 2000 3000 4000 5000 6000 7000 8000 9000

resistenza alla punta (Rp) kg/cm² Rp/rl
0 10 20 30 40 50 60 70 80 90 0 10 20 30 40 50 60 70 80



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 14 quota P.C.

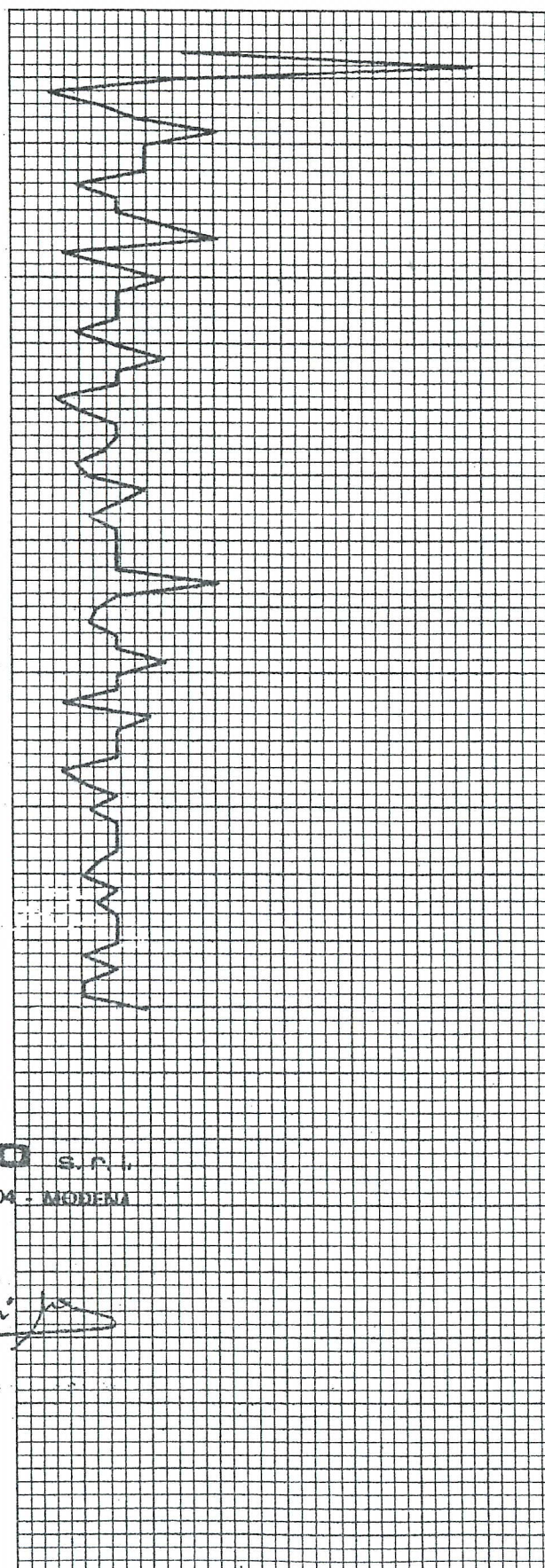
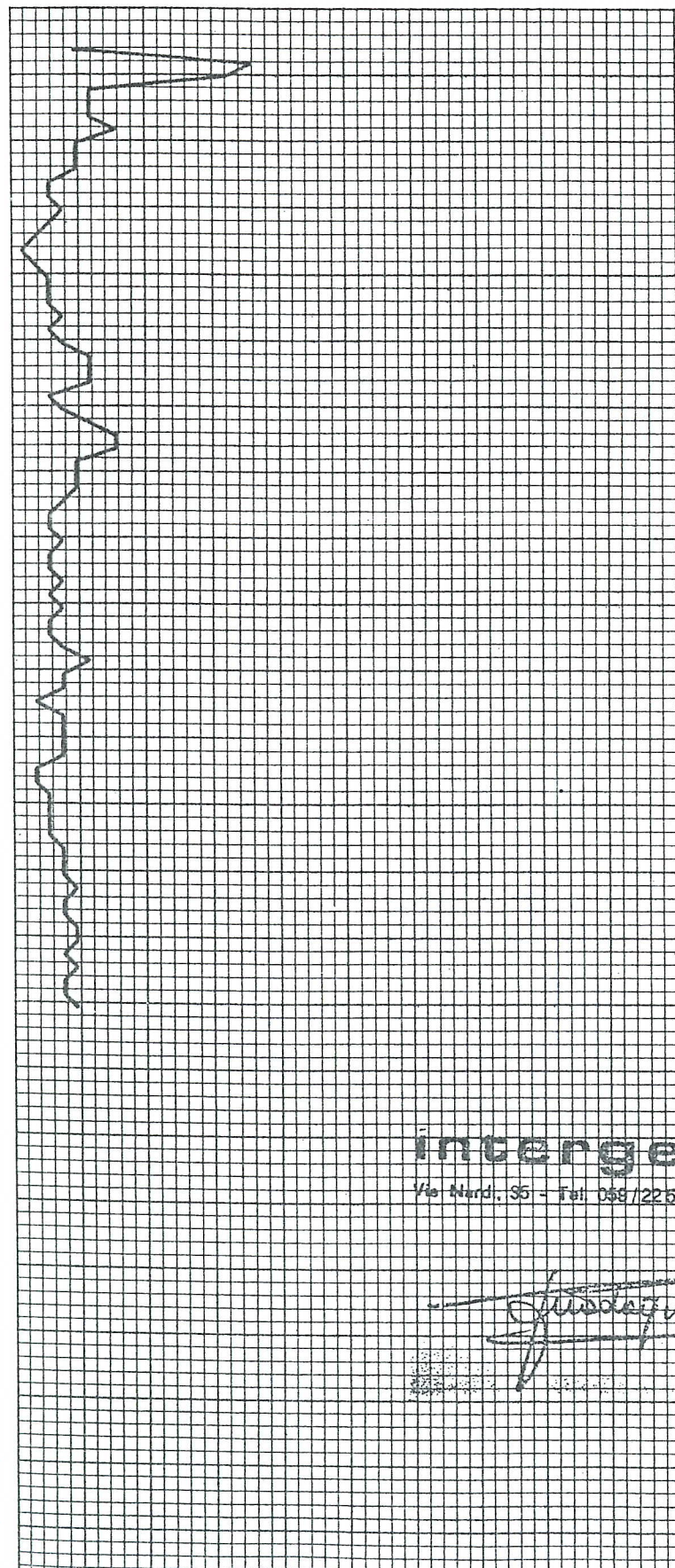
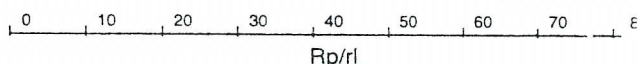
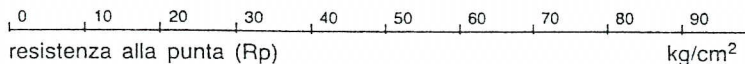
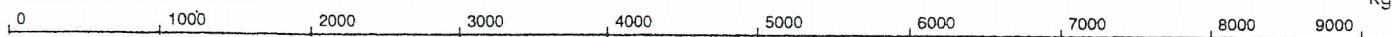
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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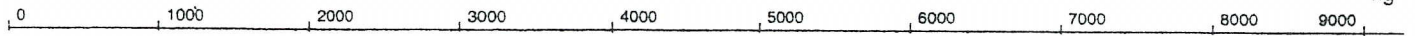
intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

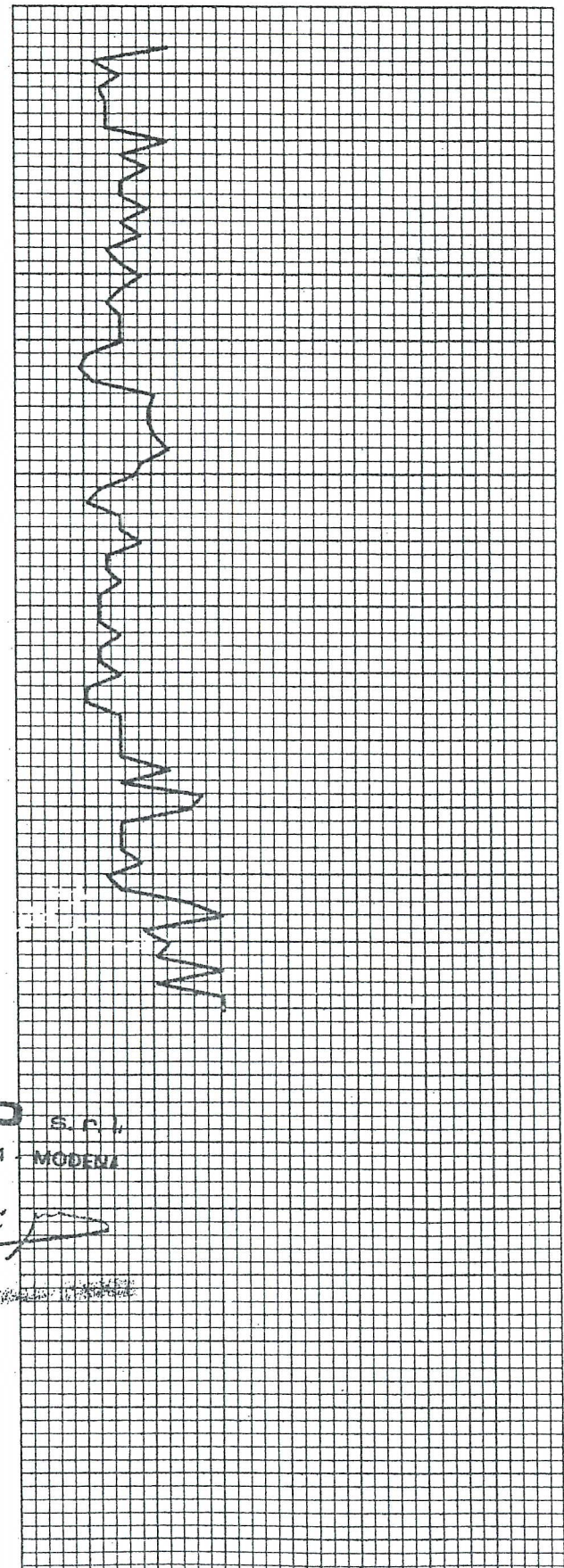
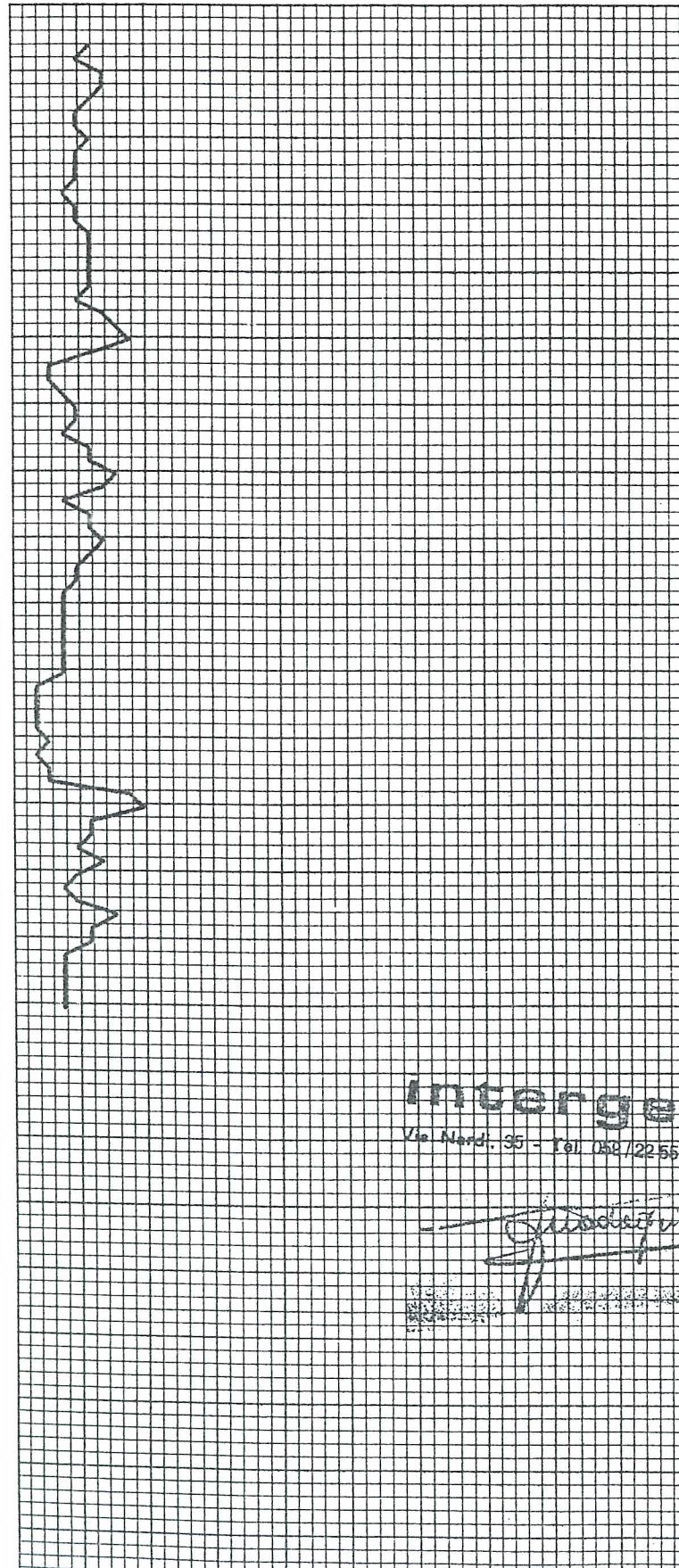
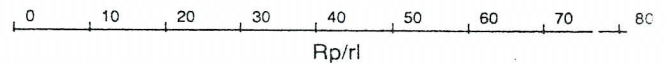
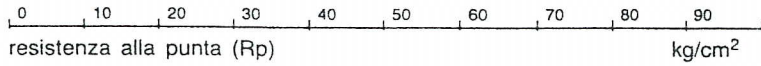
prova n° 15 quota P.C.
località CAMPOGALLIANO
committente AMM. NE COM. LE
data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale



resistenza alla punta (Rp)



intergeo s.r.l.
Via Nardi, 35 - Tel. 059/225504 - MODENA

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CPT135



intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 16 quota P.C.

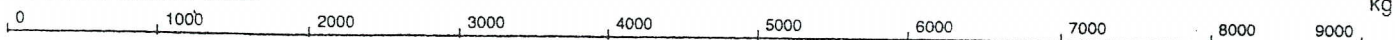
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

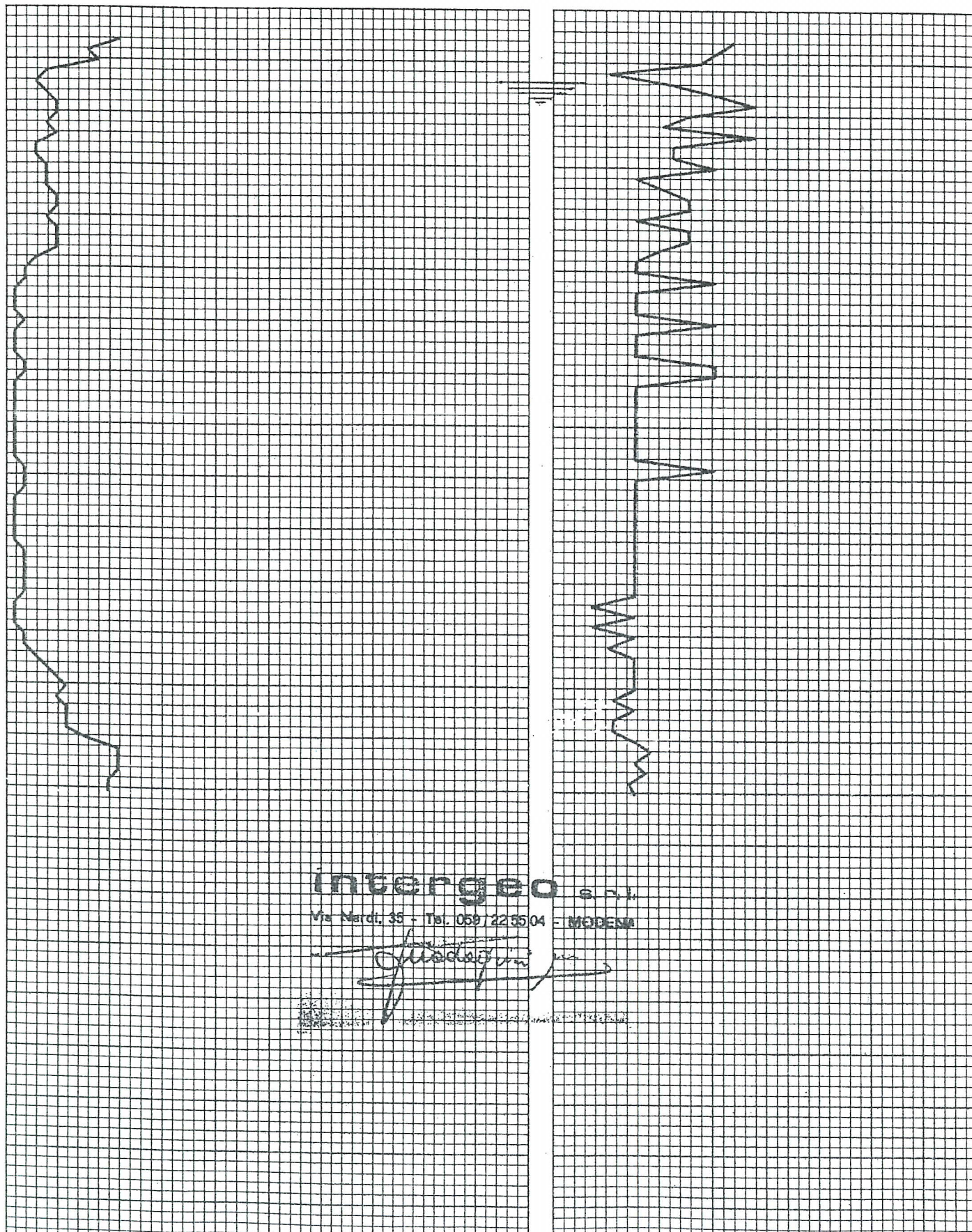
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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CPT136



intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 17 quota P.C.

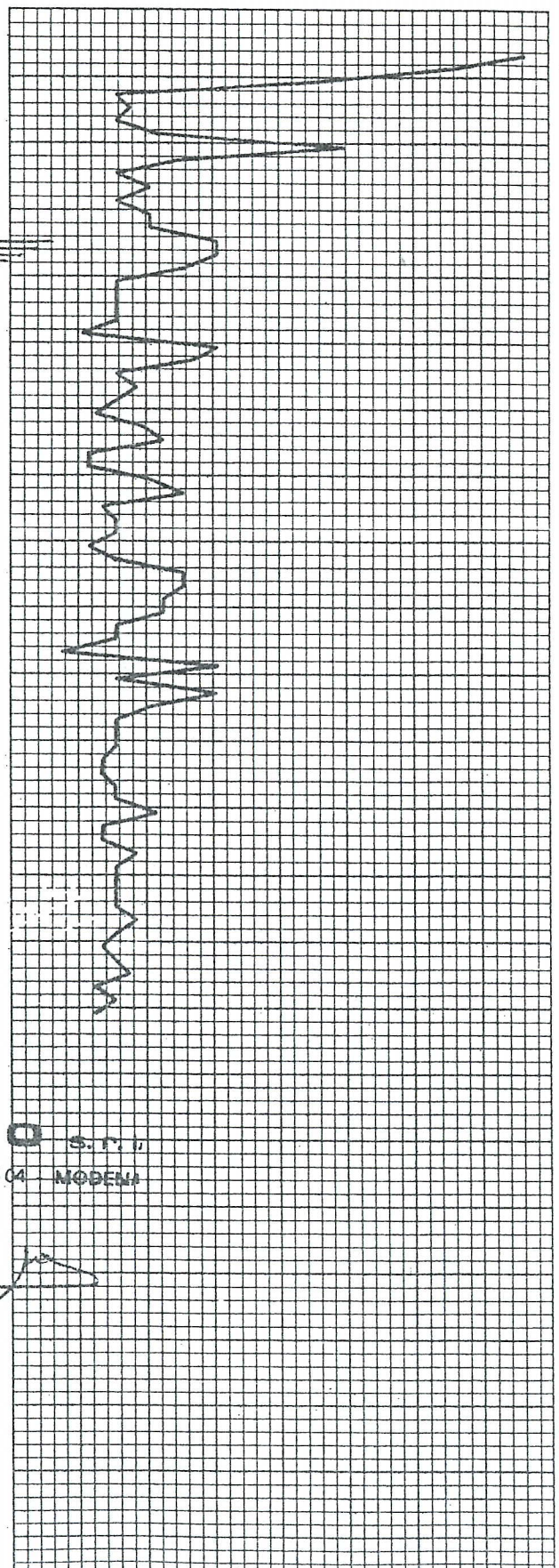
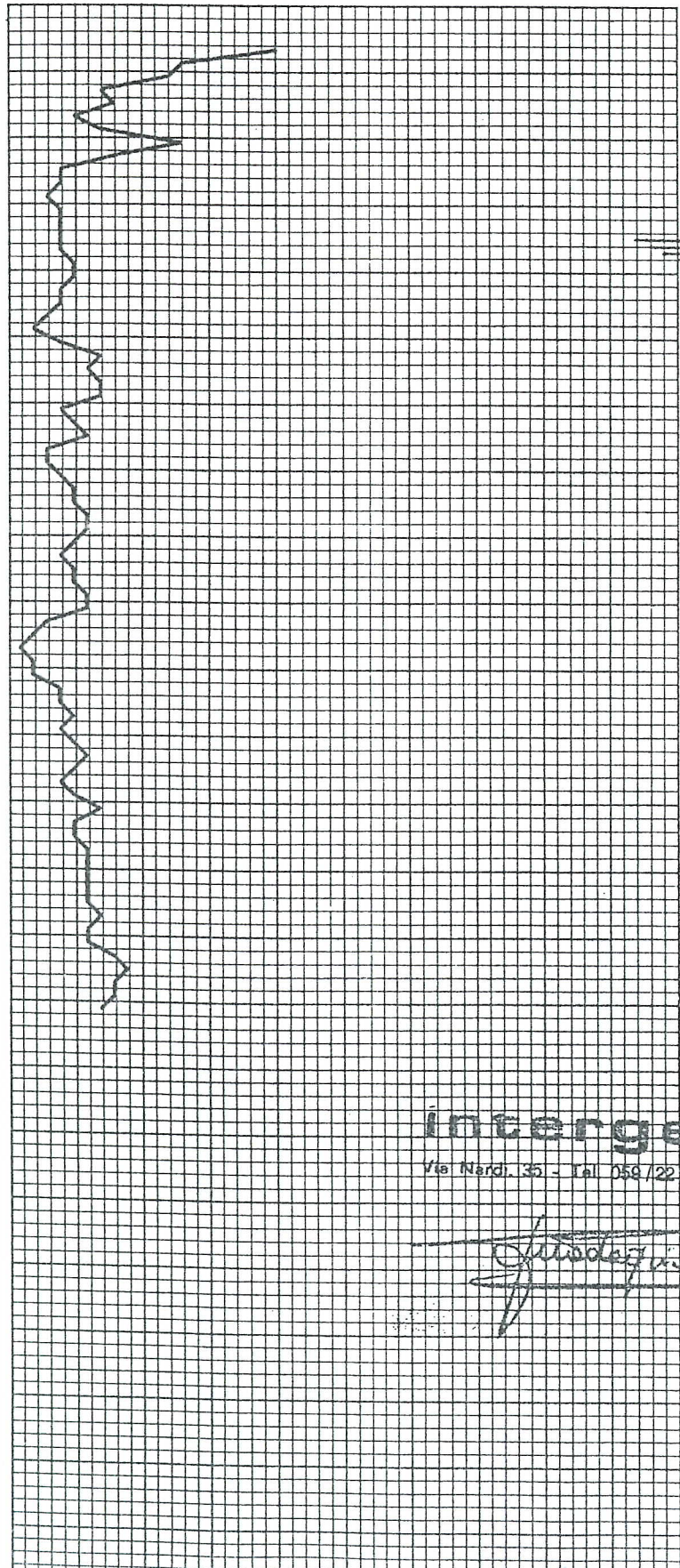
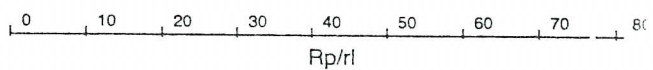
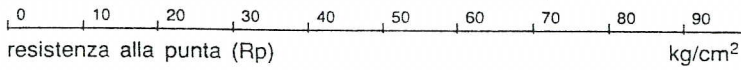
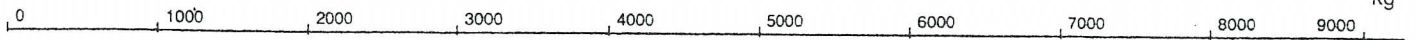
località CAMPOGALLIANO

committente AMM. NE COM. LE

data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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CPT137



intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 17 bis quota P.C.

località CAMPOGALLIANO

committente AMM. NE COM. LE

data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale

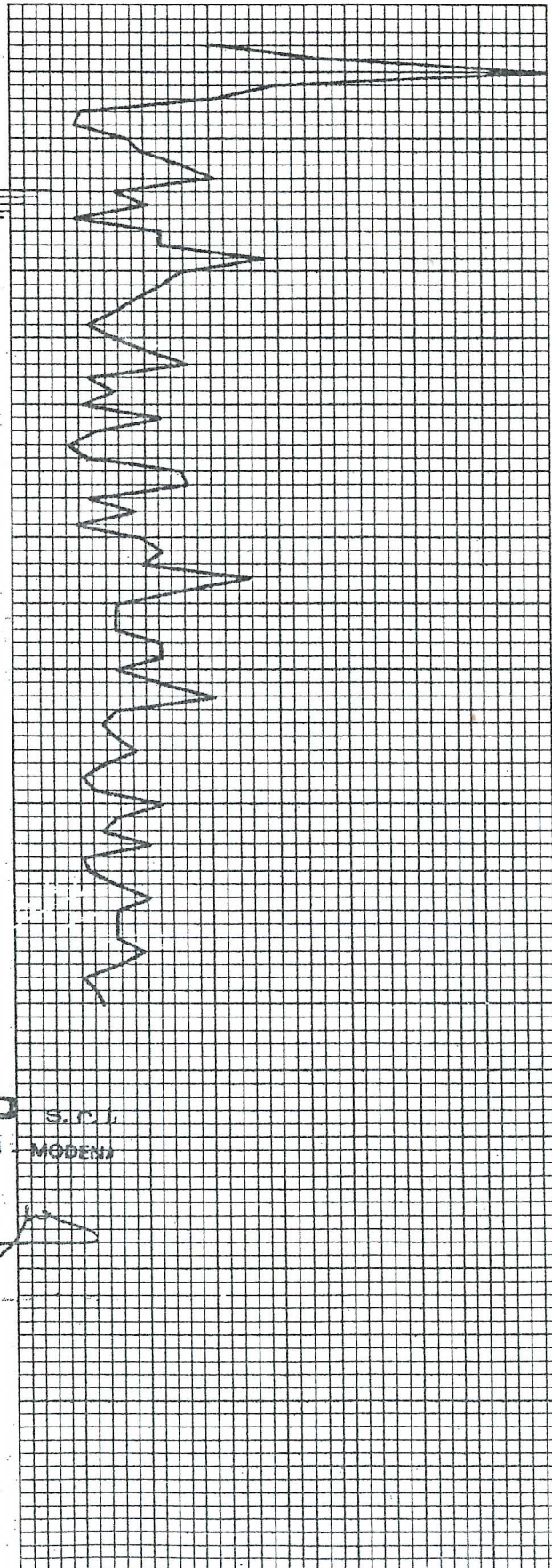
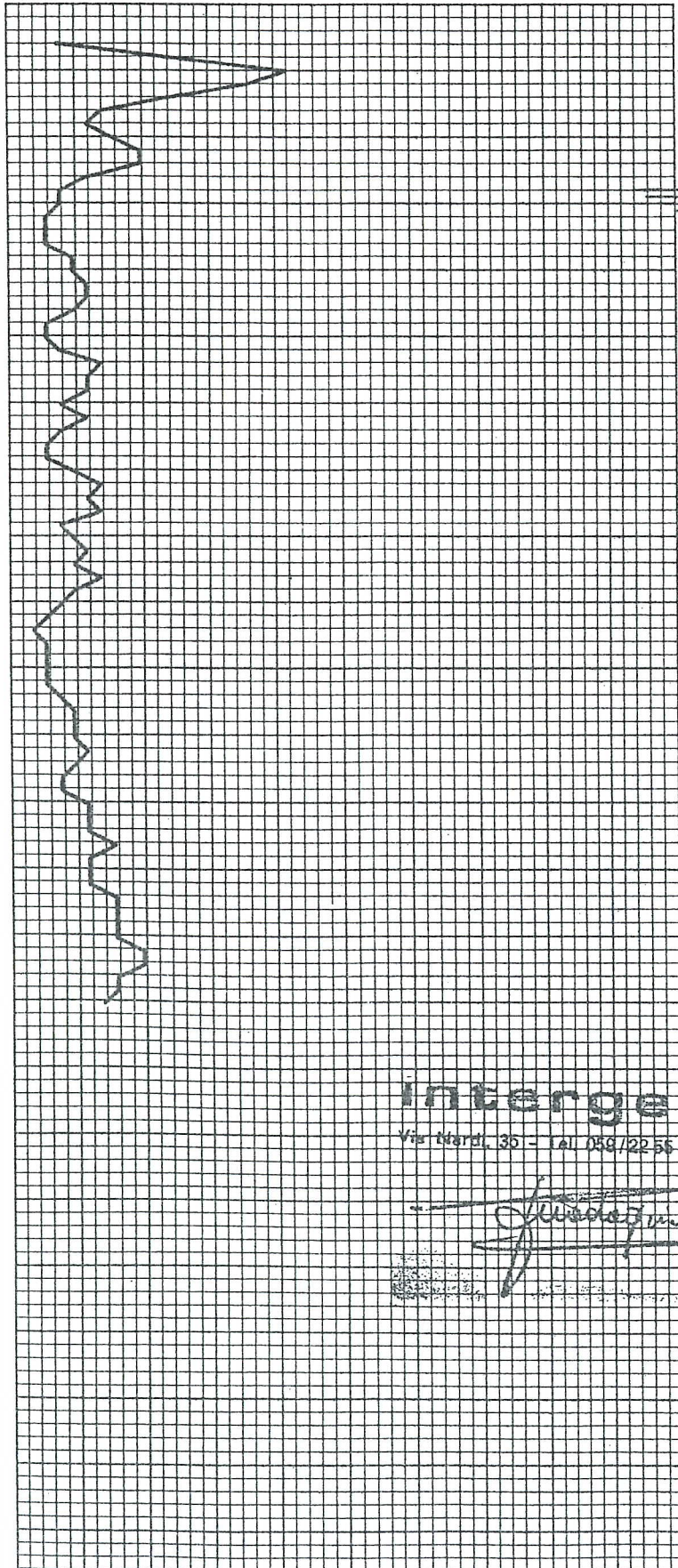


resistenza alla punta (Rp)

kg/cm²

Rp/rl

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intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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CPT138

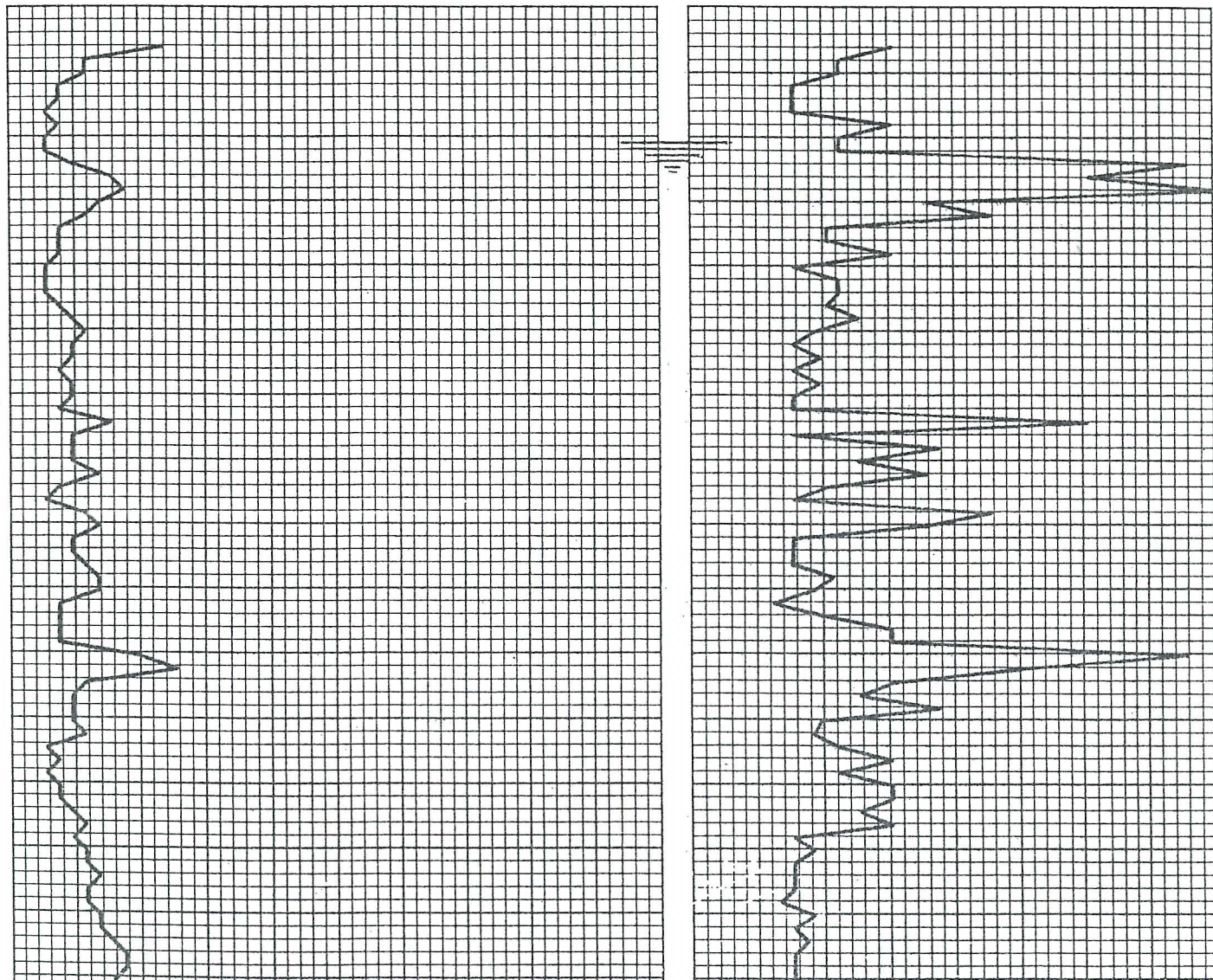
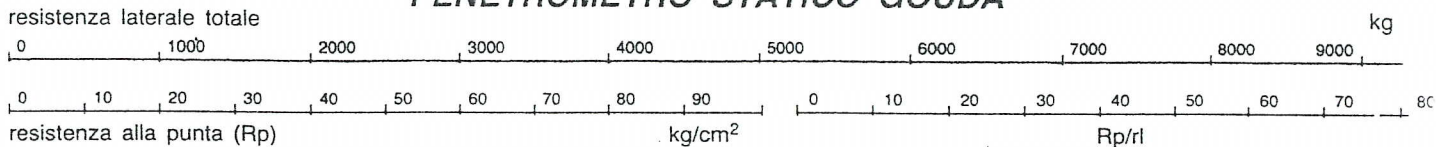


intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 18 quota P.C.
località CAMPOGALLIANO
committente AMM. NE COM. LE
data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA



intergeo s.r.l.
Via Nardi, 35 - Tel. 059/225504 - MODENA

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intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 19 quota P.C.

località CAMPOGALLIANO

committente AMM. NE COM. LE

data 03/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

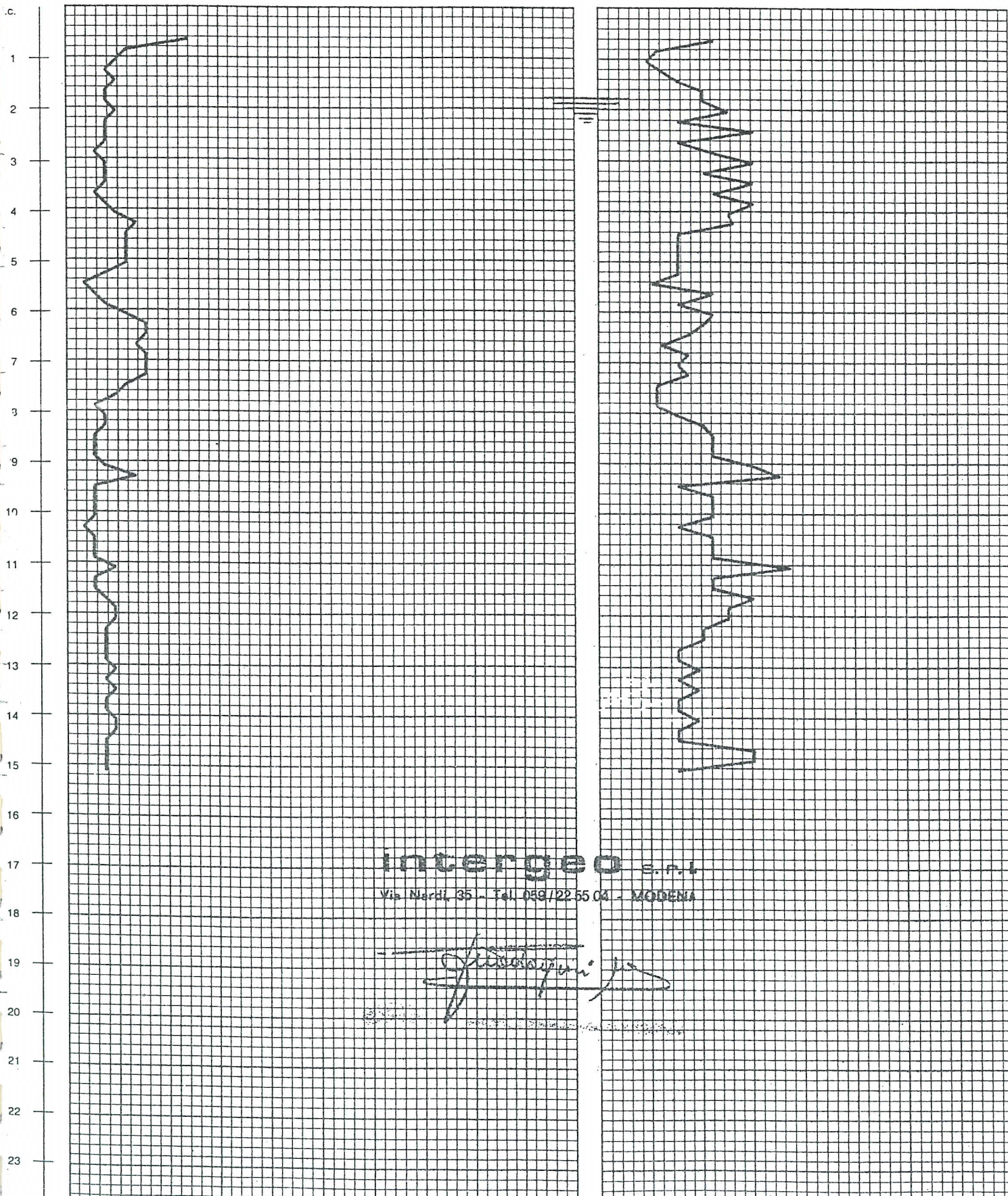
resistenza laterale totale



resistenza alla punta (Rp)

kg/cm²

Rp/rl



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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CPT140



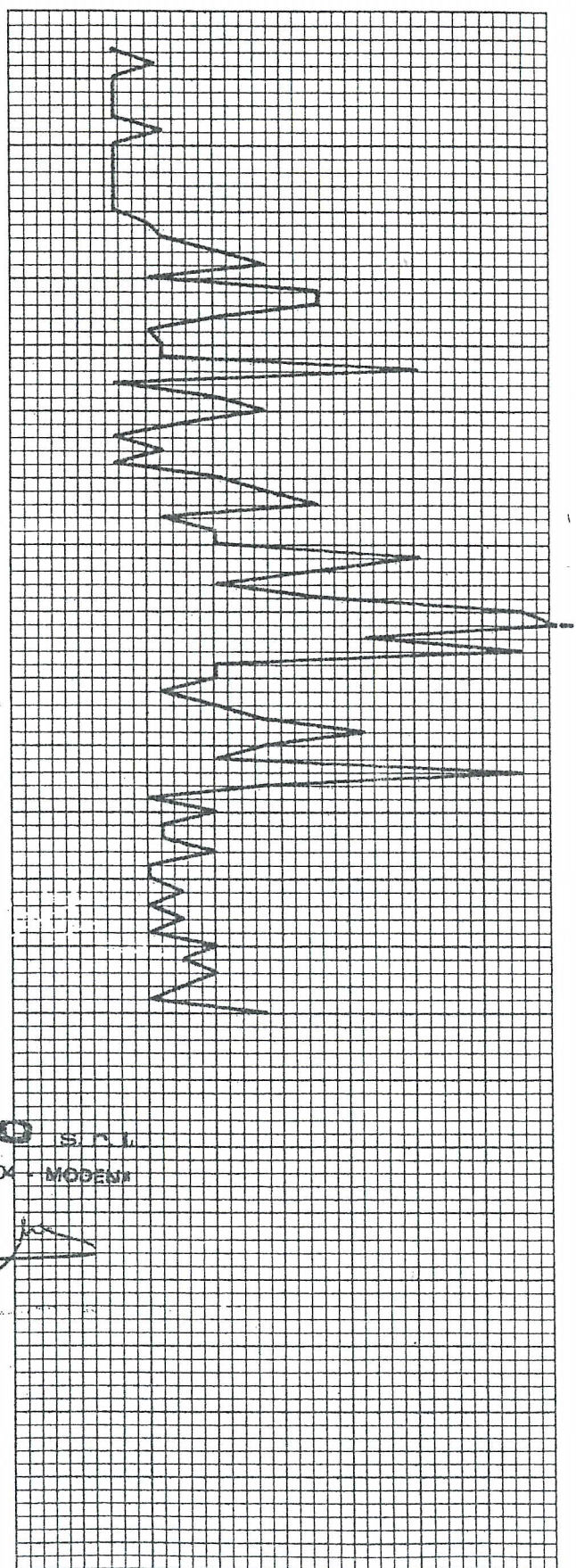
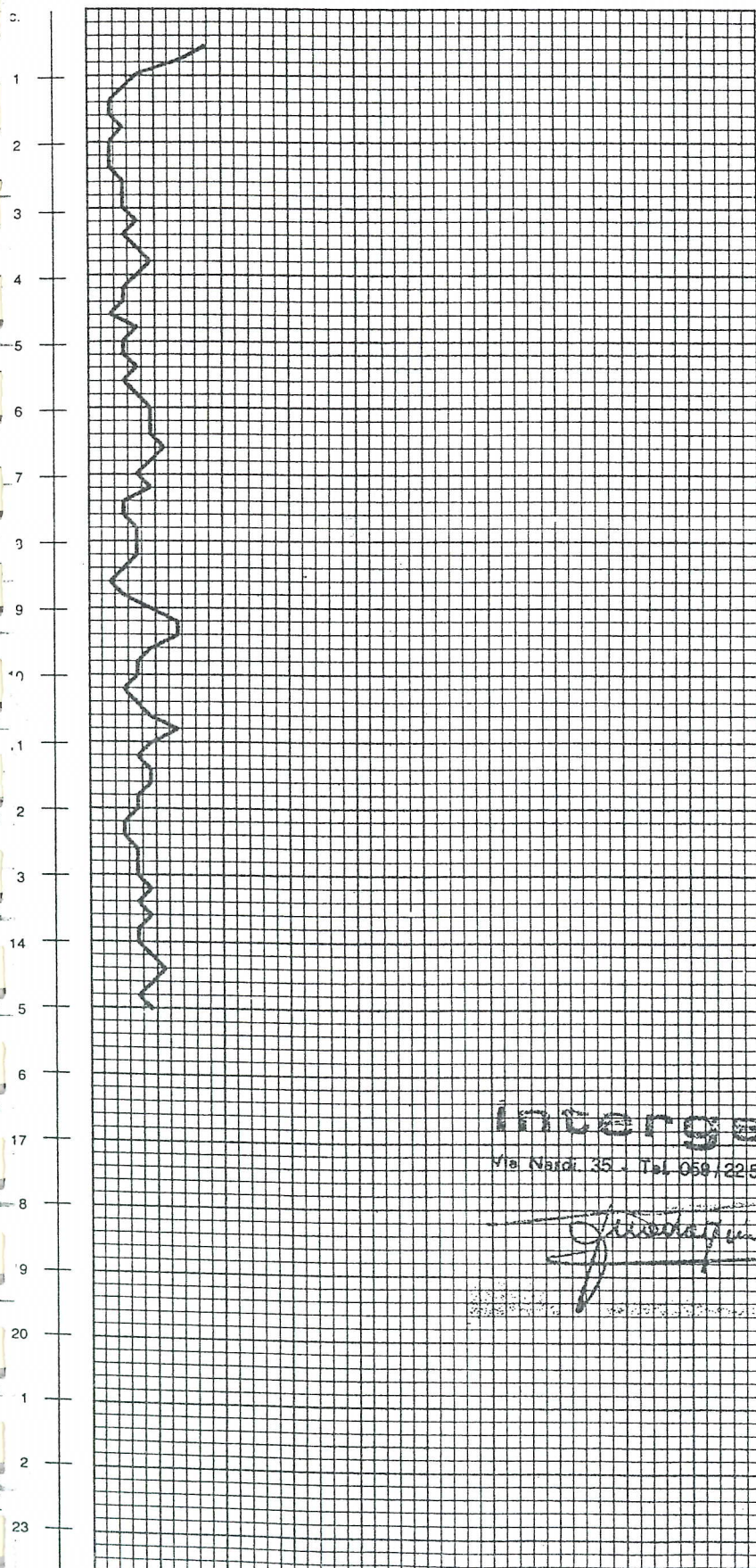
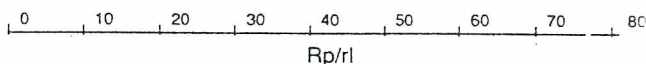
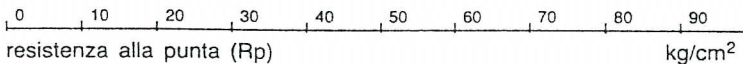
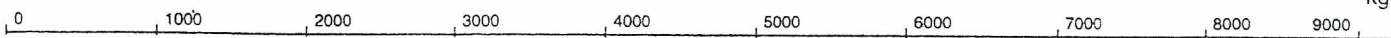
intergeo s.r.l.

41100 MODENA - VIA A. NARDI, 35 - TEL. (059) 225504 - FAX (059) 220738

prova n° 21 quota P.C.
località CAMPOGALLIANO
committente AMM. NE COM. LE
data 06/07/1990 operatore DR. REBECCHI

PENETROMETRO STATICO GOUDA

resistenza laterale totale



intergeo s.r.l.

Via Nardi, 35 - Tel. 059/225504 - MODENA

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Committente

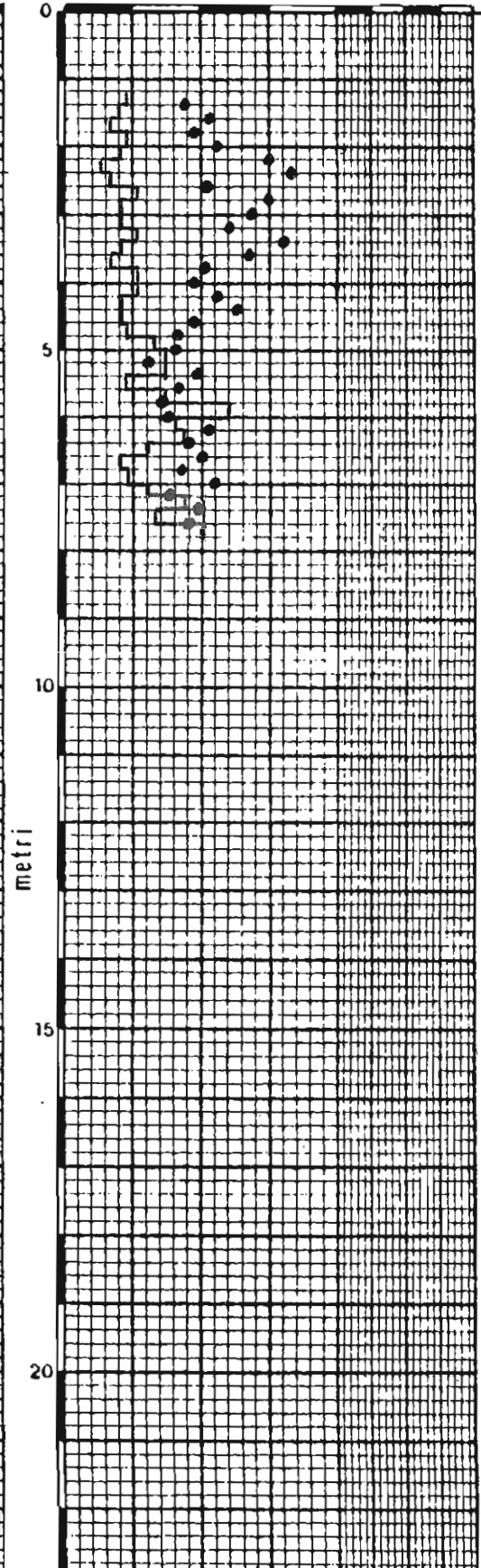
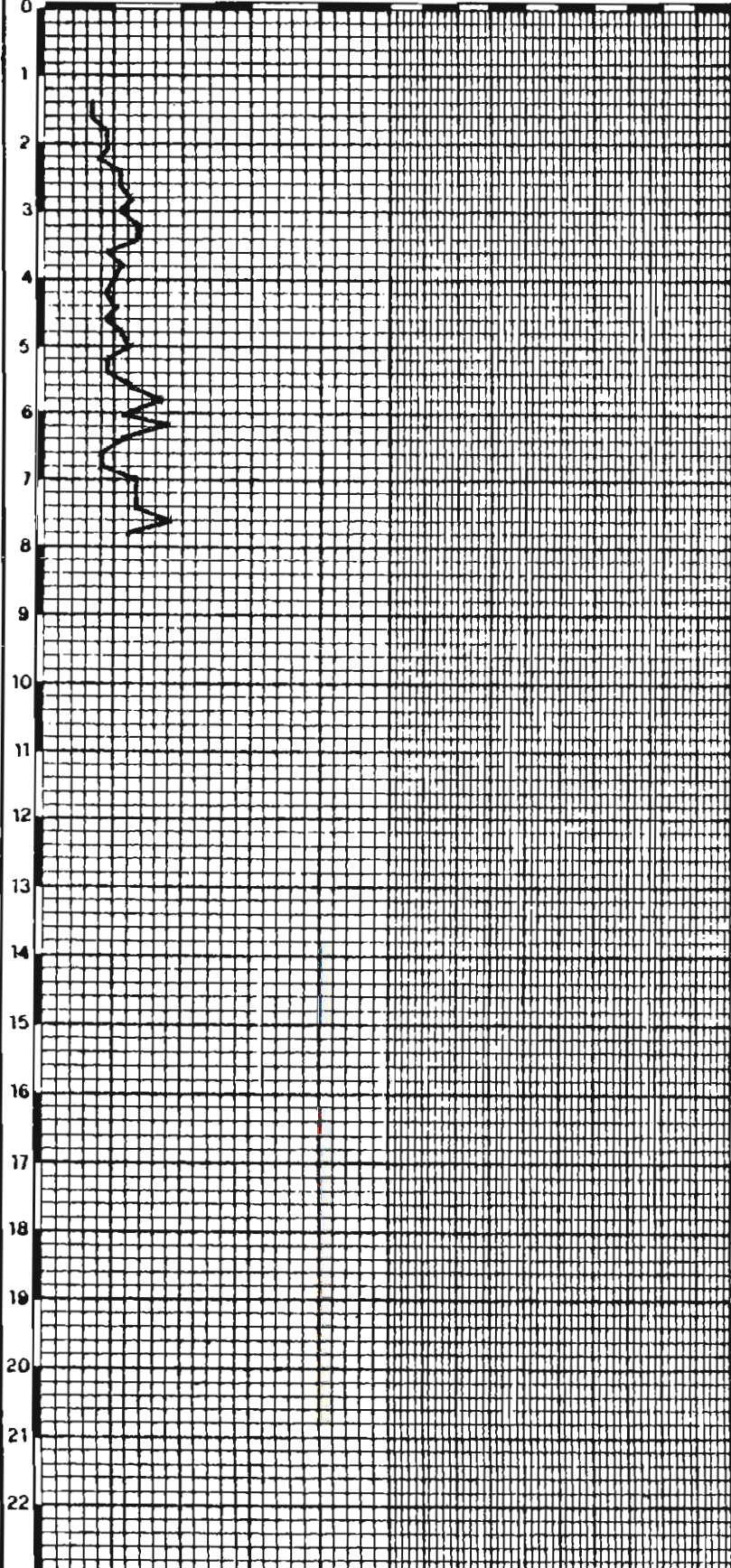
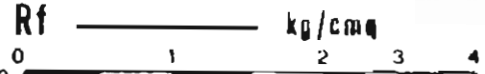
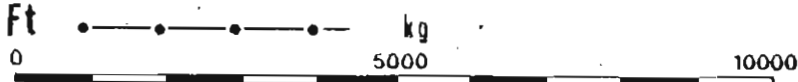
C.M.B. - CARPI (MO)

Localita

CAMPGALLIANO - CASELLO A22

Data

13/05/91



N2O

STUDIO GEOLOGICO
CENTROGEO

via Giotto, 13 - CORREGGIO RE
tel. 0522-641001

PENETROMETRIA N.

QUOTA INIZIALE PIANO STRADALE
ATTREZZO PEN STATICO 15 TON TM 16

SEZIONE GEOTECNICA

CAVAZZUTI - CULZONI

Committente

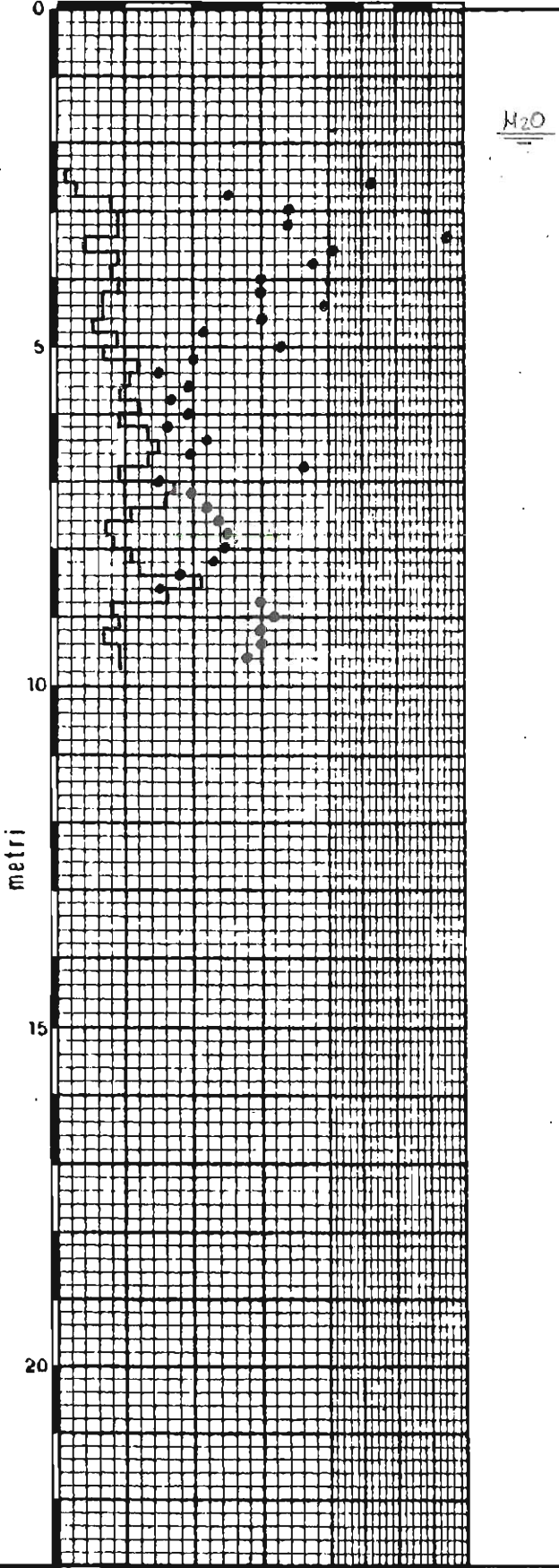
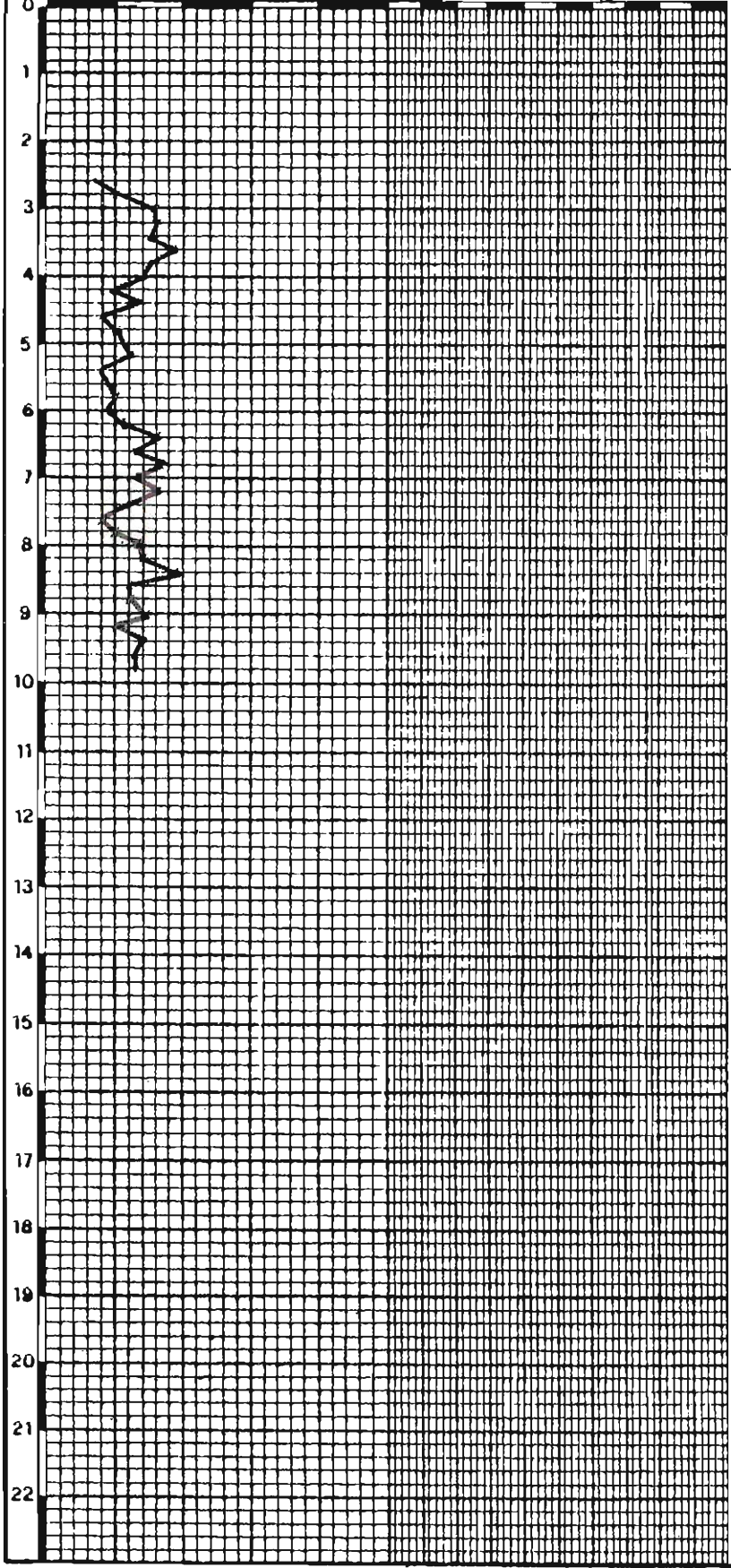
C.M.B. - CARPI (MO)

Localita

CAMPOGALLIANO - CASELLO A22

Data

13/05/91



STUDIO GEOLOGICO
CENTROGEO

via Giotto, 13 - CORREGGIO RE
tel. 0522-641001

PENETROMETRIA CPT143

QUOTA INIZIALE PIANO STRADALE
ATTREZZO PEN STATICO 15 TON TM 16

SEZIONE GEOTECNICA

CAVAZZUTI - CULZONI

Committente

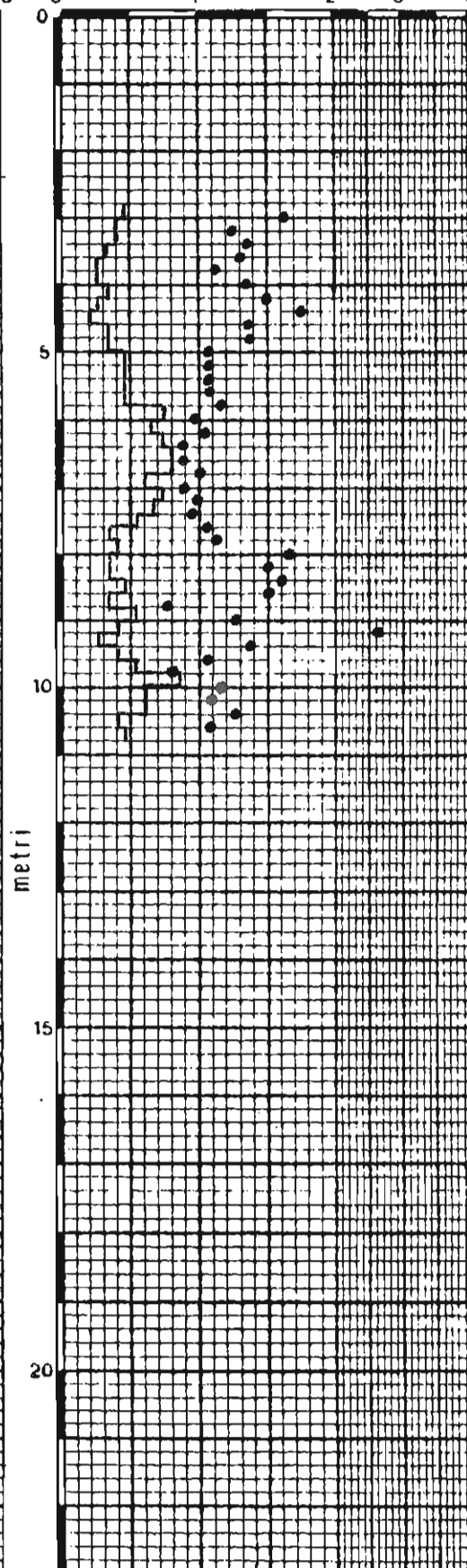
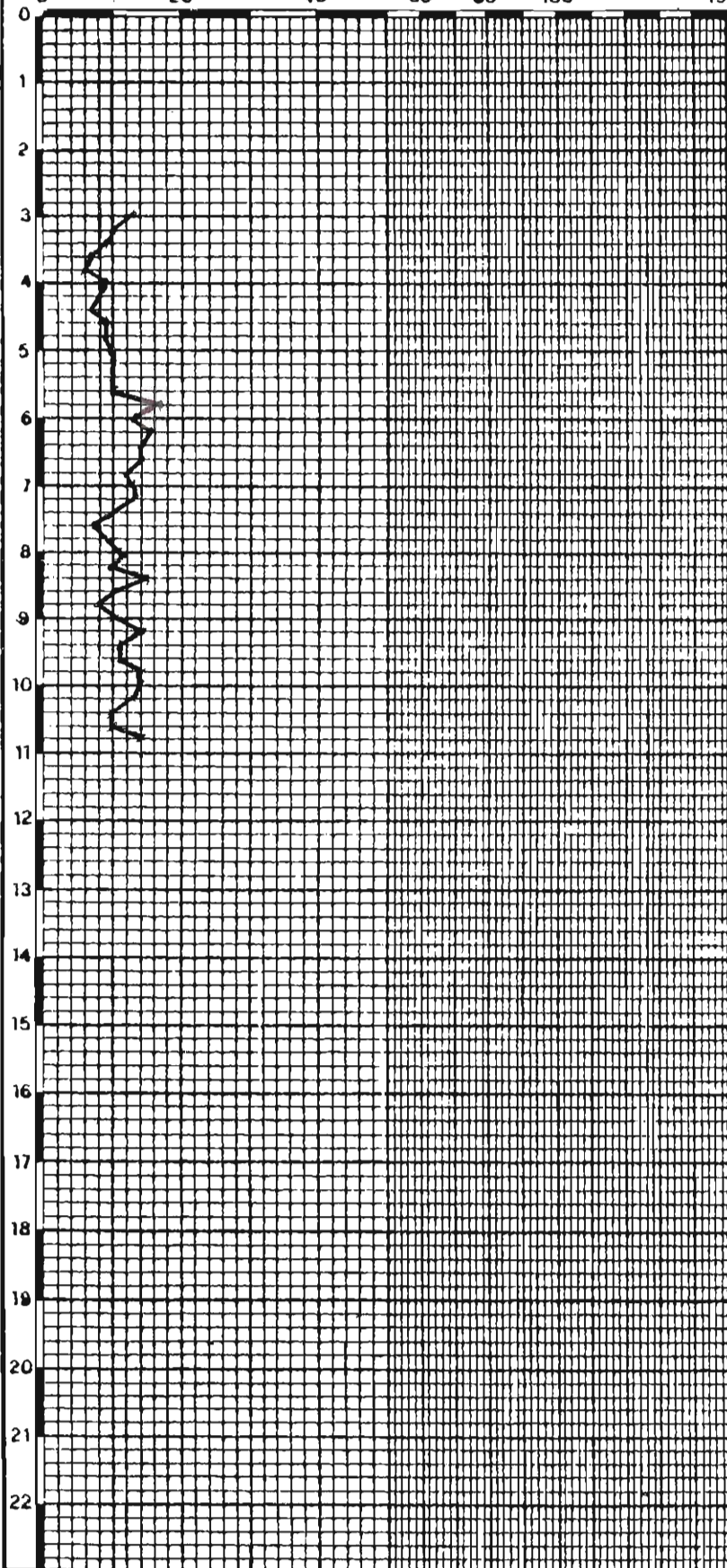
C.M.B. - CARPI (MO)

Localita

CAMPOGALLIANO - CASELLO A 22

Data

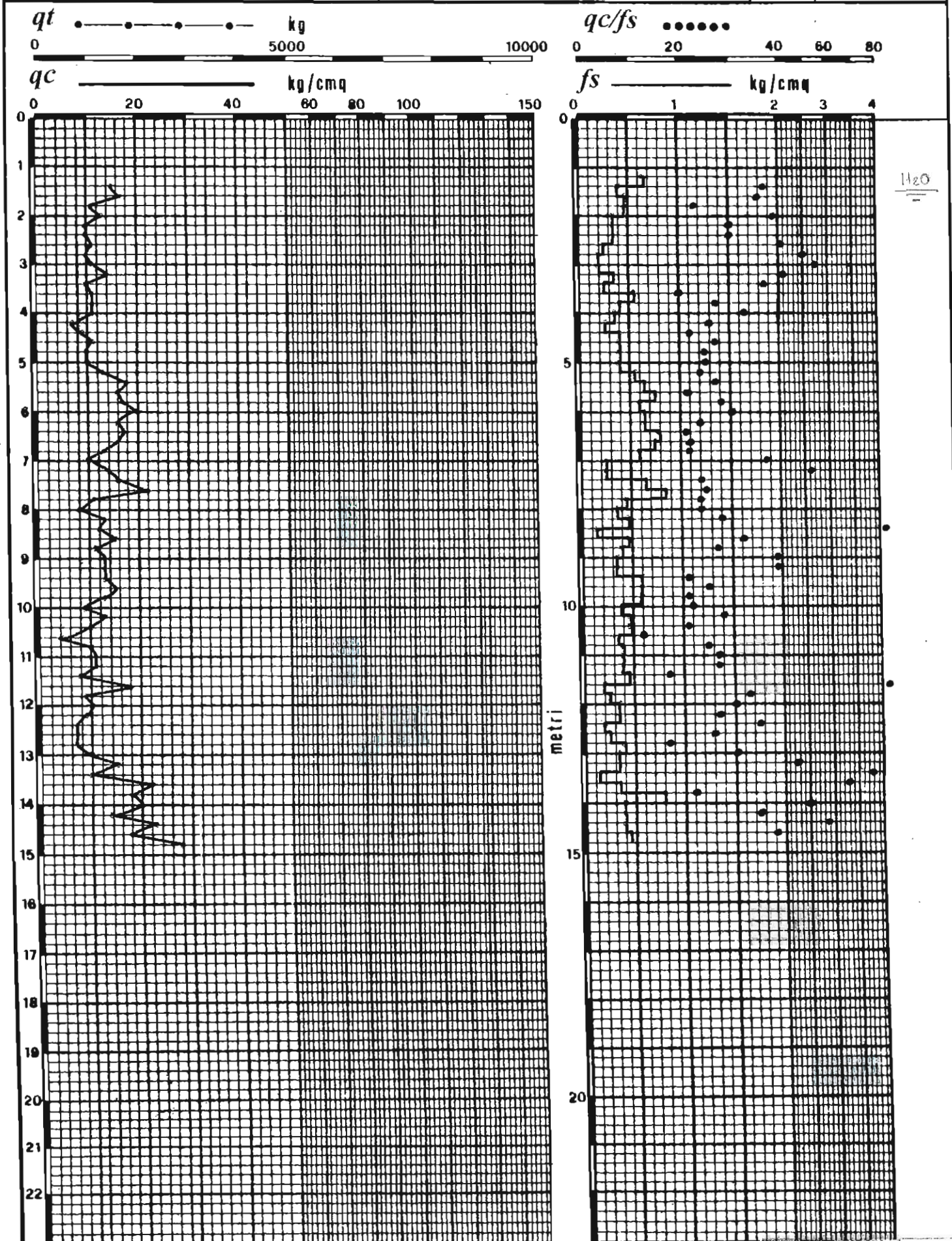
13/05/91



420

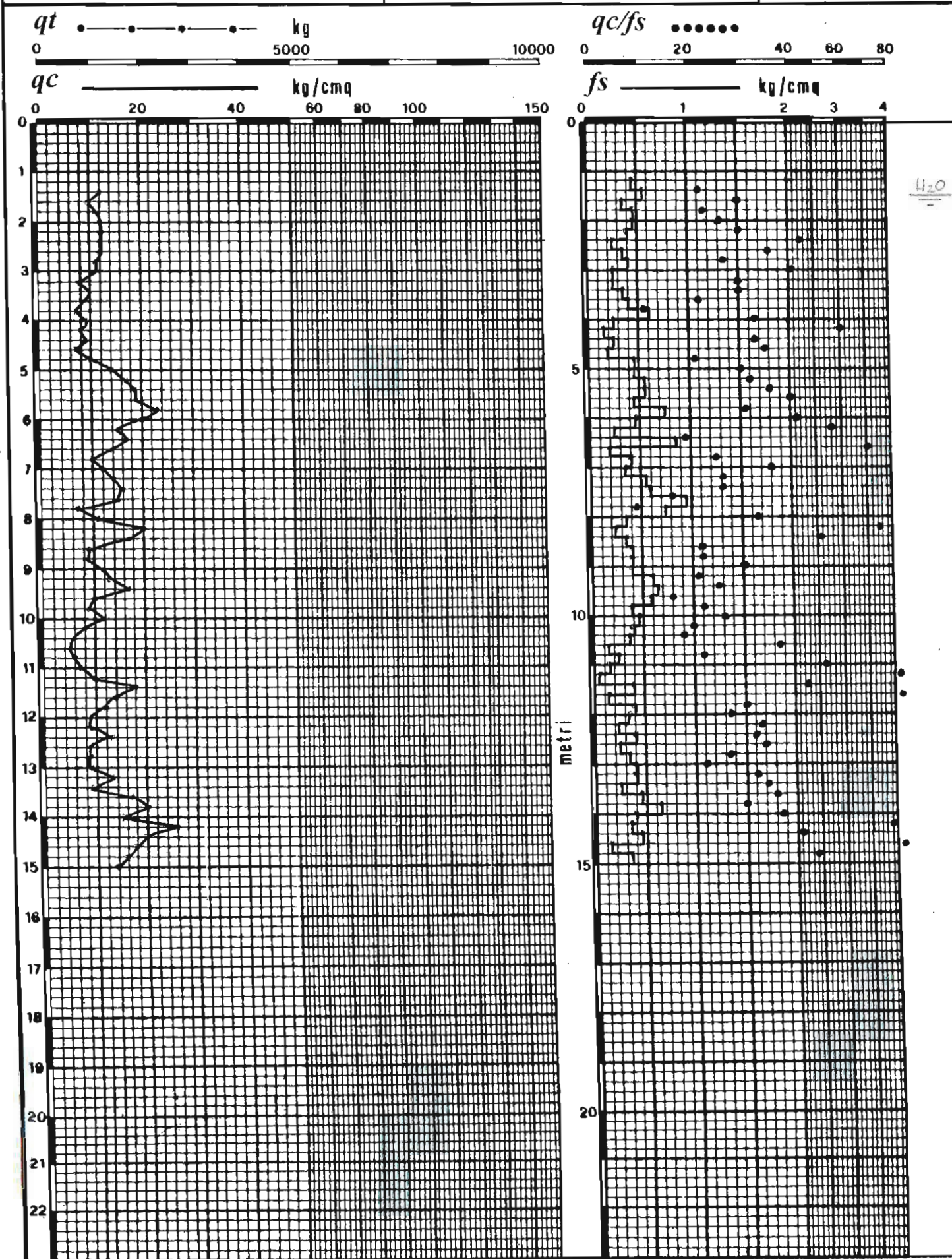
CPT144

STUDIO GEOLOGICO CENTROGEO Piazza S. Quirino, 6 - Correggio (RE) Tel. 0522/641001 - fax. 632162	PENETROMETRIA N. 2	SEZIONE GEOTECNICA
	QUOTA INIZIALE PIANO PIAZZALE ATTREZZO PEN. STATICO 15 TON TM 16	MAZZETTI M. BRUSCHI A.
Committente B.M.D. SNC	Localita CAMPOGALLIANO (MO)	Data 9/09/96



CPT145

STUDIO GEOLOGICO CENTROGEO Piazza S. Quirino, 6 - Correggio (RE) Tel. 0522/641001 - fax. 632162	PENETROMETRIA N. 3	SEZIONE GEOTECNICA
	QUOTA INIZIALE PIANO PIAZZALE ATTREZZO PEN. STATICO 15 TON TM 16	MAZZETTI M. BRUSCHI A.
Committente B.M.D. SNC	Localita CAMPOGALLIANO (MO)	Data 09/09/96



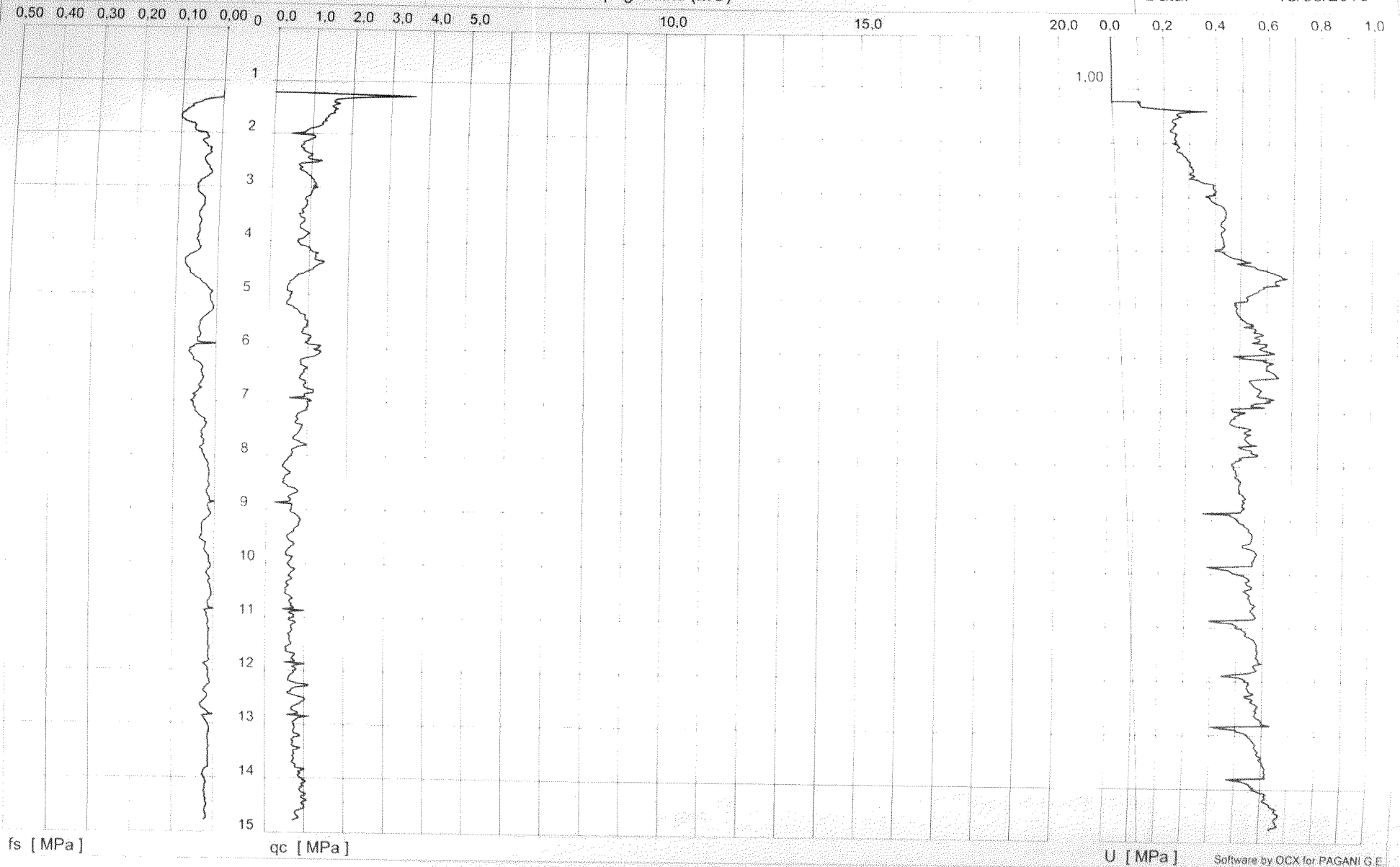
**PROVE
PENETROMETRICHE
STATICHE CPTU**

STUDIO GEOLOGICO CENTROGEO

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

Committente: Geo Group Srl
Località: Campogalliano (MO)

Quota:
Preforo: 1,20 m
Data: 15/03/2010




CPTU101



SONDAGGI MECCANICI


STUDIO GEOLOGICO CENTROGEO

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

 Snamprogetti	CLIENTE Snam Rete Gas S.p.A. SM101	COMMESSA 668005	UNITÀ 230
	LOCALITÀ Campogalliano (MO)	SPC. 230-LA-E-80043	
	PROGETTO / IMPIANTO Metanodotto Poggio Renatico - Cremona	Fg. 26 di 41	Rev. 1

APPENDICE 3: STRATIGRAFIA SONDAGGIO GEOGNOSTICO

 TECNOSOIL s.n.c. INDAGINI E RICERCHE DI INGEGNERIA GEOTECNICA TECNOSOIL s.n.c. di Pietramatre E. & C. Via Fontevicchia, 4 - 65010 SPOLTORE (PS) tel/fax 0854157065 - email: tecnosoil@tinwind.it Decreto di concessione n. 52694 del 11/10/2004 per prove geotecniche in situ (settore 03, al censo dell'art.8, comma 8 del D.P.R. 248		Verbale di accettazione n° 0040 del 25/06/2007 Rif. Int. Sc118	
CERTIFICATO N° 0147 foglio 1 di 1 data di emissione 30/07/2007			
STRATIGRAFIA DI SONDAGGIO Normativa di riferimento: Raccomandazioni A.G.I., 1977			
COMMITTENTE : SNAMPROGETTI S.p.a.		CODICE SONDAGGIO S 46	
OPERA : Metanodotto Poggio Renatico-Cremona		DATA Inizio 05/07/2007 Fine 05/07/2007	
LOCALITÀ : PIDI n° 12		OPERATORI : Sondatore Marinucci Aiuto Sondatore Sichini	
SCALA : 1 : 100	TIPO SONDA : CMV 600	DIAMETRO FORO: Iniziale/Finale 127/101 mm	GEOLOGO : PIERO D'ERCOLE
METODO PERFORAZIONE : Carotaggio continuo		CAMPIONATORE : Shelby	
CAROTIERE PROFONDITÀ DAL P.C. (m)	POTENZA DELLA FORAZIONE (m)	SEZIONE STRATIGRAFICA	DESCRIZIONE LITOLOGICA DELLE FORMAZIONI ATTRAVERSATE
0,6 5,2 6,8 7,2 8,0	0,8 1,4 0,8		Limo marrone consistente. Limi argillosi passanti ad argille limose di colore avana, talora grigio chiaro con screziature ocra, mediamente consistenti. Da quota 2,0-3,20 m la consistenza diviene tenera. Da 3,9-4,4 m livello costituito da sabbie poco addensate. Sabbie argillose di colore avana-grigiastro passante a grigio, poco addensate. Argille limose debolmentesabbiose grigie mediamente consistenti.
		RECUPERO CAROTTAGGIO (%) 20 40 60 80	POCKET PENETROMETER (kg/cm²) 1 2 3 4 5 6
		TORRE VANE (kg/cm²) 0,5 1,0 1,5	FALDA ACQUIFERA 1,30 4,5 5,0
		CAMPIONI PROVE PRESSOMETRICHE tipo prof N colpi	PROVE SPT PIEZOMETRO TUBO APERTO TUBI DI RIVESTIMENTO φ = 127 (mm)

 Snamprogetti	CLIENTE Snam Rete Gas S.p.A.	COMMESSA 668005	UNITÀ 230
	LOCALITÀ Campogalliano (MO)	SPC. 230-LA-E-80043	
	PROGETTO / IMPIANTO Metanodotto Poggio Renatico - Cremona	Fg. 27 di 41	Rev. 1



Cassa n. 1: da 0.00 a 5.00 m



Cassa n. 2: da 5.00 a 8.00 m