



## TABELLA RIASSUNTIVA MISURAZIONI DI BREVE PERIODO

Punto di misura	Recettore n°	Descrizione	Data	Ora misura	Durata misura (sec.)	Rumorosità misurata – (L <sub>eq</sub> - dB(A))			
						Periodo diurno		Periodo notturno	
						F.A. <sup>1</sup>	F.C. <sup>2</sup>	F.A.	F.C.
1	1	Scuola Elementare "Agnelli", frazione Riolo	22/02/07	10.28	2145	-	48,6+ 3 <sup>3</sup>	-	-
				11.06	4526	53,7	-	-	-
2	5	Scuole "Archinti", C.so Archinti 39	16/02/07	11.32	1809	-	40,6	-	-
				12.03	1594	45,2	-	-	-
3	7	Scuola Media Inferiore Statale "Ada Negri", Sezione di via X Maggio	21/02/07	10.53	2105	-	44,7	-	-
				11.29	2132	59,5	-	-	-
4	9	Scuola Elementare Statale "Barzaghi", via San Giacomo, 37	15/03/07	10.58	1811	-	41,2	-	-
				11.30	2136	56,8	-	-	-
5	12	Casa di cura "Santa Chiara", via P. Gorini	10/05/07	10.01	1519	-	43,3	-	-
				10.27	1505	57,0	-	-	-
			11/05/07	22.15	1508	-	-	-	43,3
6	18	Istituto Magistrale "Maffeo Vegio", via Carducci 3	08/03/07	11.08	1507	-	49,6	-	-
				11.34	1326	52,9	-	-	-
7	22	Istituti CFP "Luigi Clerici", via P. Gorini 6	22/02/07	08.46	2134	-	49,7	-	-
				09.24	2132	60,8	-	-	-
8	25	Scuola Materna "Don Gnocchi", via Madre Cabrini 22	20/02/07	11.03	1811	-	40,8	-	-
				11.35	1849	59,2	-	-	-
9	27	Polo Universitario, via A. Heistein località c.na Codazza	18/04/07	09.15	1821	-	43,4+ 3 <sup>4</sup>	-	-
				09.47	2112	55,1	-	-	-
10	29	Scuola Elementare Statale "Arcobaleno", via Tortini	08/03/07	15.14	1511	-	40,8	-	-
				15.41	1811	42,9	-	-	-

(continua)

- 1 F.A.: Finestre aperte  
 2 F.C.: Finestre chiuse  
 3 Presenza tono puro  
 4 Presenza tono puro

Comm. n.	09210	Cliente	Comune di Lodi		Tipo lavoro	Piano di risanamento acustico		
Emesso da	ing. Paolo Zaneboni	Validato da	ing. Edoardo Galatola		Referente aziendale	ing. Matteo Zanchi		
<i>Stato di revisione del documento</i>								
Rev.	00	Data agg.	21 giugno 2010	Tipo documento	Report Finale	N. pag.	1	di 4



## PIANO DI RISANAMENTO ACUSTICO

Punto di misura	Recettore n°	Descrizione	Data	Ora misura	Durata misura (sec.)	Rumorosità misurata – (L <sub>eq</sub> - dB(A))			
						Periodo diurno		Periodo notturno	
						F.A.	F.C.	F.A.	F.C.
11	30	Scuola Media Inferiore Statale “Cazzulani”, viale Dante 1	16/02/07	09.00	1509	-	44,7	-	-
				09.26	1509	51,0	-	-	-
				09.55	1506	-	49,0	-	-
				10.21	1261	51,7	-	-	-
12	35	Scuola Media Inferiore Statale “Don Milani” Via Salvemini 1	21/02/07	09.10	1836	-	43,1	-	-
				09.41	1831	57,4	-	-	-
13	40	Istituto Tecnico Industriale ITIS “A. Volta”, via Giovanni XXIII	06/03/07	11.01	2105	-	45,6	-	-
				11.39	2108	50,0	-	-	-
14	42	Scuola Elementare Statale “Pascoli”, via Veneto, 1	20/02/07	09.06	1813	-	46,6	-	-
				09.38	2404	52,2	-	-	-
15	45	Scuola Media Statale “Villa Igea”, via Villa Igea 53	05/03/07	10.35	2413	-	51,6	-	-
				11.16	2710	53,5	-	-	-
16	47	Via G. Amendola	11/4/07	16.00	3820	66,2	-	-	-
				22.00	3600	-	-	60,5	-
17	47	Via Lunigiana	11/4/07	17.35	3600	58,9	-	-	-
				23.17	3600	-	-	59,0	-
18	-	Via Battaglie di Cassano	21/3/07	7.40	3430	53,5	-	-	-
				22.10	3615	-	-	47,0	-
19	-	Via Della Gera D’Adda	20/3/07	17.20	3620	58,6	-	-	-
				22.00	3860	-	-	52,5	-
20	-	Sottopasso via Lodivecchio con viale Sforza	22/3/07	08.05	3650	69,8	-	-	-
				22.00	3636	-	-	64,8	-
21	-	Parco comunale Isola Carolina, viale Dalmazia	20/4/07	15.10	1510	64,9	-	-	-
				15.36	1210	58,4	-	-	-
				15.57	910	55,5	-	-	-
				16.13	910	56,2	-	-	-
				16.30	1850	57,7	-	-	-
				17.00	910	60,4	-	-	-
				17.20	600	55,6	-	-	-

Comm. n.	09210	Cliente	Comune di Lodi		Tipo lavoro	Piano di risanamento acustico			
Emesso da	ing. Paolo Zaneboni		Validato da	ing. Edoardo Galatola		Referente aziendale	ing. Matteo Zanchi		
<i>Stato di revisione del documento</i>									
Rev.	00	Data agg.	21 giugno 2010	Tipo documento	Report Finale	N. pag.	2	di	4



## TABELLA RIASSUNTIVA MISURAZIONI DI LUNGO PERIODO

Punto di misura	Recettore n°	Descrizione	Data	Ora misura	Durata misura (sec.)	Rumorosità misurata – (L <sub>eq</sub> - dB(A))					
						Periodo diurno			Periodo notturno		
						Amb. esterno. <sup>5</sup>	F.A.	F.C.	Amb. esterno	F.A.	F.C.
A	48	Via C. Besana (24 ore) Sottopasso via San Colombano	10/04/07	10.38	41880	73,8	-	-	-	-	-
				22.00	28800	-	-	-	67,8	-	-
				06.00	16746	73,9	-	-	-	-	-
B	29	Via G. Marchi (24 ore)	01/03/07	17.20	16619	61,3	-	-	-	-	-
				22.00	28800	-	-	-	61,9	-	-
				06.00	39600	62,2	-	-	-	-	-
C	47	Via C. Marzagalli (24 ore) (Tangenziale)	11/04/07	11.40	38400	58,8	-	-	-	-	-
				22.00	28800	-	-	-	51,8	-	-
				06.00	23400	59,5	-	-	-	-	-
D	2	Scuola Materna "Campo di Marte", affacciata su via F. Cavallotti (6 ore)	19/02/07	07.48	1806	-	-	39,7	-	-	-
				08.19	1806	-	57,0	-	-	-	-
				08.50	3607	-	-	40,6	-	-	-
				9.51	3882	-	56,9	-	-	-	-
				10.57	3959	-	-	40,5	-	-	-
				12.04	4714	-	55,2	-	-	-	-
				13.23	1896	-	-	40,3	-	-	-
13.55	1802	-	56,8	-	-	-	-				
E	11	Ospedale Maggiore Lodi (24 ore)	18/04/07	13.20	3743	-	55,7	-	-	-	-
				14.23	4095	-	-	44,2	-	-	-
				15.31	6033	-	55,9	-	-	-	-
				17.12	5405	-	-	44,1	-	-	-
				18.43	12604	-	54,5	-	-	-	-
				22.14	3611	-	-	-	-	-	39,6
				23.14	2455	-	-	-	-	51,0	-
				00.00	21600	-	-	-	-	47,4	-
06.00	28900	56,8	-	-	-	-	-				

(continua)

<sup>5</sup> Amb. esterno: misura eseguita in ambiente esterno

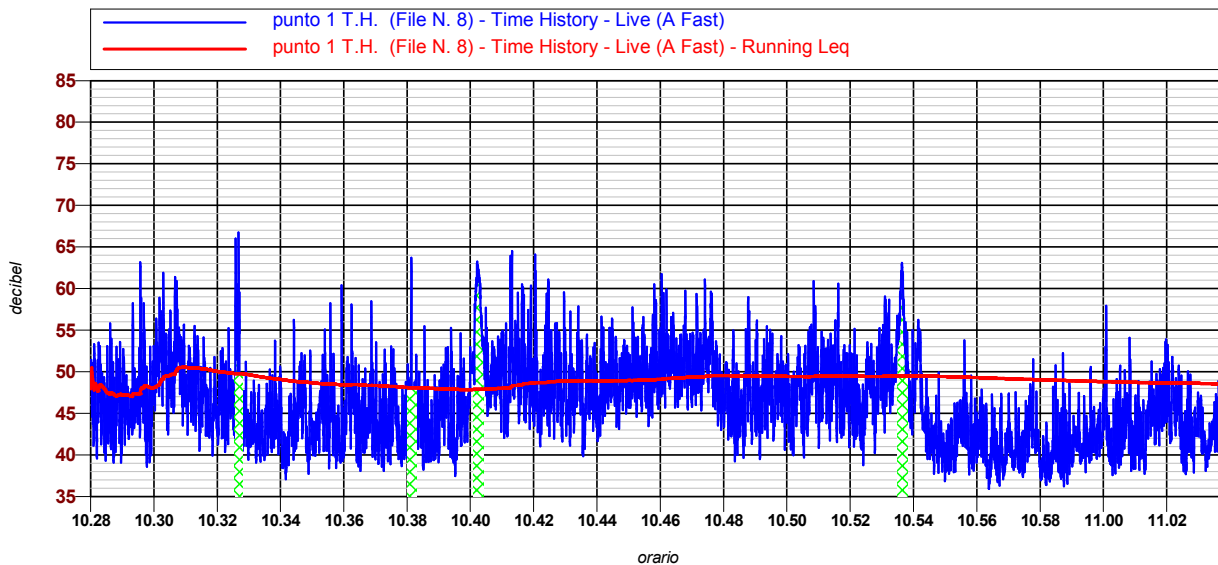
Comm. n.	09210	Cliente	Comune di Lodi		Tipo lavoro	Piano di risanamento acustico	
Emesso da	ing. Paolo Zaneboni	Validato da	ing. Edoardo Galatola		Referente aziendale	ing. Matteo Zanchi	
<i>Stato di revisione del documento</i>							
Rev.	00	Data agg.	21 giugno 2010	Tipo documento	Report Finale	N. pag.	3 di 4



Punto di misura	Recettore n°	Descrizione	Data	Ora misura	Durata misura (sec.)	Rumorosità misurata – (L <sub>eq</sub> - dB(A))					
						Periodo diurno			Periodo notturno		
						Amb. esterno. <sup>6</sup>	F.A.	F.C.	Amb. esterno	F.A.	F.C.
F	-	Via Marescalca (24 ore)	12/04/07	14.00	28800	64,8	-	-	-	-	-
				06.00	28800	-	-	-	57,8	-	-
				22.00	34250	65,4	-	-	-	-	-

<sup>6</sup> Amb. esterno: misura eseguita in ambiente esterno

Comm. n.	09210	Cliente	Comune di Lodi		Tipo lavoro	Piano di risanamento acustico	
Emesso da	ing. Paolo Zaneboni		Validato da	ing. Edoardo Galatola		Referente aziendale	ing. Matteo Zanchi
<i>Stato di revisione del documento</i>							
Rev.	00	Data agg.	21 giugno 2010	Tipo documento	Report Finale	N. pag.	4 di 4



**Nome** punto 1 T.H. (File N. 8)

**Località** scuola elementare " Agnelli", Riolo

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale  
centro stanza a finestre chiuse  
classe V piano primo affacciata su S.S.472  
periodo diurno  
eventi mascherati: rumori provenienti interno aule e  
traffico veicolare transitante ed in sosta al semaforo

**Leq:** 48.6 dB(A)

**L01:** 57.7 dB(A)

**L05:** 53.7 dB(A)

**L10:** 52.0 dB(A)

**L50:** 45.7 dB(A)

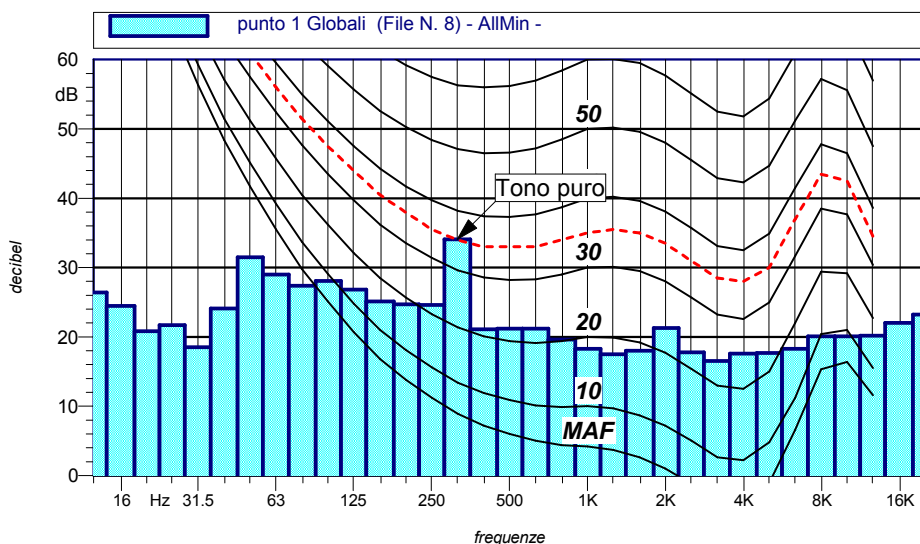
**L90:** 40.3 dB(A)

**L95:** 39.3 dB(A)

**L99:** 37.9 dB(A)

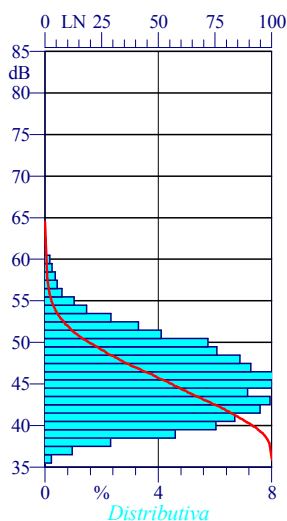
**LFmax:** 64.5 dB(A)

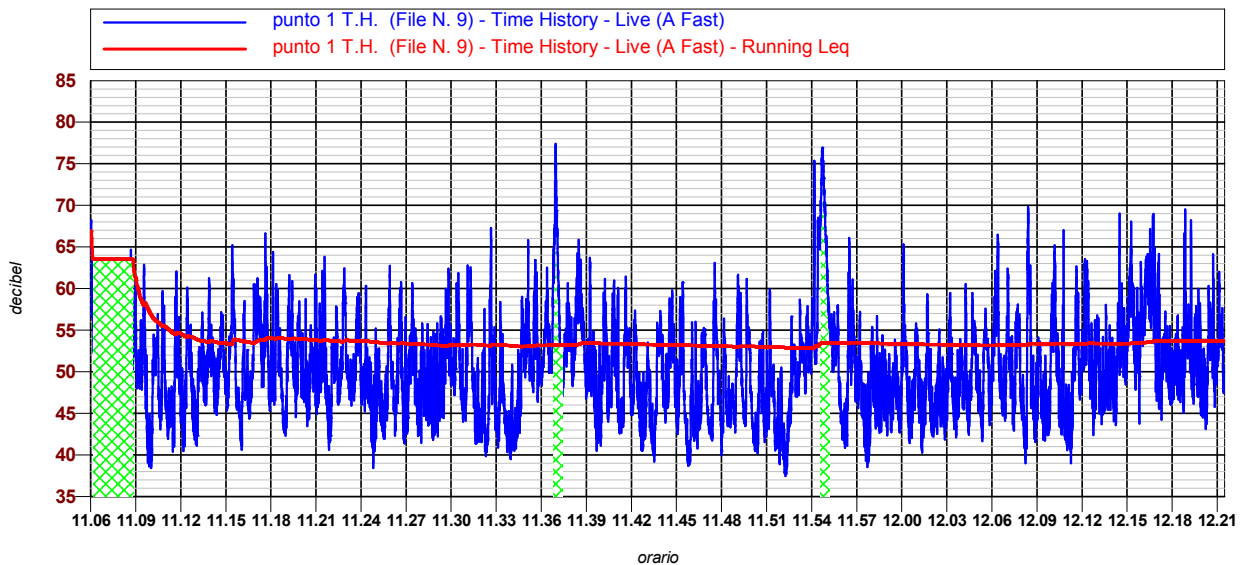
**LFmin:** 35.9 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	26.4	63	29.0	315	34.1	1600	18.0	8000	20.1
16	24.5	80	27.4	400	21.1	2000	21.3	10000	20.1
20	20.8	100	28.1	500	21.2	2500	17.8	12500	20.2
25	21.7	125	26.8	630	21.2	3150	16.5	16000	22.0
31.5	18.5	160	25.1	800	19.6	4000	17.6	20000	23.2
40	24.1	200	24.7	1000	18.3	5000	17.7		
50	31.5	250	24.6	1250	17.5	6300	18.3		

punto 1 T.H. (File N. 8) - Time History - Live (A Fast)  
punto 1 T.H. (File N. 8) - Time History - Live (A Fast)  
Cumulativa





**Nome** punto 1 T.H. (File N. 9)

**Leq:** 53.7 dB(A)

**Località** scuola elementare " Agnelli ", Riolo

**Data:** 22/02/2007

**L01:** 63.7 dB(A)

**Strumentazione** Larson-Davis 824

**Ora:** 11.06.44

**L05:** 59.4 dB(A)

**Calibratore** Larson-Davis CAL 200

**Durata:** 4526 sec

**L10:** 56.9 dB(A)

**Operatore** P. Zaneboni, D. Ciceri

**Intervallo:** 0.125 sec

**L50:** 49.6 dB(A)

**Note**

Misure di rumore ambientale ad un metro dalla finestra aperta classe V piano primo affacciata su S.S. 472 periodo diurno  
eventi mascherati: rumori provenienti interno aule e da traffico veicolare transitante ed in sosta al semaforo

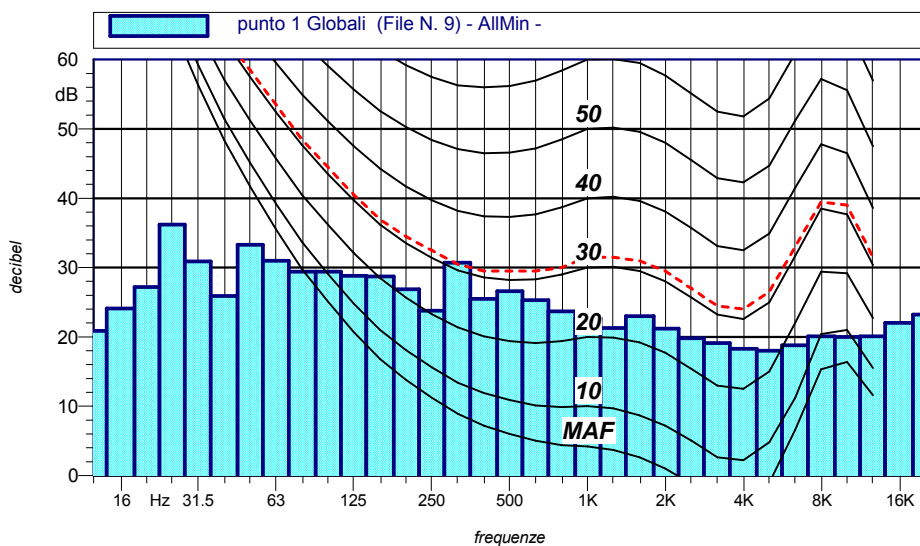
**L90:** 43.5 dB(A)

**L95:** 42.3 dB(A)

**L99:** 40.3 dB(A)

**LFmax:** 75.4 dB(A)

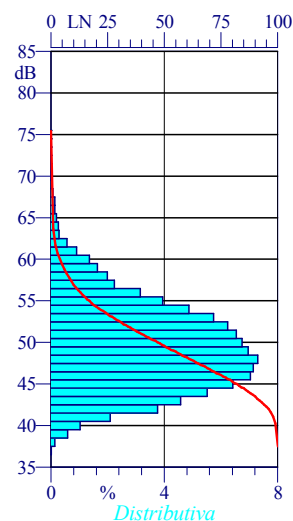
**LFmin:** 37.5 dB(A)

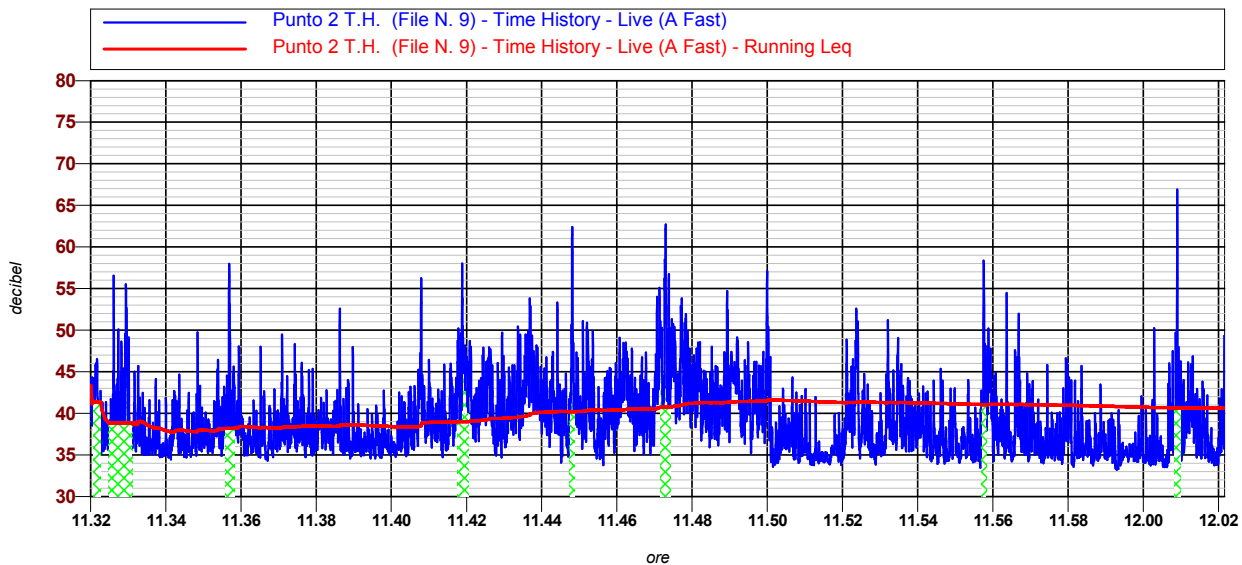


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	20.9	63	31.0	315	30.7	1600	23.0	8000	20.1
16	24.1	80	29.4	400	25.5	2000	21.2	10000	20.0
20	27.2	100	29.4	500	26.6	2500	19.8	12500	20.1
25	36.2	125	28.8	630	25.3	3150	19.1	16000	22.0
31.5	30.9	160	28.7	800	23.7	4000	18.3	20000	23.2
40	25.9	200	26.9	1000	22.7	5000	18.0		
50	33.3	250	23.8	1250	21.3	6300	18.8		

punto 1 T.H. (File N. 9) Time History - Live (A Fast)

Cumulativa





**Nome** Punto 2 T.H. (File N. 9)

**Località** scuola elementare "Archinti"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
centro stanza a finestre chiuse  
aula 4<sup>a</sup>B primo piano, verso viale Dalmazia  
periodo diurno  
eventi mascherati: rumori provenienti da interno aule

**Data:** 16/02/2007

**Ora:** 11.32.20

**Durata:** 1809 sec

**Intervallo:** 0.125 sec

**Leq:** 40.6 dB(A)

**L01:** 49.5 dB(A)

**L05:** 45.5 dB(A)

**L10:** 43.6 dB(A)

**L50:** 37.8 dB(A)

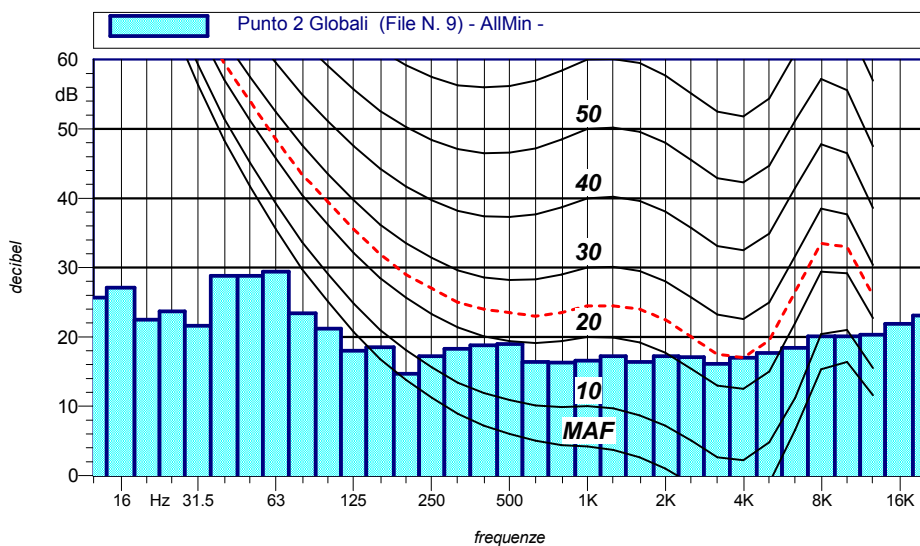
**L90:** 34.9 dB(A)

**L95:** 34.5 dB(A)

**L99:** 33.9 dB(A)

**LFmax:** 57.1 dB(A)

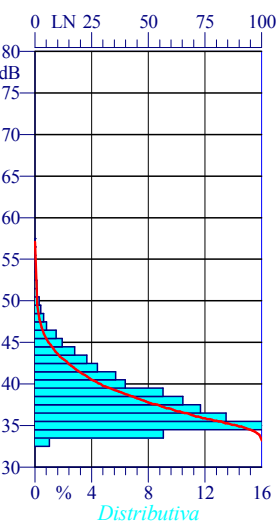
**LFmin:** 33.2 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	25.7	63	29.4	315	18.3	1600	16.4	8000	20.1
16	27.1	80	23.4	400	18.8	2000	17.2	10000	20.1
20	22.5	100	21.2	500	19.0	2500	17.1	12500	20.3
25	23.7	125	18.0	630	16.4	3150	16.1	16000	21.9
31.5	21.6	160	18.5	800	16.3	4000	17.0	20000	23.1
40	28.8	200	14.7	1000	16.6	5000	17.7		
50	28.8	250	17.2	1250	17.2	6300	18.4		

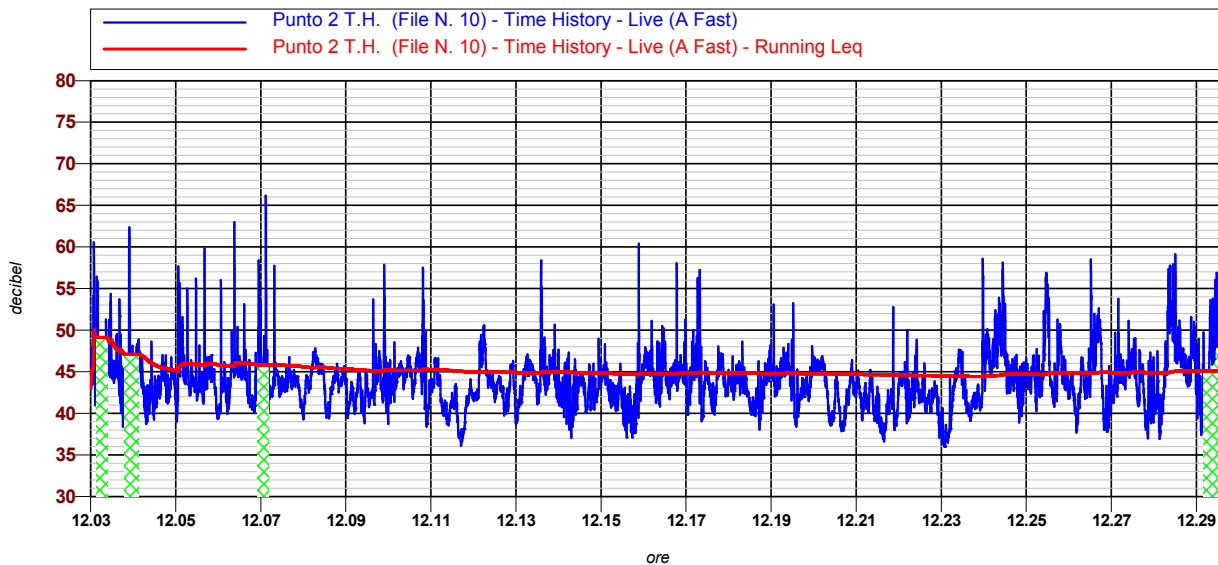
Punto 2 T.H. (File N. 9) - Time History - Live (A Fast)

Cumulativa



Distributiva





**Nome** Punto 2 T.H. (File N. 10)

Località scuola elementare "Archinti"

Strumentazione Larson-Davis 824

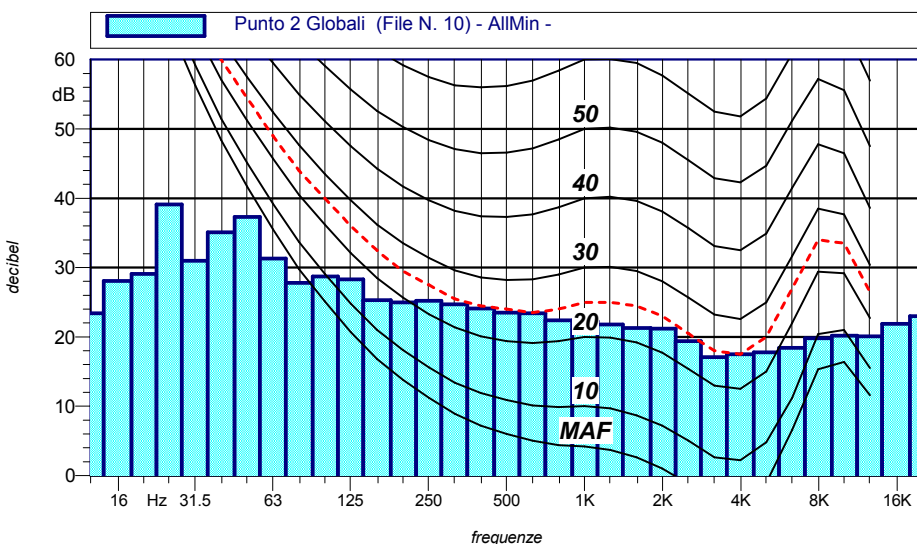
Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note misure di rumore ambientale ad un metro dalla finestra aperta aula 4<sup>a</sup>B primo piano, verso viale Dalmazia periodo diurno eventi mascherati: rumori provenienti da interno aule

Data: 16/02/2007  
Ora: 12.03.15  
Durata: 1594 sec  
Intervallo: 0.125 sec

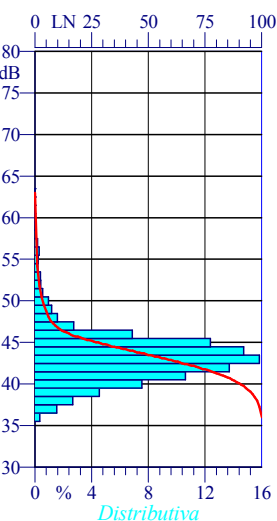
**Leq:** 45.2 dB(A)  
**L01:** 54.2 dB(A)  
**L05:** 48.8 dB(A)  
**L10:** 46.8 dB(A)  
**L50:** 43.5 dB(A)  
**L90:** 40.1 dB(A)  
**L95:** 39.1 dB(A)  
**L99:** 37.3 dB(A)  
**LFmax:** 63.0 dB(A)  
**LFmin:** 36.0 dB(A)



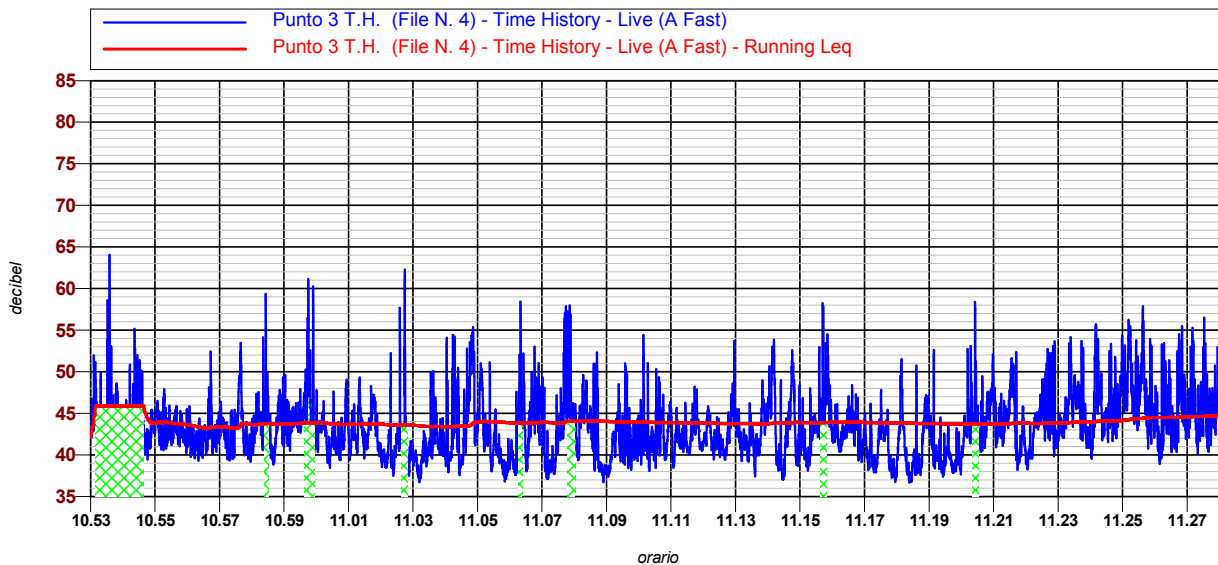
Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	23.4	63	31.3	315	24.7	1600	21.3	8000	19.8
16	28.1	80	27.8	400	24.1	2000	21.2	10000	20.2
20	29.1	100	28.7	500	23.5	2500	19.4	12500	20.1
25	39.1	125	28.3	630	23.4	3150	17.1	16000	21.9
31.5	31.0	160	25.3	800	22.4	4000	17.5	20000	23.0
40	35.1	200	25.0	1000	22.3	5000	17.8		
50	37.3	250	25.2	1250	21.8	6300	18.4		

Punto 2 T.H. (File N. 10) - Time History - Live (A Fast)

Cumulativa







**Nome** **Punto 3 T.H. (File N. 4)**

**Località** scuola media infeiore " Ada Negri "

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula di scienza piano primo  
affacciata su via X Maggio  
periodo diurno  
eventi mascherati: colpi clacson,  
auto con motore acceso in sosta al semaforo

**Leq:** 44.7 dB(A)

**L01:** 53.2 dB(A)

**L05:** 49.7 dB(A)

**L10:** 47.5 dB(A)

**L50:** 42.7 dB(A)

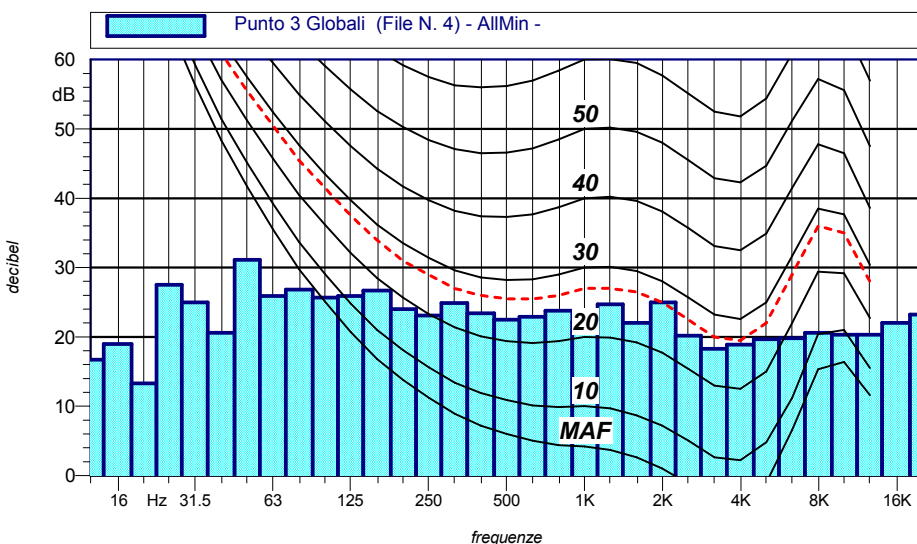
**L90:** 39.2 dB(A)

**L95:** 38.3 dB(A)

**L99:** 37.5 dB(A)

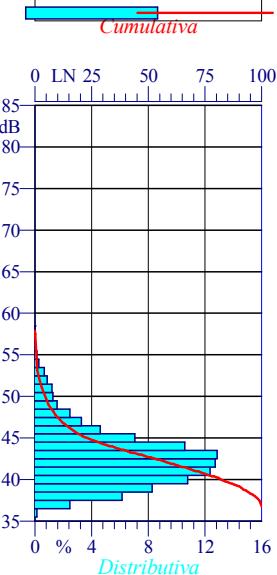
**LFmax:** 57.9 dB(A)

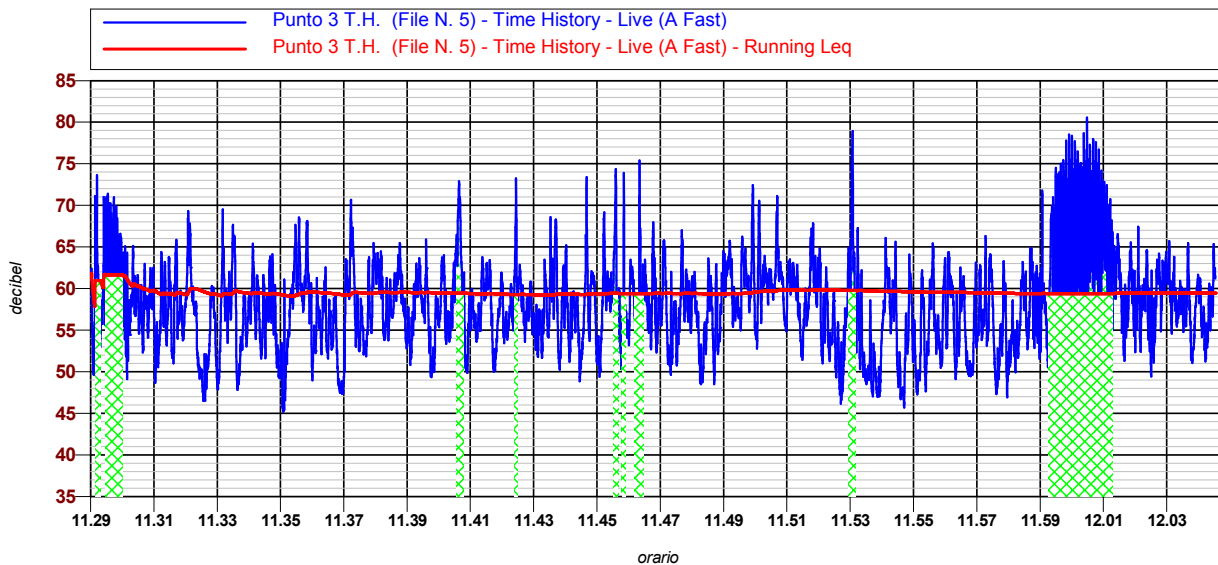
**LFmin:** 36.7 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	16.7	63	25.9	315	24.9	1600	22.0	8000	20.6
16	19.0	80	26.8	400	23.4	2000	25.0	10000	20.3
20	13.3	100	25.7	500	22.5	2500	20.2	12500	20.3
25	27.5	125	25.9	630	22.9	3150	18.3	16000	22.0
31.5	25.0	160	26.7	800	23.8	4000	18.9	20000	23.2
40	20.6	200	24.0	1000	22.2	5000	19.7		
50	31.1	250	23.1	1250	24.7	6300	19.8		

Punto 3 T.H. (File N. 4) - AllMin -  
Punto 3 T.H. (File N. 4)  
Time History - Live (A Fast)





**Nome** **Punto 3 T.H. (File N. 5)**

Località *scuola media infeiore " Ada Negri "*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale ad un metro dalla finestra aperta aula di scieza piano primo affacciata su via X Maggio periodo diurno eventi mascherati: colpi di clacson, auto con motore acceso in sosta al semaforo*

**Leq:** **59.5 dB(A)**

**L01:** **67.4 dB(A)**

**L05:** **64.1 dB(A)**

**L10:** **62.7 dB(A)**

**L50:** **57.5 dB(A)**

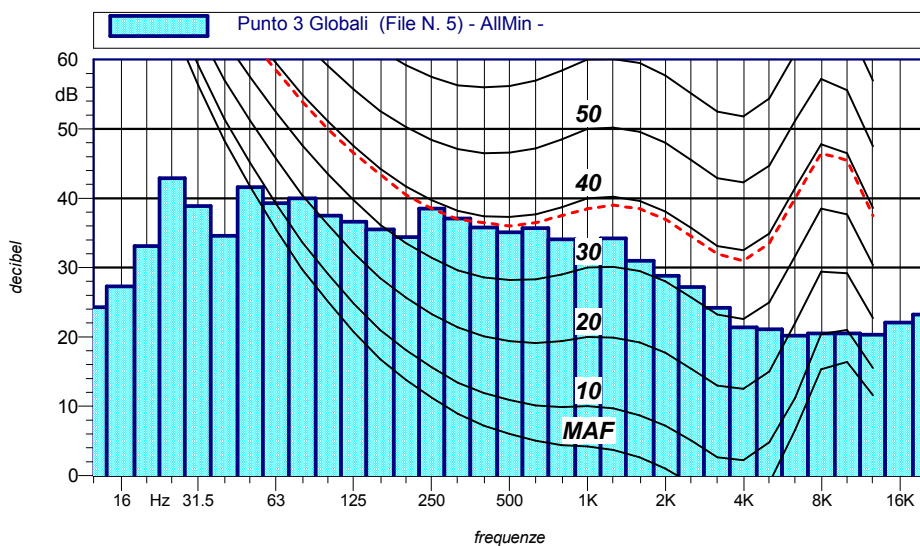
**L90:** **51.1 dB(A)**

**L95:** **49.5 dB(A)**

**L99:** **47.6 dB(A)**

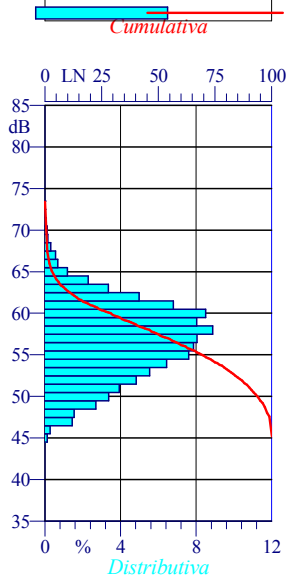
**LFmax:** **73.4 dB(A)**

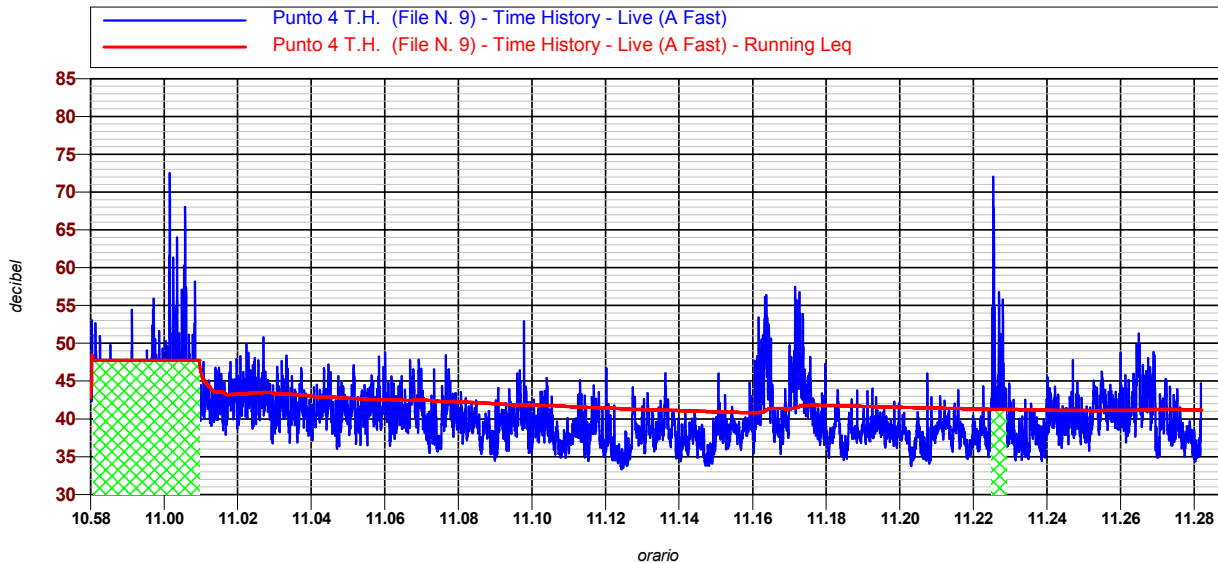
**LFmin:** **45.2 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	24.3	63	39.3	315	37.1	1600	31.0	8000	20.5
16	27.3	80	40.0	400	35.8	2000	28.8	10000	20.5
20	33.1	100	37.5	500	35.1	2500	27.2	12500	20.3
25	42.9	125	36.6	630	35.7	3150	24.2	16000	22.1
31.5	38.9	160	35.5	800	34.1	4000	21.4	20000	23.2
40	34.6	200	34.4	1000	32.7	5000	21.1		
50	41.6	250	38.5	1250	34.2	6300	20.2		

Punto 3 T.H. (File N. 5) - Time History - Live (A Fast) - Cumulativa





**Nome** Punto 4 T.H. (File N. 9)

**Località** Scuola elementare Barzaghi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misura di rumore ambientale  
piano primo, centro stanza a finestre chiuse  
classe 4<sup>a</sup>B affacciata su via San Giacomo  
periodo diurno  
eventi mascherati: rumori da percussione tombino ghisa esterno

**Leq:** 41.2 dB(A)

**L01:** 49.2 dB(A)

**L05:** 45.2 dB(A)

**L10:** 43.6 dB(A)

**L50:** 39.3 dB(A)

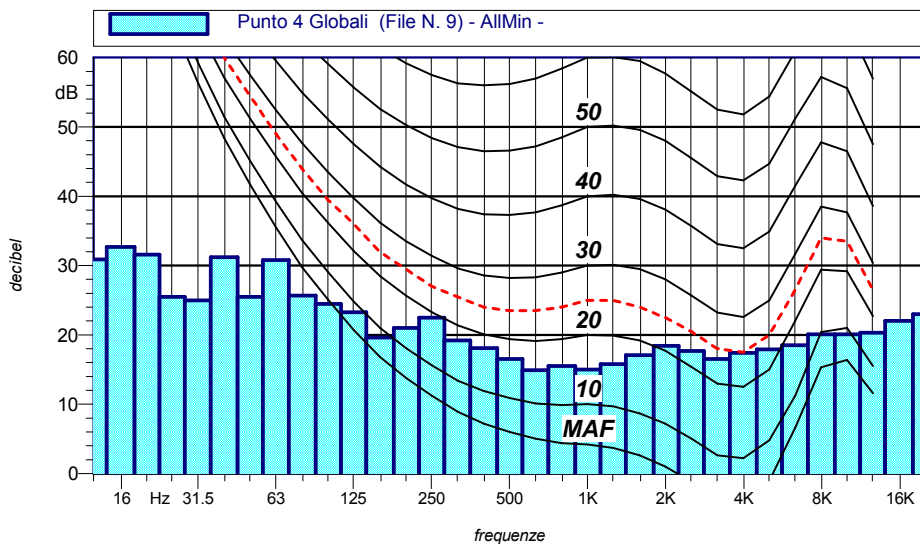
**L90:** 36.2 dB(A)

**L95:** 35.5 dB(A)

**L99:** 34.5 dB(A)

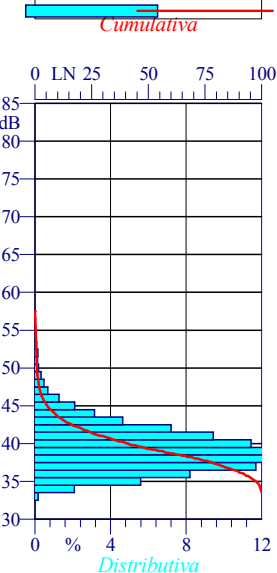
**LFmax:** 57.5 dB(A)

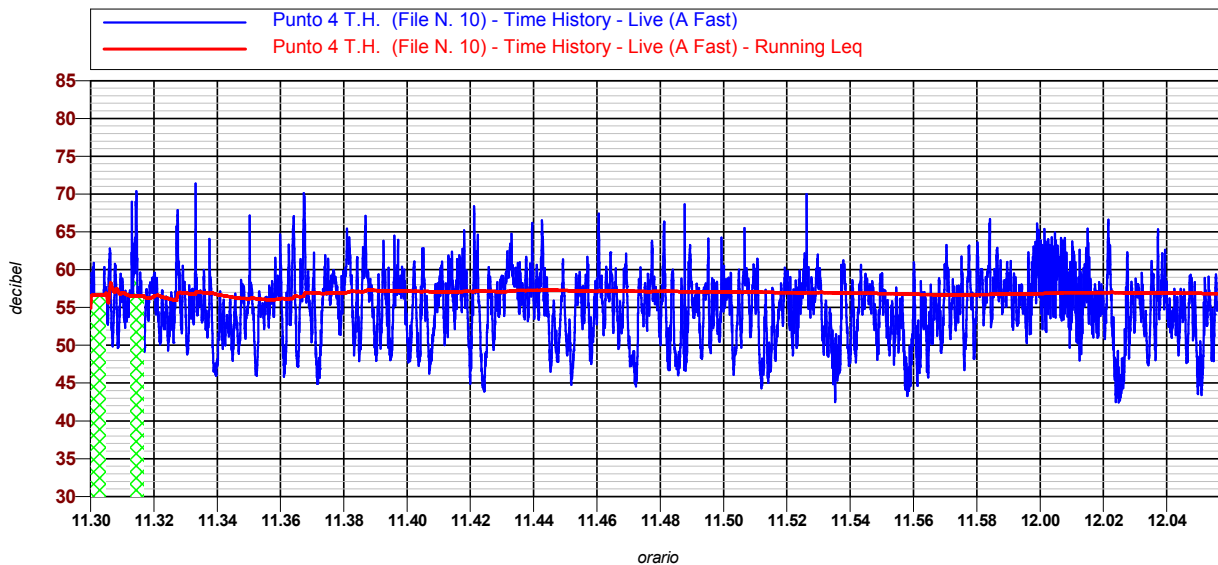
**LFmin:** 33.4 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.9	63	30.8	315	19.2	1600	17.1	8000	20.1
16	32.7	80	25.7	400	18.1	2000	18.4	10000	20.1
20	31.6	100	24.5	500	16.5	2500	17.7	12500	20.3
25	25.5	125	23.3	630	14.9	3150	16.5	16000	22.0
31.5	25.0	160	19.6	800	15.5	4000	17.4	20000	23.0
40	31.2	200	21.0	1000	15.0	5000	17.9		
50	25.5	250	22.5	1250	15.8	6300	18.5		

Punto 4 T.H. (File N. 9) - AllMin -  
Punto 4 T.H. (File N. 9) - Time History - Live (A Fast)





**Nome** **Punto 4 T.H. (File N. 10)**

Località *scuola elementare Barzaghi*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *misura di rumore ambientale  
piano primo, ad un metro dalla finestra aperta  
classe 4<sup>a</sup>B affacciata su via San Giacomo  
periodo diurno  
eventi mascherati: rumori da percussione tambino ghisa esterno*

**Leq:** **56.8 dB(A)**

**L01:** **64.4 dB(A)**

**L05:** **61.2 dB(A)**

**L10:** **59.7 dB(A)**

**L50:** **55.4 dB(A)**

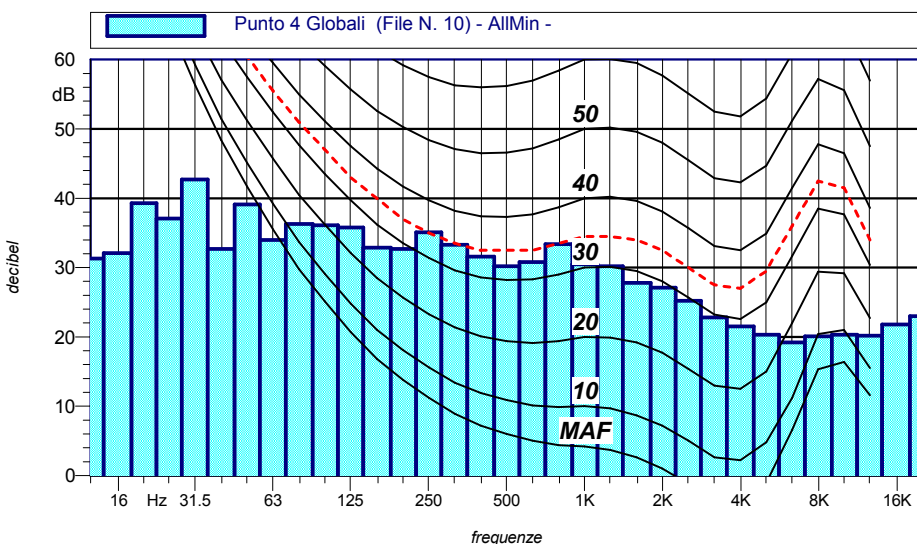
**L90:** **48.7 dB(A)**

**L95:** **47.2 dB(A)**

**L99:** **44.9 dB(A)**

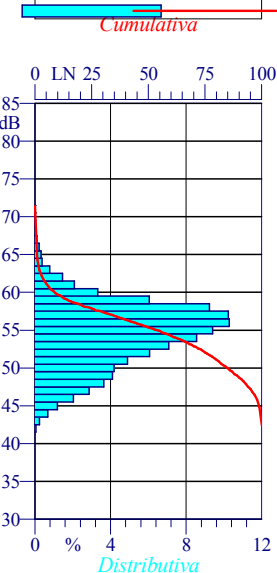
**LFmax:** **71.4 dB(A)**

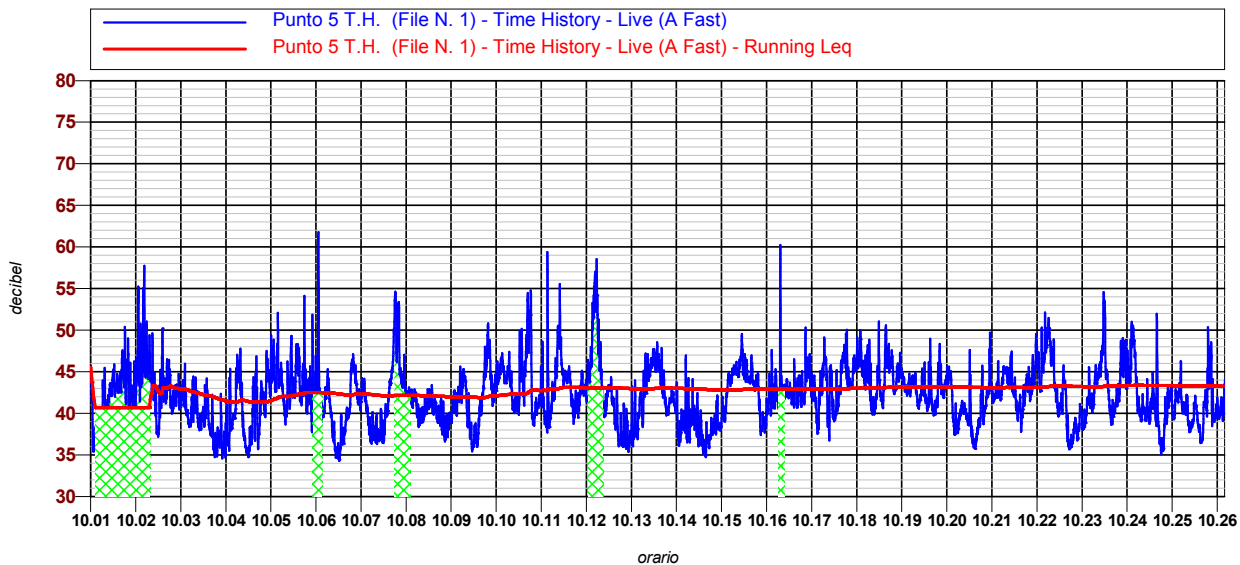
**LFmin:** **42.4 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	31.3	63	34.0	315	33.3	1600	27.8	8000	20.1
16	32.1	80	36.3	400	31.6	2000	27.1	10000	20.3
20	39.3	100	36.1	500	30.2	2500	25.2	12500	20.2
25	37.1	125	35.8	630	30.8	3150	22.8	16000	21.8
31.5	42.7	160	32.9	800	33.4	4000	21.5	20000	23.0
40	32.7	200	32.7	1000	30.5	5000	20.3		
50	39.1	250	35.1	1250	30.2	6300	19.2		

Punto 4 T.H. (File N. 10) - AllMin -  
Punto 4 T.H. (File N. 10) - Time History - Live (A Fast)





**Nome** **Punto 5 T.H. (File N. 1)**

**Località** Casa di Cura Santa Chiara, via P. Gorini

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
ala ovest piano primo  
centro stanza a finestre chiuse, sala affacciata su via P. Gorini  
periodo diurno  
eventi mascherati: rumore proveniente da passaggio infermieri  
verso spogliatoi e personale addetto alle pulizie con carrelli

**Leq:** 43.3 dB(A)

**L01:** 50.3 dB(A)

**L05:** 47.2 dB(A)

**L10:** 46.0 dB(A)

**L50:** 41.8 dB(A)

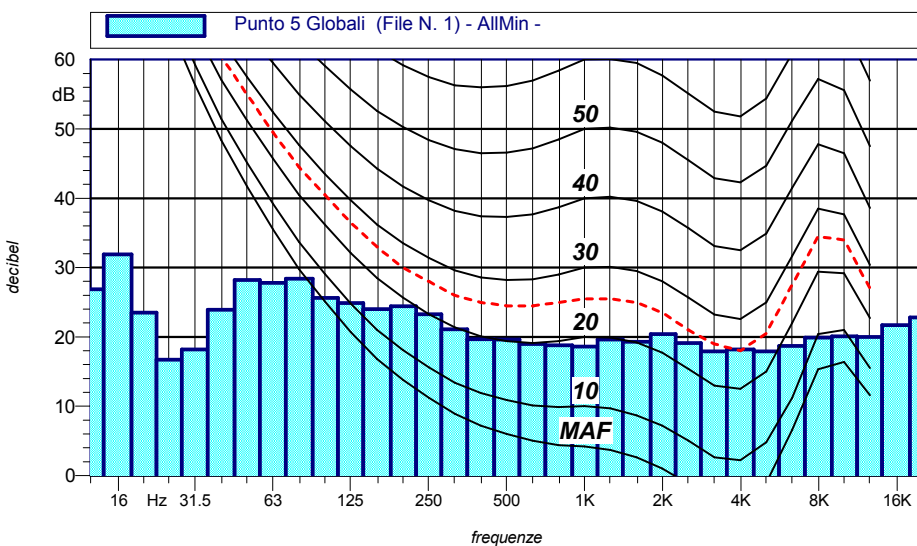
**L90:** 37.7 dB(A)

**L95:** 36.6 dB(A)

**L99:** 35.5 dB(A)

**LFmax:** 59.4 dB(A)

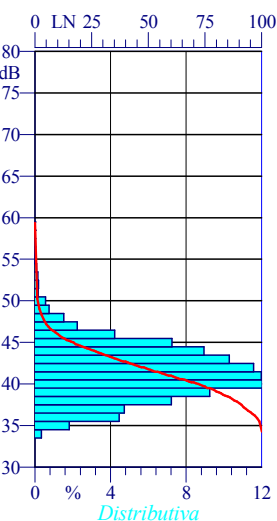
**LFmin:** 34.3 dB(A)

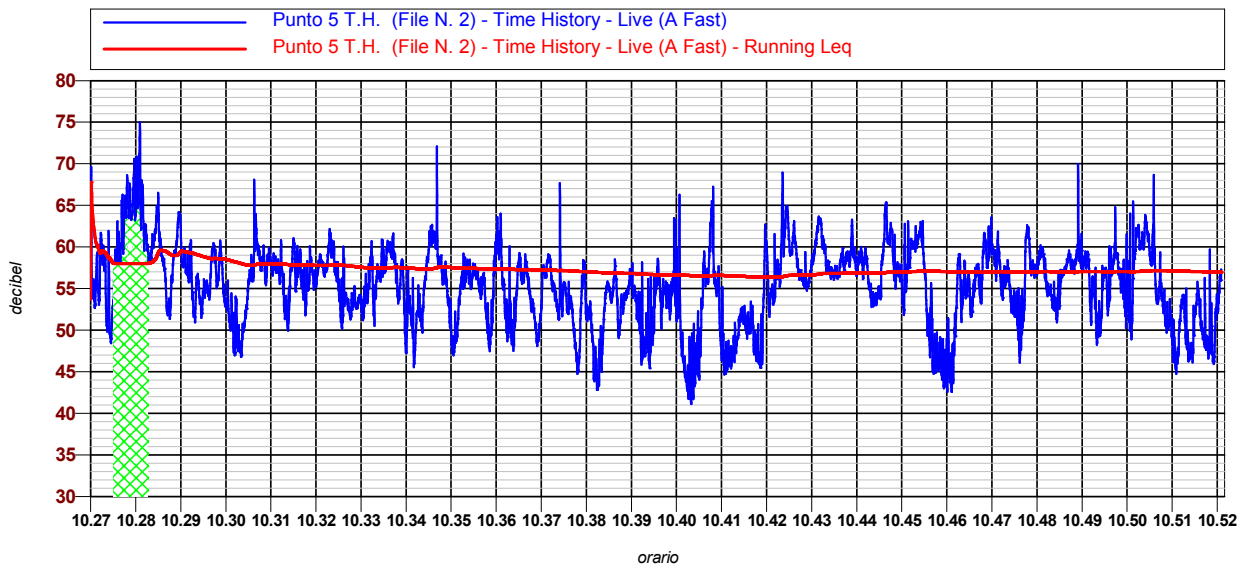


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	26.9	63	27.8	315	21.1	1600	19.3	8000	19.9
16	31.9	80	28.4	400	19.7	2000	20.4	10000	20.1
20	23.5	100	25.6	500	19.6	2500	19.1	12500	20.0
25	16.7	125	24.9	630	19.0	3150	17.9	16000	21.7
31.5	18.2	160	24.0	800	18.8	4000	18.2	20000	22.8
40	23.9	200	24.4	1000	18.6	5000	17.9		
50	28.2	250	23.3	1250	19.6	6300	18.7		

Punto 5 T.H. (File N. 1) - AllMin -  
Time History - Live (A Fast)

Cumulativa





**Nome** **Punto 5 T.H. (File N. 2)**

**Località** Casa di Cura Santa Chiara, via P. Gorini

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
ala ovest piano primo  
ad un metro dalla finestra aperta, sala affacciata su via P. Gorini  
periodo diurno  
eventi mascherati: rumore proveniente da passaggio infermieri  
verso spogliatoi, da personale addetto alle pulizie con carrelli e  
da tutte attività svolte nel cortile interno

**Leq:** 57.0 dB(A)

**L01:** 63.9 dB(A)

**L05:** 61.5 dB(A)

**L10:** 60.2 dB(A)

**L50:** 55.5 dB(A)

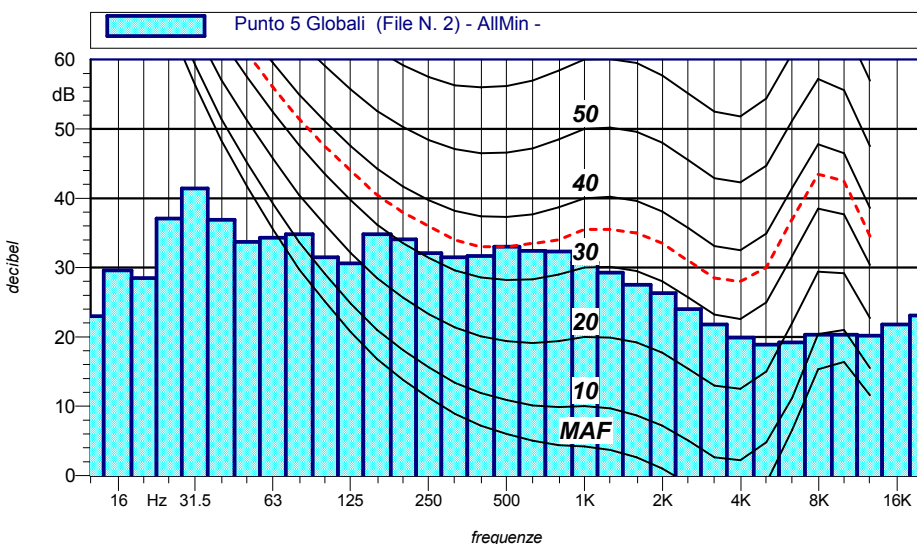
**L90:** 48.4 dB(A)

**L95:** 46.7 dB(A)

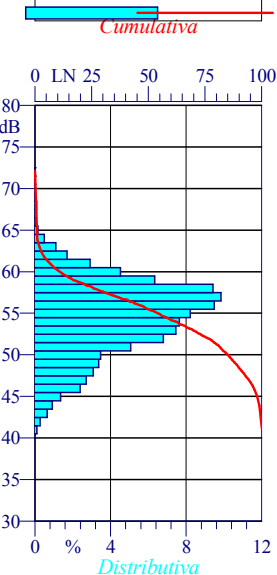
**L99:** 43.9 dB(A)

**LFmax:** 72.1 dB(A)

**LFmin:** 41.1 dB(A)

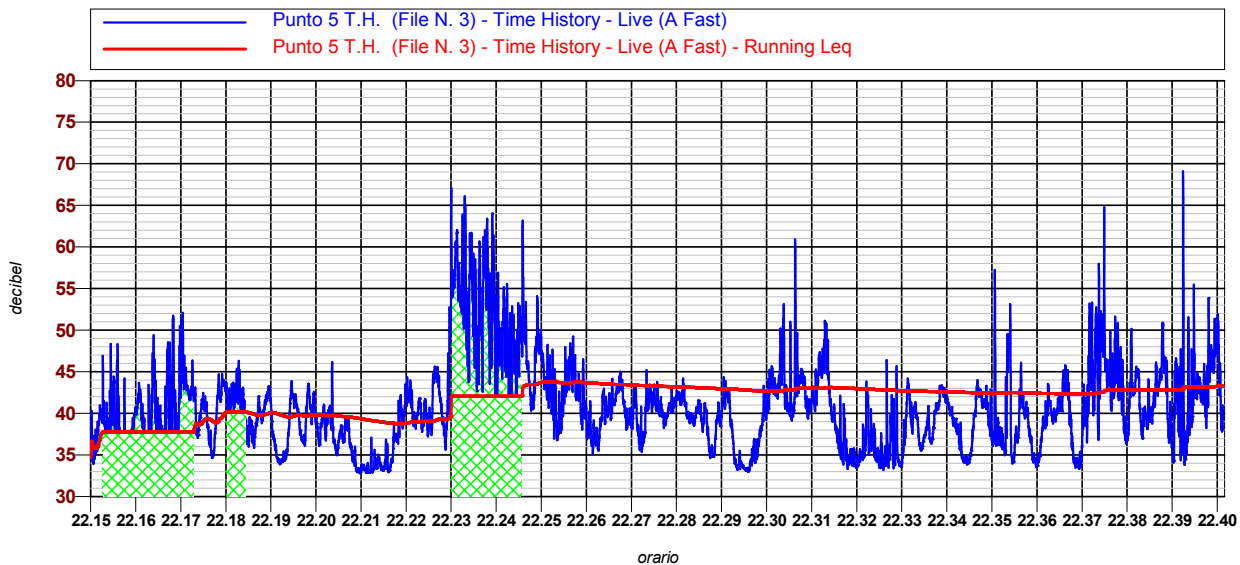


Punto 5 T.H. (File N. 2) - AllMin -  
Punto 5 T.H. (File N. 2)  
Time History - Live (A Fast) - Cumulativa



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	23.0	63	34.3	315	31.5	1600	27.5	8000	20.3
16	29.6	80	34.8	400	31.7	2000	26.3	10000	20.3
20	28.5	100	31.5	500	33.0	2500	24.0	12500	20.2
25	37.1	125	30.6	630	32.4	3150	21.8	16000	21.8
31.5	41.4	160	34.8	800	32.3	4000	19.9	20000	23.1
40	36.9	200	34.1	1000	30.8	5000	18.9		
50	33.7	250	32.1	1250	29.3	6300	19.2		





**Nome** **Punto 5 T.H. (File N. 3)**

**Località** Casa di Cura Santa Chiara, via P. Gorini

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
ala ovest piano primo  
centro stanza a finestre chiuse, sala affacciata su via P. Gorini  
periodo diurno  
eventi mascherati: rumori provenienti passaggio carrelli personale  
da e verso bidoni e campane esterne casa di riposo

**Leq:** 43.3 dB(A)

**L01:** 51.4 dB(A)

**L05:** 47.1 dB(A)

**L10:** 44.8 dB(A)

**L50:** 39.8 dB(A)

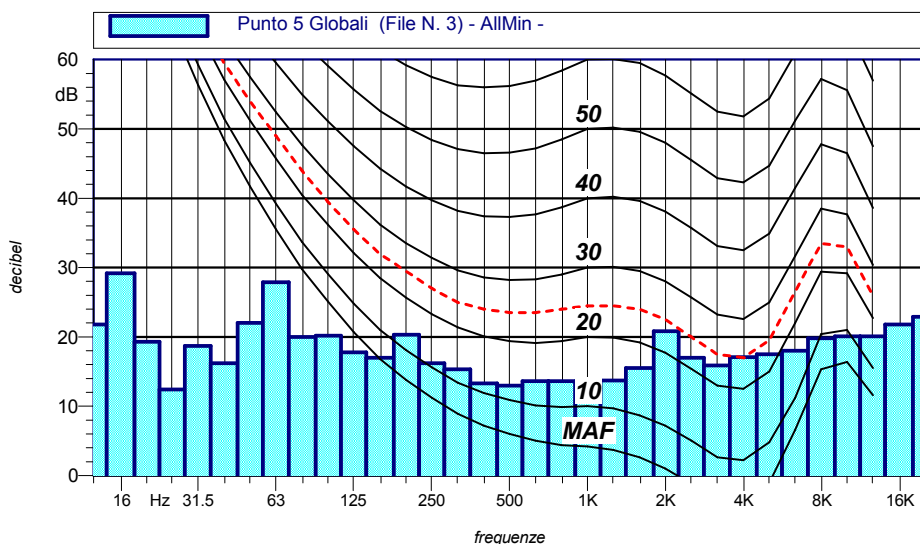
**L90:** 34.4 dB(A)

**L95:** 33.8 dB(A)

**L99:** 33.1 dB(A)

**LFmax:** 69.1 dB(A)

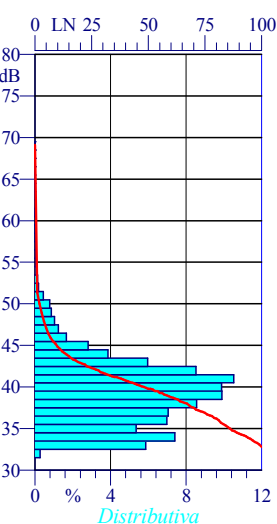
**LFmin:** 32.8 dB(A)

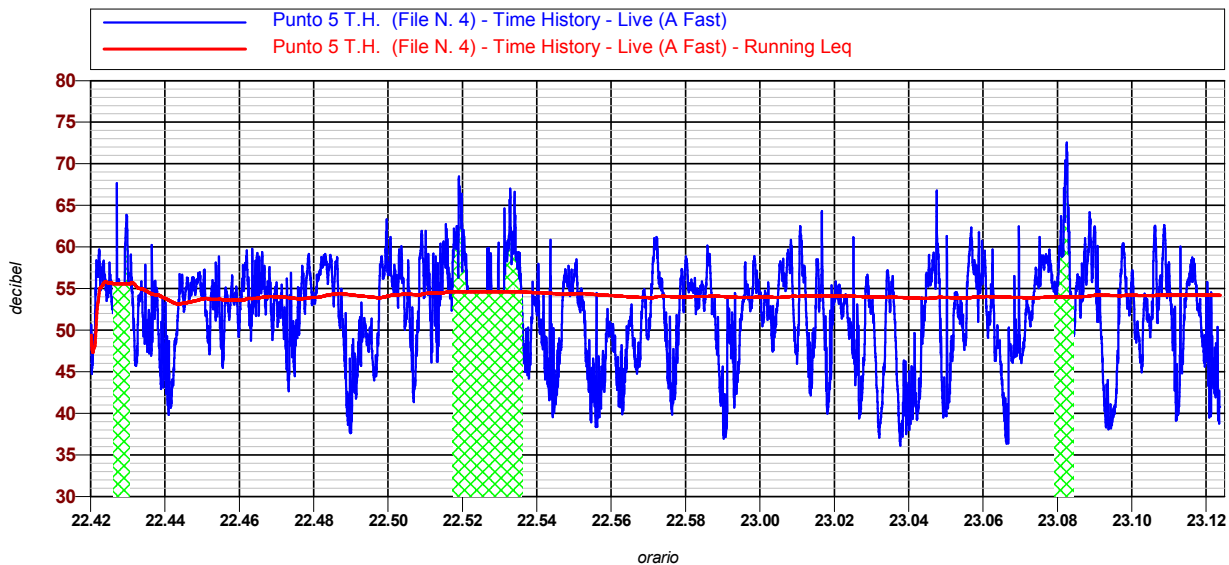


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	21.8	63	27.9	315	15.3	1600	15.5	8000	19.8
16	29.2	80	20.0	400	13.3	2000	20.8	10000	20.1
20	19.3	100	20.2	500	13.0	2500	17.0	12500	20.1
25	12.4	125	17.8	630	13.6	3150	15.9	16000	21.8
31.5	18.7	160	17.0	800	13.6	4000	17.1	20000	22.9
40	16.2	200	20.3	1000	13.3	5000	17.5		
50	22.0	250	16.2	1250	13.7	6300	18.0		

Punto 5 T.H. (File N. 3) - AllMin -  
Time History - Live (A Fast)

Cumulativa



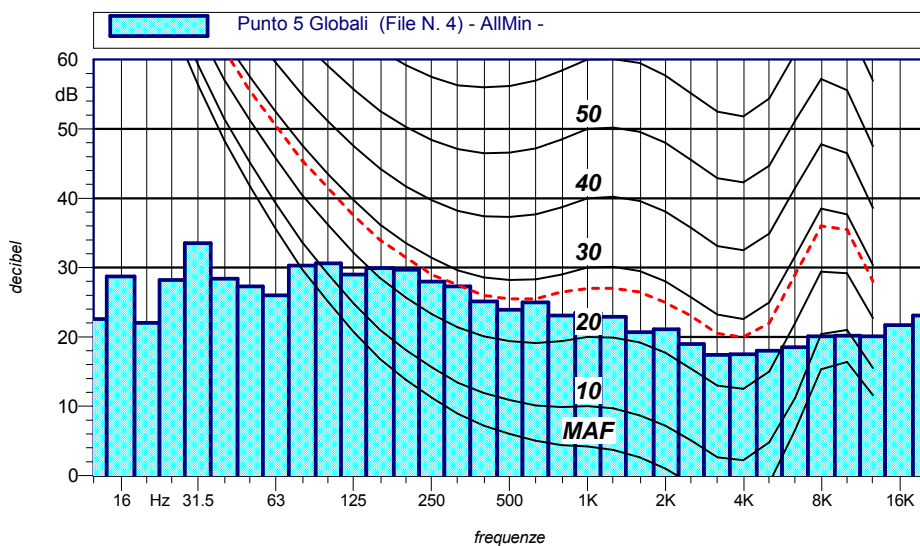


**Nome** **Punto 5 T.H. (File N. 4)**

Località *Casa di Cura Santa Chiara, via P. Gorini* Data: 11/05/2007  
 Strumentazione *Larson-Davis 824* Ora: 22.42.00  
 Calibratore *Larson-Davis CAL 200* Durata: 1821 sec  
 Operatore *P. Zaneboni, D. Ciceri* Intervallo: 0.125 sec

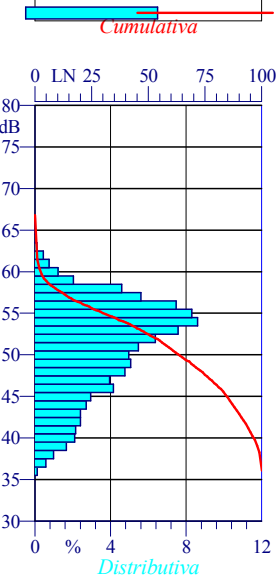
Note *misure di rumore ambientale  
 ala ovest piano primo  
 ad un metro dalla finestra aperta, sala affacciata su via P. Gorini  
 periodo diurno  
 eventi mascherati: rumore proveniente da passanti e veicoli iper rumorosi*

- Leq:** 54.2 dB(A)
- L01:** 61.5 dB(A)
- L05:** 58.9 dB(A)
- L10:** 57.8 dB(A)
- L50:** 52.5 dB(A)
- L90:** 42.9 dB(A)
- L95:** 40.7 dB(A)
- L99:** 38.3 dB(A)
- LFmax:** 66.8 dB(A)
- LFmin:** 36.1 dB(A)

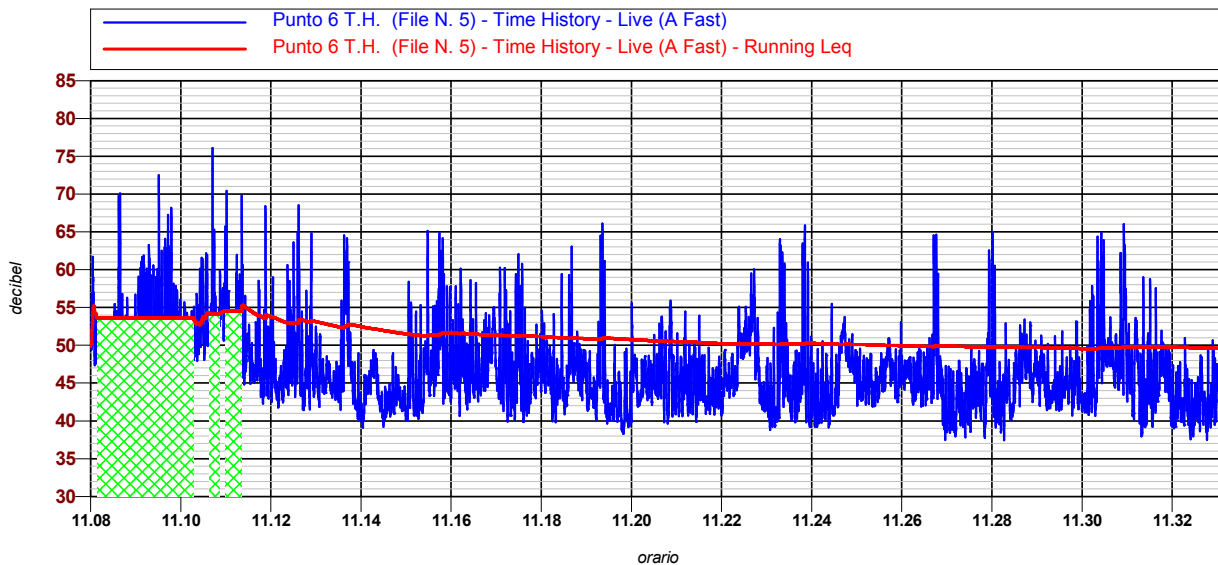


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	22.6	63	26.0	315	27.3	1600	20.7	8000	20.1
16	28.7	80	30.3	400	25.1	2000	21.1	10000	20.2
20	22.0	100	30.6	500	23.9	2500	19.0	12500	20.1
25	28.2	125	29.0	630	25.0	3150	17.4	16000	21.7
31.5	33.5	160	29.9	800	23.1	4000	17.5	20000	23.1
40	28.4	200	29.7	1000	23.5	5000	18.0		
50	27.3	250	28.0	1250	22.9	6300	18.5		

Punto 5 T.H. (File N. 4) - AllMin -  
 Punto 5 T.H. (File N. 4)  
 Time History - Live (A Fast) - Cumulativa







**Nome** **Punto 6 T.H. (File N. 5)**

**Località** *Istituto Magistrale Statale Maffeo Vegio*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note**  
*misura di rumore ambientale  
 piano primo, centro stanza a finestre chiuse  
 classe 1^E affacciata su via G. Carducci  
 periodo diurno  
 eventi mascherati: rumori provenienti interno aule, passaggio  
 stuenti e personale e lavori cantiere stradale a circa 80 m*

**Leq:** **49.6 dB(A)**

**L01:** **61.0 dB(A)**

**L05:** **54.7 dB(A)**

**L10:** **51.5 dB(A)**

**L50:** **45.4 dB(A)**

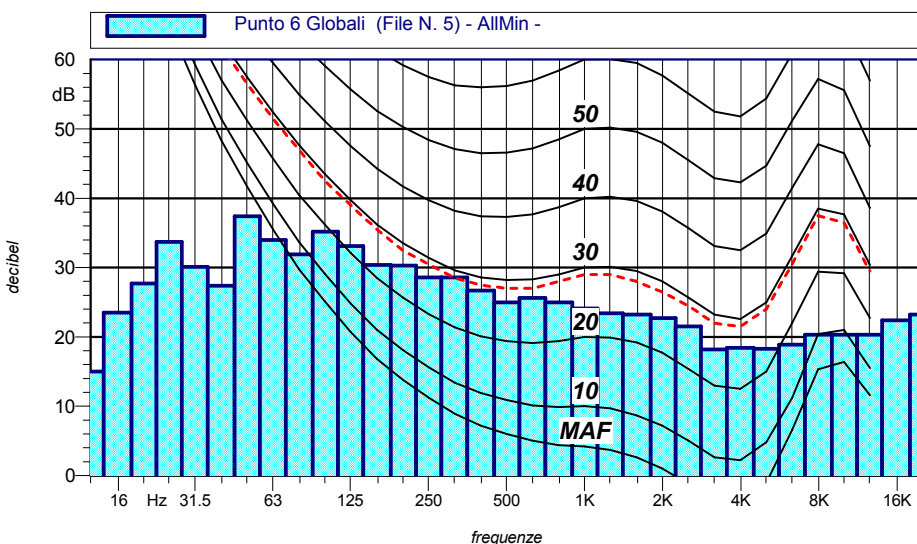
**L90:** **41.2 dB(A)**

**L95:** **40.3 dB(A)**

**L99:** **39.1 dB(A)**

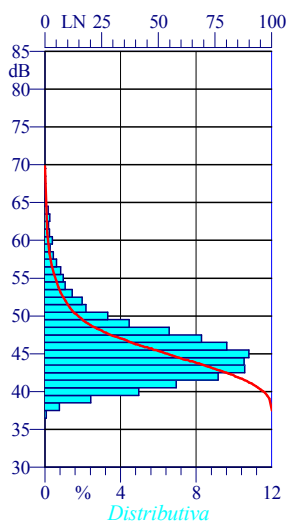
**LFmax:** **69.8 dB(A)**

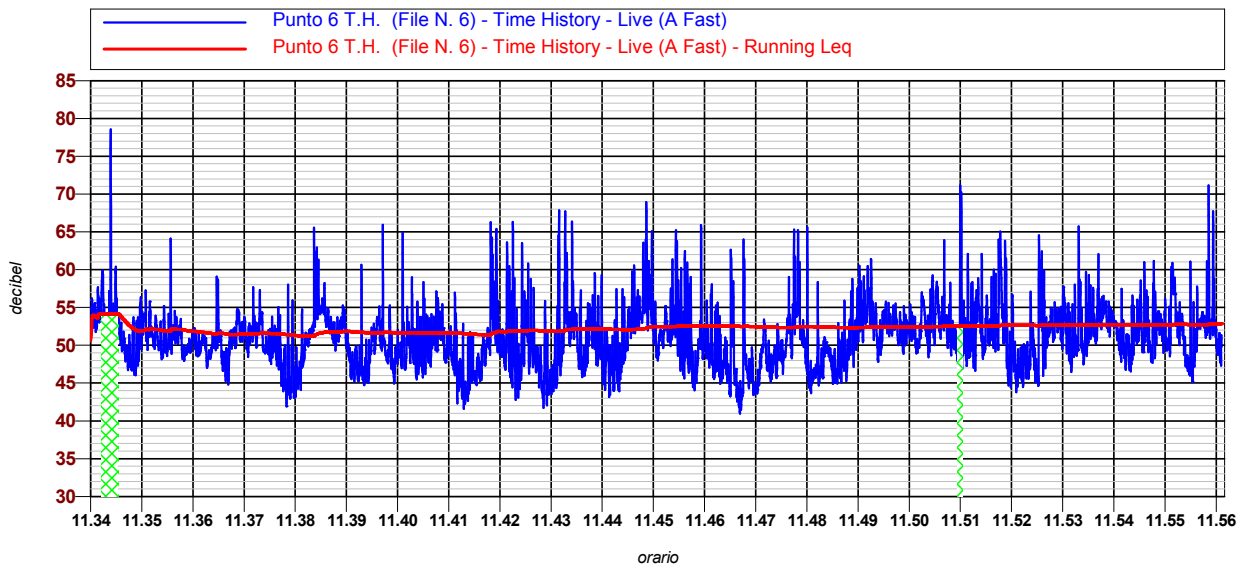
**LFmin:** **37.5 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	15.0	63	34.0	315	28.6	1600	23.2	8000	20.3
16	23.5	80	31.9	400	26.7	2000	22.7	10000	20.3
20	27.7	100	35.2	500	25.0	2500	21.5	12500	20.3
25	33.7	125	33.1	630	25.6	3150	18.2	16000	22.4
31.5	30.1	160	30.4	800	25.0	4000	18.4	20000	23.2
40	27.4	200	30.3	1000	24.1	5000	18.3		
50	37.4	250	28.6	1250	23.4	6300	18.9		

Punto 6 T.H. (File N. 5) Time History - Live (A Fast) Cumulativa





**Nome** **Punto 6 T.H. (File N. 6)**

Località *Istituto Magistrale Statale Maffeo Vegio*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *misura di rumore ambientale  
piano primo, ad un metro dalla finestra aperta  
classe 1^E affacciata su via G. Carducci  
periodo diurno  
eventi mascherati: rumori provenienti interno aule, passaggio  
stuventi e personale e lavori cantiere stradale a circa 80 m*

**Leq:** **52.9 dB(A)**

**L01:** **62.1 dB(A)**

**L05:** **57.2 dB(A)**

**L10:** **55.1 dB(A)**

**L50:** **50.7 dB(A)**

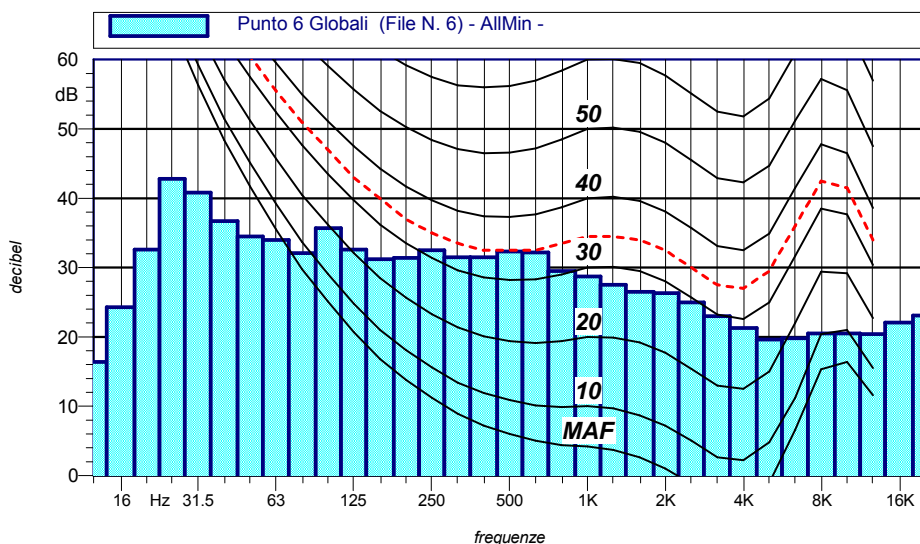
**L90:** **46.3 dB(A)**

**L95:** **45.2 dB(A)**

**L99:** **43.5 dB(A)**

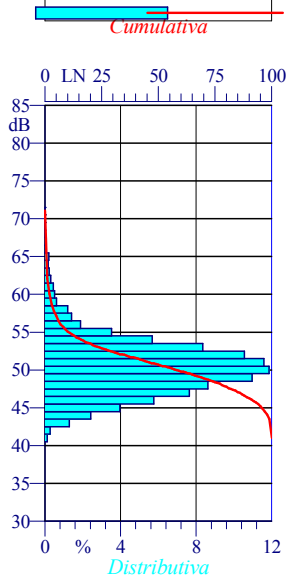
**LFmax:** **71.1 dB(A)**

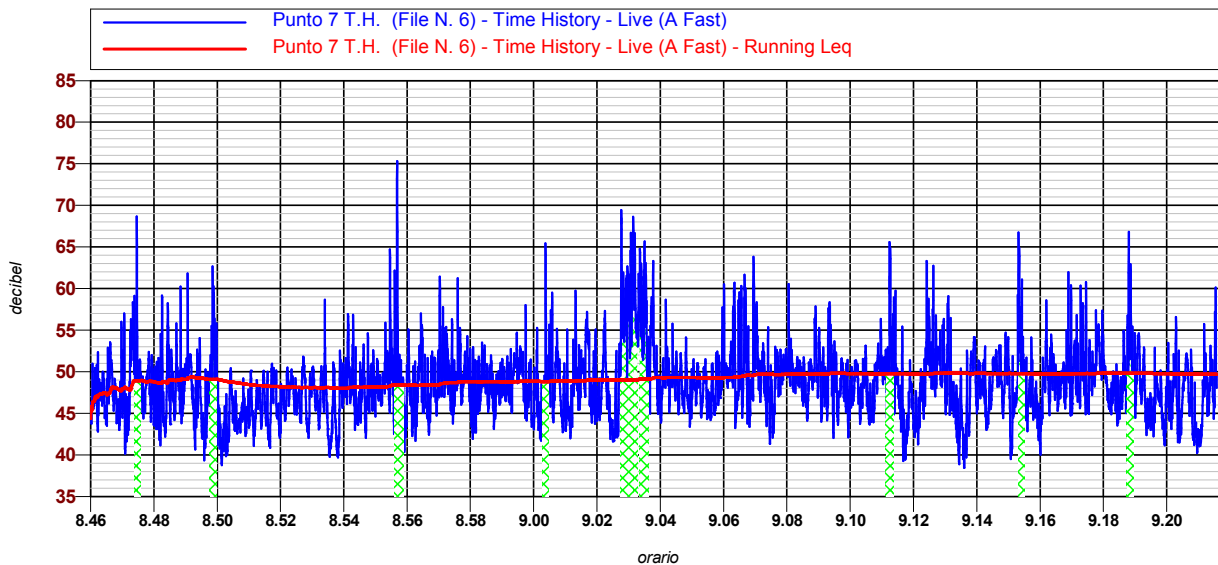
**LFmin:** **41.0 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	16.4	63	34.0	315	31.5	1600	26.5	8000	20.5
16	24.3	80	32.1	400	31.5	2000	26.3	10000	20.5
20	32.6	100	35.7	500	32.3	2500	25.0	12500	20.4
25	42.8	125	32.6	630	32.2	3150	23.0	16000	22.1
31.5	40.8	160	31.2	800	29.5	4000	21.3	20000	23.1
40	36.7	200	31.4	1000	28.7	5000	19.6		
50	34.5	250	32.5	1250	27.5	6300	19.8		

Punto 6 T.H. (File N. 6) - AllMin -  
Punto 6 T.H. (File N. 6)  
Time History - Live (A Fast) - Cumulative





**Nome** **Punto 7 T.H. (File N. 6)**

**Località** *istituto C.F.P. "Luigi Clerici"*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula 13 piano primo  
affacciata su via Paolo Gorini  
periodo diurno  
eventi mascherati: rumori provenienti interno aule,  
lavori ristrutturazione edificio di fronte e campanella interna*

**Leq:** **49.7 dB(A)**

**L01:** **58.1 dB(A)**

**L05:** **54.0 dB(A)**

**L10:** **52.2 dB(A)**

**L50:** **48.0 dB(A)**

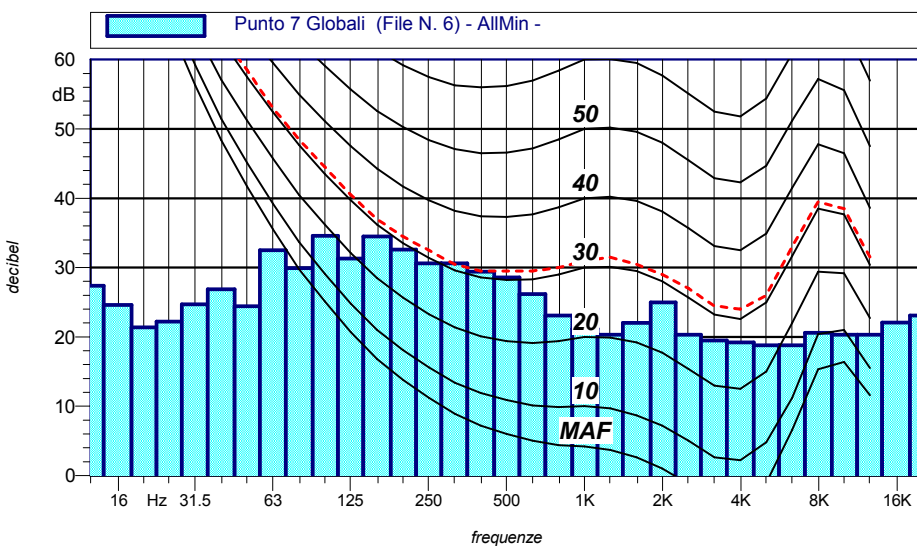
**L90:** **43.7 dB(A)**

**L95:** **42.6 dB(A)**

**L99:** **40.7 dB(A)**

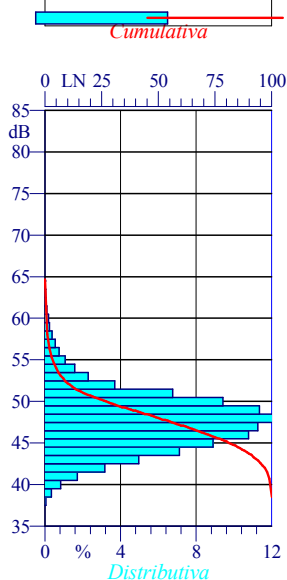
**LFmax:** **64.7 dB(A)**

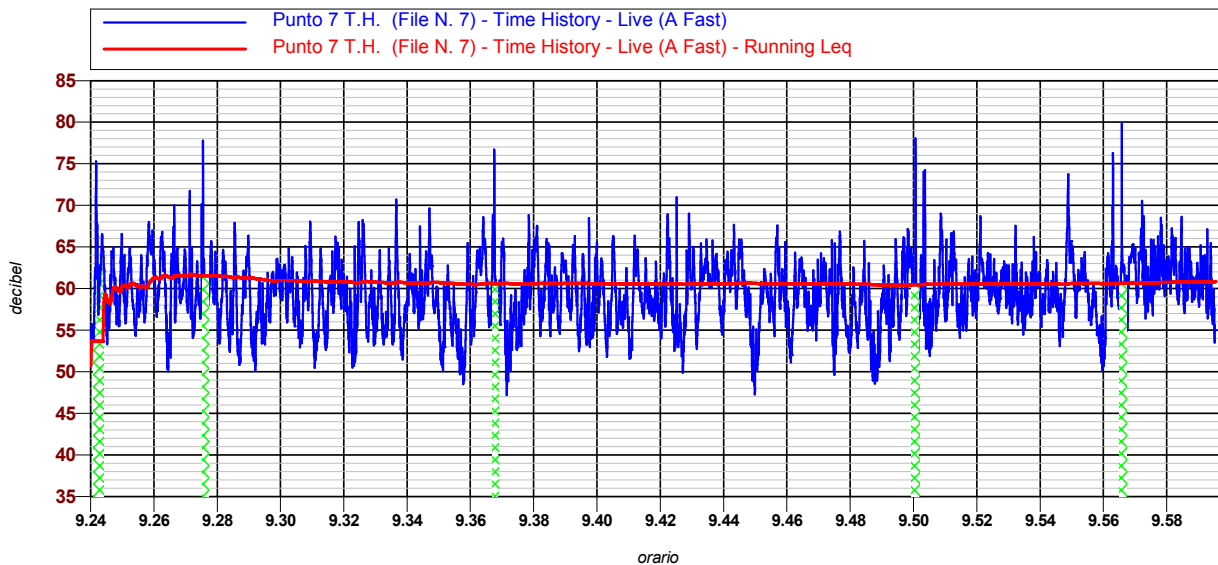
**LFmin:** **38.5 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	27.4	63	32.5	315	30.6	1600	22.0	8000	20.6
16	24.6	80	29.9	400	29.4	2000	25.0	10000	20.3
20	21.4	100	34.6	500	28.6	2500	20.3	12500	20.3
25	22.2	125	31.3	630	26.2	3150	19.5	16000	22.1
31.5	24.7	160	34.5	800	23.1	4000	19.2	20000	23.1
40	26.9	200	32.6	1000	21.2	5000	18.8		
50	24.4	250	30.6	1250	20.3	6300	18.8		

Punto 7 T.H. (File N. 6) - Time History - Live (A Fast) - Cumulative





**Nome** **Punto 7 T.H. (File N. 7)**

**Località** *istituto C.F.P. "Luigi Clerici"*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misure di rumore ambientale ad un metro dalla finestra aperta aula 13 piano primo affacciata su via Paolo Gorini periodo diurno eventi mascherati: rumori provenienti interno aule, lavori ristrutturazione edificio di fronte*

**Leq:** **60.8 dB(A)**

**L01:** **67.7 dB(A)**

**L05:** **65.1 dB(A)**

**L10:** **63.9 dB(A)**

**L50:** **59.2 dB(A)**

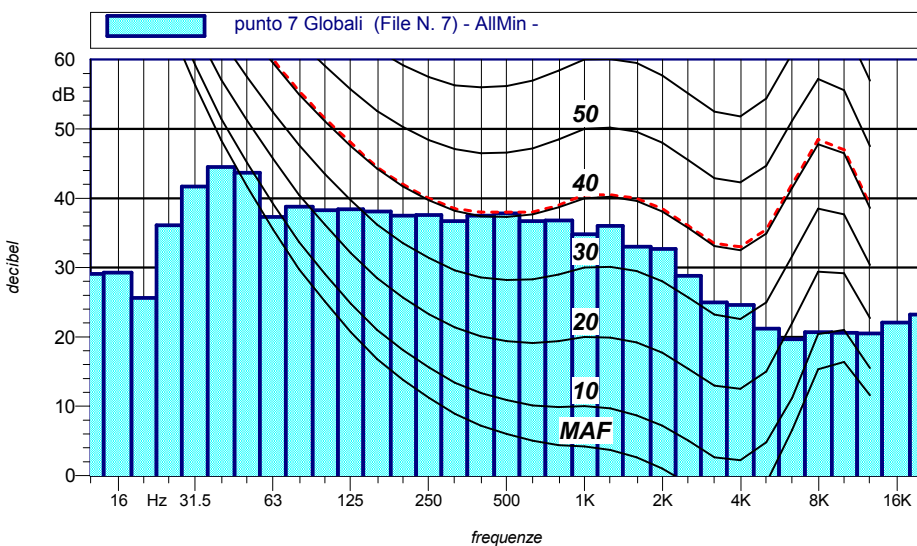
**L90:** **54.2 dB(A)**

**L95:** **52.8 dB(A)**

**L99:** **50.4 dB(A)**

**LFmax:** **76.3 dB(A)**

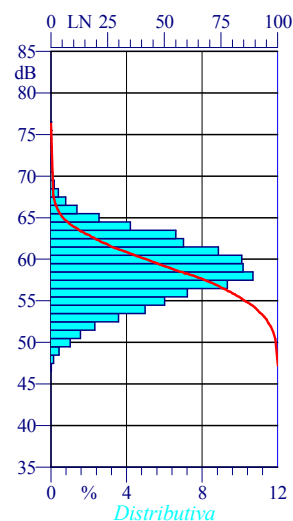
**LFmin:** **47.2 dB(A)**

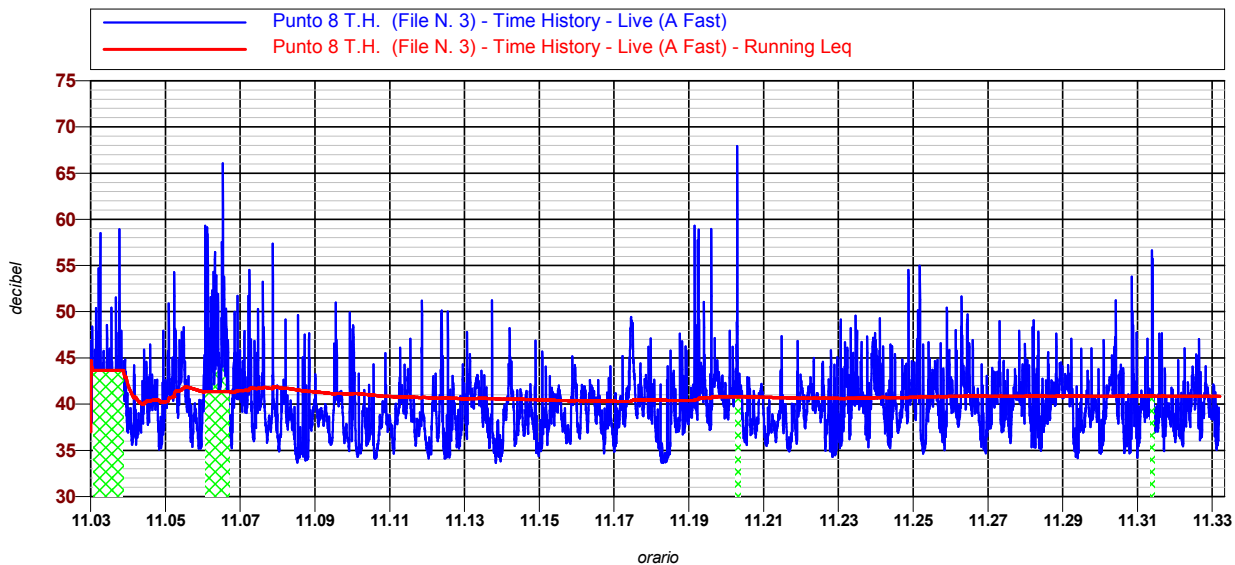


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	29.1	63	37.3	315	36.7	1600	33.0	8000	20.7
16	29.3	80	38.8	400	37.5	2000	32.7	10000	20.6
20	25.6	100	38.3	500	37.8	2500	28.8	12500	20.5
25	36.1	125	38.4	630	36.7	3150	25.0	16000	22.1
31.5	41.7	160	38.1	800	36.8	4000	24.6	20000	23.2
40	44.5	200	37.5	1000	34.8	5000	21.2		
50	43.7	250	37.6	1250	36.0	6300	19.7		

Punto 7 T.H. (File N. 7) - Time History - Live (A Fast) - Cumulativa

Punto 7 T.H. (File N. 7) - Time History - Live (A Fast) - Distributiva





**Nome** **Punto 8 T.H. (File N. 3)**

Località *scuola materna "Don Gnocchi"*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula "Verde" piano primo affacciata su viale Storza  
periodo diurno  
eventi mascherati: rumori provenienti dall'esterno dell'aula*

**Leq:** **40.8 dB(A)**

**L01:** **48.2 dB(A)**

**L05:** **44.4 dB(A)**

**L10:** **42.9 dB(A)**

**L50:** **39.4 dB(A)**

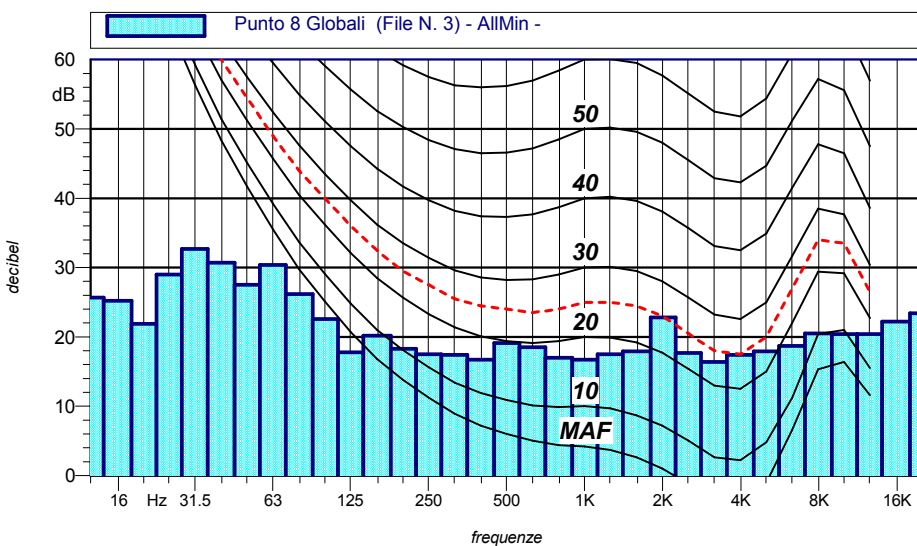
**L90:** **36.0 dB(A)**

**L95:** **35.2 dB(A)**

**L99:** **34.2 dB(A)**

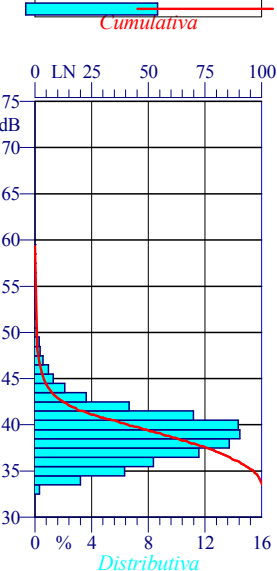
**LFmax:** **59.3 dB(A)**

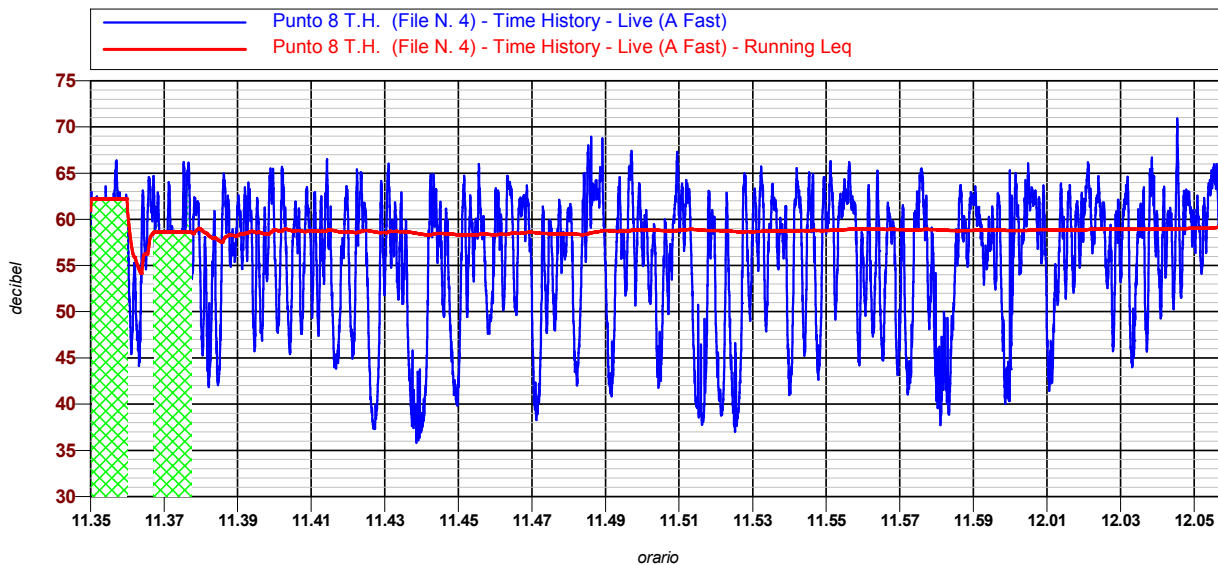
**LFmin:** **33.6 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	25.7	63	30.4	315	17.4	1600	17.9	8000	20.5
16	25.2	80	26.2	400	16.7	2000	22.8	10000	20.4
20	21.9	100	22.6	500	19.1	2500	17.7	12500	20.4
25	29.0	125	17.8	630	18.5	3150	16.4	16000	22.2
31.5	32.7	160	20.2	800	17.0	4000	17.4	20000	23.4
40	30.7	200	18.3	1000	16.7	5000	17.9		
50	27.5	250	17.5	1250	17.5	6300	18.7		

Punto 8 T.H. (File N. 3) - AllMin -  
Punto 8 T.H. (File N. 3)  
Time History - Live (A Fast)





**Nome** **Punto 8 T.H. (File N. 4)**

**Località** scuola materna " Don Gnocchi "

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale ad un metro dalla finestra aperta aula " Verde " piano primo affacciata su viale Sforza periodo diurno eventi mascherati: rumori generati da personale all'esterno dell'aula

**Leq:** **59.2 dB(A)**

**L01:** **65.5 dB(A)**

**L05:** **64.0 dB(A)**

**L10:** **63.0 dB(A)**

**L50:** **57.4 dB(A)**

**L90:** **43.8 dB(A)**

**L95:** **41.0 dB(A)**

**L99:** **38.0 dB(A)**

**LFmax:** **70.9 dB(A)**

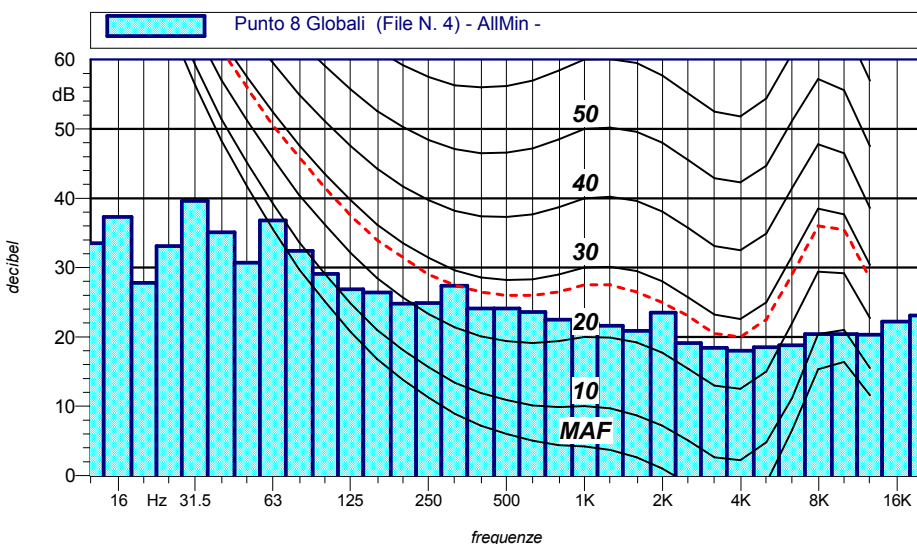
**LFmin:** **35.8 dB(A)**

**Data:** 20/02/2007

**Ora:** 11.35.38

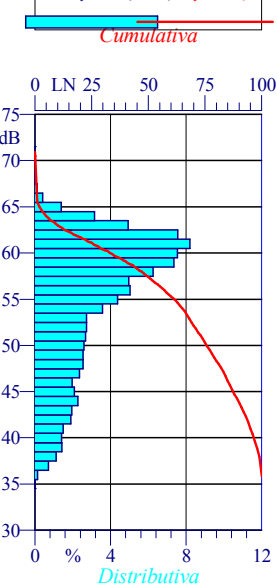
**Durata:** 1849 sec

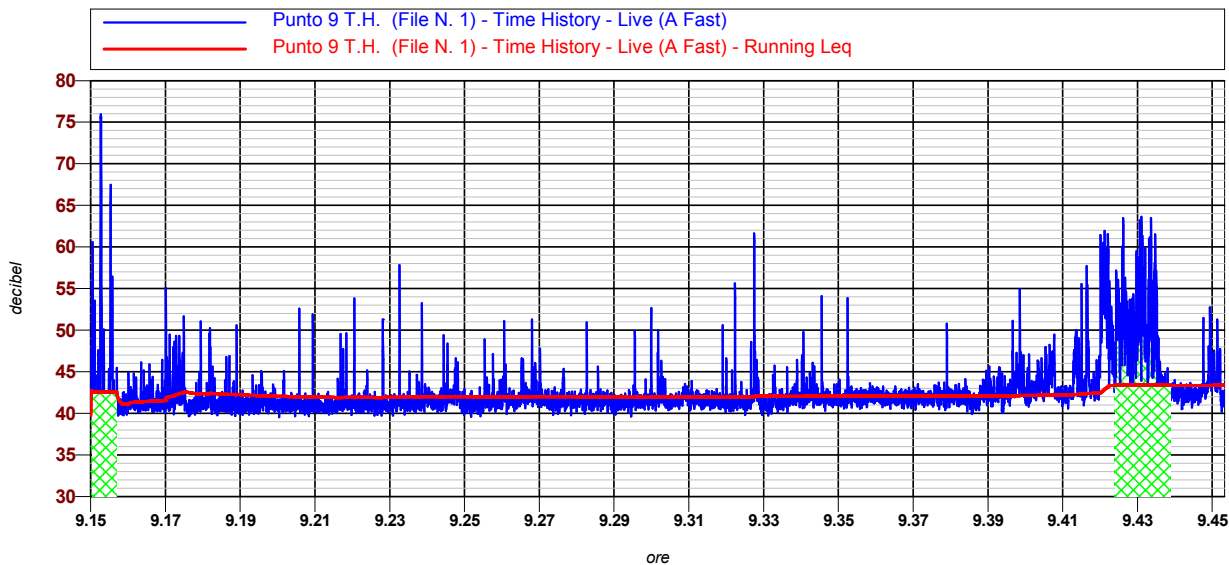
**Intervallo:** 0.125 sec



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	33.5	63	36.8	315	27.4	1600	20.9	8000	20.4
16	37.3	80	32.4	400	24.1	2000	23.5	10000	20.4
20	27.8	100	29.1	500	24.1	2500	19.1	12500	20.3
25	33.1	125	26.9	630	23.6	3150	18.4	16000	22.2
31.5	39.6	160	26.4	800	22.5	4000	18.0	20000	23.1
40	35.1	200	24.8	1000	22.0	5000	18.5		
50	30.7	250	24.9	1250	21.6	6300	18.8		

Punto 8 T.H. (File N. 4) Time History - Live (A Fast) Cumulativa





**Nome** **Punto 9 T.H. (File N. 1)**

Località *Parco Tecnologico Padano, via A. Einstein* Data: 18/04/2007

Strumentazione *Larson-Davis 824* Ora: 9.15.49

Calibratore *Larson-Davis CAL 200* Durata: 1821 sec

Operatore *P. Zaneboni, D. Ciceri* Intervallo: 0.125 sec

Note *misure di rumore ambientale  
periodo diurno  
centro stanza a finestre chiuse  
piano secondo, aula di ricerca affacciata verso Via Emilia  
eventi mascherati: personale laboratorio di ricerca che percorre  
il corridoio, squilli telefono stanza accanto e rumore di fondo  
generato dall'impianto di condizionamento*

**Leq:** **43.4 dB(A)**

**L01:** **51.9 dB(A)**

**L05:** **45.4 dB(A)**

**L10:** **43.5 dB(A)**

**L50:** **41.7 dB(A)**

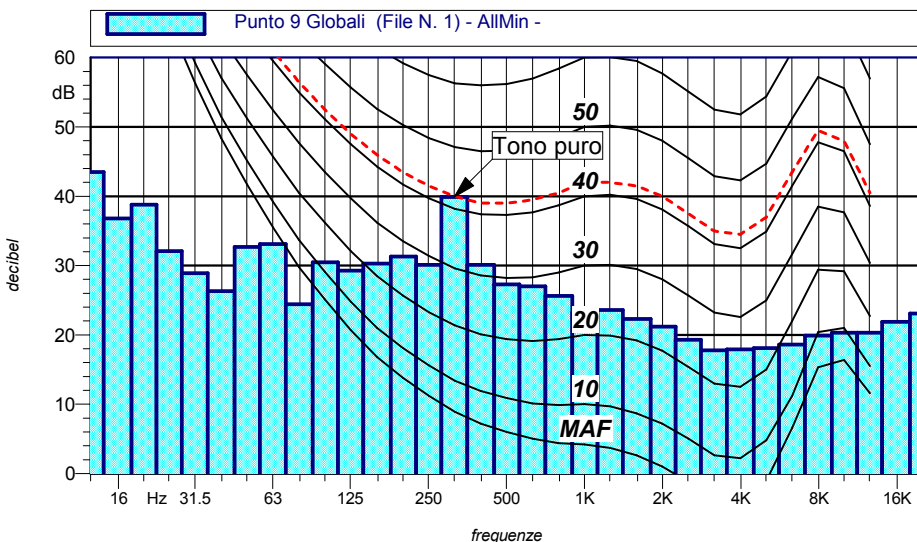
**L90:** **40.7 dB(A)**

**L95:** **40.5 dB(A)**

**L99:** **40.1 dB(A)**

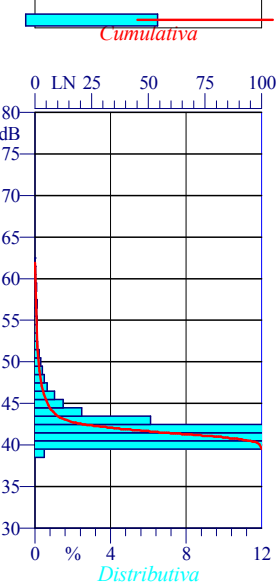
**LFmax:** **61.9 dB(A)**

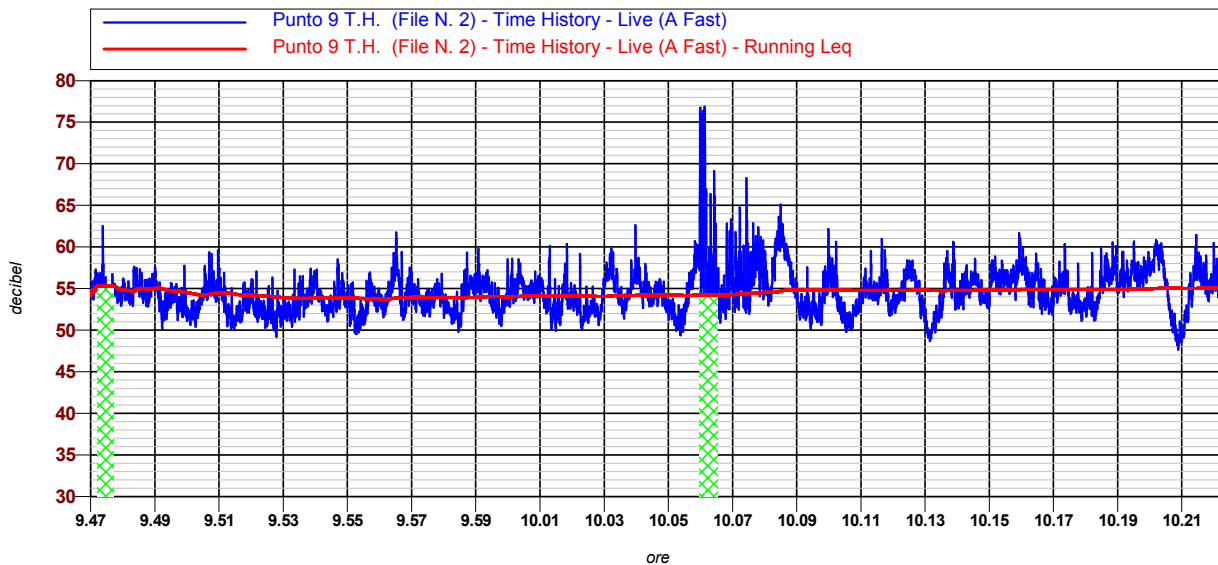
**LFmin:** **39.5 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	43.5	63	33.1	315	39.9	1600	22.3	8000	19.9
16	36.8	80	24.4	400	30.1	2000	21.2	10000	20.3
20	38.8	100	30.5	500	27.3	2500	19.3	12500	20.3
25	32.1	125	29.3	630	27.0	3150	17.8	16000	21.9
31.5	28.9	160	30.3	800	25.6	4000	17.9	20000	23.1
40	26.3	200	31.3	1000	23.3	5000	18.1		
50	32.7	250	30.1	1250	23.6	6300	18.6		

Punto 9 T.H. (File N. 1) - Time History - Live (A Fast) Cumulativa





**Nome** **Punto 9 T.H. (File N. 2)**

**Località** *Parco Tecnologico Padano, via A. Einstein* **Data:** 18/04/2007

**Strumentazione** *Larson-Davis 824* **Ora:** 9.47.39

**Calibratore** *Larson-Davis CAL 200* **Durata:** 2112 sec

**Operatore** *P. Zaneboni, D. Ciceri* **Intervallo:** 0.125 sec

**Note** *misure di rumore ambientale  
periodo diurno  
ad un metro dalla finestra aperta  
piano secondo, aula di ricerca affacciata verso Via Emilia  
eventi mascherati: personale laboratorio di ricerca che percorre  
il corridoio e squilli telefono stanza accanto*

**Leq:** **55.1 dB(A)**

**L01:** **60.6 dB(A)**

**L05:** **58.4 dB(A)**

**L10:** **57.3 dB(A)**

**L50:** **54.3 dB(A)**

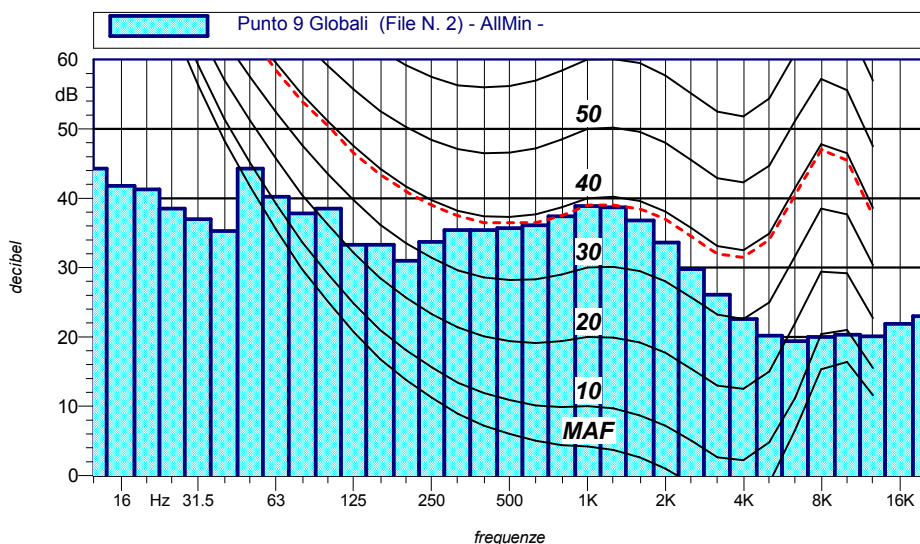
**L90:** **51.7 dB(A)**

**L95:** **51.0 dB(A)**

**L99:** **49.7 dB(A)**

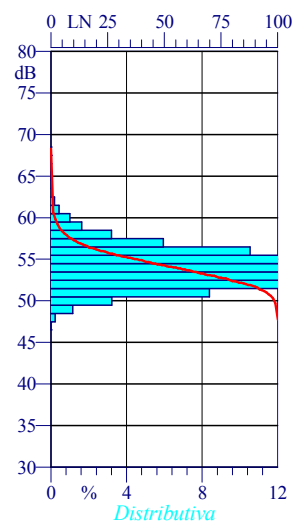
**LFmax:** **68.3 dB(A)**

**LFmin:** **47.7 dB(A)**



Punto 9 T.H. (File N. 2) - AllMin -  
Punto 9 T.H. (File N. 2) - Time History - Live (A Fast)

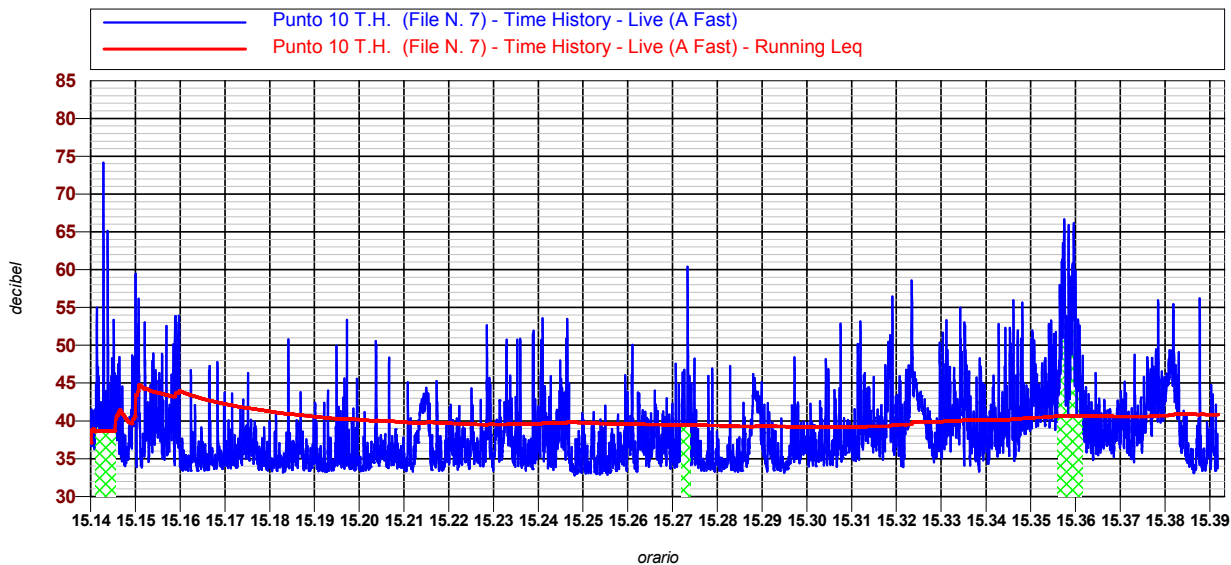
**Cumulativa**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	44.3	63	40.2	315	35.4	1600	36.8	8000	20.0
16	41.8	80	37.8	400	35.4	2000	33.6	10000	20.3
20	41.3	100	38.5	500	35.7	2500	29.8	12500	20.1
25	38.5	125	33.3	630	36.1	3150	26.1	16000	21.9
31.5	37.0	160	33.3	800	37.4	4000	22.6	20000	23.0
40	35.3	200	31.0	1000	38.9	5000	20.2		
50	44.3	250	33.7	1250	38.7	6300	19.4		







**Nome** Punto 10 T.H. (File N. 7)

Località Scuola elementare "Arcobaleno"

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note  
 misura di rumore ambientale  
 piano primo, centro stanza a finestre chiuse  
 aula di lavoro, sez. didattica potenziata affacciata verso la ferrovia  
 periodo diurno  
 eventi mascherati: rumori provenienti da interno aule

**Leq:** 40.8 dB(A)

**L01:** 50.8 dB(A)

**L05:** 46.0 dB(A)

**L10:** 43.5 dB(A)

**L50:** 37.0 dB(A)

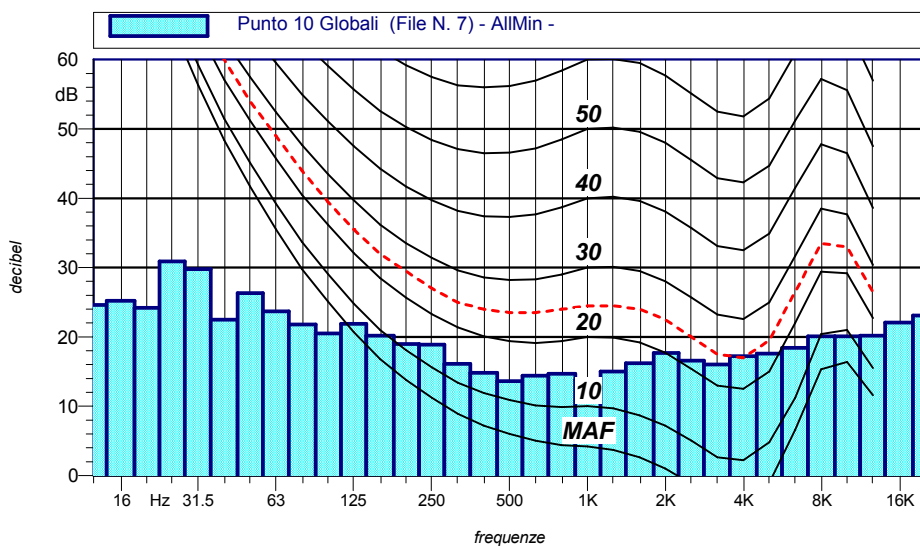
**L90:** 34.1 dB(A)

**L95:** 33.7 dB(A)

**L99:** 33.4 dB(A)

**LFmax:** 59.5 dB(A)

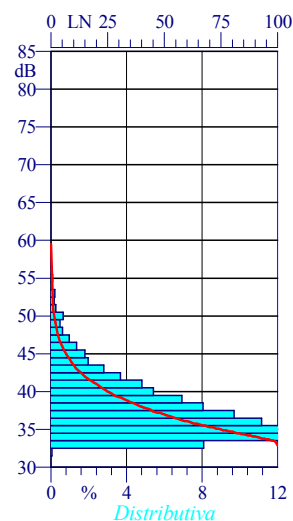
**LFmin:** 32.8 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	24.6	63	23.7	315	16.1	1600	16.2	8000	20.1
16	25.2	80	21.8	400	14.8	2000	17.7	10000	20.1
20	24.2	100	20.5	500	13.6	2500	16.6	12500	20.2
25	30.9	125	21.9	630	14.4	3150	16.0	16000	22.1
31.5	29.8	160	20.2	800	14.7	4000	17.2	20000	23.1
40	22.5	200	19.0	1000	13.8	5000	17.6		
50	26.3	250	18.9	1250	15.0	6300	18.4		

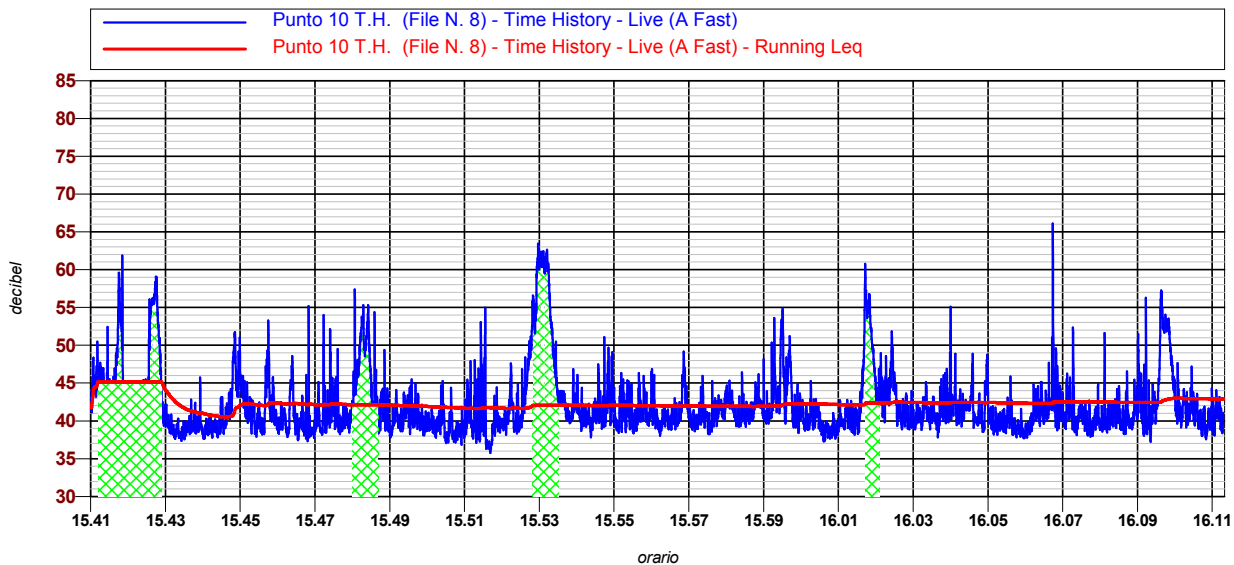
Punto 10 T.H. (File N. 7) - AllMin -  
 Time History - Live (A Fast)

Cumulativa



Distributiva





**Nome** Punto 10 T.H. (File N. 8)

**Località** Scuola elementare "Arcobaleno"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note**

misura di rumore ambientale  
 piano primo, ad un metro dalla finestra aperta  
 aula di lavoro, sez. didattica potenziata affacciata verso la ferrovia  
 periodo diurno  
 eventi mascherati: rumori provenienti da interno aule

**Leq:** 42.9 dB(A)

**L01:** 52.5 dB(A)

**L05:** 46.8 dB(A)

**L10:** 44.5 dB(A)

**L50:** 40.6 dB(A)

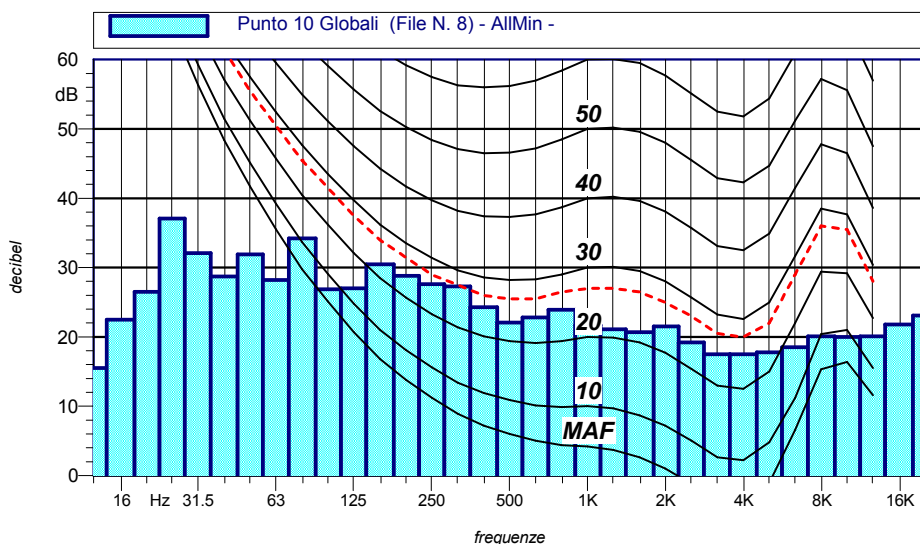
**L90:** 38.7 dB(A)

**L95:** 38.3 dB(A)

**L99:** 37.5 dB(A)

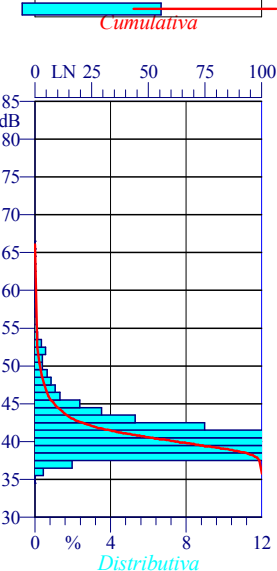
**LFmax:** 66.1 dB(A)

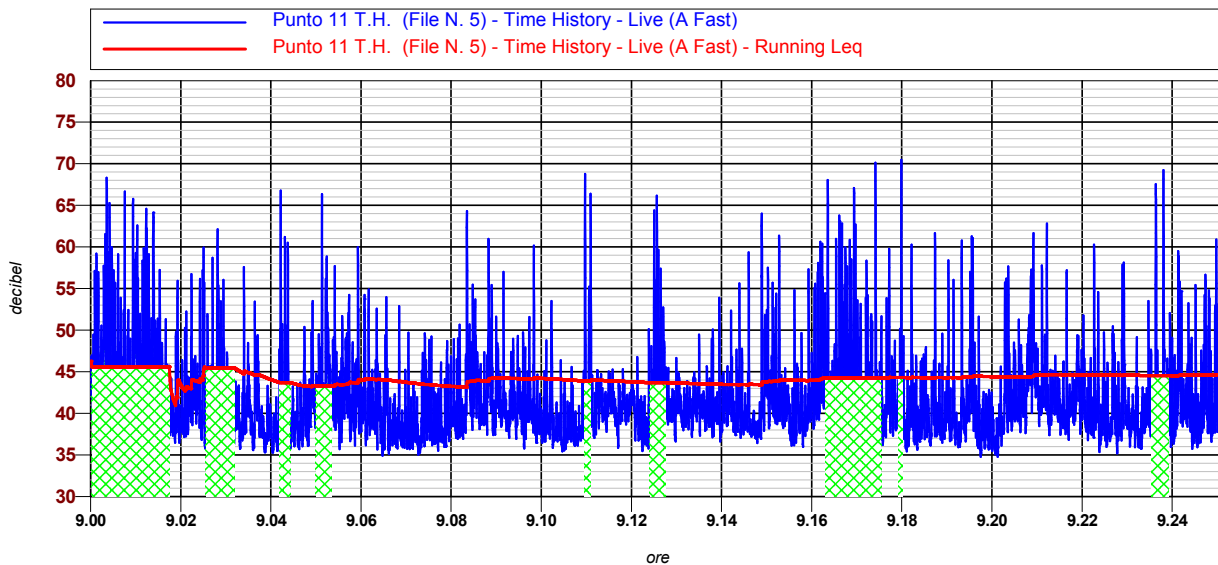
**LFmin:** 35.8 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	15.5	63	28.2	315	27.3	1600	20.7	8000	20.1
16	22.5	80	34.2	400	24.3	2000	21.5	10000	20.0
20	26.5	100	26.9	500	22.1	2500	19.2	12500	20.1
25	37.1	125	27.0	630	22.8	3150	17.5	16000	21.8
31.5	32.1	160	30.5	800	23.9	4000	17.5	20000	23.1
40	28.7	200	28.8	1000	21.7	5000	17.8		
50	31.9	250	27.6	1250	21.1	6300	18.5		

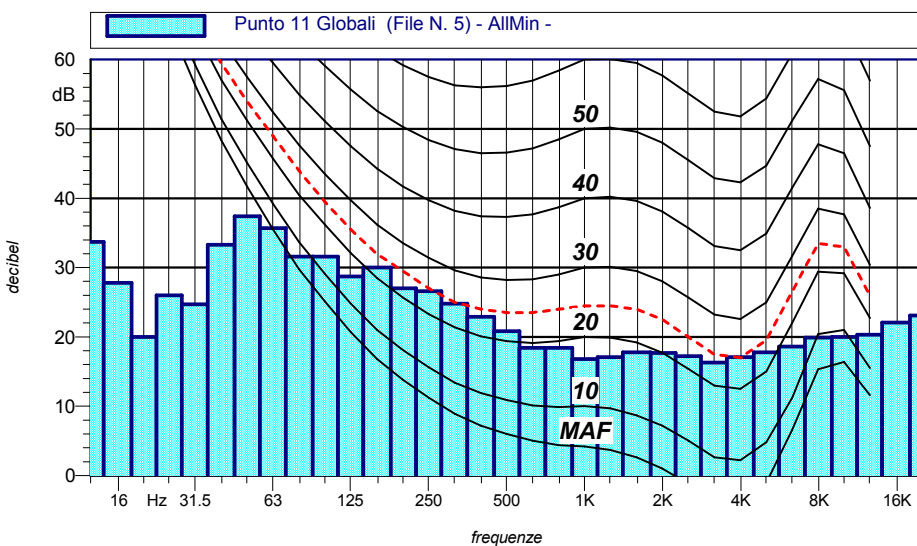
Punto 10 T.H. (File N. 8) - Time History - Live (A Fast)  
 Punto 10 T.H. (File N. 8) - Time History - Live (A Fast)





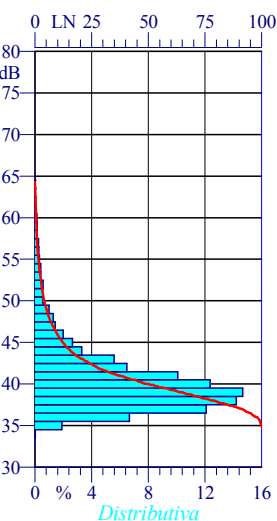
**Nome** Punto 11 T.H. (File N. 5)  
**Località** scuola media inferiore "Cazzulani"  
**Strumentazione** Larson-Davis 824  
**Calibratore** Larson-Davis CAL 200  
**Operatore** P. Zaneboni, D. Ciceri  
**Note** misure di rumore ambientale  
 centro stanza a finestre chiuse  
 aula 1°C primo piano, verso via Vignati  
 periodo diurno  
 eventi mascherati: rumori provenienti interno aule

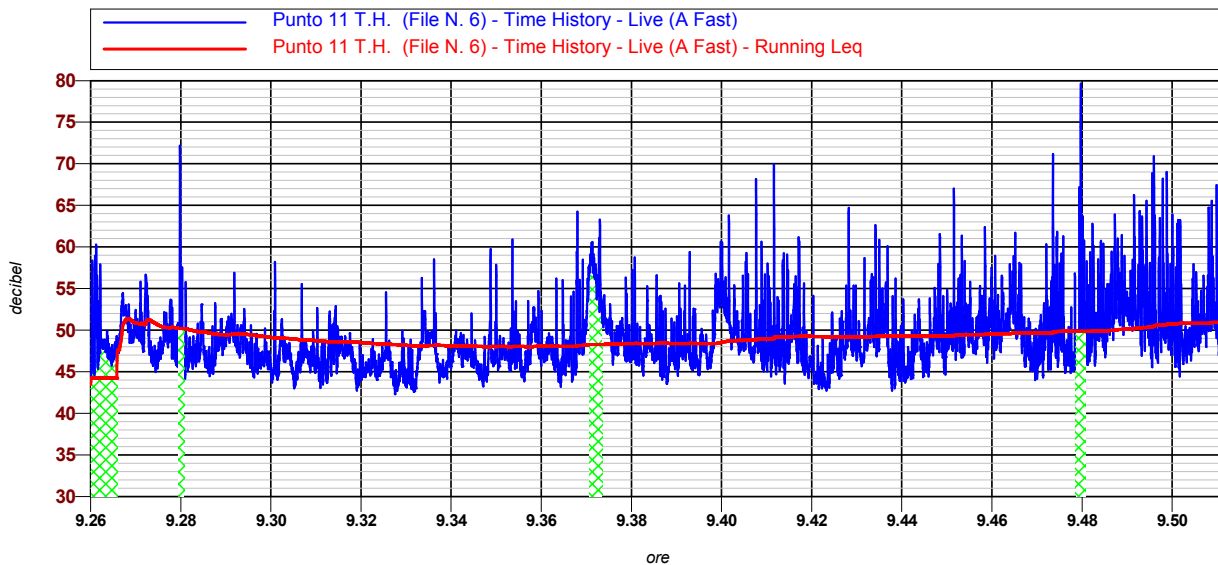
**Leq:** 44.7 dB(A)  
**L01:** 56.5 dB(A)  
**L05:** 49.1 dB(A)  
**L10:** 45.9 dB(A)  
**L50:** 40.0 dB(A)  
**L90:** 37.1 dB(A)  
**L95:** 36.5 dB(A)  
**L99:** 35.7 dB(A)  
**LFmax:** 64.3 dB(A)  
**LFmin:** 34.8 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	33.7	63	35.7	315	24.8	1600	17.8	8000	19.9
16	27.8	80	31.6	400	22.9	2000	17.7	10000	20.0
20	20.0	100	31.6	500	20.8	2500	17.2	12500	20.3
25	26.0	125	28.7	630	18.4	3150	16.3	16000	22.1
31.5	24.7	160	30.0	800	18.4	4000	17.1	20000	23.1
40	33.3	200	27.0	1000	16.8	5000	17.8		
50	37.4	250	26.6	1250	17.1	6300	18.6		

Punto 11 T.H. (File N. 5) - Time History - Live (A Fast)  
 Punto 11 T.H. (File N. 5) - Time History - Live (A Fast)  
 Cumulativa





**Nome** Punto 11 T.H. (File N. 6)

Località scuola media inferiore "Cazzulani"

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note misure di rumore ambientale ad un metro dalla finestra aperta aula 1°C primo piano, verso via Vignati periodo diurno eventi mascherati: rumori provenienti da interno aule

Data: 16/02/2007

Ora: 9.26.50

Durata: 1509 sec

Intervallo: 0.125 sec

**Leq:** 51.0 dB(A)

**L01:** 60.6 dB(A)

**L05:** 55.3 dB(A)

**L10:** 53.1 dB(A)

**L50:** 48.0 dB(A)

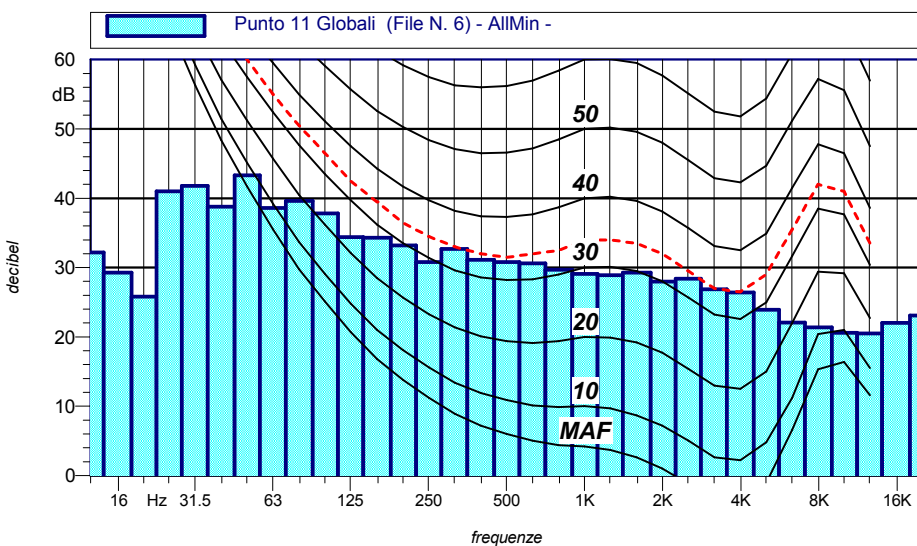
**L90:** 45.1 dB(A)

**L95:** 44.4 dB(A)

**L99:** 43.5 dB(A)

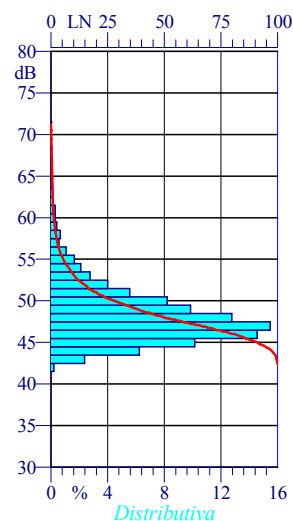
**LFmax:** 71.2 dB(A)

**LFmin:** 42.3 dB(A)



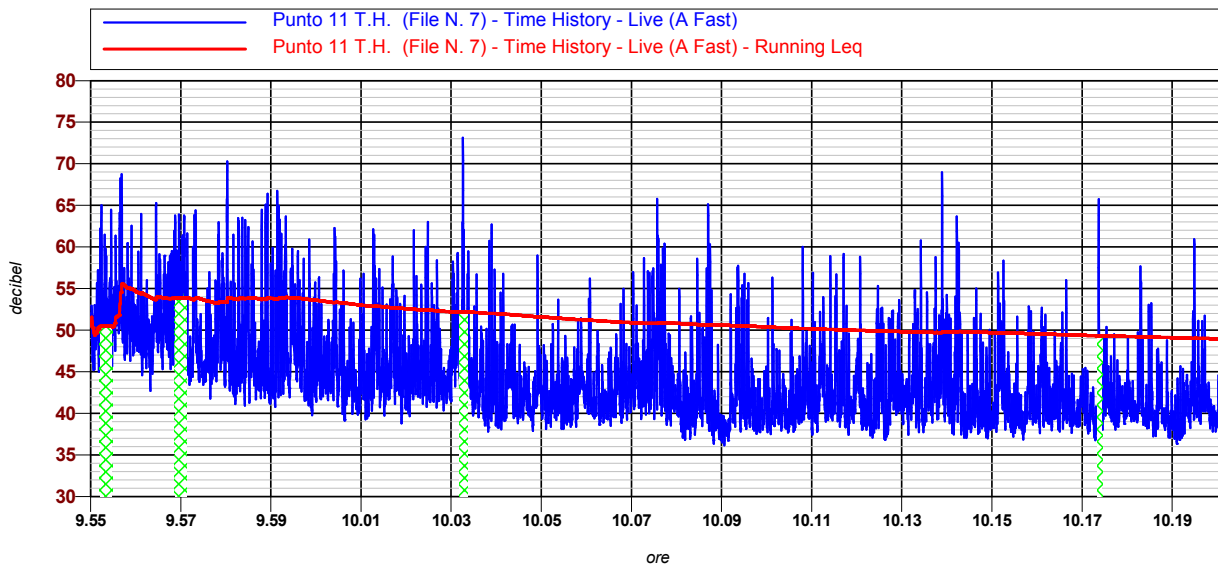
Punto 11 T.H. (File N. 6) - Time History - Live (A Fast)  
 Punto 11 T.H. (File N. 6) - Time History - Live (A Fast)

Cumulativa



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	32.2	63	38.6	315	32.7	1600	29.3	8000	21.4
16	29.3	80	39.6	400	31.1	2000	28.0	10000	20.6
20	25.8	100	37.8	500	30.8	2500	28.4	12500	20.5
25	41.0	125	34.4	630	30.6	3150	26.9	16000	22.0
31.5	41.8	160	34.3	800	29.7	4000	26.4	20000	23.1
40	38.8	200	33.2	1000	29.1	5000	23.9		
50	43.3	250	30.8	1250	28.9	6300	22.1		





**Nome** **Punto 11 T.H. (File N. 7)**

Località *scuola media inferiore "Cazzulani"*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *misure di rumore ambientale  
centro stanza a finestre chiuse  
aula 3ª D primo piano, verso via Dante  
periodo diurno  
eventi mascherati: rumori provenienti da interno aule*

**Leq:** **49.0 dB(A)**

**L01:** **60.4 dB(A)**

**L05:** **54.4 dB(A)**

**L10:** **51.4 dB(A)**

**L50:** **42.8 dB(A)**

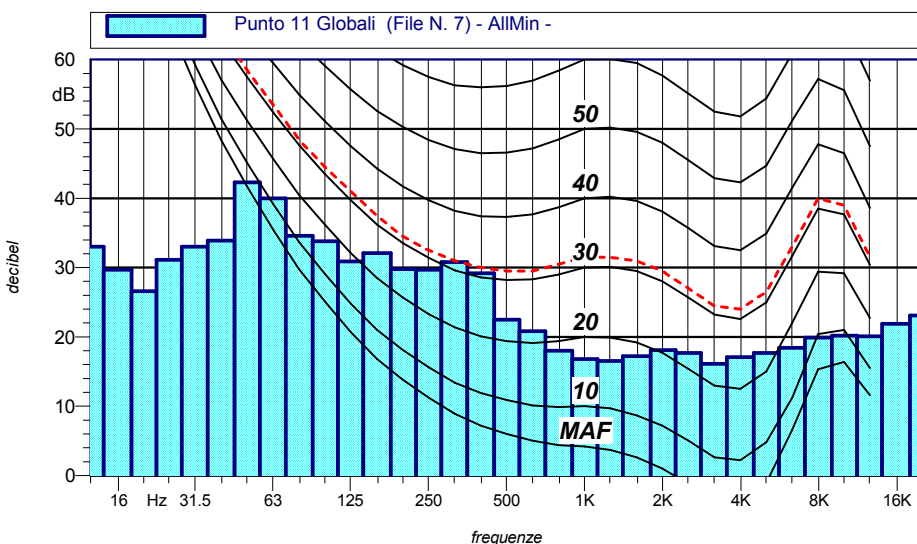
**L90:** **39.0 dB(A)**

**L95:** **38.4 dB(A)**

**L99:** **37.4 dB(A)**

**LFmax:** **70.3 dB(A)**

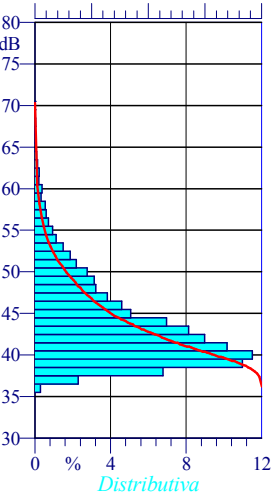
**LFmin:** **36.2 dB(A)**



Punto 11 T.H. (File N. 7) - AllMin -  
Time History - Live (A Fast)

Cumulativa

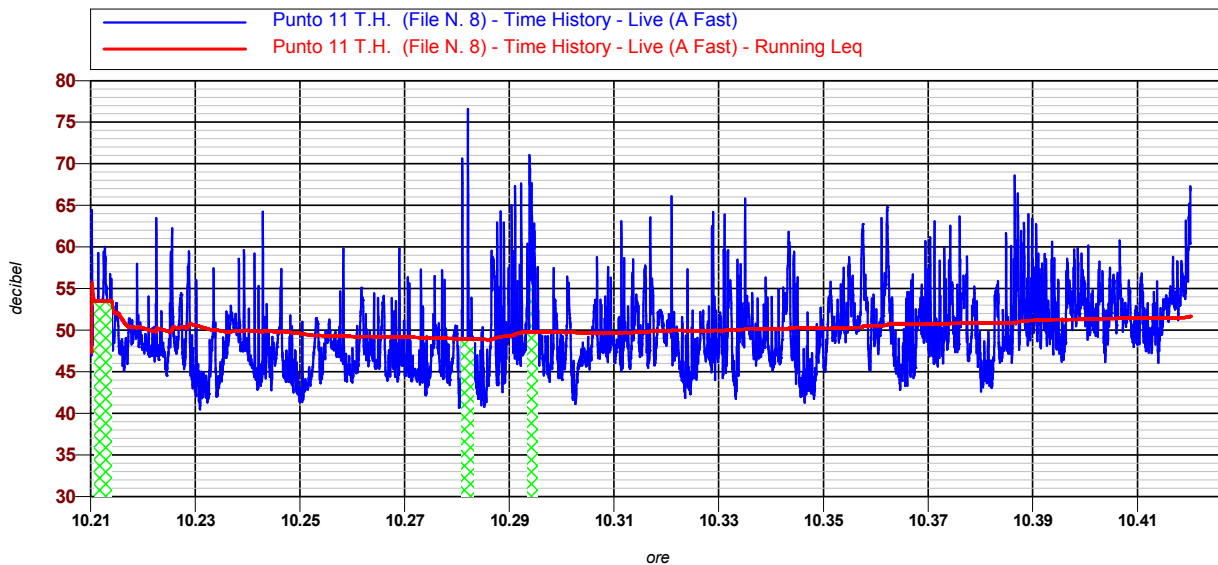
0 LN 25 50 75 100



Distributiva

Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	33.0	63	40.0	315	30.8	1600	17.2	8000	19.9
16	29.7	80	34.6	400	29.2	2000	18.1	10000	20.2
20	26.6	100	33.8	500	22.5	2500	17.7	12500	20.1
25	31.1	125	30.9	630	20.8	3150	16.1	16000	21.9
31.5	33.0	160	32.1	800	18.0	4000	17.1	20000	23.1
40	33.9	200	29.8	1000	16.8	5000	17.7		
50	42.3	250	29.7	1250	16.5	6300	18.4		





**Nome** Punto 11 T.H. (File N. 8)

Località scuola media inferiore "Cazzulani"

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note misure di rumore ambientale ad un metro dalla finestra aperta aula 3<sup>a</sup>D primo piano, verso via Dante periodo diurno eventi mascherati: rumori provenienti da interno aule

Data: 16/02/2007

Ora: 10.21.32

Durata: 1261 sec

Intervallo: 0.125 sec

**Leq:** 51.7 dB(A)

**L01:** 61.5 dB(A)

**L05:** 56.5 dB(A)

**L10:** 54.6 dB(A)

**L50:** 48.6 dB(A)

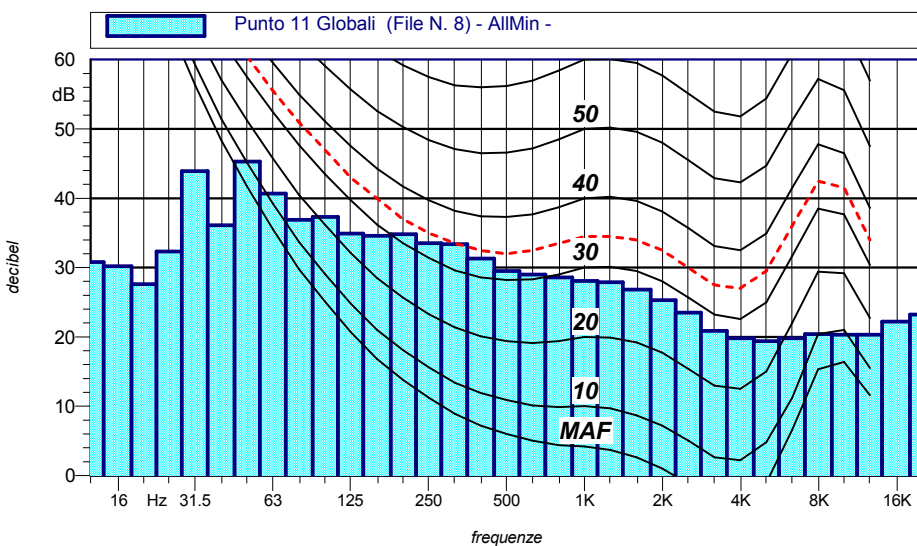
**L90:** 44.4 dB(A)

**L95:** 43.4 dB(A)

**L99:** 42.0 dB(A)

**LFmax:** 68.6 dB(A)

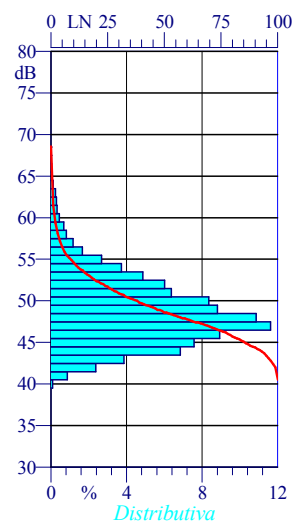
**LFmin:** 40.5 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.8	63	40.7	315	33.4	1600	26.8	8000	20.4
16	30.2	80	36.9	400	31.3	2000	25.3	10000	20.3
20	27.6	100	37.3	500	29.5	2500	23.5	12500	20.3
25	32.3	125	34.9	630	29.0	3150	20.9	16000	22.2
31.5	43.9	160	34.6	800	28.6	4000	19.8	20000	23.2
40	36.1	200	34.8	1000	28.1	5000	19.4		
50	45.3	250	33.5	1250	27.9	6300	19.8		

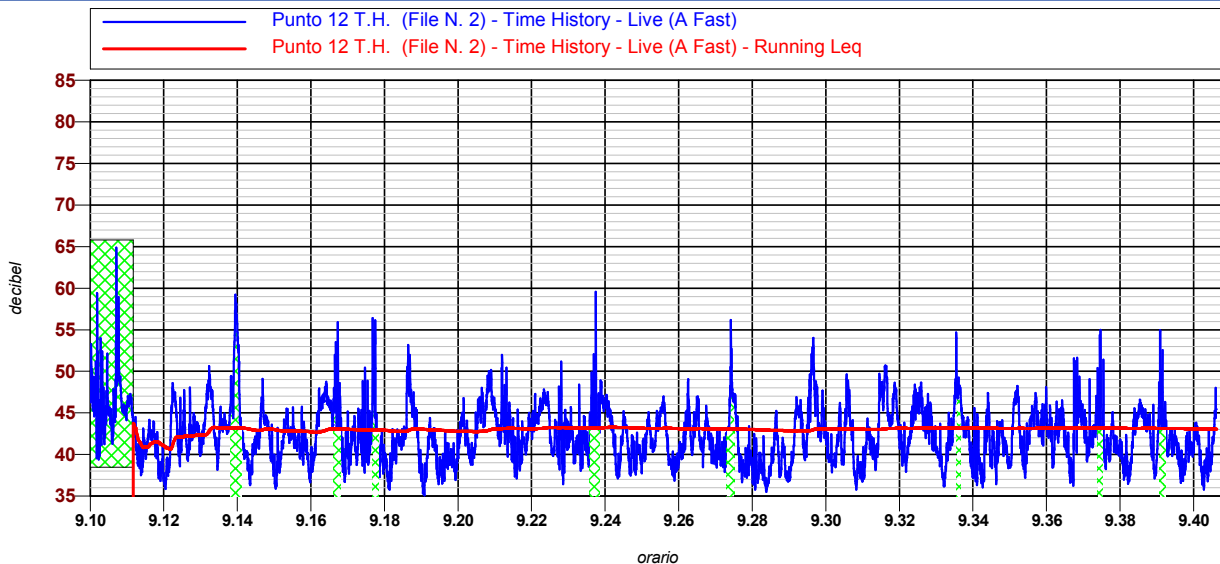
Punto 11 T.H. (File N. 8) - AllMin -  
Time History - Live (A Fast)

Cumulativa



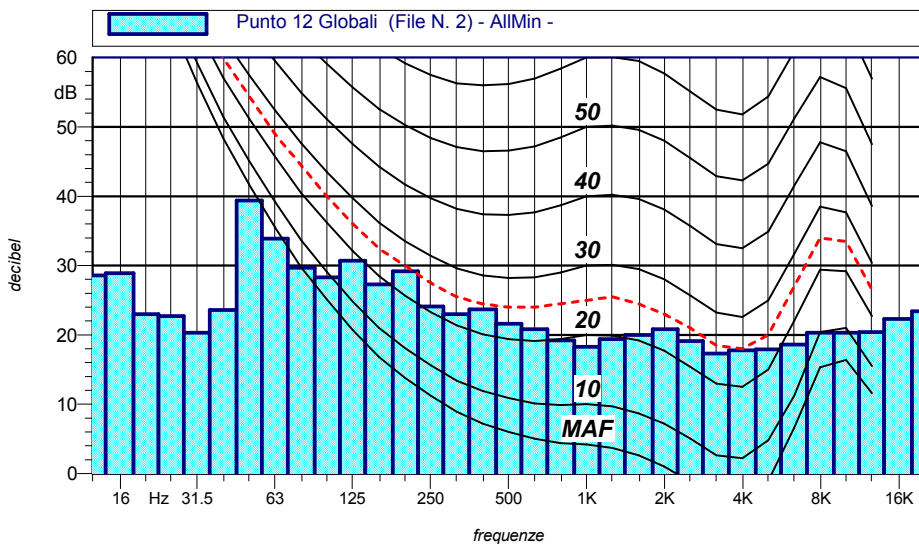
Distributiva



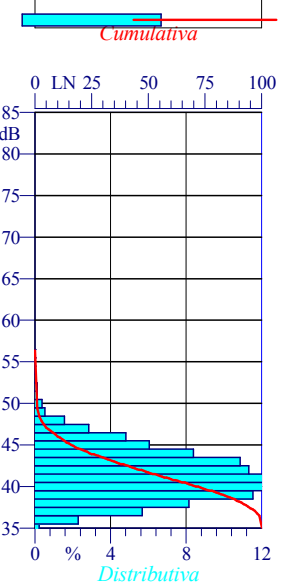


**Nome** Punto 12 T.H. (File N. 2)  
**Località** scuola media infeiore " Don Milani" **Data:** 21/02/2007  
**Strumentazione** Larson-Davis 824 **Ora:** 9.10.20  
**Calibratore** Larson-Davis CAL 200 **Durata:** 1836 sec  
**Operatore** P. Zaneboni, D. Ciceri **Intervallo:** 0.125 sec  
**Note** Misure di rumore ambientale  
 centro stanza a finestre chiuse  
 aula 1°C piano primo affacciata su viale Europa  
 periodo diurno  
 eventi mascherati: rumori provenienti interno aule

**Leq:** 43.1 dB(A)  
**L01:** 49.4 dB(A)  
**L05:** 47.1 dB(A)  
**L10:** 46.0 dB(A)  
**L50:** 41.7 dB(A)  
**L90:** 38.2 dB(A)  
**L95:** 37.4 dB(A)  
**L99:** 36.5 dB(A)  
**LFmax:** 56.4 dB(A)  
**LFmin:** 35.1 dB(A)

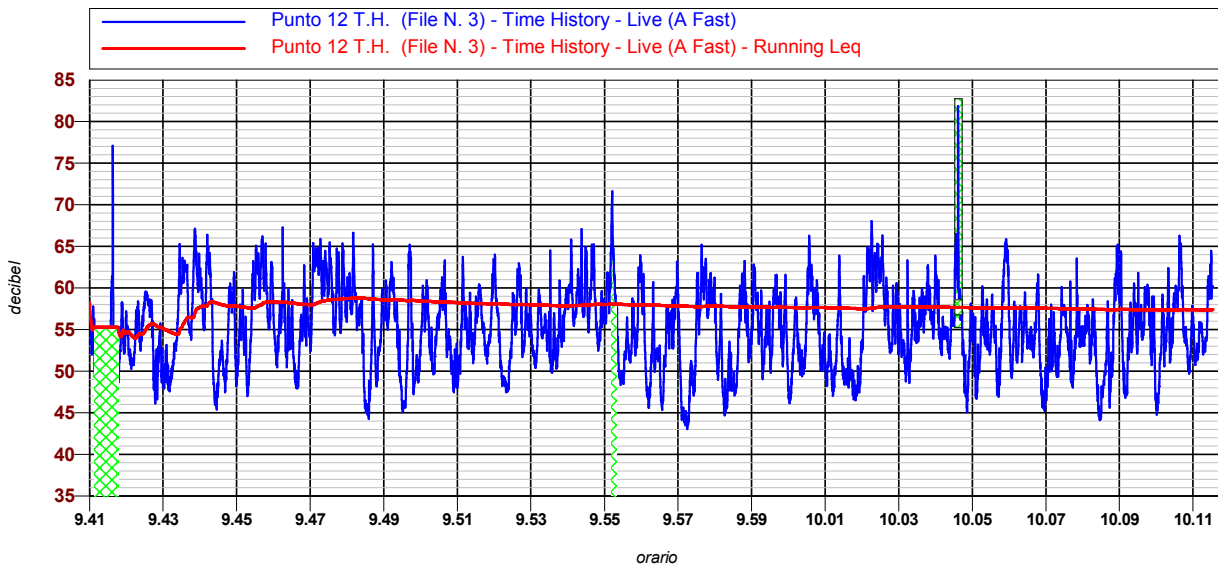


Punto 12 T.H. (File N. 2) - Time History - Live (A Fast)  
 12 T.H. (File N. 2) - Time History - Live (A Fast)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	28.6	63	33.9	315	23.0	1600	20.0	8000	20.3
16	28.9	80	29.7	400	23.7	2000	20.8	10000	20.3
20	23.0	100	28.3	500	21.6	2500	19.1	12500	20.4
25	22.7	125	30.7	630	20.8	3150	17.3	16000	22.3
31.5	20.3	160	27.3	800	19.2	4000	17.8	20000	23.4
40	23.6	200	29.2	1000	18.3	5000	17.9		
50	39.4	250	24.1	1250	19.4	6300	18.6		





**Nome** **Punto 12 T.H. (File N. 3)**

**Località** scuola media infeiore " Don Milani" **Data:** 21/02/2007

**Strumentazione** Larson-Davis 824 **Ora:** 9.41.55

**Calibratore** Larson-Davis CAL 200 **Durata:** 1831 sec

**Operatore** P. Zaneboni, D. Ciceri **Intervallo:** 0.125 sec

**Note** Misure di rumore ambientale ad un metro dalla finestra aperta aula 1°C piano primo affacciata su viale Europa periodo diurno eventi mascherati: rumori provenienti interno aule

**Leq:** 57.4 dB(A)

**L01:** 64.9 dB(A)

**L05:** 62.8 dB(A)

**L10:** 61.3 dB(A)

**L50:** 54.9 dB(A)

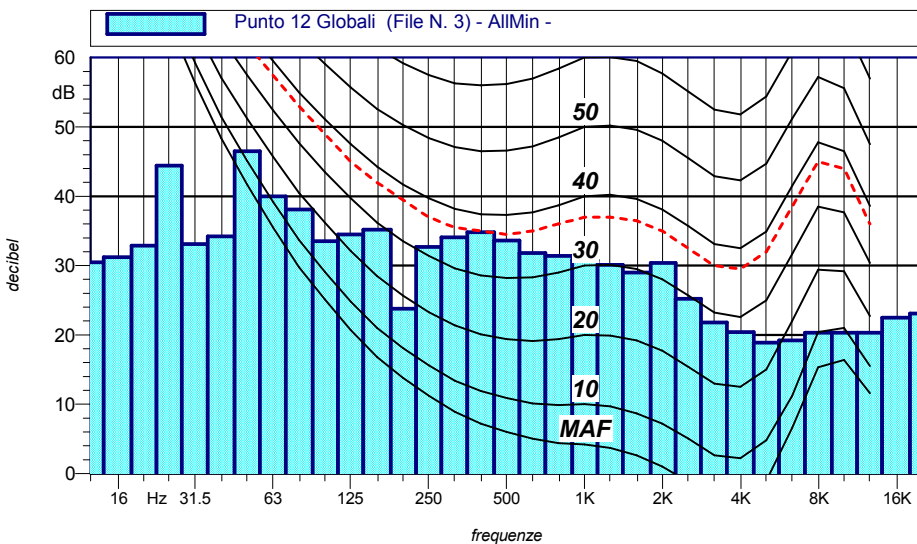
**L90:** 48.6 dB(A)

**L95:** 47.3 dB(A)

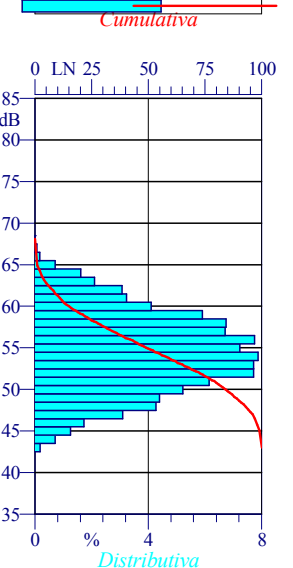
**L99:** 45.1 dB(A)

**LFmax:** 68.1 dB(A)

**LFmin:** 43.0 dB(A)



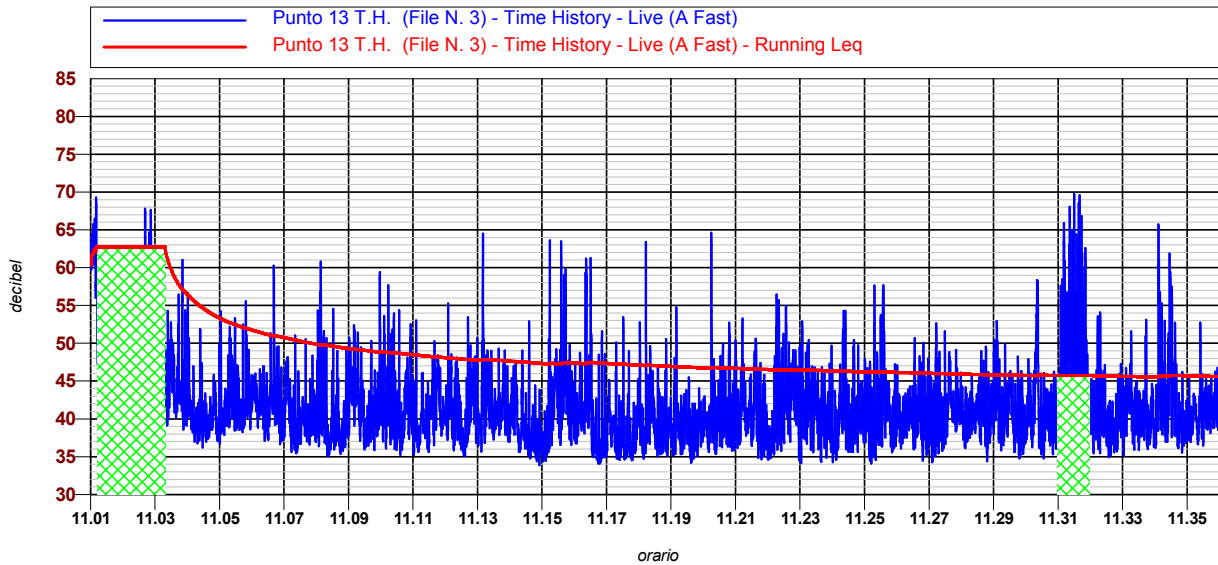
Punto 12 T.H. (File N. 3) - AllMin -  
Time History - Live (A Fast) - Live (A Fast)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.5	63	40.0	315	34.1	1600	29.0	8000	20.3
16	31.2	80	38.1	400	34.8	2000	30.4	10000	20.3
20	32.9	100	33.5	500	33.6	2500	25.2	12500	20.3
25	44.4	125	34.5	630	31.8	3150	21.8	16000	22.5
31.5	33.1	160	35.2	800	31.4	4000	20.4	20000	23.1
40	34.2	200	23.8	1000	30.8	5000	18.9		
50	46.5	250	32.7	1250	30.1	6300	19.2		







**Nome** Punto 13 T.H. (File N. 3)

**Località** Istituto Tecnico Industriale ITIS "A. Volta"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misura di rumore ambientale  
 piano primo, centro stanza a finestre chiuse  
 aula 6, classe 5ªEA affacciata su via Giovanni XXIII  
 periodo diurno  
 eventi mascherati: rumori provenienti interno aule e  
 passaggio personale e studenti nei corridoi

**Leq:** 45.6 dB(A)

**L01:** 57.7 dB(A)

**L05:** 48.6 dB(A)

**L10:** 45.9 dB(A)

**L50:** 40.3 dB(A)

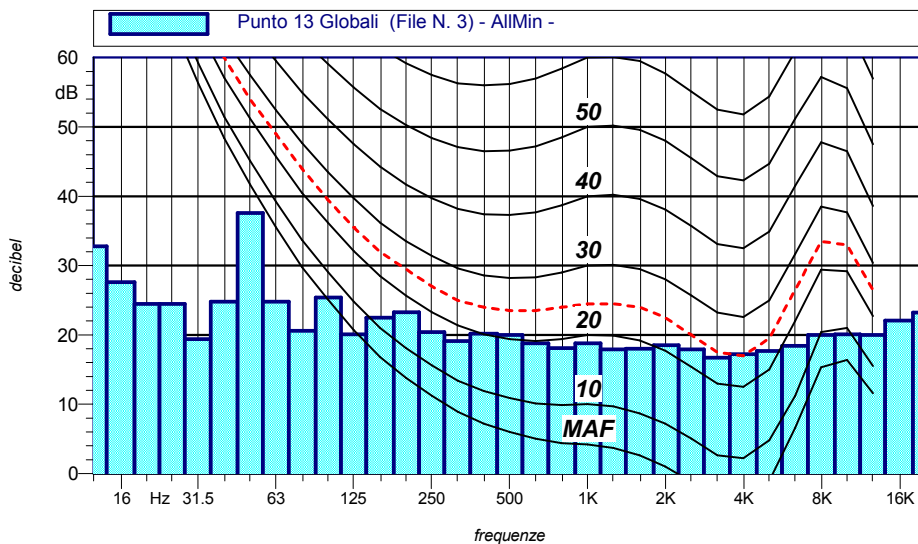
**L90:** 36.7 dB(A)

**L95:** 35.9 dB(A)

**L99:** 34.9 dB(A)

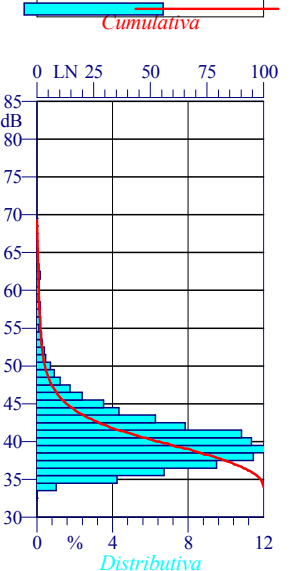
**LFmax:** 69.3 dB(A)

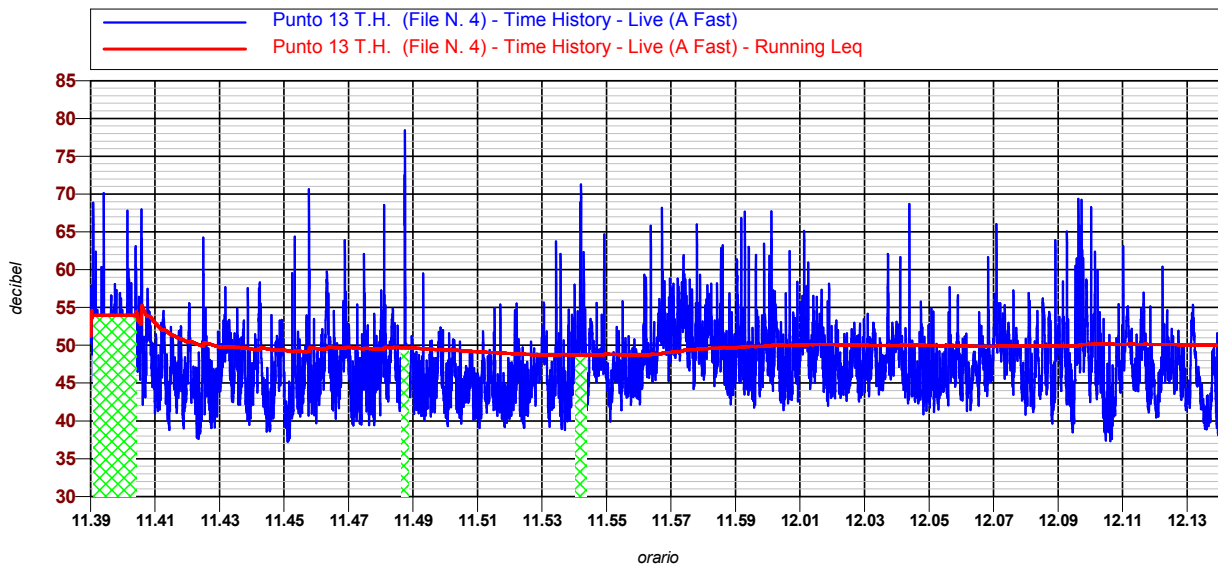
**LFmin:** 33.9 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	32.8	63	24.8	315	19.1	1600	18.0	8000	20.0
16	27.6	80	20.6	400	20.2	2000	18.5	10000	20.1
20	24.5	100	25.4	500	20.0	2500	17.9	12500	20.0
25	24.5	125	20.1	630	18.8	3150	16.7	16000	22.1
31.5	19.4	160	22.5	800	18.1	4000	17.2	20000	23.2
40	24.8	200	23.3	1000	18.8	5000	17.7		
50	37.6	250	20.4	1250	17.9	6300	18.4		

Punto 13 T.H. (File N. 3) - Time History - Live (A Fast)  
 13 T.H. (File N. 3) - Time History - Live (A Fast)





**Nome** **Punto 13 T.H. (File N. 4)**

**Località** Istituto Tecnico Industriale ITIS "A. Volta"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note**

*misura di rumore ambientale  
piano primo, ad un metro dalla finestra aperta  
aula 6, classe 5ªEA affacciata su via Giovanni XXIII  
periodo diurno  
eventi mascherati: rumori provenienti interno aule e  
passaggio personale e studenti nei corridoi*

**Leq:** 50.0 dB(A)

**L01:** 59.4 dB(A)

**L05:** 54.4 dB(A)

**L10:** 52.5 dB(A)

**L50:** 46.8 dB(A)

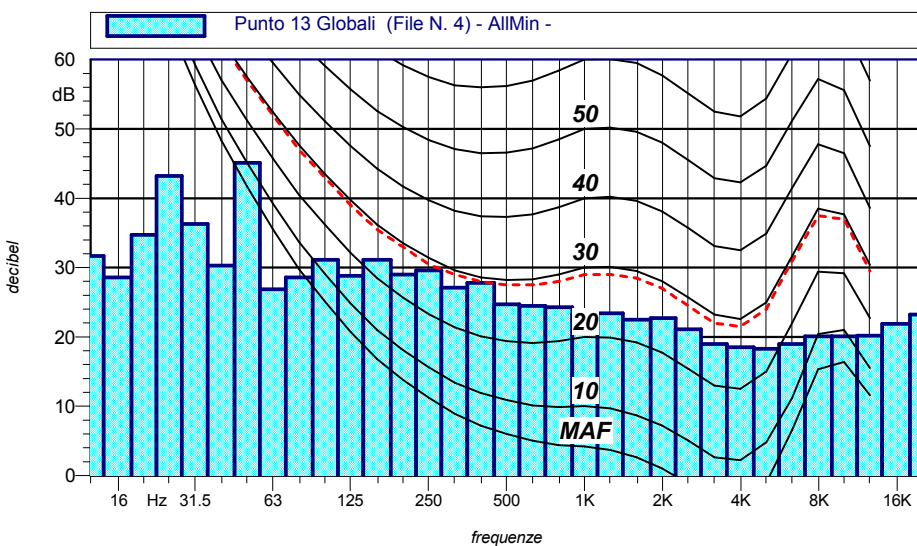
**L90:** 42.1 dB(A)

**L95:** 41.0 dB(A)

**L99:** 39.1 dB(A)

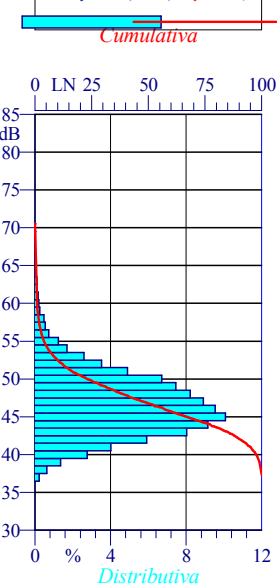
**LFmax:** 70.6 dB(A)

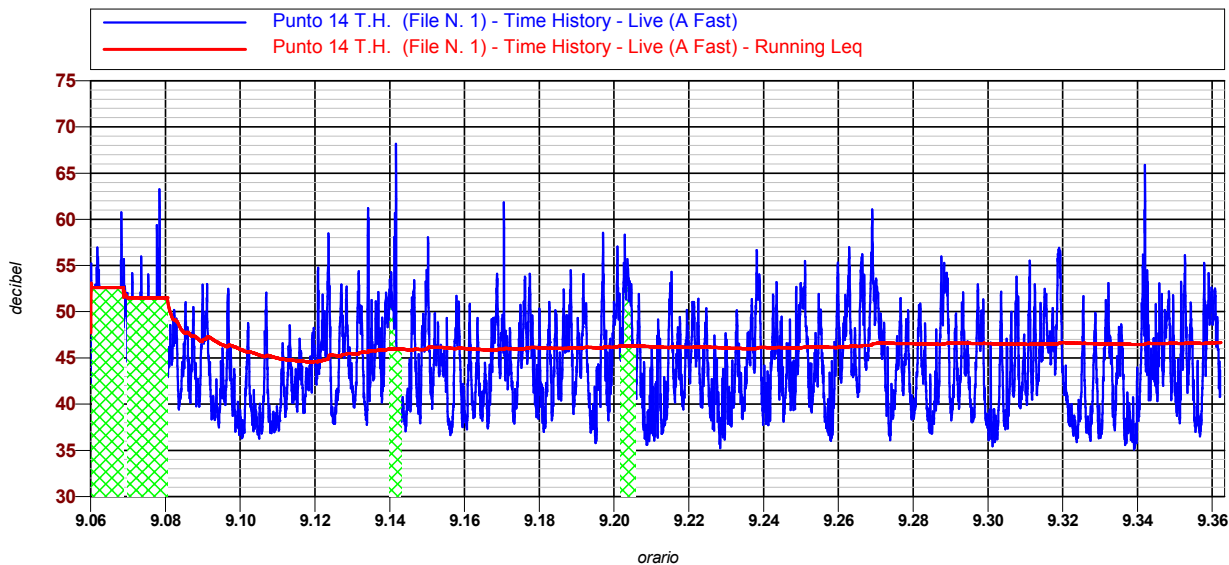
**LFmin:** 37.2 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	31.7	63	26.9	315	27.1	1600	22.5	8000	20.1
16	28.6	80	28.6	400	27.8	2000	22.7	10000	20.1
20	34.7	100	31.1	500	24.7	2500	21.1	12500	20.2
25	43.2	125	28.8	630	24.5	3150	19.0	16000	21.9
31.5	36.3	160	31.1	800	24.3	4000	18.5	20000	23.2
40	30.3	200	29.0	1000	23.3	5000	18.3		
50	45.1	250	29.6	1250	23.4	6300	19.0		

Punto 13 T.H. (File N. 4) - AllMin -  
Time History - Live (A Fast) - Cumulativa





**Nome** Punto 14 T.H. (File N. 1)

**Località** scuola elementare " Pascoli "

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note**

Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula 1°C piano primo affacciata su viale Italia  
periodo diurno  
eventi mascherati: rumori generati da personale all'esterno dell'aula

**Leq:** 46.6 dB(A)

**L01:** 55.0 dB(A)

**L05:** 52.0 dB(A)

**L10:** 50.3 dB(A)

**L50:** 43.6 dB(A)

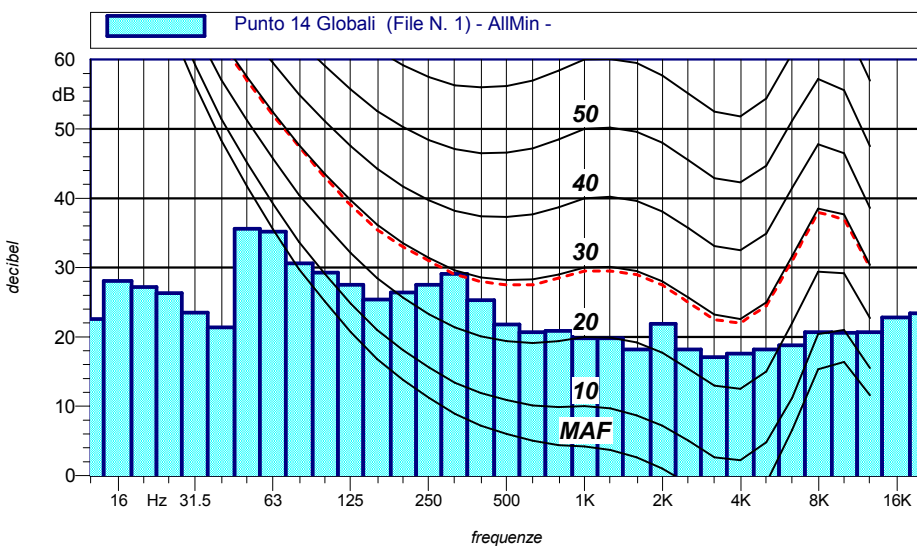
**L90:** 38.2 dB(A)

**L95:** 37.4 dB(A)

**L99:** 36.4 dB(A)

**LFmax:** 65.9 dB(A)

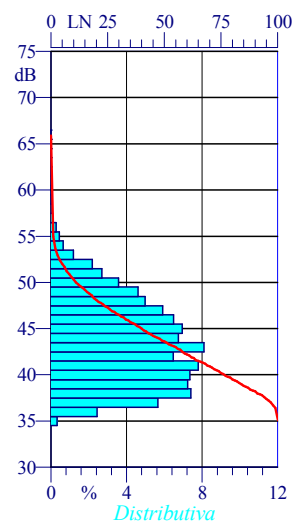
**LFmin:** 35.1 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	22.6	63	35.2	315	29.1	1600	18.2	8000	20.7
16	28.1	80	30.6	400	25.3	2000	21.9	10000	20.6
20	27.2	100	29.3	500	21.8	2500	18.2	12500	20.7
25	26.3	125	27.5	630	20.7	3150	17.1	16000	22.8
31.5	23.5	160	25.4	800	20.9	4000	17.6	20000	23.4
40	21.4	200	26.4	1000	19.8	5000	18.2		
50	35.6	250	27.5	1250	19.8	6300	18.8		

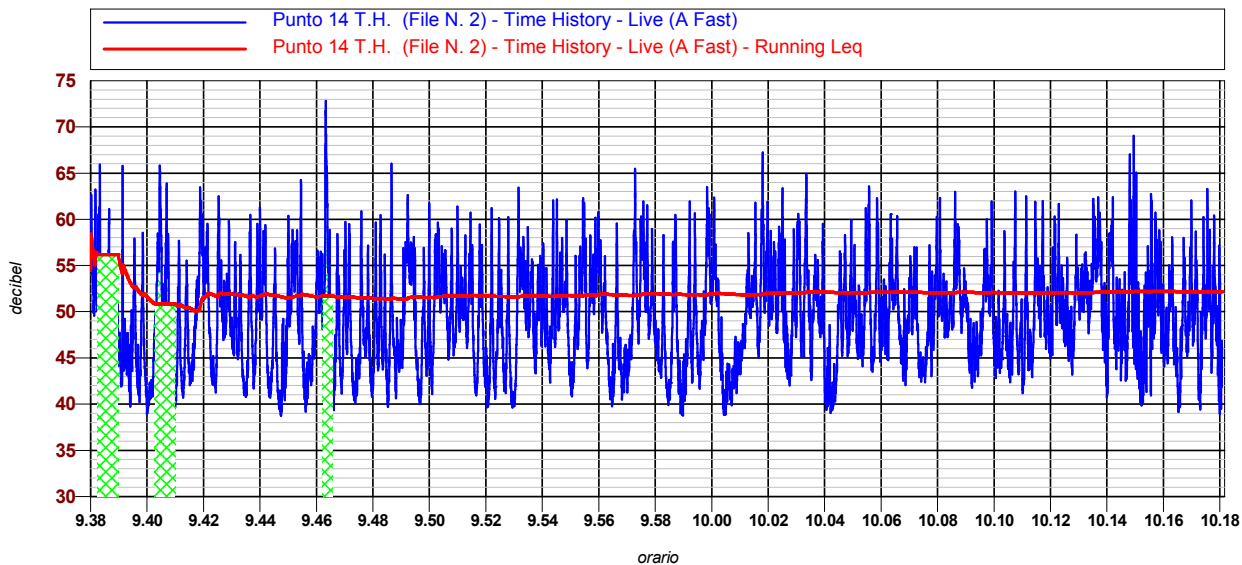
Punto 14 T.H. (File N. 1) - AllMin -  
Time History - Live (A Fast)

Cumulativa



Distributiva





**Nome** Punto 14 T.H. (File N. 2)

**Località** scuola elementare " Pascoli "

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale ad un metro dalla finestra aperta aula 1°C piano primo affacciata su viale Italia periodo diurno eventi mascherati: provocati da passanti verso le campane del vetro

**Leq:** 52.2 dB(A)

**L01:** 61.0 dB(A)

**L05:** 57.7 dB(A)

**L10:** 56.0 dB(A)

**L50:** 48.9 dB(A)

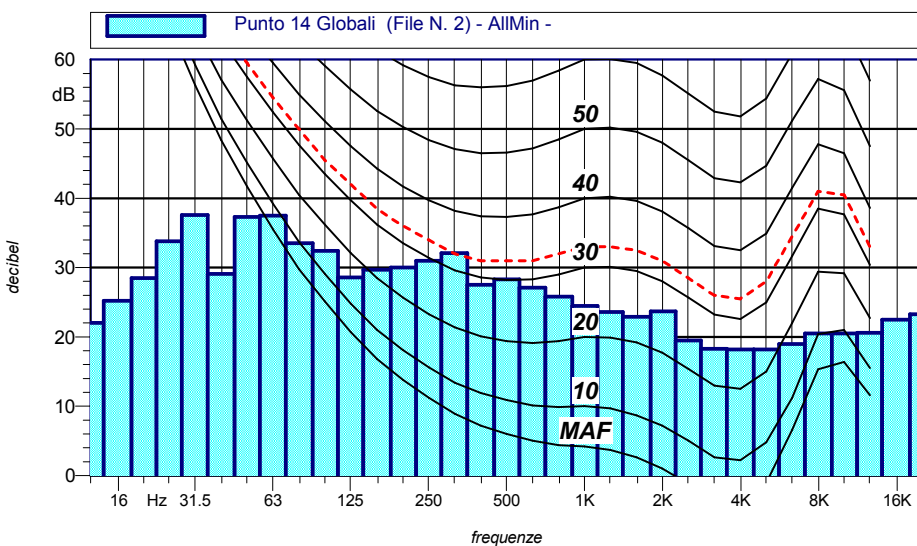
**L90:** 42.4 dB(A)

**L95:** 41.3 dB(A)

**L99:** 39.9 dB(A)

**LFmax:** 69.0 dB(A)

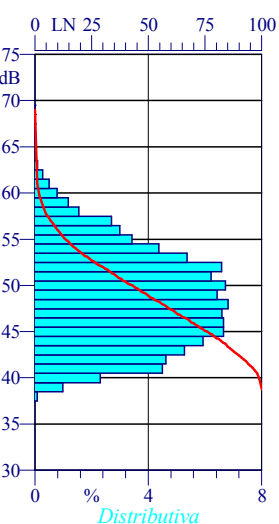
**LFmin:** 38.7 dB(A)

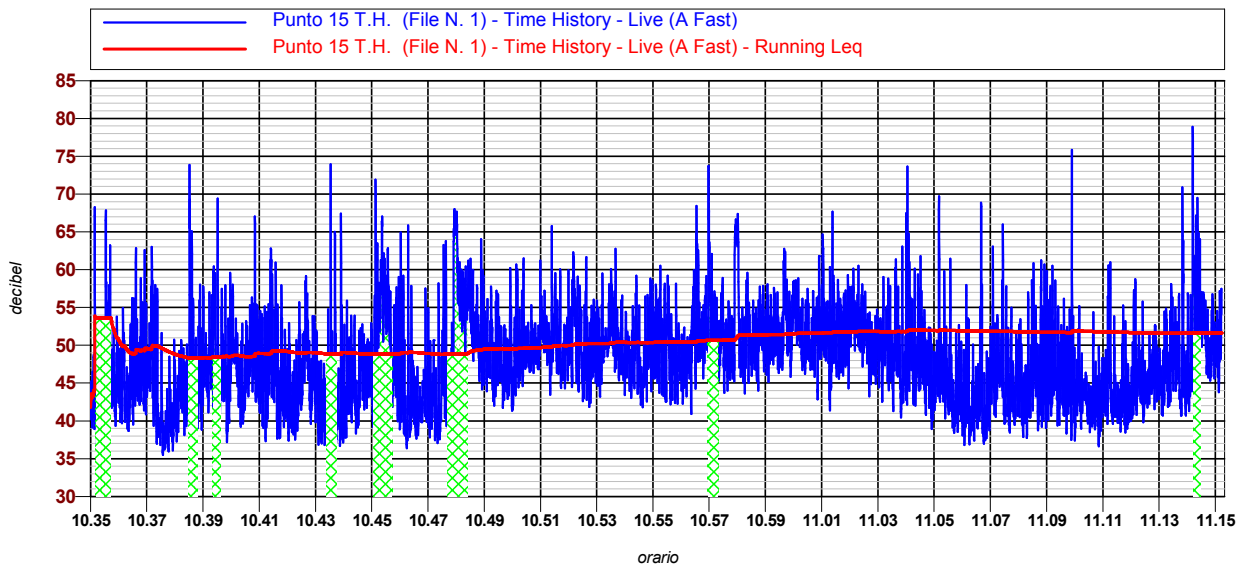


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	22.0	63	37.5	315	32.1	1600	22.9	8000	20.5
16	25.2	80	33.5	400	27.5	2000	23.7	10000	20.5
20	28.5	100	32.4	500	28.3	2500	19.5	12500	20.6
25	33.8	125	28.6	630	27.1	3150	18.3	16000	22.5
31.5	37.6	160	29.7	800	25.8	4000	18.2	20000	23.3
40	29.1	200	30.0	1000	24.5	5000	18.2		
50	37.3	250	31.0	1250	23.6	6300	19.0		

Punto 14 T.H. (File N. 2) - Time History - Live (A Fast)

Punto 14 T.H. (File N. 2) - Time History - Live (A Fast) - Running Leq





**Nome** **Punto 15 T.H. (File N. 1)**

Località Scuola media superiore "Villa Igea"

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note  
 misura di rumore ambientale  
 piano primo, centro stanza a finestre chiuse  
 aula 2<sup>a</sup> "AGROTECNICO" affacciata su SP 107  
 periodo diurno  
 eventi mascherati: rumori provenienti da interno aule e  
 studenti passanti in corridoio

**Leq:** **51.6 dB(A)**

**L01:** **61.8 dB(A)**

**L05:** **56.3 dB(A)**

**L10:** **54.4 dB(A)**

**L50:** **47.5 dB(A)**

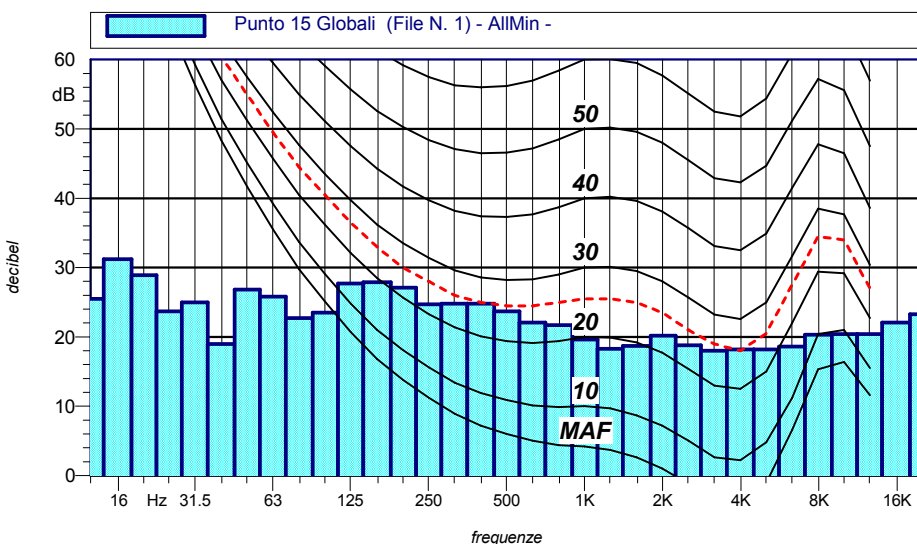
**L90:** **41.0 dB(A)**

**L95:** **39.8 dB(A)**

**L99:** **37.9 dB(A)**

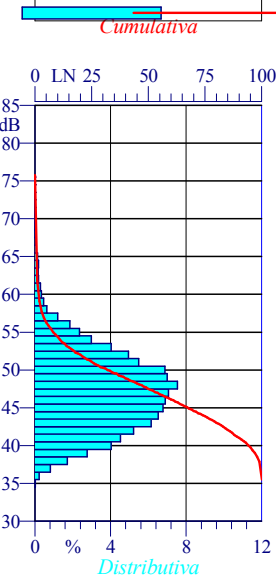
**LFmax:** **75.8 dB(A)**

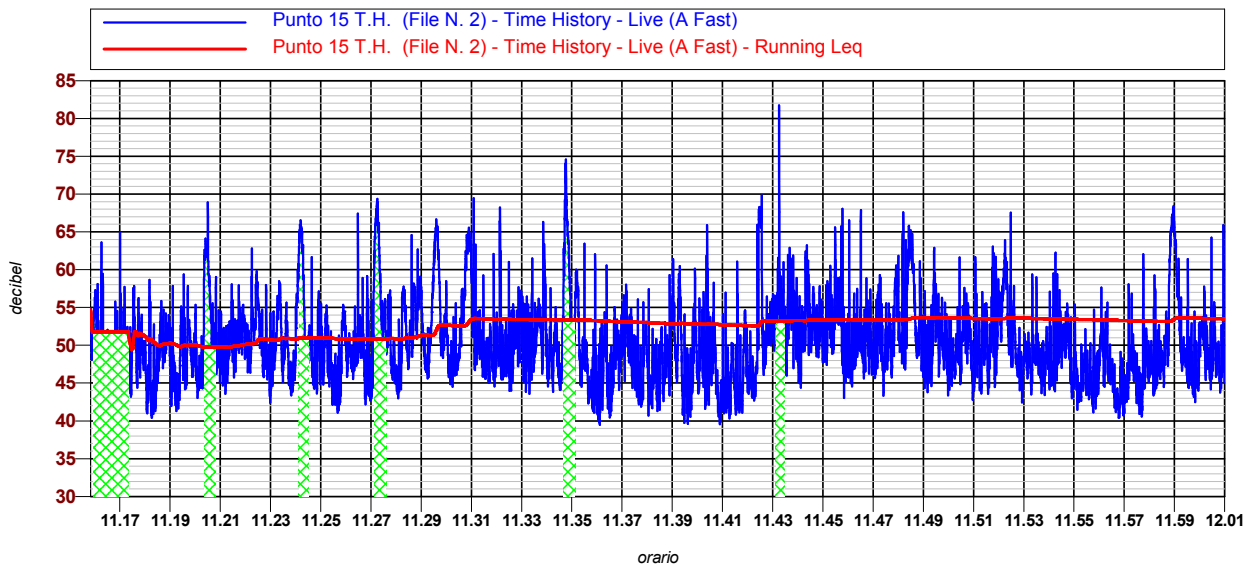
**LFmin:** **35.5 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	25.5	63	25.8	315	24.8	1600	18.7	8000	20.3
16	31.2	80	22.7	400	24.8	2000	20.2	10000	20.4
20	28.9	100	23.5	500	23.7	2500	18.8	12500	20.4
25	23.7	125	27.7	630	22.1	3150	18.0	16000	22.1
31.5	25.0	160	27.9	800	21.7	4000	18.2	20000	23.3
40	19.0	200	27.1	1000	19.6	5000	18.2		
50	26.8	250	24.7	1250	18.3	6300	18.6		

Punto 15 T.H. (File N. 1) - AllMin -  
 Punto 15 T.H. (File N. 1) - Time History - Live (A Fast) - Cumulativa





**Nome** Punto 15 T.H. (File N. 2)

Località Scuola media superiore "Villa Igea"

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note  
 misura di rumore ambientale  
 piano primo, ad un metro dalla finestra aperta  
 aula 2ªA "AGROTECNICO" affacciata su SP 107  
 periodo diurno  
 eventi mascherati: rumori provenienti da interno aule e  
 studenti passanti in corridoio

**Leq:** 53.5 dB(A)

**L01:** 65.0 dB(A)

**L05:** 58.7 dB(A)

**L10:** 55.9 dB(A)

**L50:** 49.2 dB(A)

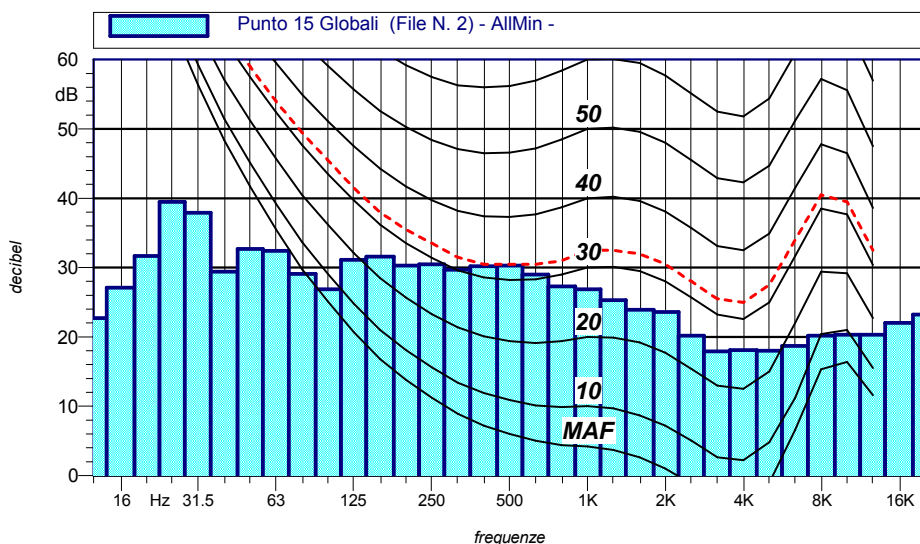
**L90:** 44.3 dB(A)

**L95:** 43.1 dB(A)

**L99:** 41.4 dB(A)

**LFmax:** 69.8 dB(A)

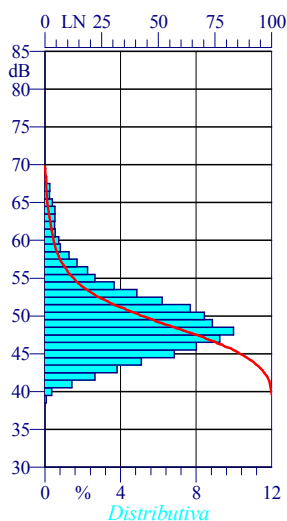
**LFmin:** 39.5 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	22.7	63	32.4	315	29.7	1600	23.9	8000	20.2
16	27.1	80	29.1	400	30.2	2000	23.6	10000	20.3
20	31.7	100	26.9	500	30.3	2500	20.2	12500	20.3
25	39.5	125	31.1	630	29.0	3150	17.9	16000	22.0
31.5	37.9	160	31.6	800	27.3	4000	18.1	20000	23.2
40	29.4	200	30.3	1000	26.9	5000	18.0		
50	32.7	250	30.5	1250	25.3	6300	18.7		

Punto 15 T.H. (File N. 2) - AllMin -  
 15 T.H. (File N. 2)  
 Time History - Live (A Fast)

Cumulativa



Distributiva





## MISURAZIONI DI BREVE PERIODO PUNTI 16 E 17

Punto di misura	Descrizione	Data	Ora misura	Durata misura (sec.)	Rumorosità misurata – ( $L_{eq}$ - dB(A))					
					Periodo diurno			Periodo notturno		
					AMB. EST.	F.A. <sup>1</sup>	F.C. <sup>2</sup>	AMB. EST.	F.A. <sup>1</sup>	F.C. <sup>2</sup>
16	via G. Amendola	11/04/07	16.00	4800	66,2	-	-	-	-	-
			22.00	3600	-	-	-	60,5	-	-
<b>Altri parametri misurati</b>										
LMAX dB(A) Fast					88,4	-	-	81,1	-	-
LPKdB(A) Fast					96,6	-	-	98,5	-	-
L5 dB(A) Fast					70,0	-	-	65,3	-	-
L10 dB(A) Fast					68,5	-	-	63,8	-	-
L50 dB(A) Fast					63,6	-	-	57,5	-	-
L90 dB(A) Fast					59,1	-	-	51,6	-	-
L95 dB(A) Fast					57,8	-	-	50,1	-	-
<b>Note</b>										
La misurazione è stata eseguita a 4 mt. di altezza ed in contemporanea con la misura eseguita nel punto C.										

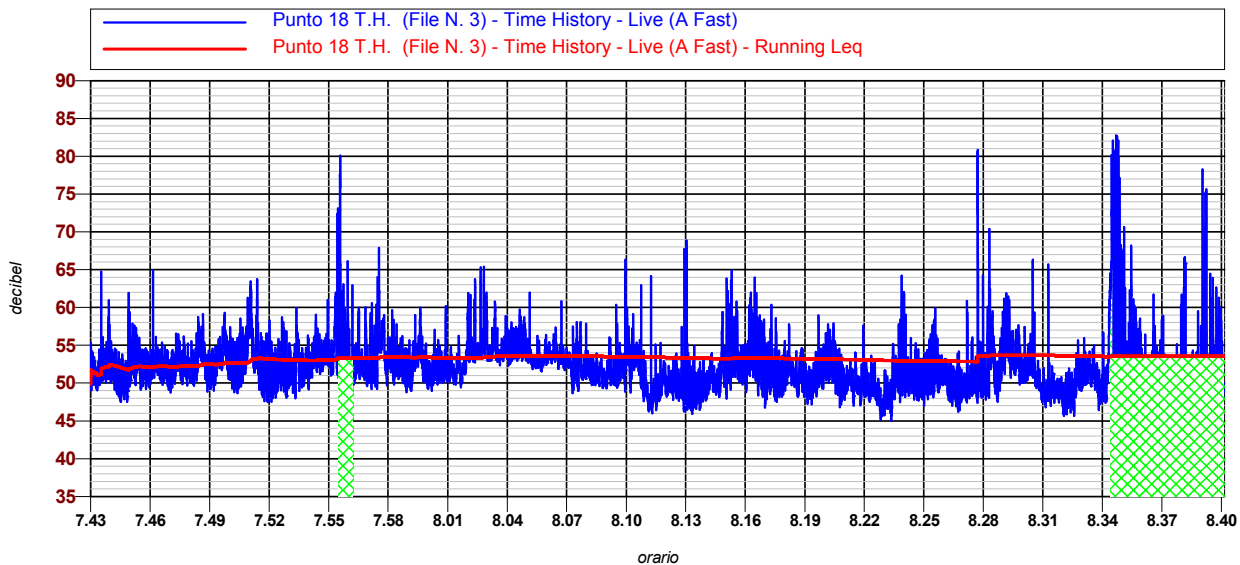
Comm. n.	09210	Cliente	Comune di Lodi		Tipo lavoro	Piano di risanamento acustico	
Emesso da	ing. Paolo Zaneboni		Validato da	ing. Edoardo Galatola	Referente aziendale	ing. Matteo Zanchi	
<i>Stato di revisione del documento</i>							
Rev.	00	Data agg.	21 giugno 2010	Tipo documento	Report Finale	N. pag.	1 di 2



Punto di misura	Descrizione	Data	Ora misura	Durata misura (sec.)	Rumorosità misurata – ( $L_{eq}$ - dB(A))					
					Periodo diurno			Periodo notturno		
					AMB. EST.	F.A. <sup>1</sup>	F.C. <sup>2</sup>	AMB. EST.	F.A. <sup>1</sup>	F.C. <sup>2</sup>
17	via Lunigiana	11/04/07	17.35	3600	58,9	-	-	-	-	-
			23.17	3600	-	-	-	59,0	-	-
<b>Altri parametri misurati</b>										
LMAX dB(A) Fast					87,3	-	-	85,4	-	-
LPKdB(A) Fast					106,1	-	-	103,9	-	-
L5 dB(A) Fast					60,5	-	-	63,4	-	-
L10 dB(A) Fast					58,2	-	-	59,4	-	-
L50 dB(A) Fast					52,6	-	-	48,9	-	-
L90 dB(A) Fast					49,7	-	-	44,8	-	-
L95 dB(A) Fast					49,0	-	-	43,8	-	-
<b>Note</b>										
La misurazione è stata eseguita a 4 mt. di altezza ed in contemporanea con la misura eseguita nel punto C.										

Comm. n.	09210	Cliente	Comune di Lodi		Tipo lavoro	Piano di risanamento acustico	
Emesso da	ing. Paolo Zaneboni		Validato da	ing. Edoardo Galatola	Referente aziendale	ing. Matteo Zanchi	
<i>Stato di revisione del documento</i>							
Rev.	00	Data agg.	21 giugno 2010	Tipo documento	Report Finale	N. pag.	2 di 2





**Nome** Punto 18 T.H. (File N. 3)

**Località** Via Battaglie di Cassano, Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale periodo diurno a 20 metri dalla barriera acustica svincolo tangenziale est Lodi, civico 6 eventi mascherati: colpo di clacson e furgone traslocchi in manovra nella via

**Leq:** 53.5 dB(A)

**L01:** 60.1 dB(A)

**L05:** 56.4 dB(A)

**L10:** 54.9 dB(A)

**L50:** 51.5 dB(A)

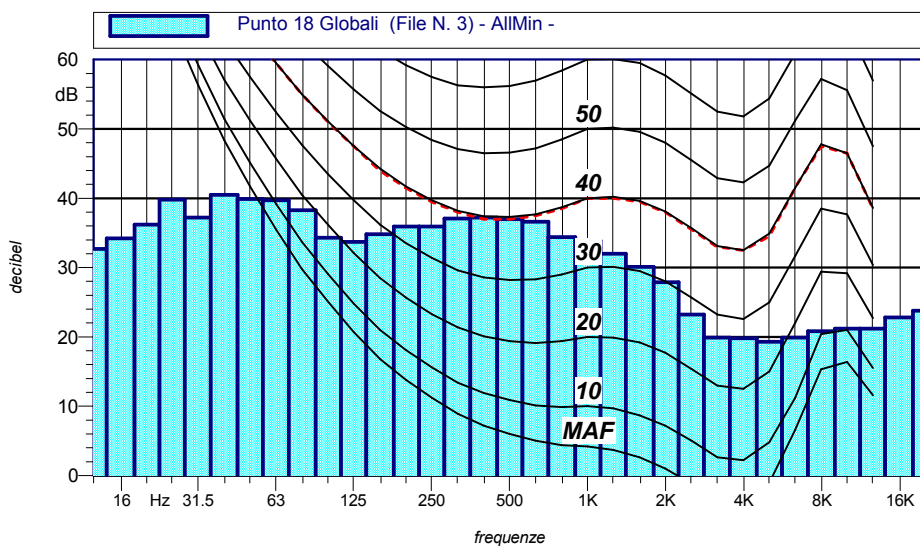
**L90:** 48.8 dB(A)

**L95:** 48.2 dB(A)

**L99:** 46.9 dB(A)

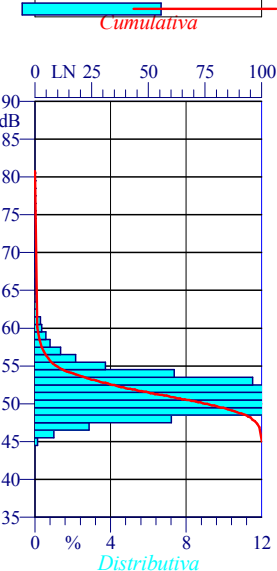
**LFmax:** 80.8 dB(A)

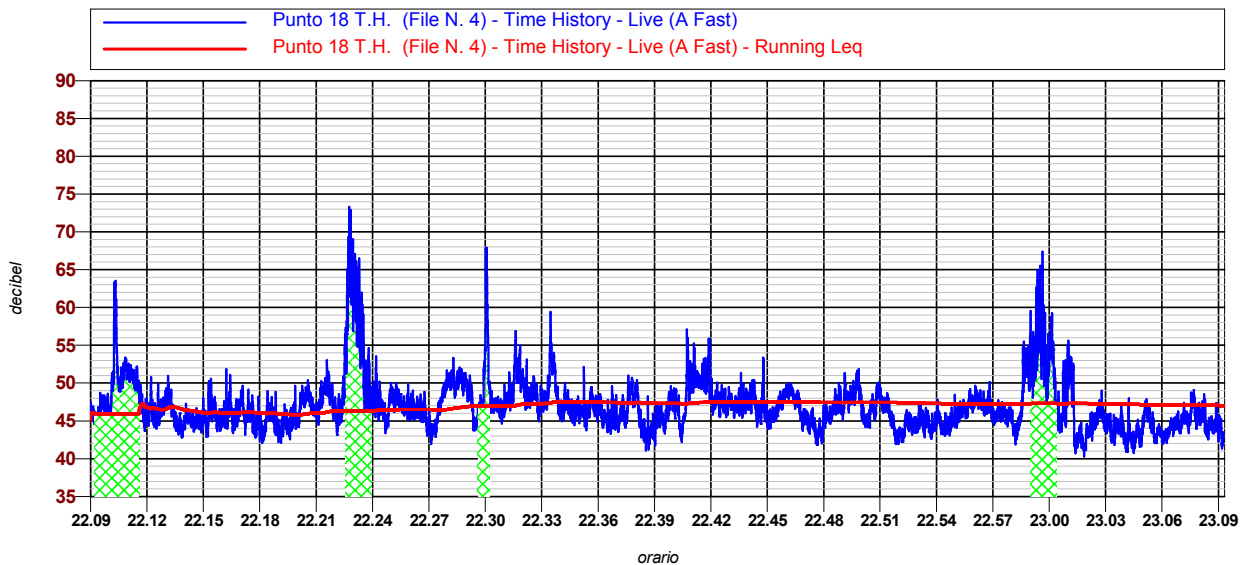
**LFmin:** 45.0 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	32.7	63	39.7	315	37.1	1600	30.1	8000	20.8
16	34.2	80	38.3	400	37.2	2000	27.9	10000	21.2
20	36.2	100	34.3	500	37.0	2500	23.2	12500	21.2
25	39.8	125	33.7	630	36.6	3150	19.9	16000	22.8
31.5	37.2	160	34.8	800	34.4	4000	19.8	20000	23.8
40	40.5	200	35.9	1000	33.9	5000	19.3		
50	39.9	250	35.9	1250	32.0	6300	19.9		

Punto 18 T.H. (File N. 3) - AllMin -  
Punto 18 T.H. (File N. 3) - Time History - Live (A Fast)





**Nome** Punto 18 T.H. (File N. 4)

**Località** Via Battaglie di Cassano, Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale periodo notturno a 20 metri dalla barriera acustica svincolo tangenziale est Lodi, civico 6 eventi mascherati: passaggio due aereomobili e colpo di clacson

**Leq:** 47.0 dB(A)

**L01:** 52.9 dB(A)

**L05:** 50.4 dB(A)

**L10:** 49.3 dB(A)

**L50:** 46.1 dB(A)

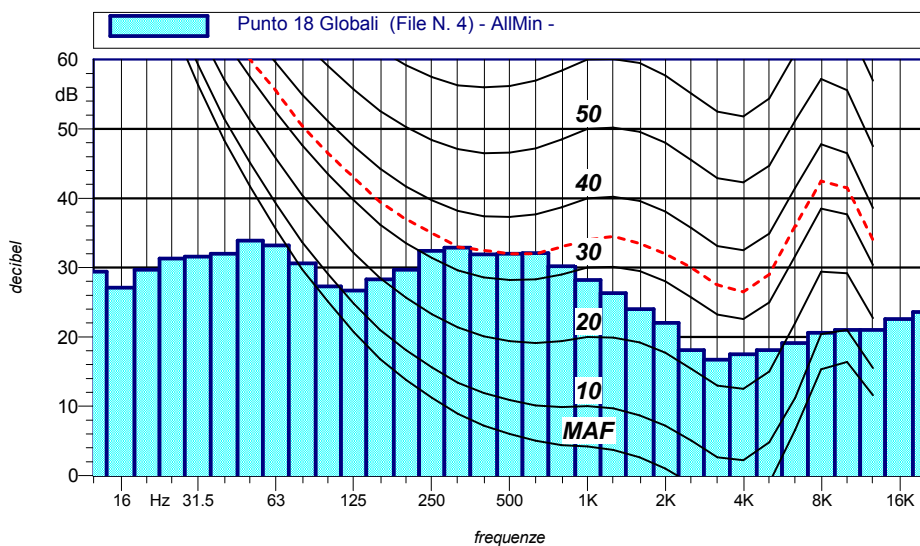
**L90:** 43.6 dB(A)

**L95:** 43.0 dB(A)

**L99:** 42.0 dB(A)

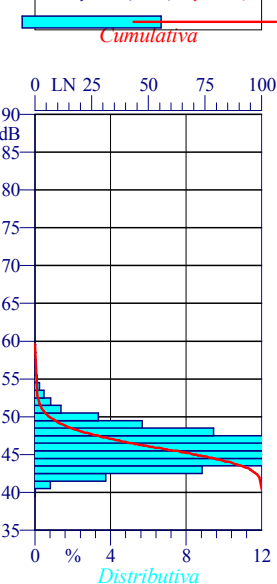
**LFmax:** 59.6 dB(A)

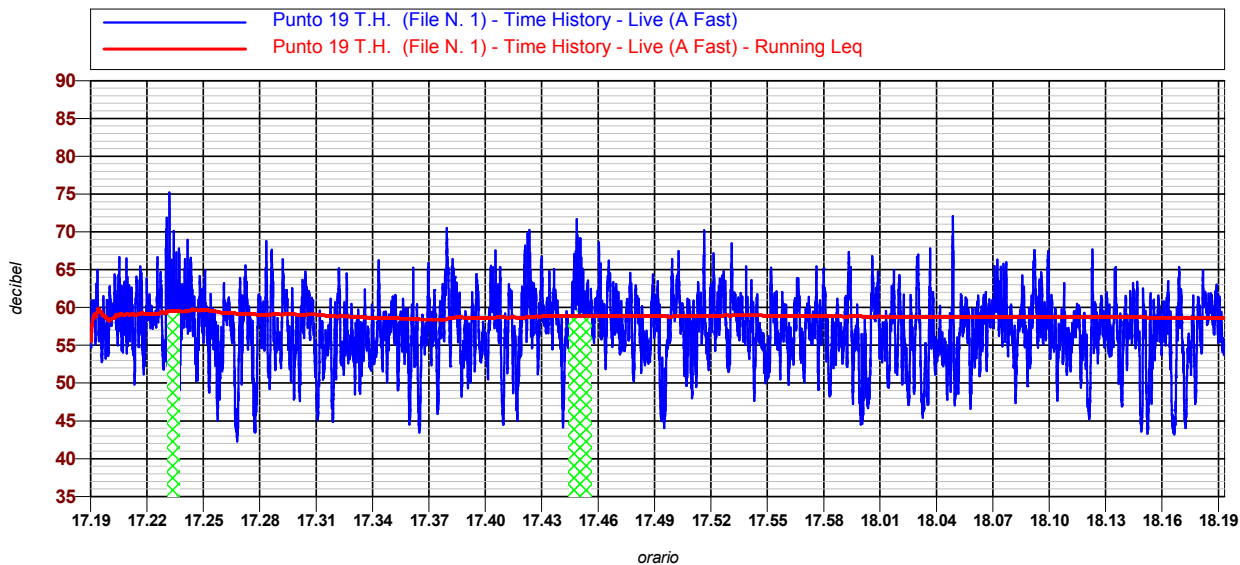
**LFmin:** 40.3 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	29.4	63	33.2	315	32.9	1600	24.0	8000	20.6
16	27.1	80	30.6	400	31.9	2000	22.0	10000	21.0
20	29.7	100	27.3	500	32.0	2500	18.1	12500	21.0
25	31.3	125	26.7	630	32.1	3150	16.7	16000	22.6
31.5	31.6	160	28.3	800	30.2	4000	17.5	20000	23.6
40	32.0	200	29.7	1000	28.2	5000	18.1		
50	33.9	250	32.4	1250	26.3	6300	19.1		

Punto 18 T.H. (File N. 4) - AllMin -  
Time History - Live (A Fast) - Cumulativa





**Nome** Punto 19 T.H. (File N. 1)

**Località** Via della Gera D'Adda, fraz. Fontana, Lodi **Data:** 20/03/2007

**Strumentazione** Larson-Davis 824 **Ora:** 17.19.22

**Calibratore** Larson-Davis CAL 200 **Durata:** 3618 sec

**Operatore** P. Zaneboni, D. Ciceri **Intervallo:** 0.125 sec

**Note** Misure di rumore ambientale periodo diurno a fianco edificio lungo SS 235, civico 6 eventi mascherati: passaggio due aereomobili

**Leq:** 58.6 dB(A)

**L01:** 65.8 dB(A)

**L05:** 63.2 dB(A)

**L10:** 61.7 dB(A)

**L50:** 57.1 dB(A)

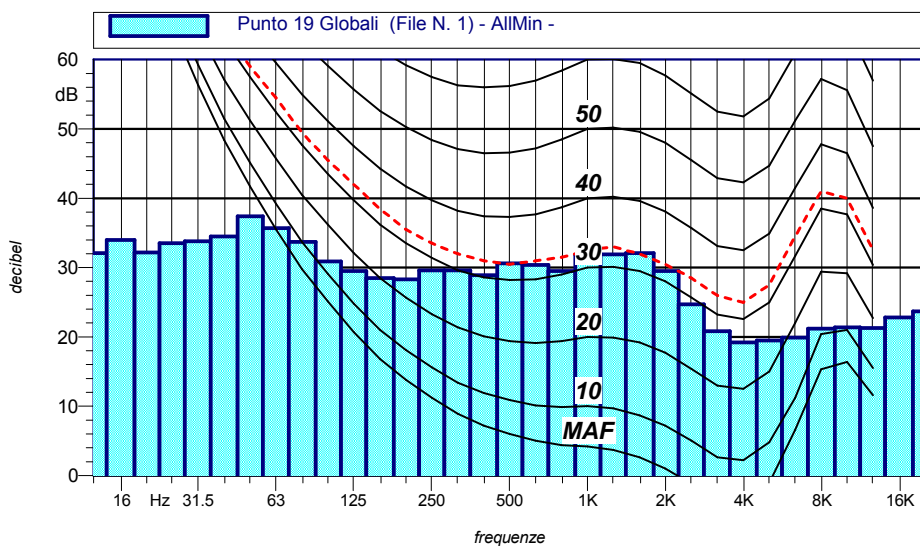
**L90:** 51.0 dB(A)

**L95:** 48.2 dB(A)

**L99:** 44.9 dB(A)

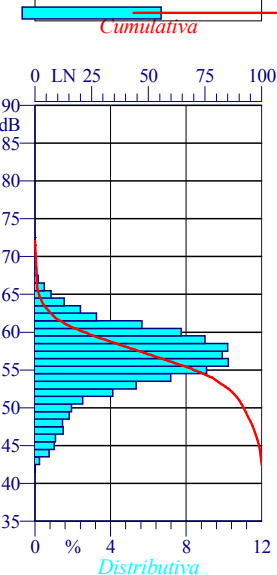
**LFmax:** 72.1 dB(A)

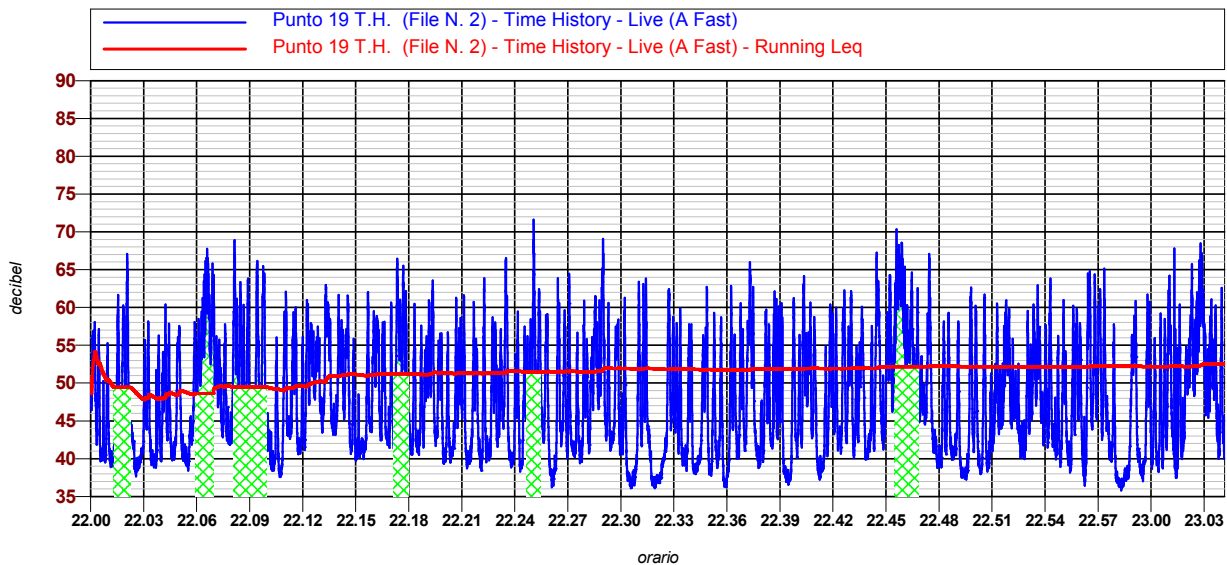
**LFmin:** 42.3 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	32.1	63	35.7	315	29.6	1600	32.1	8000	21.2
16	34.0	80	33.7	400	28.9	2000	29.5	10000	21.4
20	32.2	100	30.9	500	30.6	2500	24.7	12500	21.3
25	33.5	125	29.5	630	30.4	3150	20.8	16000	22.8
31.5	33.8	160	28.5	800	29.5	4000	19.2	20000	23.7
40	34.5	200	28.3	1000	31.8	5000	19.5		
50	37.4	250	29.6	1250	31.9	6300	19.9		

Punto 19 T.H. (File N. 1) - AllMin -  
Punto 19 T.H. (File N. 1) - AllMin -  
Time History - Live (A Fast) - Cumulativa





**Nome** Punto 19 T.H. (File N. 2)

**Località** Via della Gera D'Adda, fraz. Fontana, Lodi **Data:** 20/03/2007

**Strumentazione** Larson-Davis 824 **Ora:** 22.00.43

**Calibratore** Larson-Davis CAL 200 **Durata:** 3853 sec

**Operatore** P. Zaneboni, D. Ciceri **Intervallo:** 0.125 sec

**Note** Misure di rumore ambientale periodo notturno a fianco edificio lungo SS 235 eventi mascherati: passaggio due aereomobili

**Leq:** 52.5 dB(A)

**L01:** 62.7 dB(A)

**L05:** 58.9 dB(A)

**L10:** 56.8 dB(A)

**L50:** 45.4 dB(A)

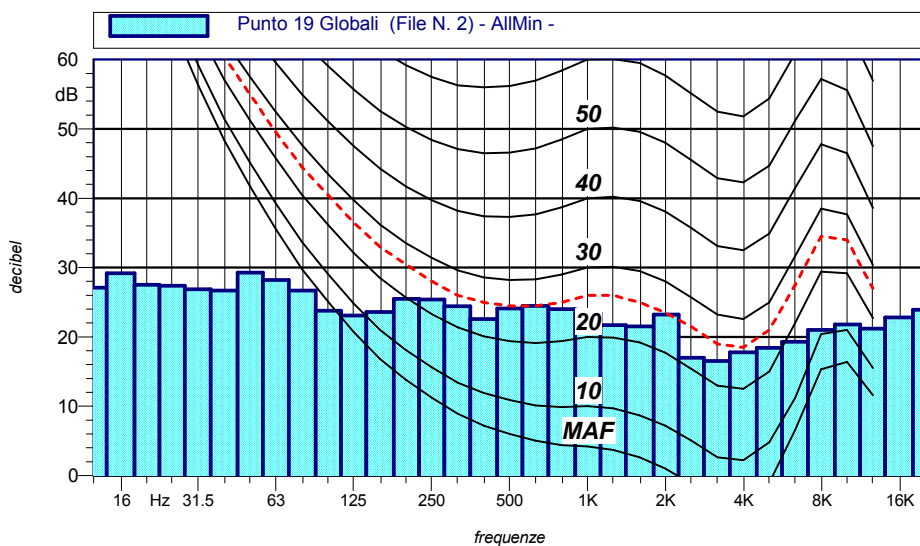
**L90:** 39.2 dB(A)

**L95:** 38.0 dB(A)

**L99:** 36.8 dB(A)

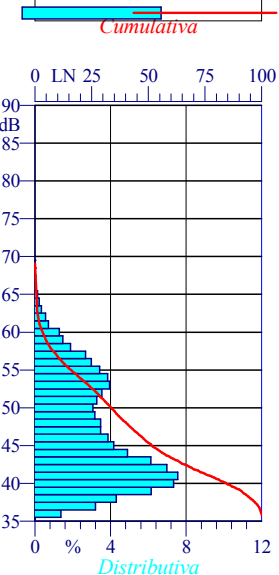
**LFmax:** 69.1 dB(A)

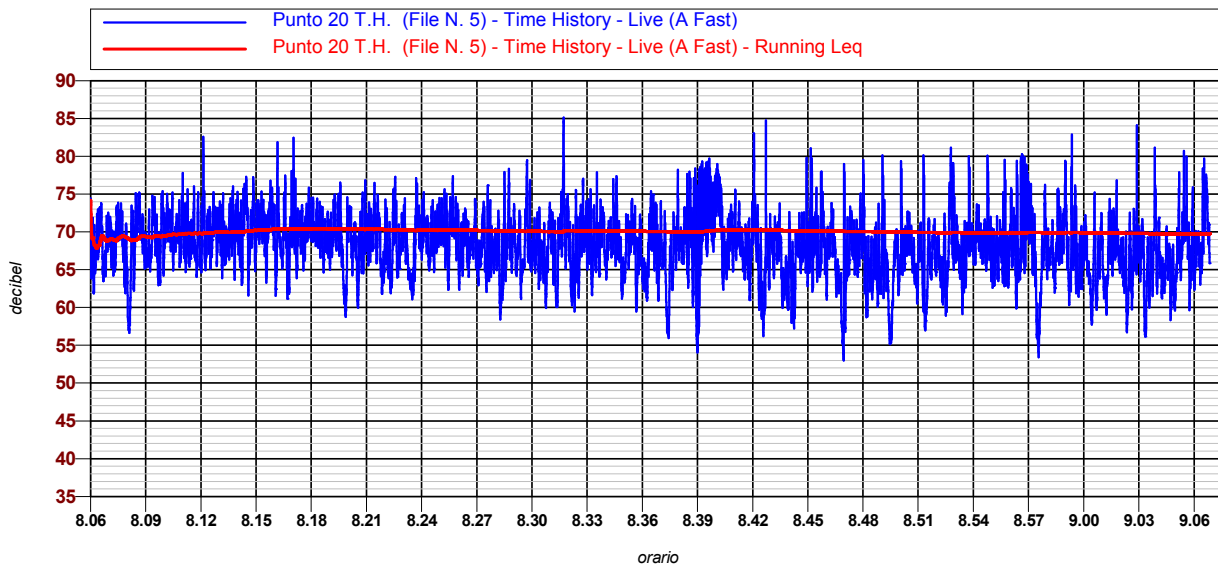
**LFmin:** 35.8 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	27.1	63	28.2	315	24.4	1600	21.5	8000	21.0
16	29.2	80	26.7	400	22.6	2000	23.2	10000	21.8
20	27.5	100	23.8	500	24.1	2500	17.0	12500	21.2
25	27.4	125	23.1	630	24.5	3150	16.5	16000	22.8
31.5	26.9	160	23.6	800	24.0	4000	17.8	20000	23.9
40	26.7	200	25.5	1000	23.4	5000	18.4		
50	29.3	250	25.4	1250	21.7	6300	19.3		

Punto 19 T.H. (File N. 2) - AllMin -  
Punto 19 T.H. (File N. 2) - Time History - Live (A Fast) - Cumulativa





**Nome** **Punto 20 T.H. (File N. 5)**

Località *via Lodivecchio intersez. sottopasso via Sforzàata:* 22/03/2007

Strumentazione *Larson-Davis 824* Ora: 8.06.02

Calibratore *Larson-Davis CAL 200* Durata: 3651 sec

Operatore *P. Zaneboni, D. Ciceri* Intervallo: 0.125 sec

Note *Misure di rumore ambientale periodo diurno*

**Leq: 69.8 dB(A)**

**L01: 77.3 dB(A)**

**L05: 74.2 dB(A)**

**L10: 72.7 dB(A)**

**L50: 68.2 dB(A)**

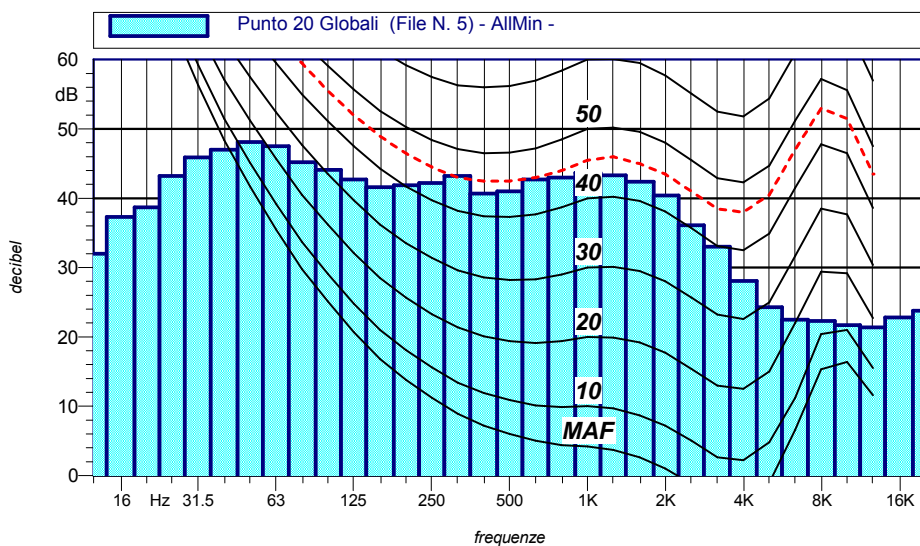
**L90: 62.9 dB(A)**

**L95: 61.0 dB(A)**

**L99: 57.1 dB(A)**

**LFmax: 85.1 dB(A)**

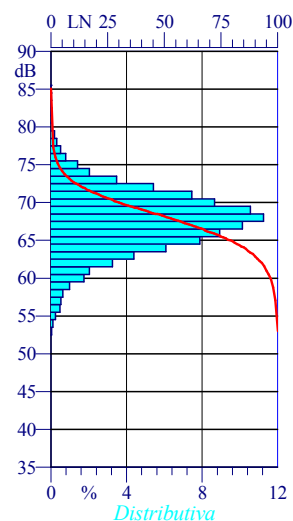
**LFmin: 53.0 dB(A)**

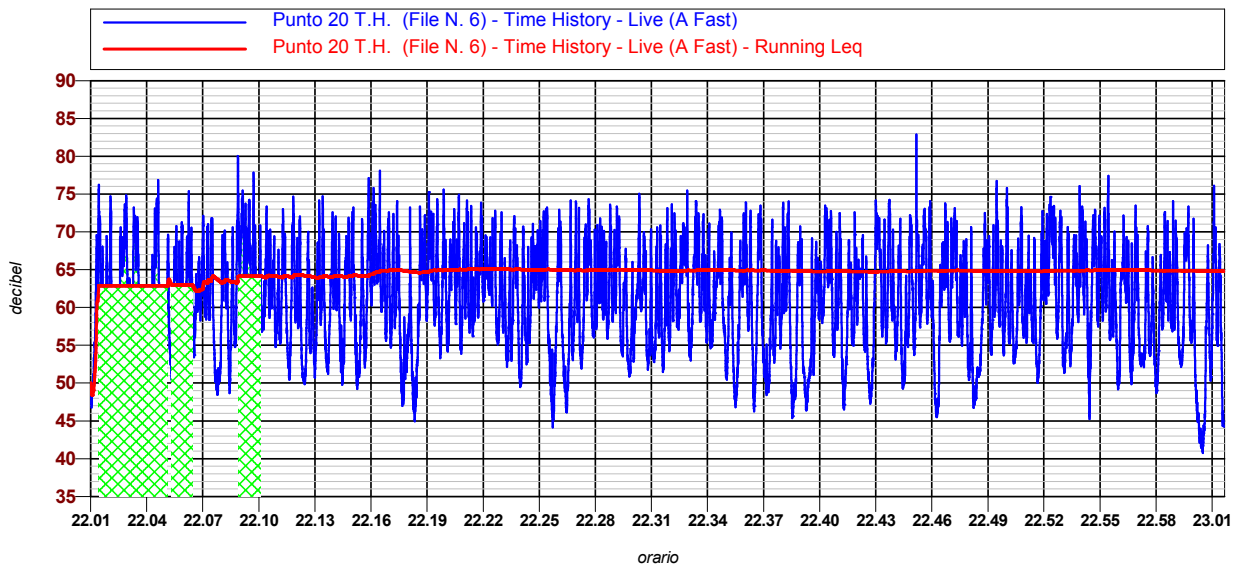


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	32.0	63	47.5	315	43.2	1600	42.4	8000	22.3
16	37.3	80	45.2	400	40.7	2000	40.4	10000	21.7
20	38.7	100	44.1	500	41.0	2500	36.1	12500	21.4
25	43.2	125	42.7	630	42.7	3150	33.0	16000	22.8
31.5	45.9	160	41.6	800	43.0	4000	28.1	20000	23.8
40	47.0	200	41.9	1000	43.7	5000	24.3		
50	48.1	250	42.2	1250	43.3	6300	22.5		

Punto 20 T.H. (File N. 5) - AllMin -  
 Punto 20 T.H. (File N. 5) - Time History - Live (A Fast)

Cumulativa





**Nome** Punto 20 T.H. (File N. 6)

**Località** via Lodivecchio intersez. sottopasso via Sforzàata: 22/03/2007

**Strumentazione** Larson-Davis 824 **Ora:** 22.01.27

**Calibratore** Larson-Davis CAL 200 **Durata:** 3636 sec

**Operatore** P. Zaneboni, D. Ciceri **Intervallo:** 0.125 sec

**Note** Misure di rumore ambientale periodo notturno  
eventi mascherati: passaggio aereomobili che si somma al traffico veicolare

**Leq:** 64.8 dB(A)

**L01:** 73.2 dB(A)

**L05:** 70.8 dB(A)

**L10:** 69.2 dB(A)

**L50:** 60.8 dB(A)

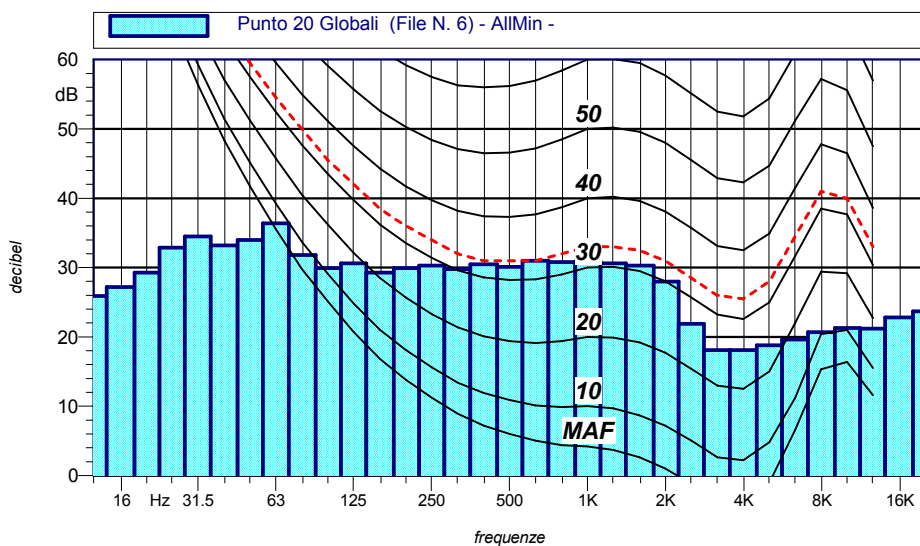
**L90:** 51.5 dB(A)

**L95:** 49.4 dB(A)

**L99:** 45.7 dB(A)

**LFmax:** 82.9 dB(A)

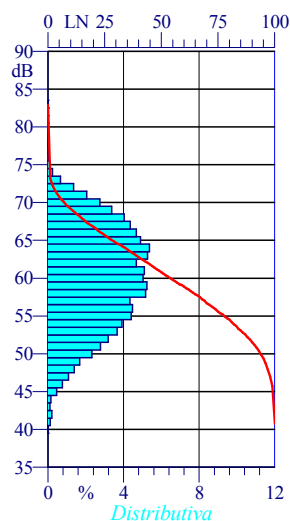
**LFmin:** 40.8 dB(A)

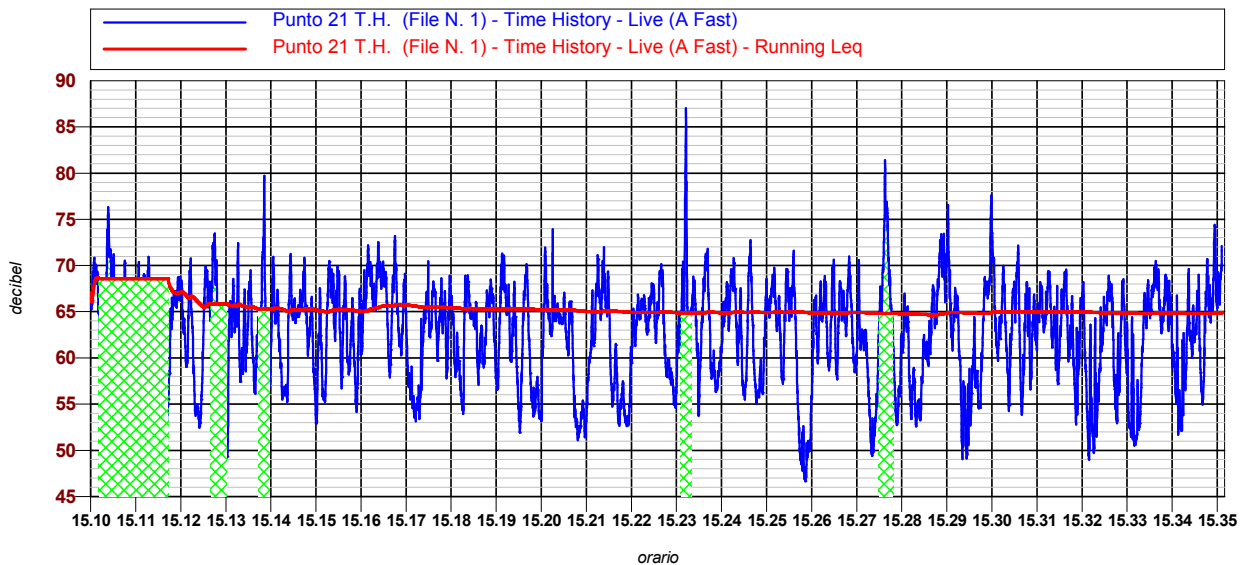


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	25.9	63	36.4	315	29.8	1600	30.3	8000	20.7
16	27.2	80	31.8	400	30.5	2000	28.0	10000	21.3
20	29.3	100	29.9	500	30.1	2500	21.9	12500	21.2
25	32.9	125	30.6	630	31.0	3150	18.1	16000	22.8
31.5	34.5	160	29.3	800	30.8	4000	18.1	20000	23.7
40	33.2	200	29.9	1000	30.9	5000	18.8		
50	34.0	250	30.3	1250	30.6	6300	19.6		

Punto 20 T.H. (File N. 6) - Time History - Live (A Fast)

Cumulativa





**Nome** Punto 21 T.H. (File N. 1)

**Località** Parco comunale Isola Carolina

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale  
 misure a 4 m, posizione di fronte CRI  
 indietreggiando perpendicolarmente da v.le Dalmazia  
 periodo diurno  
 eventi mascherati: passaggio passanti,  
 passaggio aereomobili, colpi clacson

**Leq:** 64.9 dB(A)

**L01:** 71.7 dB(A)

**L05:** 69.6 dB(A)

**L10:** 68.4 dB(A)

**L50:** 63.4 dB(A)

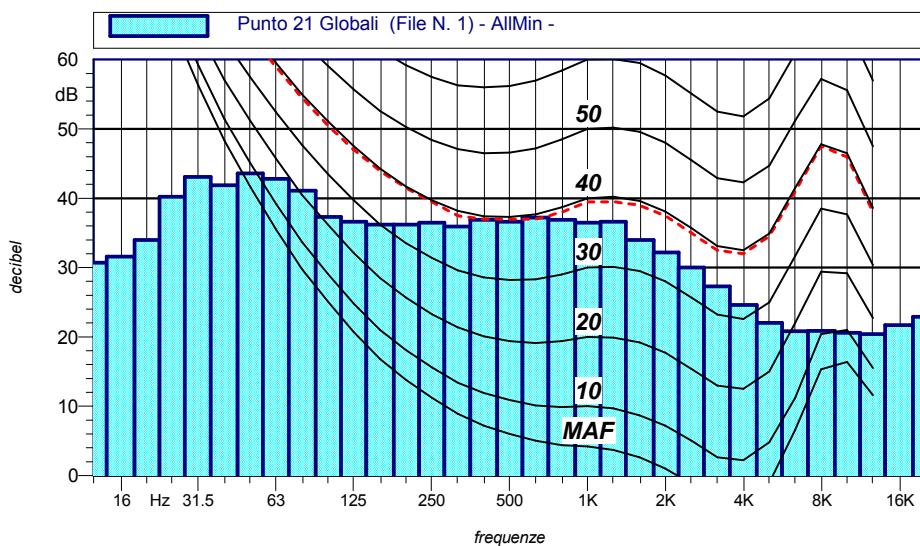
**L90:** 54.6 dB(A)

**L95:** 53.1 dB(A)

**L99:** 49.8 dB(A)

**LFmax:** 77.6 dB(A)

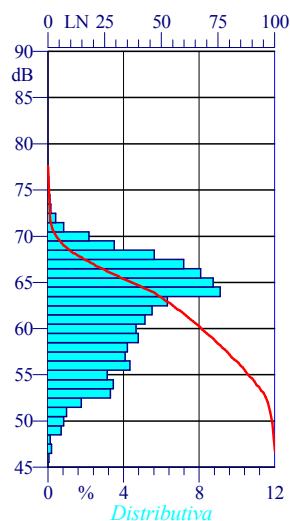
**LFmin:** 46.7 dB(A)

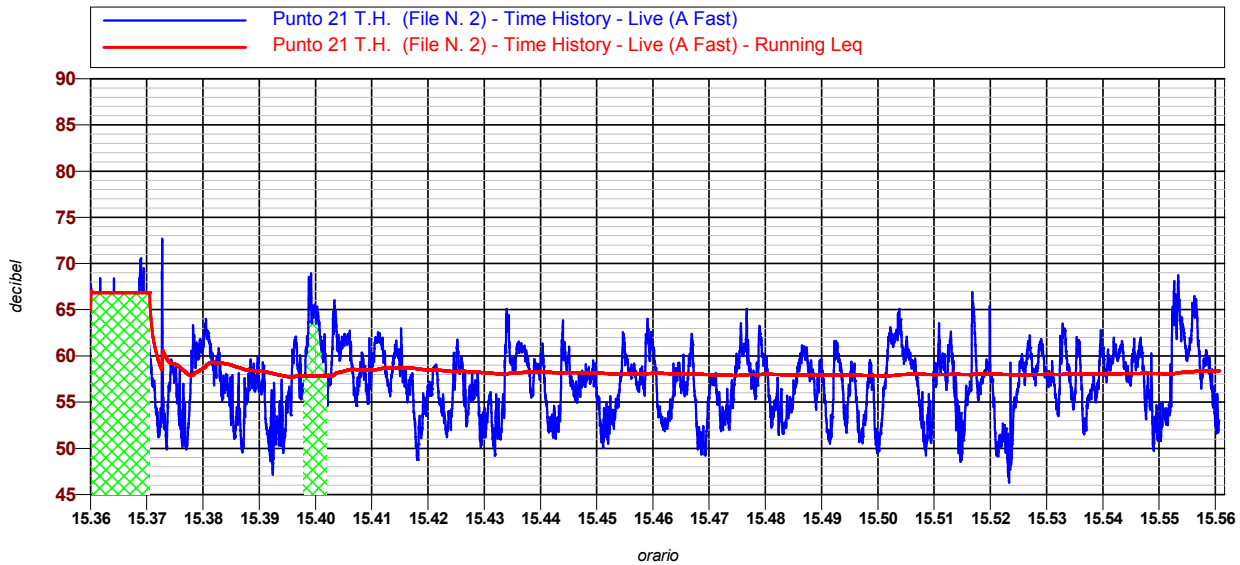


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.7	63	42.8	315	35.9	1600	34.0	8000	20.9
16	31.6	80	41.1	400	36.9	2000	32.2	10000	20.6
20	34.0	100	37.3	500	36.6	2500	30.0	12500	20.4
25	40.2	125	36.6	630	37.2	3150	27.3	16000	21.7
31.5	43.1	160	36.2	800	36.9	4000	24.6	20000	22.9
40	41.9	200	36.2	1000	36.5	5000	22.0		
50	43.6	250	36.5	1250	36.6	6300	20.8		

Punto 21 T.H. (File N. 1) - Time History - Live (A Fast)  
 Punto 21 T.H. (File N. 1) - Time History - Live (A Fast)

Cumulativa





**Nome** **Punto 21 T.H. (File N. 2)**

Località *Parco comunale Isola Carolina*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale  
misure a 4 m, posizione di fronte CRI  
indietreggiando perpendicolarmente da v.le Dalmazia  
periodo diurno  
eventi mascherati: passaggio passanti,  
passaggio aereomobili, colpi clacson*

**Leq:** **58.4 dB(A)**

**L01:** **65.1 dB(A)**

**L05:** **62.2 dB(A)**

**L10:** **61.3 dB(A)**

**L50:** **57.2 dB(A)**

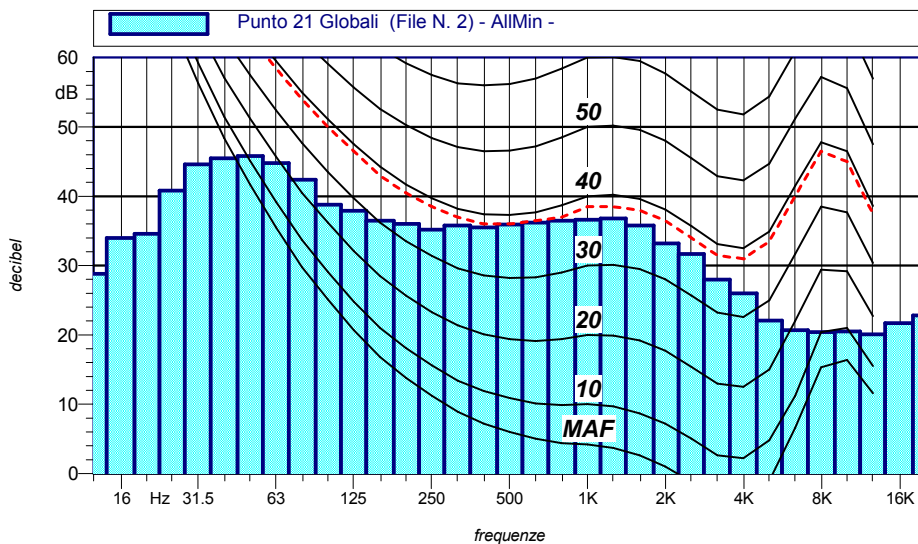
**L90:** **51.9 dB(A)**

**L95:** **51.0 dB(A)**

**L99:** **49.4 dB(A)**

**LFmax:** **72.7 dB(A)**

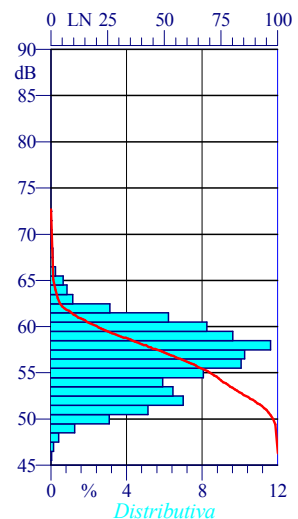
**LFmin:** **46.3 dB(A)**



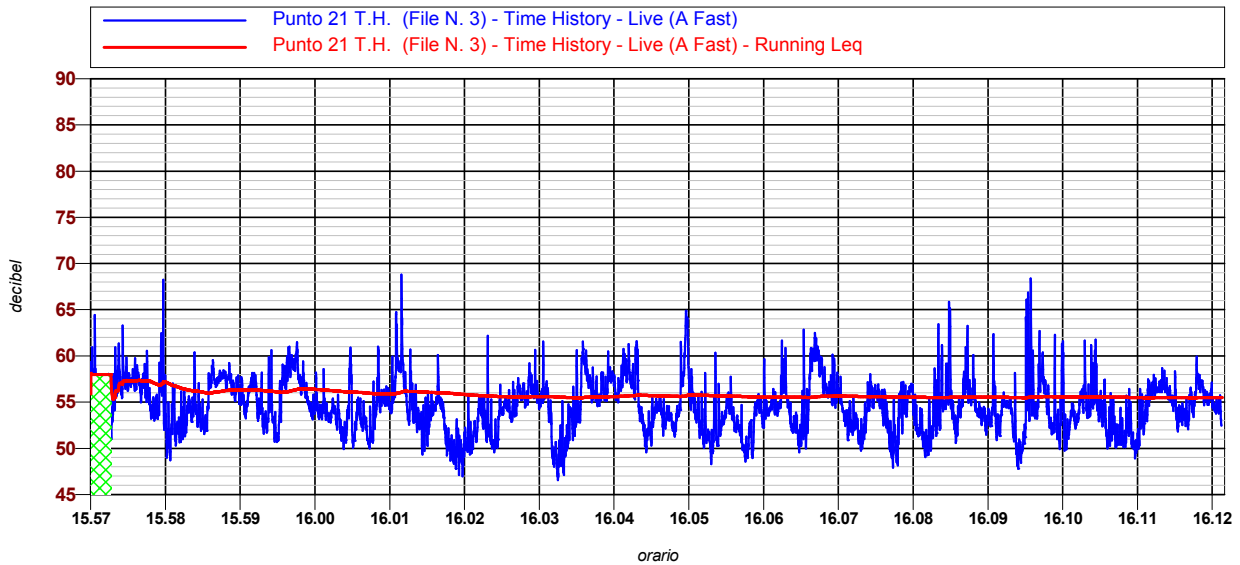
Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	28.8	63	44.8	315	35.8	1600	35.8	8000	20.4
16	34.0	80	42.4	400	35.5	2000	33.2	10000	20.5
20	34.6	100	38.8	500	35.9	2500	31.7	12500	20.1
25	40.8	125	37.9	630	36.2	3150	28.0	16000	21.7
31.5	44.6	160	36.5	800	36.5	4000	26.0	20000	22.8
40	45.5	200	36.0	1000	36.6	5000	22.1		
50	45.8	250	35.2	1250	36.8	6300	20.7		

Punto 21 T.H. (File N. 2) - Time History - Live (A Fast)

Cumulativa







**Nome** Punto 21 T.H. (File N. 3)

**Località** Parco comunale Isola Carolina

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale  
 misure a 4 m, posizione di fronte CRI  
 indietreggiando perpendicolarmente da v.le Dalmazia  
 periodo diurno  
 eventi mascherati: passaggio passanti,  
 schiamazzi bimbi provenienti dall'area giochi, colpi clacson

**Leq:** 55.5 dB(A)

**L01:** 61.8 dB(A)

**L05:** 59.2 dB(A)

**L10:** 57.9 dB(A)

**L50:** 54.4 dB(A)

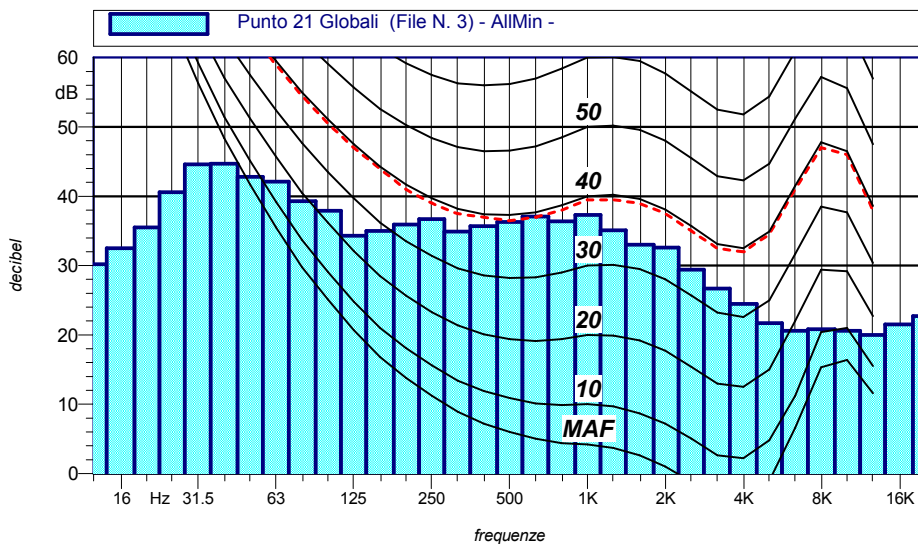
**L90:** 50.9 dB(A)

**L95:** 50.1 dB(A)

**L99:** 48.7 dB(A)

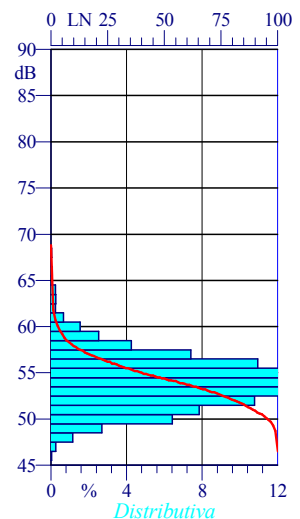
**LFmax:** 68.8 dB(A)

**LFmin:** 46.5 dB(A)



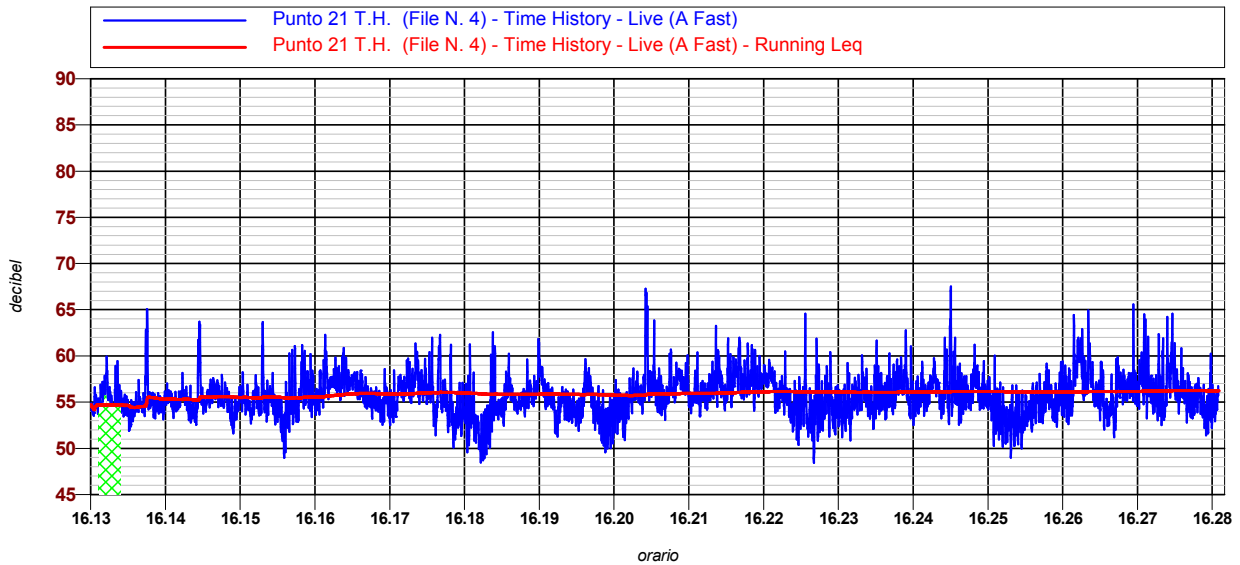
Punto 21 T.H. (File N. 3) - Time History - Live (A Fast)  
 Punto 21 T.H. (File N. 3) - Time History - Live (A Fast)

Cumulativa



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.2	63	42.1	315	34.9	1600	33.0	8000	20.8
16	32.5	80	39.3	400	35.7	2000	32.6	10000	20.6
20	35.5	100	37.9	500	36.3	2500	29.4	12500	20.0
25	40.6	125	34.3	630	37.1	3150	26.7	16000	21.5
31.5	44.6	160	35.0	800	36.4	4000	24.5	20000	22.7
40	44.7	200	35.9	1000	37.3	5000	21.7		
50	42.8	250	36.7	1250	35.1	6300	20.6		





**Nome** Punto 21 T.H. (File N. 4)

**Località** Parco comunale Isola Carolina

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale  
 misure a 4 m, posizione di fronte CRI  
 indietreggiando perpendicolarmente da v.le Dalmazia  
 periodo diurno  
 eventi mascherati: passaggio passanti,  
 schiamazzi bimbi provenienti dall'area giochi, colpi clacson

**Leq:** 56.2 dB(A)

**L01:** 61.9 dB(A)

**L05:** 59.3 dB(A)

**L10:** 58.1 dB(A)

**L50:** 55.5 dB(A)

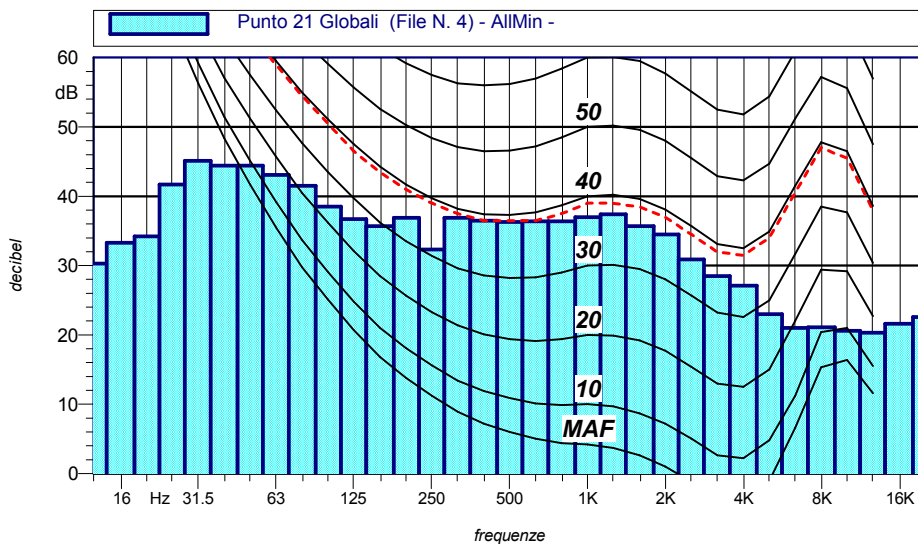
**L90:** 53.2 dB(A)

**L95:** 52.4 dB(A)

**L99:** 50.5 dB(A)

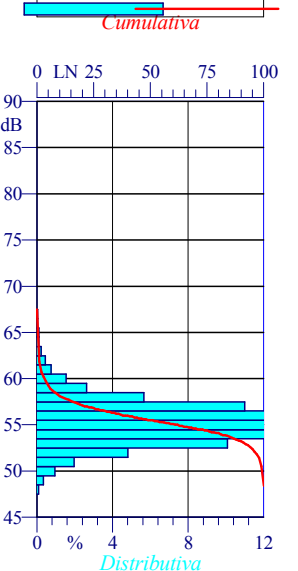
**LFmax:** 67.5 dB(A)

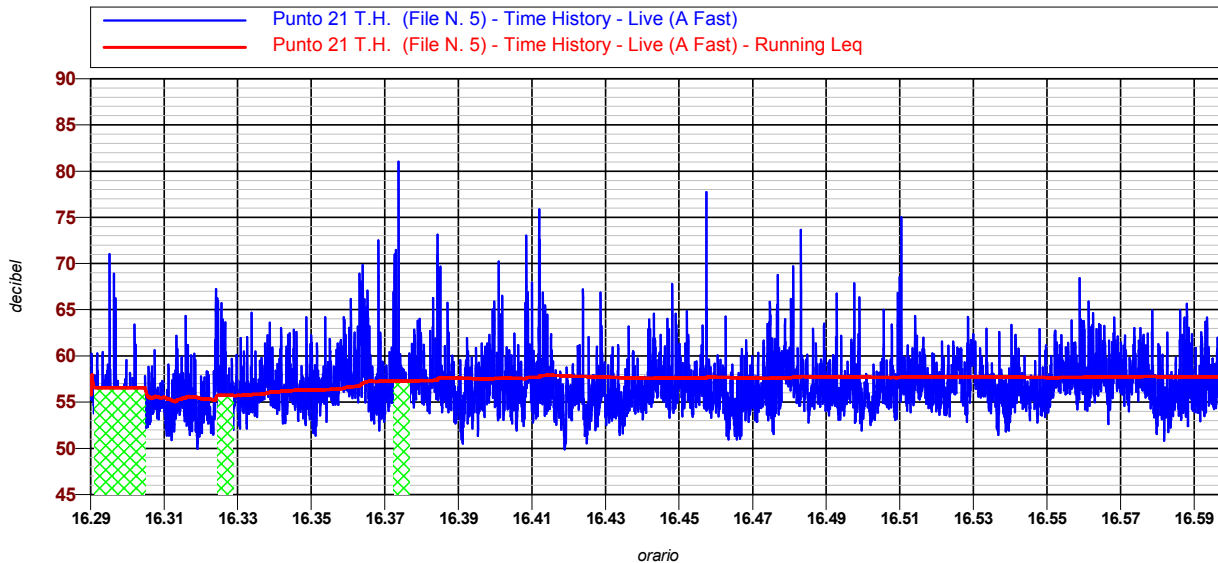
**LFmin:** 48.4 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.3	63	43.1	315	36.9	1600	35.7	8000	21.1
16	33.3	80	41.5	400	36.5	2000	34.5	10000	20.6
20	34.2	100	38.5	500	36.3	2500	30.9	12500	20.3
25	41.7	125	36.7	630	36.4	3150	28.5	16000	21.6
31.5	45.1	160	35.7	800	36.4	4000	27.1	20000	22.6
40	44.4	200	36.9	1000	37.0	5000	23.0		
50	44.4	250	32.3	1250	37.4	6300	21.0		

Punto 21 T.H. (File N. 4) - Time History - Live (A Fast)  
 Punto 21 T.H. (File N. 4) - Time History - Live (A Fast)





**Nome** **Punto 21 T.H. (File N. 5)**

Località *Parco comunale Isola Carolina*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale  
misure a 4 m, posizione di fronte CRI  
indietreggiando perpendicolarmente da v.le Dalmazia  
periodo diurno  
eventi mascherati: passaggio passanti,  
schiamazzi bimbi provenienti dall'area giochi, colpi clacson*

**Leq:** **57.7 dB(A)**

**L01:** **64.8 dB(A)**

**L05:** **61.1 dB(A)**

**L10:** **59.8 dB(A)**

**L50:** **56.3 dB(A)**

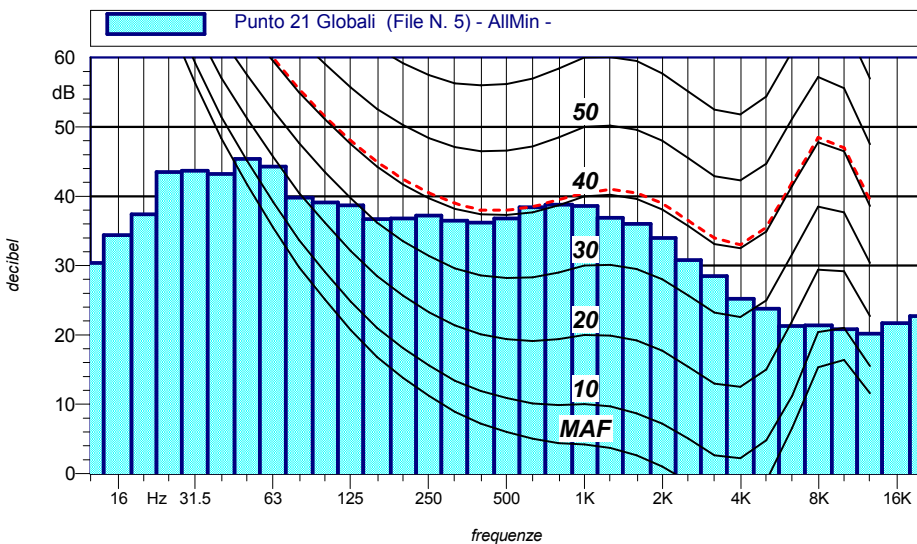
**L90:** **53.9 dB(A)**

**L95:** **53.2 dB(A)**

**L99:** **51.9 dB(A)**

**LFmax:** **77.7 dB(A)**

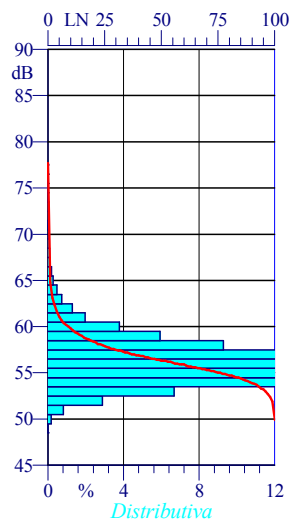
**LFmin:** **49.9 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.4	63	44.3	315	36.5	1600	36.0	8000	21.4
16	34.4	80	39.8	400	36.2	2000	34.0	10000	20.8
20	37.4	100	39.1	500	36.8	2500	30.8	12500	20.2
25	43.5	125	38.7	630	38.4	3150	28.5	16000	21.7
31.5	43.7	160	36.7	800	38.8	4000	25.2	20000	22.7
40	43.2	200	36.8	1000	38.6	5000	23.8		
50	45.4	250	37.2	1250	36.9	6300	21.3		

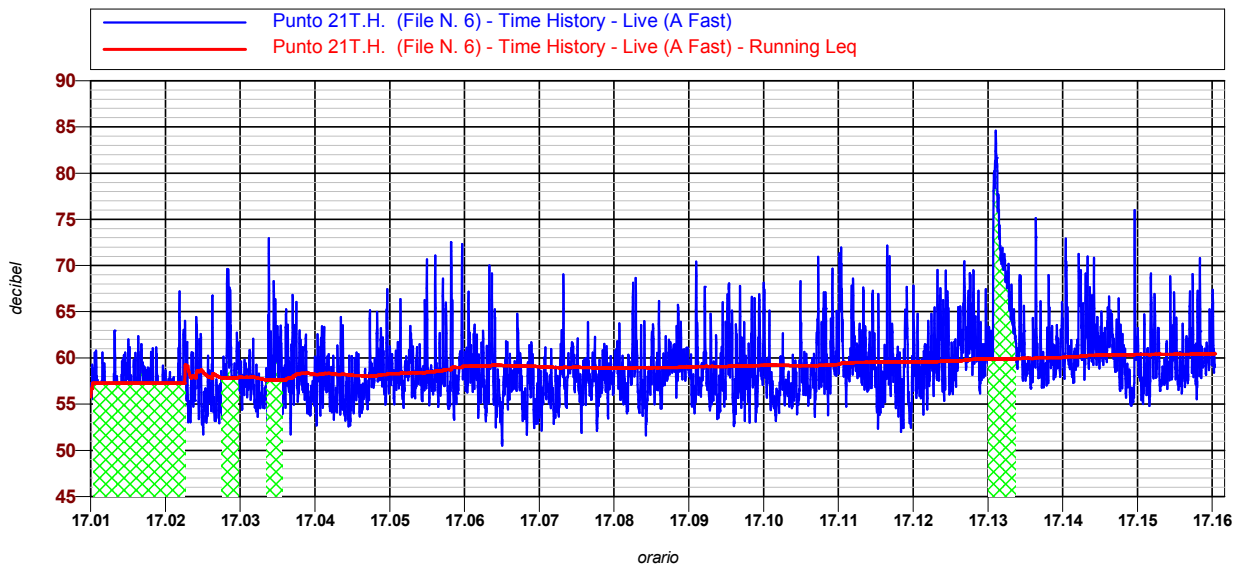
Punto 21 T.H. (File N. 5) - Time History - Live (A Fast)  
Punto 21 T.H. (File N. 5) - Time History - Live (A Fast)

Cumulativa



Distributiva





**Nome** Punto 21T.H. (File N. 6)

**Località** Parco comunale Isola Carolina

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note**

Misure di rumore ambientale  
 misure a 4 m, posizione di fronte CRI  
 indietreggiando perpendicolarmente da v.le Dalmazia  
 periodo diurno  
 eventi mascherati: passaggio ambulanza con sirene,  
 schiamazzi bimbi provenienti dall'area giochi

**Leq:** 60.4 dB(A)

**L01:** 69.0 dB(A)

**L05:** 65.2 dB(A)

**L10:** 63.1 dB(A)

**L50:** 58.5 dB(A)

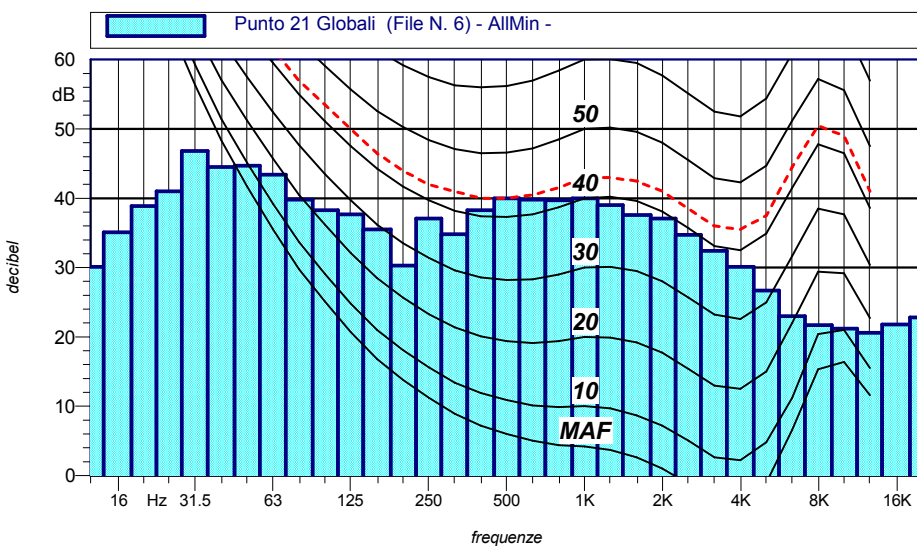
**L90:** 55.2 dB(A)

**L95:** 54.4 dB(A)

**L99:** 53.1 dB(A)

**LFmax:** 76.0 dB(A)

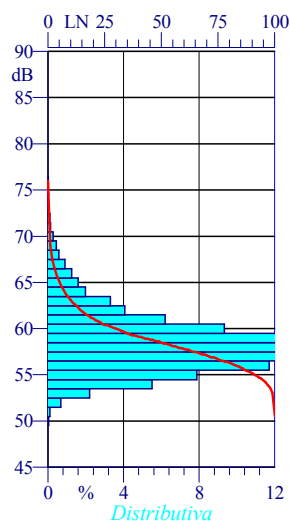
**LFmin:** 50.5 dB(A)

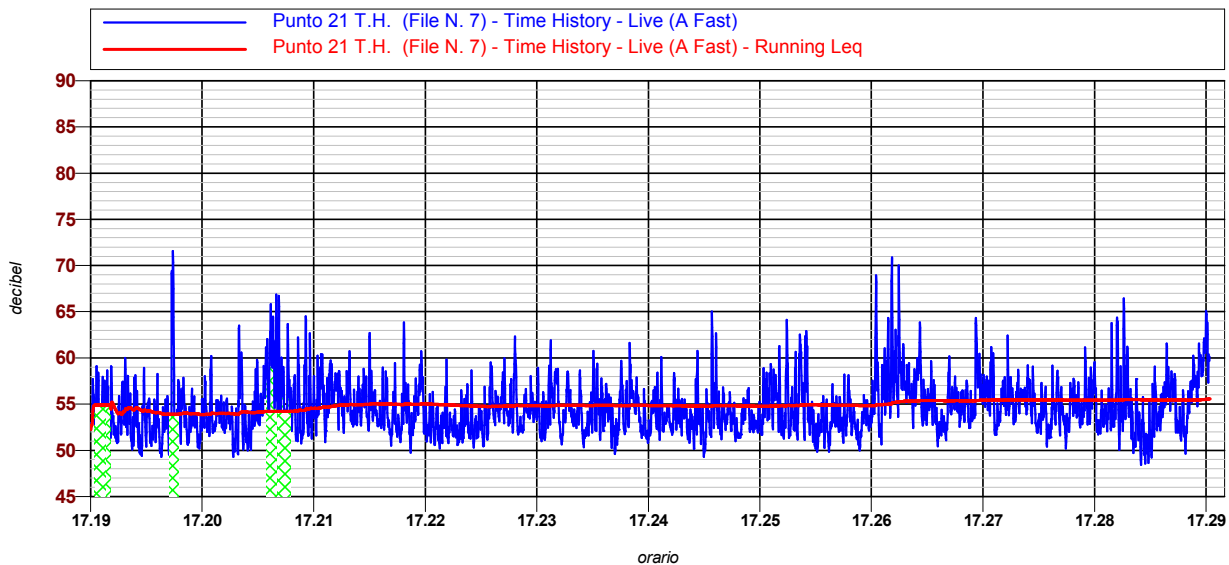


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	30.1	63	43.4	315	34.8	1600	37.6	8000	21.7
16	35.1	80	39.8	400	38.3	2000	37.1	10000	21.2
20	38.9	100	38.3	500	40.0	2500	34.7	12500	20.6
25	41.0	125	37.7	630	39.8	3150	32.4	16000	21.8
31.5	46.8	160	35.5	800	39.7	4000	30.1	20000	22.8
40	44.5	200	30.3	1000	40.0	5000	26.7		
50	44.7	250	37.1	1250	39.0	6300	23.0		

Punto 21T.H. (File N. 6) - AllMin -  
 Time History - Live (A Fast)

Cumulativa





**Nome** **Punto 21 T.H. (File N. 7)**

Località *Parco comunale Isola Carolina*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale  
misure a 4 m, posizione di fronte CRI  
indietreggiando perpendicolarmente da v.le Dalmazia  
periodo diurno  
eventi mascherati: passaggio passanti,  
colpi clacson e chiamazzi bimbi provenienti dall'area giochi*

**Leq:** **55.6 dB(A)**

**L01:** **62.7 dB(A)**

**L05:** **59.2 dB(A)**

**L10:** **58.0 dB(A)**

**L50:** **54.1 dB(A)**

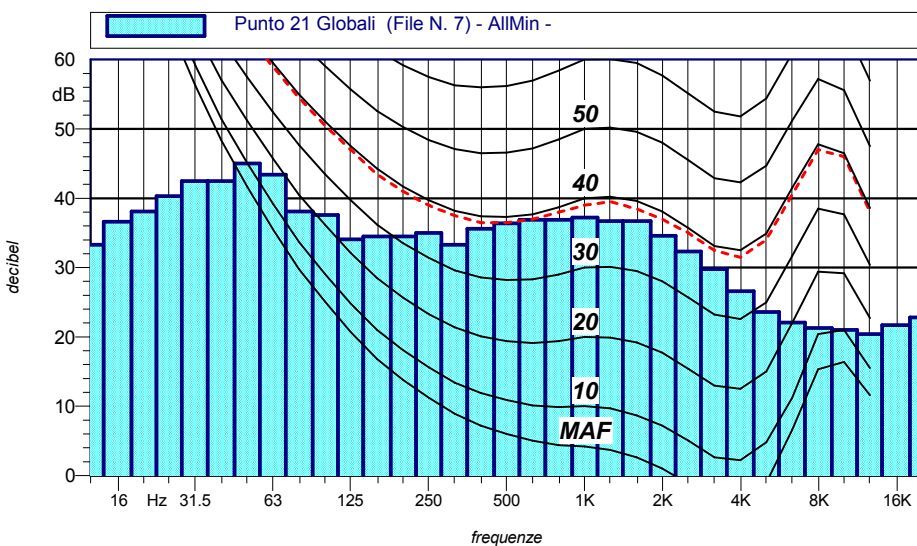
**L90:** **51.6 dB(A)**

**L95:** **51.0 dB(A)**

**L99:** **50.0 dB(A)**

**LFmax:** **70.9 dB(A)**

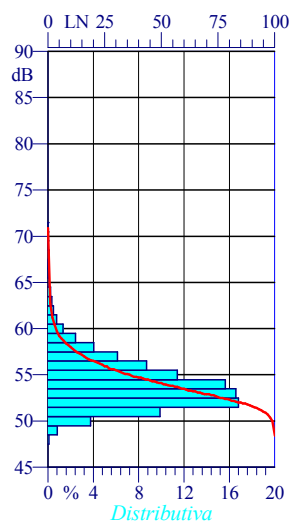
**LFmin:** **48.4 dB(A)**

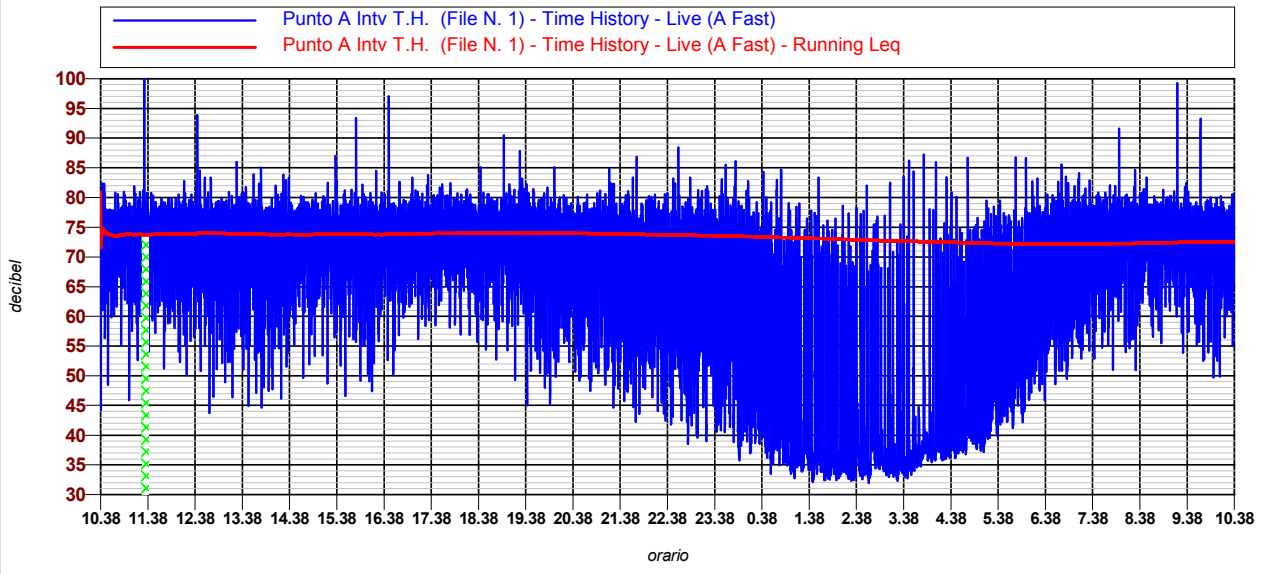


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	33.3	63	43.4	315	33.3	1600	36.7	8000	21.3
16	36.6	80	38.1	400	35.6	2000	34.6	10000	21.0
20	38.1	100	37.6	500	36.4	2500	32.3	12500	20.4
25	40.3	125	34.1	630	36.9	3150	29.8	16000	21.7
31.5	42.5	160	34.5	800	36.9	4000	26.6	20000	22.8
40	42.5	200	34.5	1000	37.2	5000	23.6		
50	45.0	250	35.0	1250	36.7	6300	22.1		

Punto 21 T.H. (File N. 7) - Time History - Live (A Fast)

Cumulativa





**Nome** *Punto A Intv T.H. (File N. 1)*

**Località** *via C. Besana, Lodi*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misurazione in continuo*

**Data:** 10/04/2007

**Ora:** 10.38.37

**Durata:** 86429 sec

**Intervallo:** 1.000 sec

**Leq:** 72.6 dB(A)

**L01:** 79.8 dB(A)

**L05:** 77.4 dB(A)

**L10:** 76.3 dB(A)

**L50:** 70.5 dB(A)

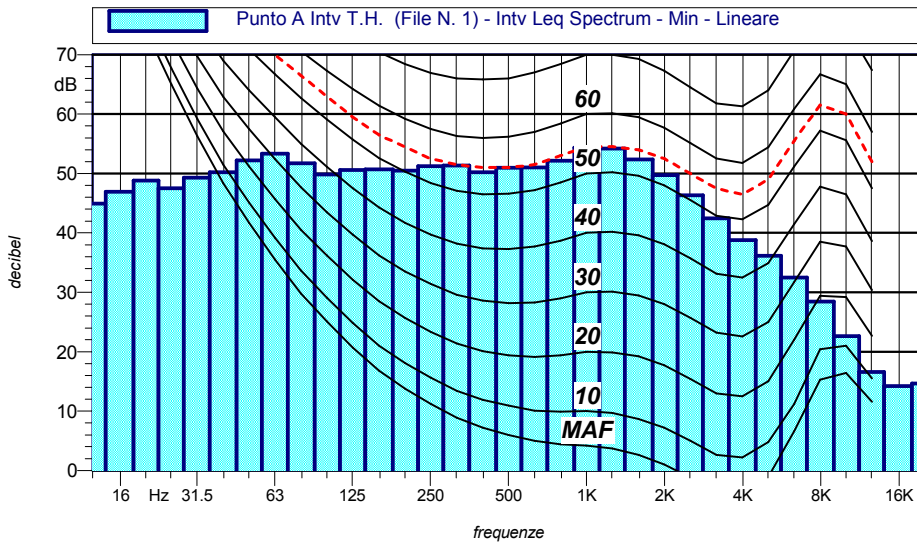
**L90:** 38.6 dB(A)

**L95:** 35.7 dB(A)

**L99:** 33.8 dB(A)

**LFmax:** 99.3 dB(A)

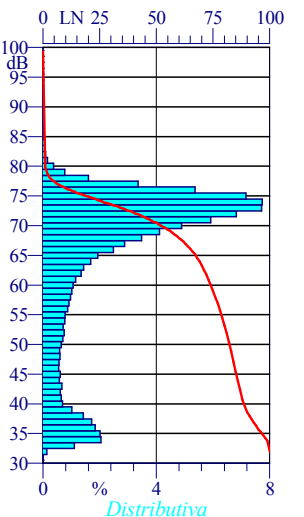
**LFmin:** 31.9 dB(A)

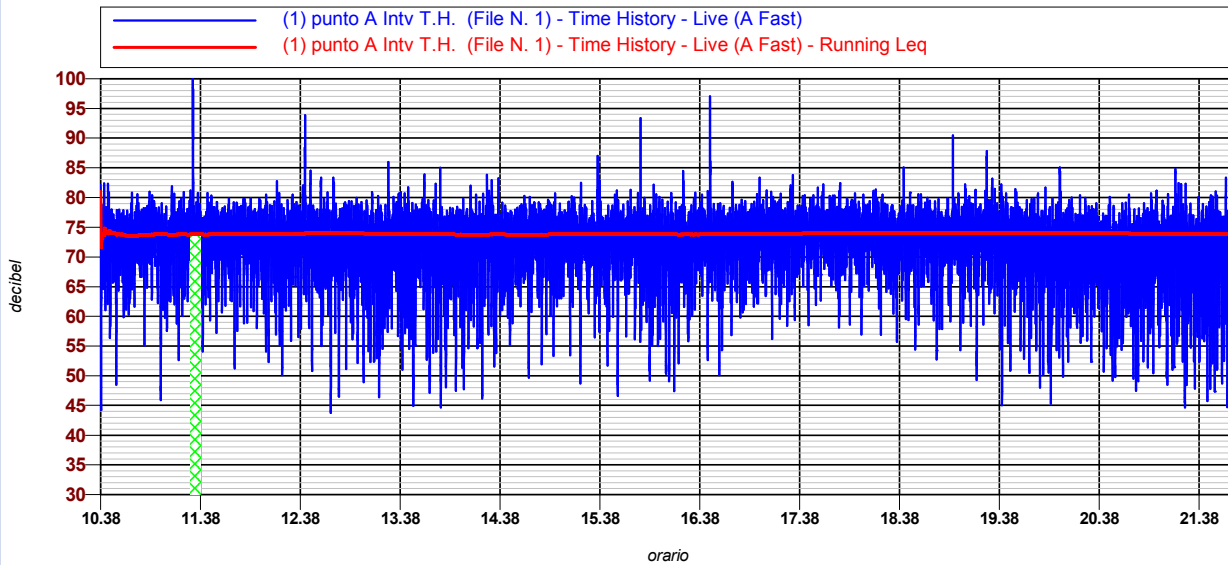


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	44.9	63	53.3	315	51.3	1600	52.4	8000	28.4
16	46.9	80	51.7	400	50.2	2000	49.7	10000	22.7
20	48.8	100	49.8	500	51.0	2500	46.3	12500	16.6
25	47.5	125	50.6	630	51.0	3150	42.4	16000	14.2
31.5	49.3	160	50.7	800	52.2	4000	38.8	20000	14.6
40	50.2	200	50.5	1000	54.4	5000	36.2		
50	52.2	250	51.3	1250	54.2	6300	32.5		

Punto A Intv T.H. (File N. 1) - Intv Leq Spectrum - Min - Lineare

Cumulativa





**Nome** (1) punto A Intv T.H. (File N. 1)

Località via C. Besana, Lodi

Data: 10/04/2007

Strumentazione Larson-Davis 824

Ora: 10.38.36

Calibratore Larson-Davis CAL 200

Durata: 40883 sec

Operatore P. Zaneboni, D. Ciceri

Intervallo: 1.000 sec

Note periodo diurno  
parallela di via San Colonbano  
posizione di fronte INPS, posteggio auto  
misura a 4 mt di altezza  
eventi mascherati: rumori generati passanti e colpi clacson

**Leq:** 73.8 dB(A)

**L01:** 79.9 dB(A)

**L05:** 77.7 dB(A)

**L10:** 76.8 dB(A)

**L50:** 72.8 dB(A)

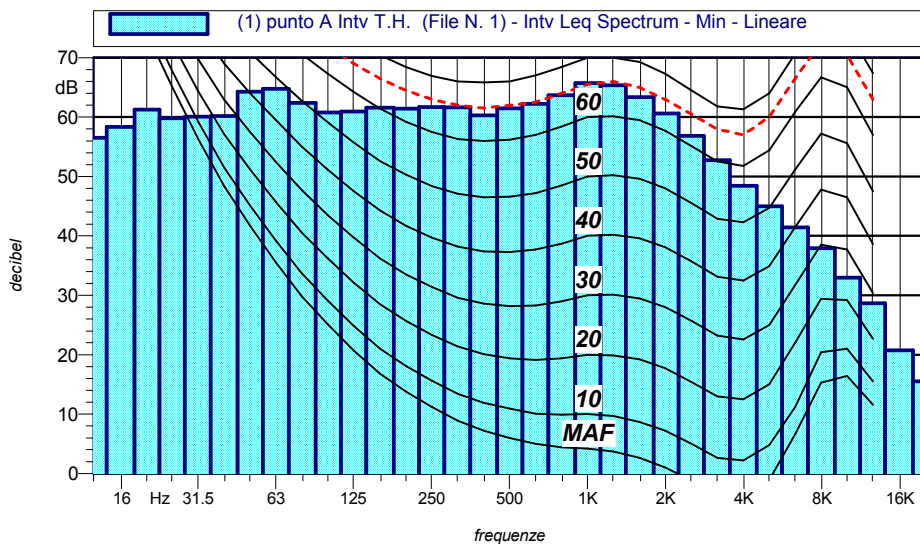
**L90:** 64.7 dB(A)

**L95:** 60.3 dB(A)

**L99:** 52.0 dB(A)

**LFmax:** 97.0 dB(A)

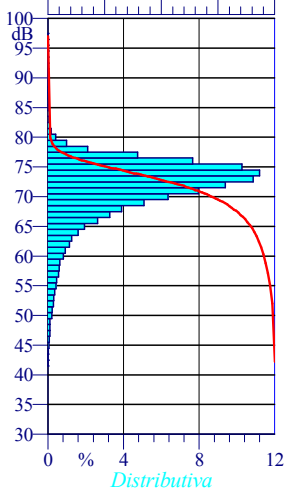
**LFmin:** 42.2 dB(A)



(1) punto A Intv T.H. (File N. 1) - Intv Leq Spectrum - Min - Lineare

Cumulativa

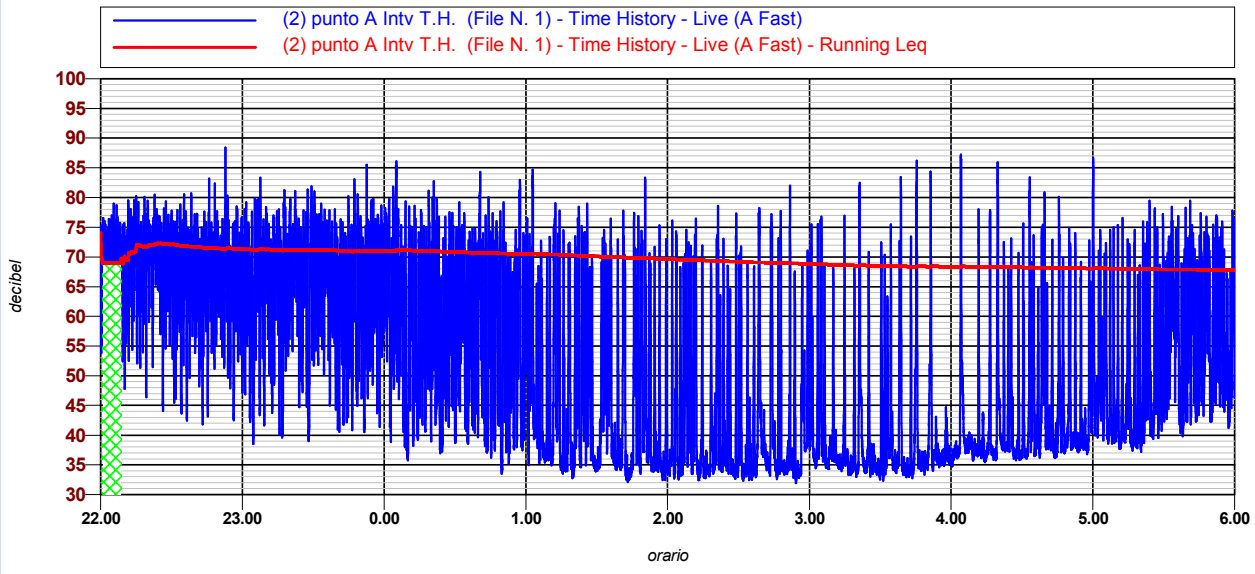
0 LN 25 50 75 100



Distributiva

Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	56.5	63	64.7	315	61.6	1600	63.4	8000	37.9
16	58.3	80	62.4	400	60.3	2000	60.6	10000	32.9
20	61.2	100	60.8	500	61.5	2500	56.9	12500	28.7
25	59.8	125	61.0	630	62.3	3150	52.8	16000	20.8
31.5	60.1	160	61.6	800	63.7	4000	48.4	20000	15.5
40	60.2	200	61.4	1000	65.7	5000	45.0		
50	64.3	250	61.7	1250	65.3	6300	41.4		



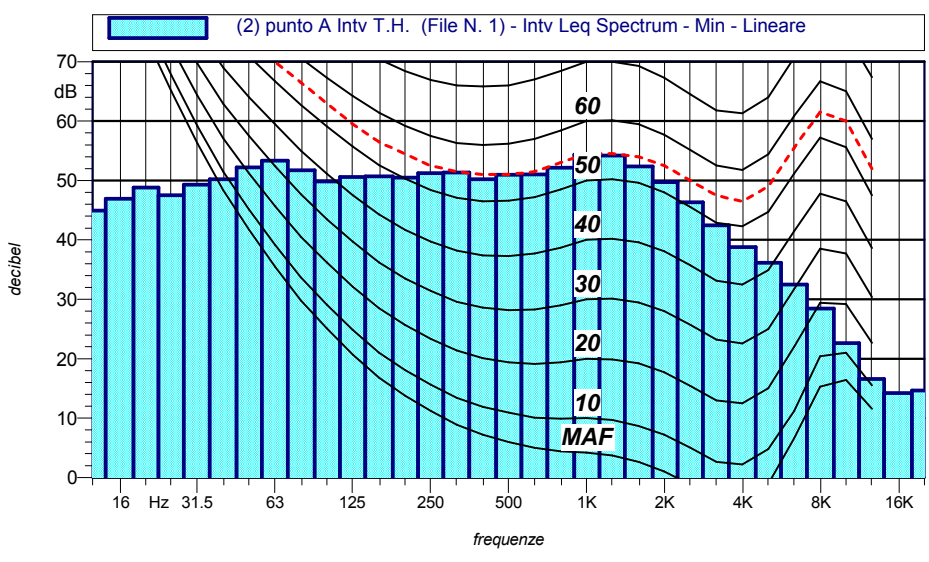


**Nome** (2) punto A Intv T.H. (File N. 1)

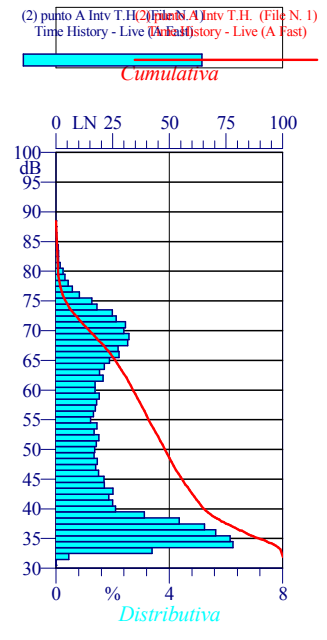
**Località** via C. Besana, Lodi **Data:** 10/04/2007  
**Strumentazione** Larson-Davis 824 **Ora:** 22.00.00  
**Calibratore** Larson-Davis CAL 200 **Durata:** 28800 sec  
**Operatore** P. Zaneboni, D. Ciceri **Intervallo:** 1.000 sec

**Note** periodo diurno  
 parallela di via San Colombano  
 posizione di fronte INPS, posteggio auto  
 misura a 4 mt di altezza  
 eventi mascherati: rumori generati passanti e colpi clacson

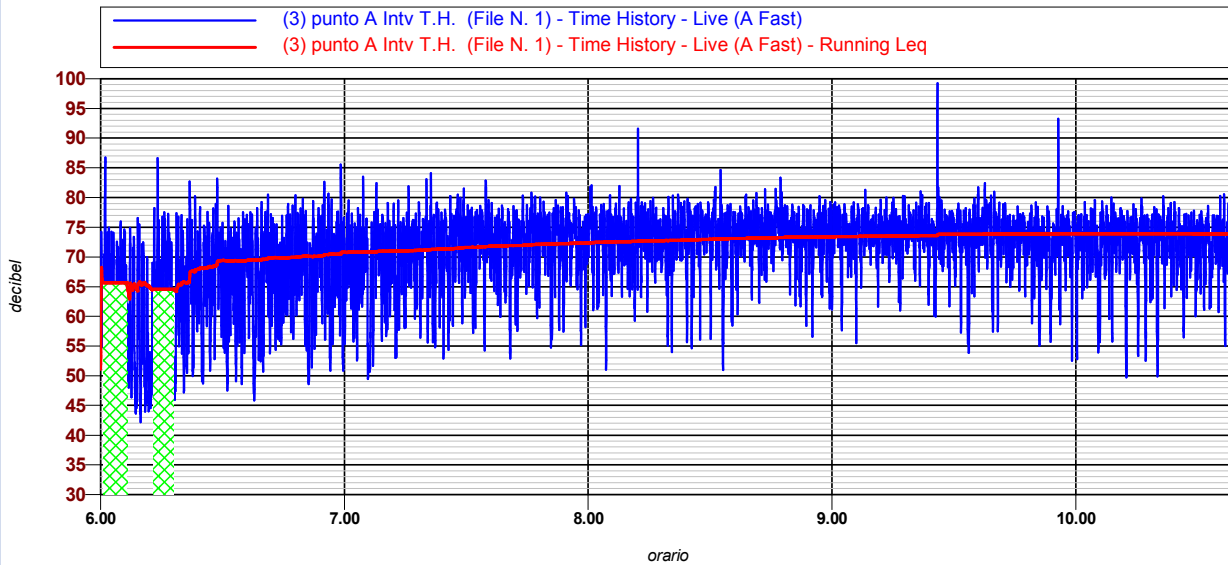
**Leq:** 67.8 dB(A)  
**L01:** 79.3 dB(A)  
**L05:** 74.5 dB(A)  
**L10:** 71.9 dB(A)  
**L50:** 48.6 dB(A)  
**L90:** 34.9 dB(A)  
**L95:** 34.2 dB(A)  
**L99:** 33.2 dB(A)  
**LFmax:** 88.4 dB(A)  
**LFmin:** 31.9 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	44.9	63	53.3	315	51.3	1600	52.4	8000	28.4
16	46.9	80	51.7	400	50.2	2000	49.7	10000	22.7
20	48.8	100	49.8	500	51.0	2500	46.3	12500	16.6
25	47.5	125	50.6	630	51.0	3150	42.4	16000	14.2
31.5	49.3	160	50.7	800	52.2	4000	38.8	20000	14.6
40	50.2	200	50.5	1000	54.4	5000	36.2		
50	52.2	250	51.3	1250	54.2	6300	32.5		







**Nome** (3) punto A Intv T.H. (File N. 1)

Località via C. Besana, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note periodo diurno  
parallela di via San Colonbano  
posizione di fronte INPS, posteggio auto  
misura a 4 mt di altezza  
eventi mascherati: rumori generati passanti e colpi clacson

**Leq:** 73.9 dB(A)

**L01:** 79.9 dB(A)

**L05:** 77.9 dB(A)

**L10:** 76.9 dB(A)

**L50:** 72.8 dB(A)

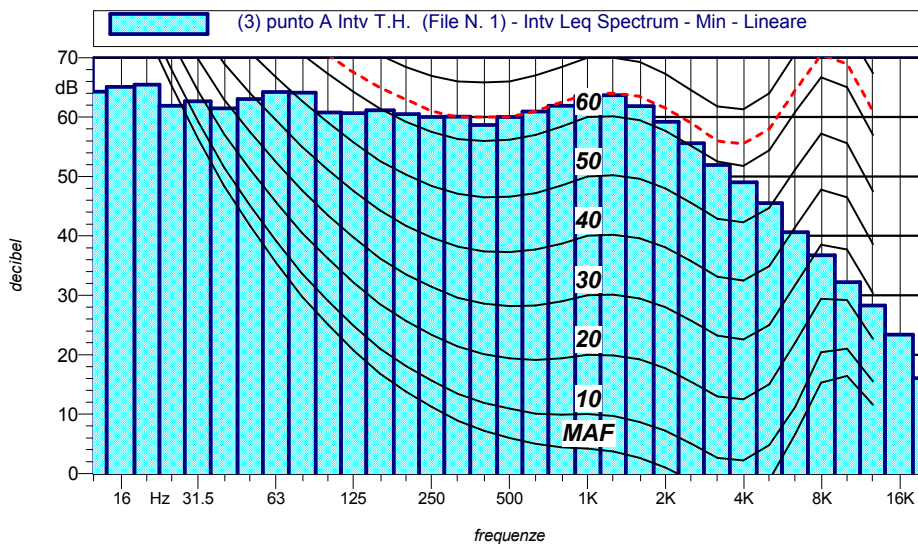
**L90:** 61.3 dB(A)

**L95:** 56.3 dB(A)

**L99:** 49.1 dB(A)

**LFmax:** 99.3 dB(A)

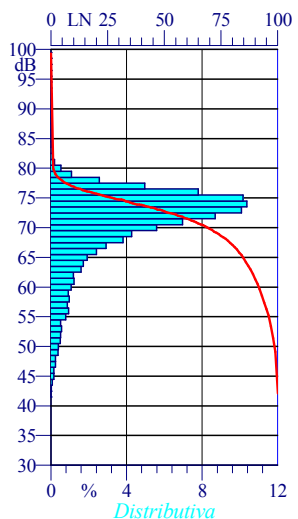
**LFmin:** 42.1 dB(A)



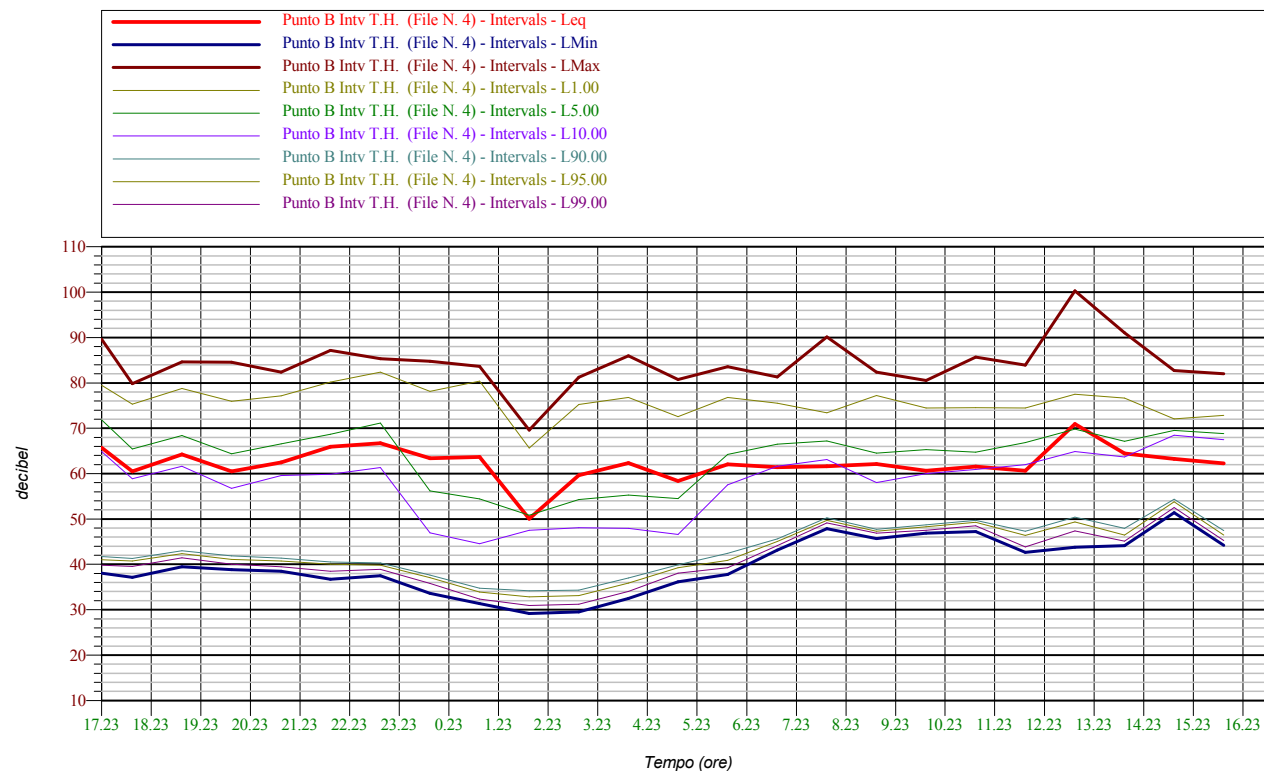
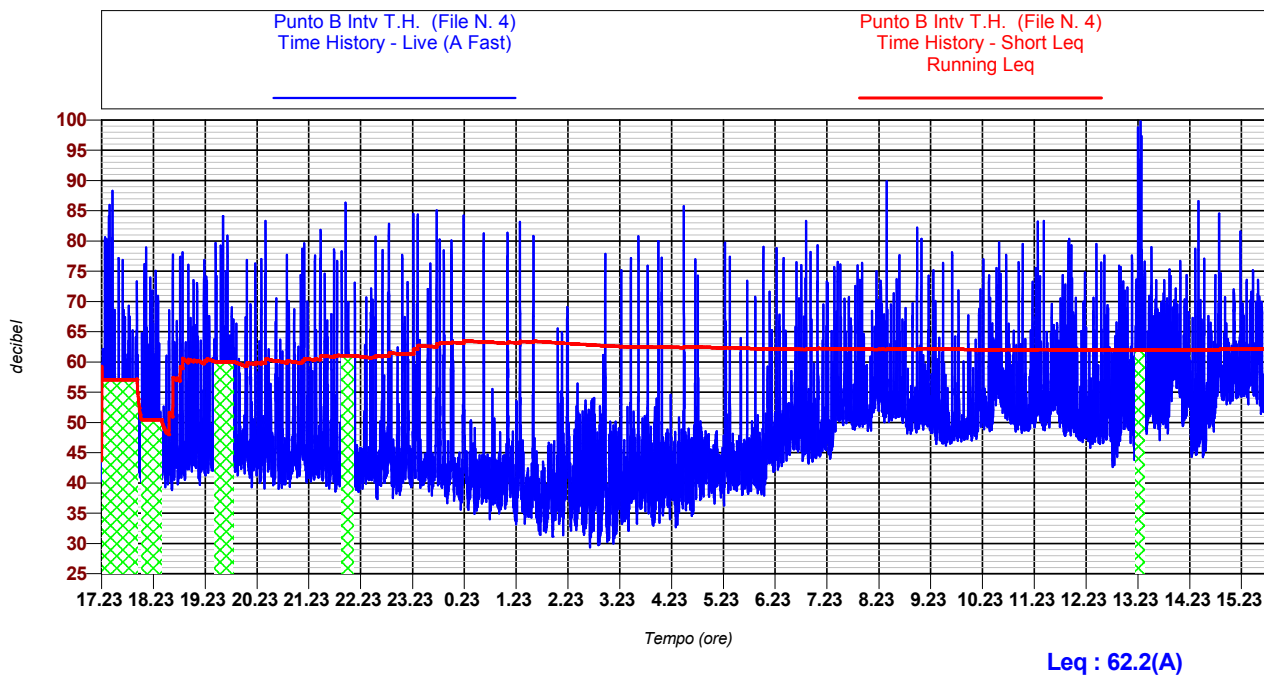
Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	64.3	63	64.2	315	60.0	1600	61.9	8000	36.7
16	65.1	80	64.1	400	58.7	2000	59.2	10000	32.2
20	65.5	100	60.8	500	60.0	2500	55.6	12500	28.3
25	61.9	125	60.7	630	60.9	3150	51.9	16000	23.3
31.5	62.7	160	61.1	800	61.9	4000	49.0	20000	16.1
40	61.5	200	60.5	1000	63.5	5000	45.5		
50	63.0	250	60.0	1250	63.7	6300	40.6		

(3) punto A Intv T.H. (File N. 1) - Intv Leq Spectrum - Min - Lineare

Cumulativa



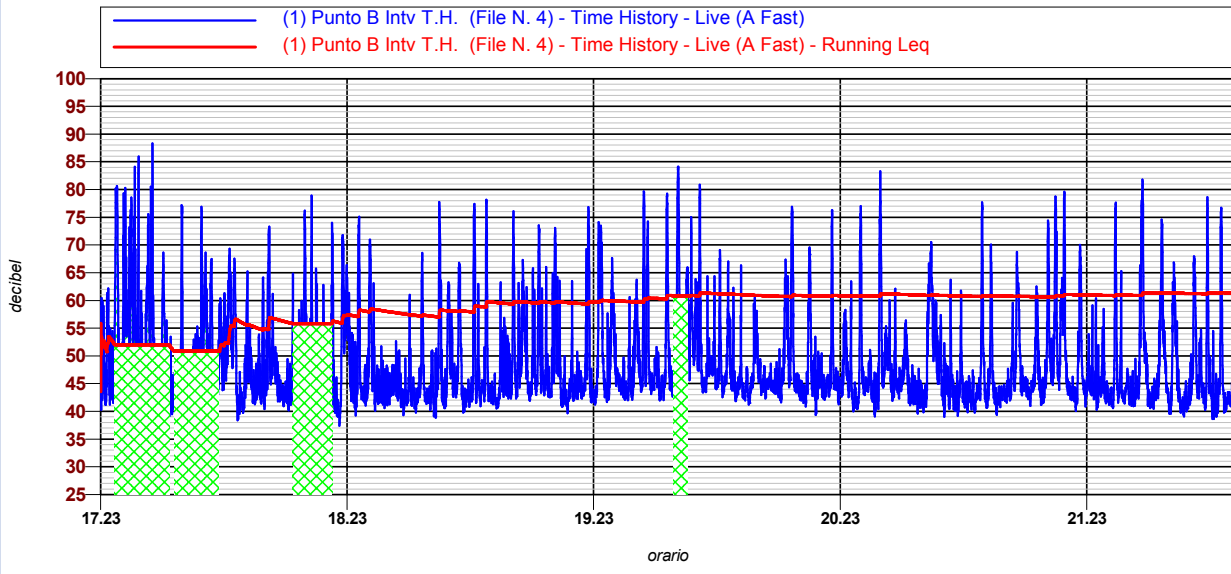
## MISURA IN CONTINUO Punto di misura B



**Nome** *Punto B Intv T.H. (File N. 4) - iniziale*  
**Località** *via G. Marchi, Lodi*  
**Strumentazione** *Larson-Davis 824*  
**Operatore** *P. Zaneboni, D. Ciceri*  
**Società** *Sindar S.r.l.*

**Data** *01/03/2007*  
**Ora** *17.23.01*  
**Pesatura** *A*  
**Cost. di Tempo** *Fast*  
**Numero campioni** *25*

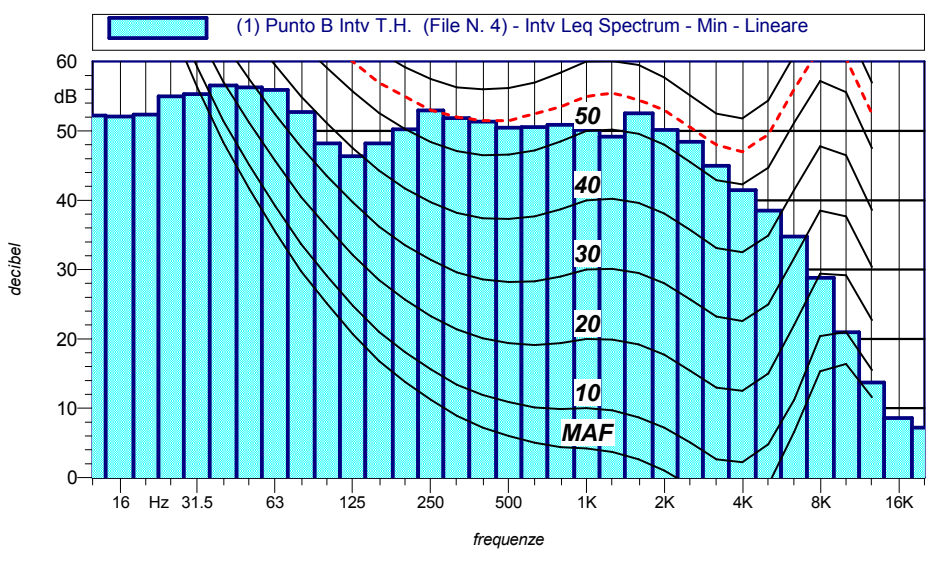
**SINDAR**



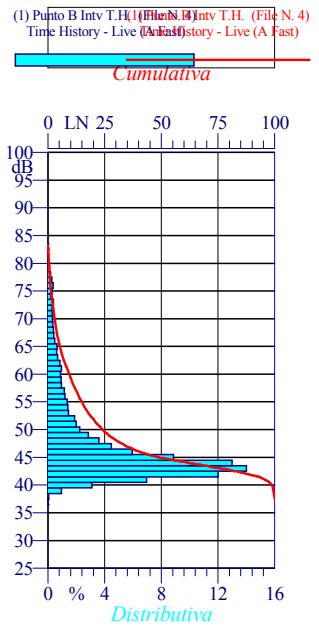
**Nome** (1) Punto B Intv T.H. (File N. 4)  
**Località** via G. Marchi, Lodi  
**Strumentazione** Larson-Davis 824  
**Calibratore** Larson-Davis CAL 200  
**Operatore** P. Zaneboni, D. Ciceri  
**Note** Misura di 24 ore  
 sorgente sonora: ferrovia

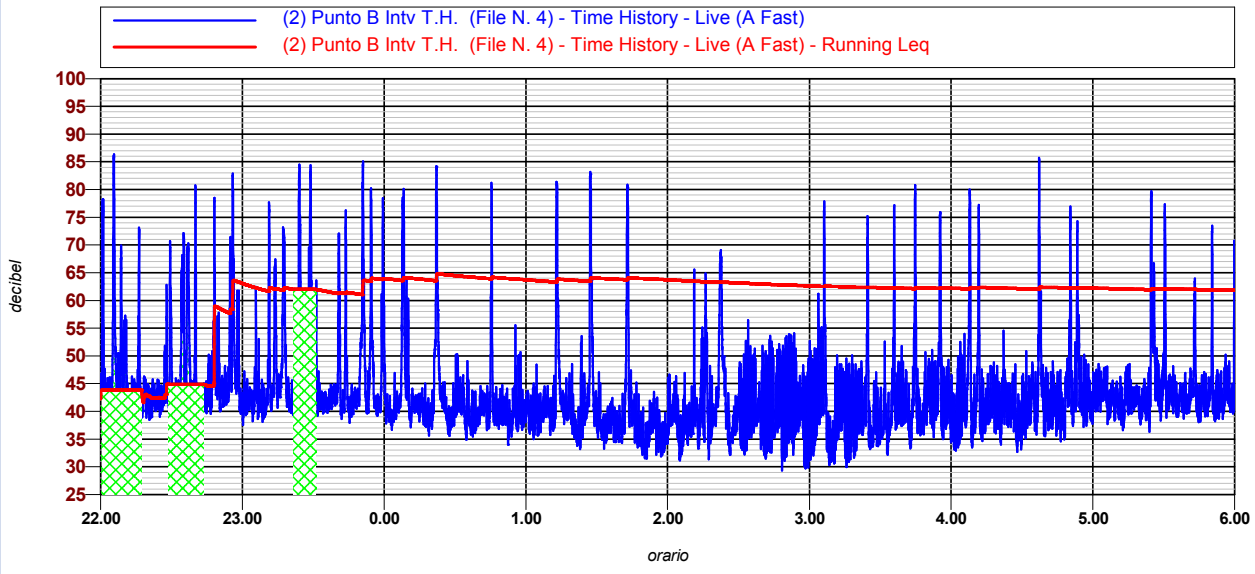
**Data:** 01/03/2007  
**Ora:** 17.23.00  
**Durata:** 16619 sec  
**Intervallo:** 1.000 sec

**Leq:** 61.3 dB(A)  
**L01:** 76.3 dB(A)  
**L05:** 65.5 dB(A)  
**L10:** 59.3 dB(A)  
**L50:** 44.9 dB(A)  
**L90:** 41.8 dB(A)  
**L95:** 41.1 dB(A)  
**L99:** 39.9 dB(A)  
**LFmax:** 83.3 dB(A)  
**LFmin:** 37.4 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	52.2	63	55.9	315	51.8	1600	52.6	8000	28.8
16	52.1	80	52.7	400	51.4	2000	50.1	10000	21.0
20	52.4	100	48.2	500	50.4	2500	48.4	12500	13.7
25	55.0	125	46.4	630	50.6	3150	45.0	16000	8.6
31.5	55.3	160	48.2	800	50.9	4000	41.5	20000	7.2
40	56.6	200	50.2	1000	50.1	5000	38.5		
50	56.3	250	53.0	1250	49.2	6300	34.8		





**Nome** (2) Punto B Intv T.H. (File N. 4)

Località via G. Marchi, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note Misura di 24 ore  
sorgente sonora: ferrovia

Data: 01/03/2007

Ora: 22.00.00

Durata: 28800 sec

Intervallo: 1.000 sec

**Leq: 61.9 dB(A)**

**L01: 76.7 dB(A)**

**L05: 57.1 dB(A)**

**L10: 48.5 dB(A)**

**L50: 41.0 dB(A)**

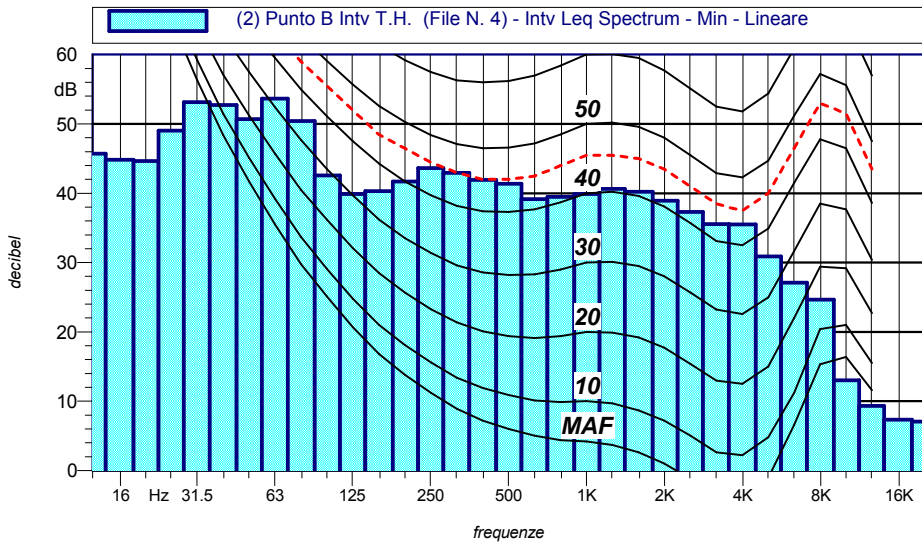
**L90: 36.2 dB(A)**

**L95: 34.8 dB(A)**

**L99: 32.4 dB(A)**

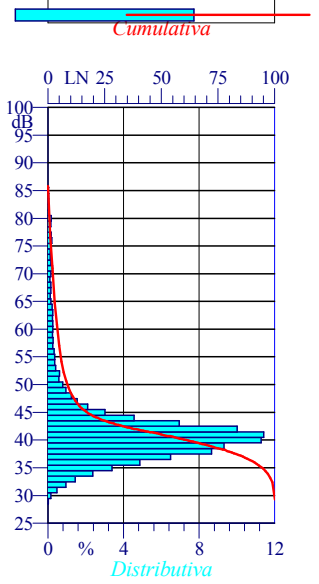
**LFmax: 85.8 dB(A)**

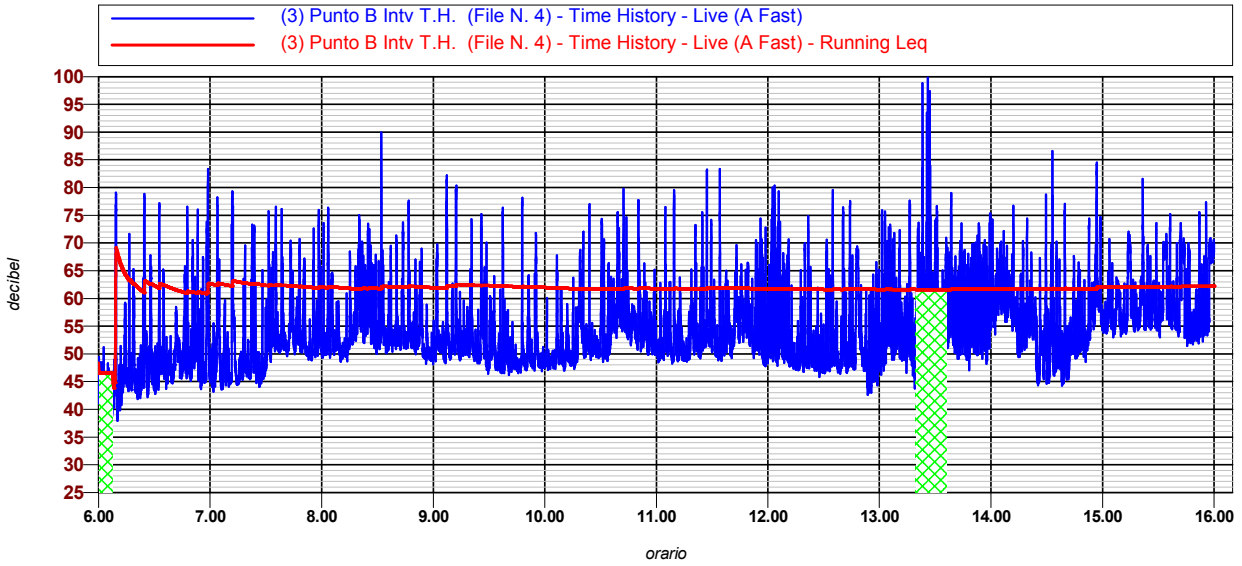
**LFmin: 29.3 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	45.7	63	53.7	315	42.9	1600	40.2	8000	24.7
16	44.8	80	50.4	400	42.0	2000	38.9	10000	13.0
20	44.7	100	42.6	500	41.4	2500	37.3	12500	9.3
25	49.0	125	39.9	630	39.2	3150	35.6	16000	7.3
31.5	53.1	160	40.3	800	39.5	4000	35.5	20000	7.1
40	52.8	200	41.7	1000	39.9	5000	30.9		
50	50.7	250	43.6	1250	40.6	6300	27.1		

(2) Punto B Intv T.H. (File N. 4) - Intv Leq Spectrum - Min - Lineare





**Nome** (3) Punto B Intv T.H. (File N. 4)

**Località** via G. Marchi, Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misura di 24 ore  
sorgente sonora: ferrovia

**Data:** 02/03/2007

**Ora:** 6.00.00

**Durata:** 39600 sec

**Intervallo:** 1.000 sec

**Leq:** 62.2 dB(A)

**L01:** 75.3 dB(A)

**L05:** 67.7 dB(A)

**L10:** 62.8 dB(A)

**L50:** 52.6 dB(A)

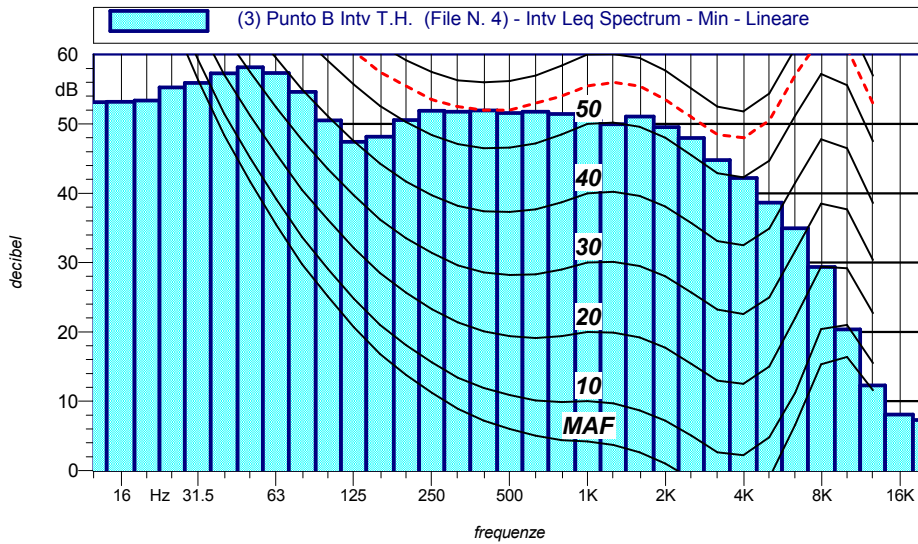
**L90:** 47.4 dB(A)

**L95:** 46.0 dB(A)

**L99:** 43.9 dB(A)

**LFmax:** 89.9 dB(A)

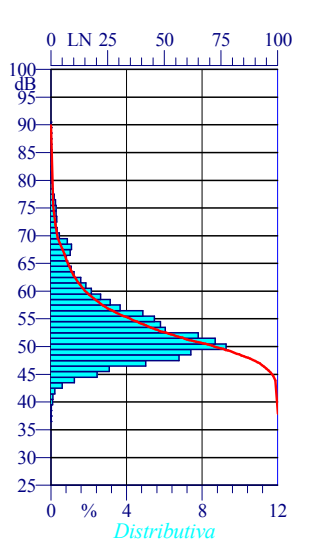
**LFmin:** 37.9 dB(A)

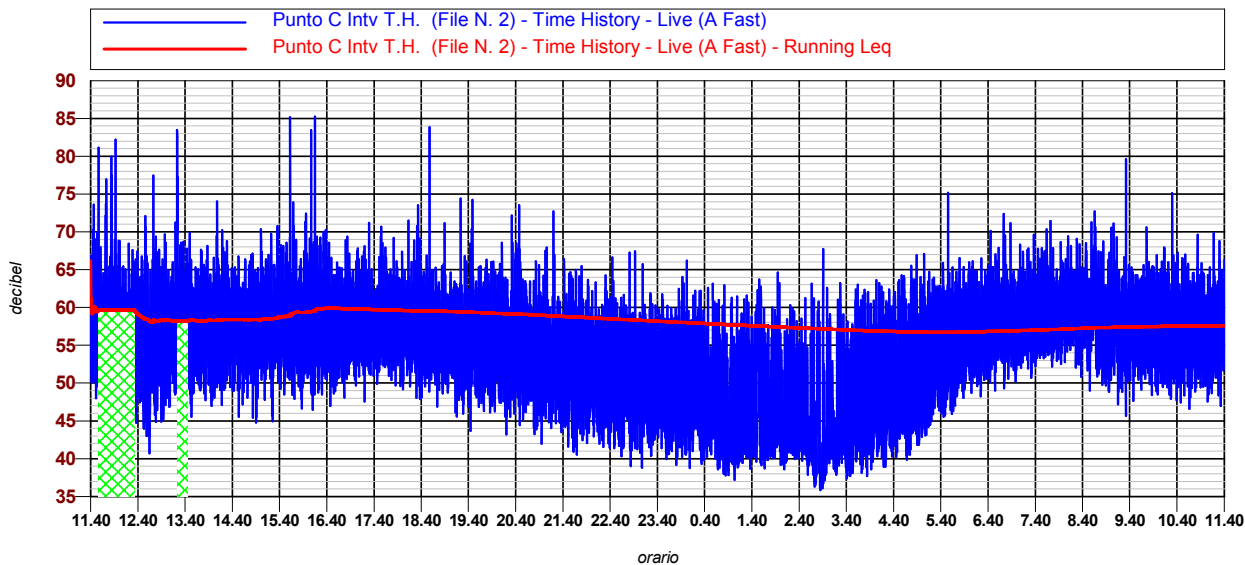


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	53.1	63	57.4	315	51.8	1600	51.1	8000	29.4
16	53.2	80	54.7	400	52.0	2000	49.6	10000	20.3
20	53.4	100	50.5	500	51.6	2500	48.0	12500	12.3
25	55.3	125	47.4	630	51.8	3150	44.8	16000	8.1
31.5	55.9	160	48.2	800	51.4	4000	42.2	20000	7.3
40	57.3	200	50.6	1000	50.5	5000	38.7		
50	58.2	250	51.9	1250	50.0	6300	34.9		

(3) Punto B Intv T.H. (File N. 4) - Intv Leq Spectrum - Min - Lineare

(3) Punto B Intv T.H. (File N. 4) - Time History - Live (A Fast)





**Nome** *Punto C Intv T.H. (File N. 2)*

**Località** *via C. Marzagalli, Lodi*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misurazioni in continuo*

**Data:** 11/04/2007

**Ora:** 11.40.00

**Durata:** 86439 sec

**Intervallo:** 1.000 sec

**Leq:** 57.6 dB(A)

**L01:** 66.1 dB(A)

**L05:** 62.3 dB(A)

**L10:** 60.8 dB(A)

**L50:** 55.1 dB(A)

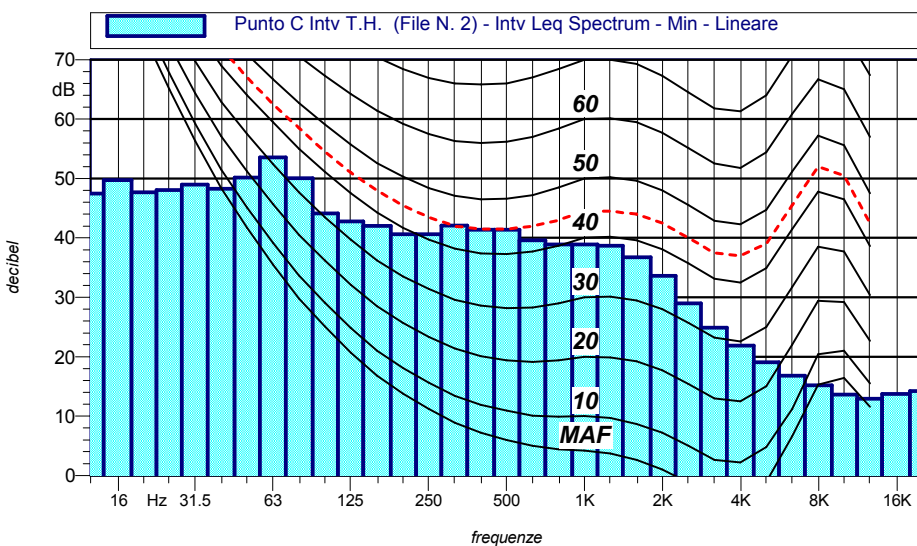
**L90:** 43.6 dB(A)

**L95:** 41.7 dB(A)

**L99:** 39.3 dB(A)

**LFmax:** 85.3 dB(A)

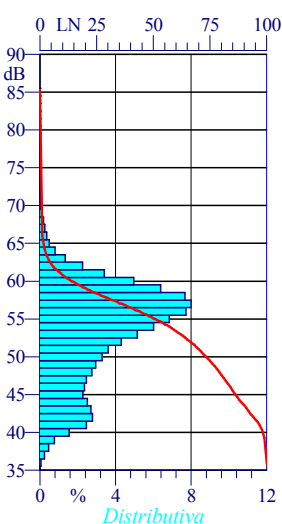
**LFmin:** 35.8 dB(A)

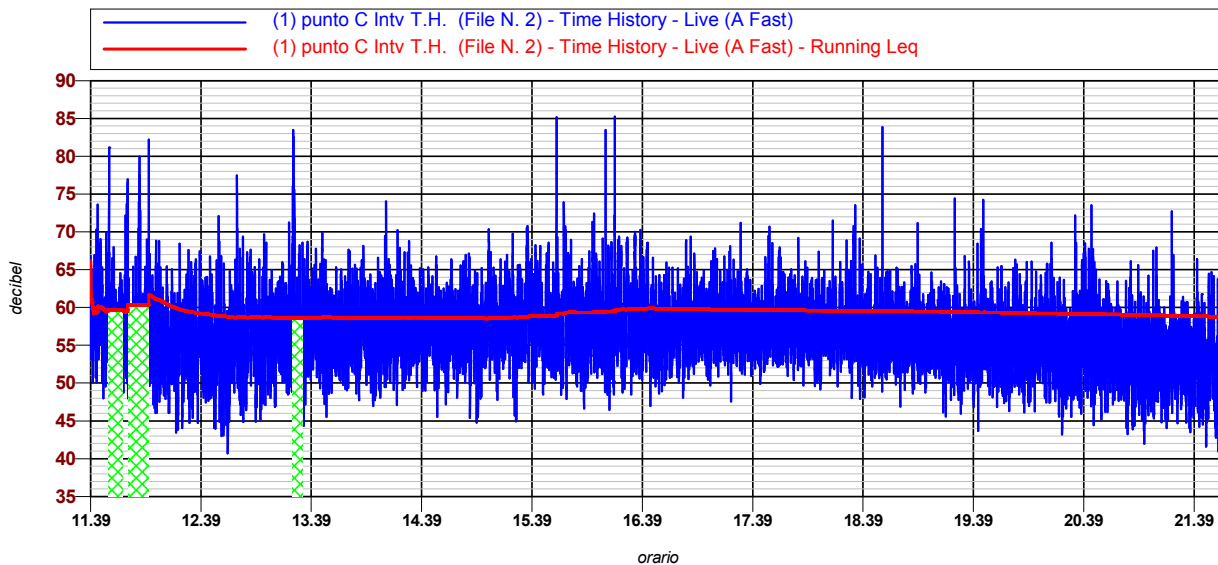


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	47.5	63	53.6	315	42.1	1600	36.7	8000	15.2
16	49.7	80	50.1	400	41.3	2000	33.6	10000	13.6
20	47.7	100	44.1	500	41.4	2500	29.0	12500	12.9
25	48.1	125	42.8	630	39.6	3150	24.9	16000	13.7
31.5	49.0	160	42.0	800	38.9	4000	21.9	20000	14.2
40	48.2	200	40.6	1000	38.9	5000	19.0		
50	50.1	250	40.6	1250	38.7	6300	16.8		

Punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Linear

Cumulativa





**Nome** (1) punto C Intv T.H. (File N. 2)

Località via C. Marzagalli, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note misura a 4 m  
eventi mascherati: rumori generati da lavori edili interni al quartiere

**Leq:** 58.8 dB(A)

**L01:** 67.5 dB(A)

**L05:** 63.0 dB(A)

**L10:** 61.2 dB(A)

**L50:** 56.3 dB(A)

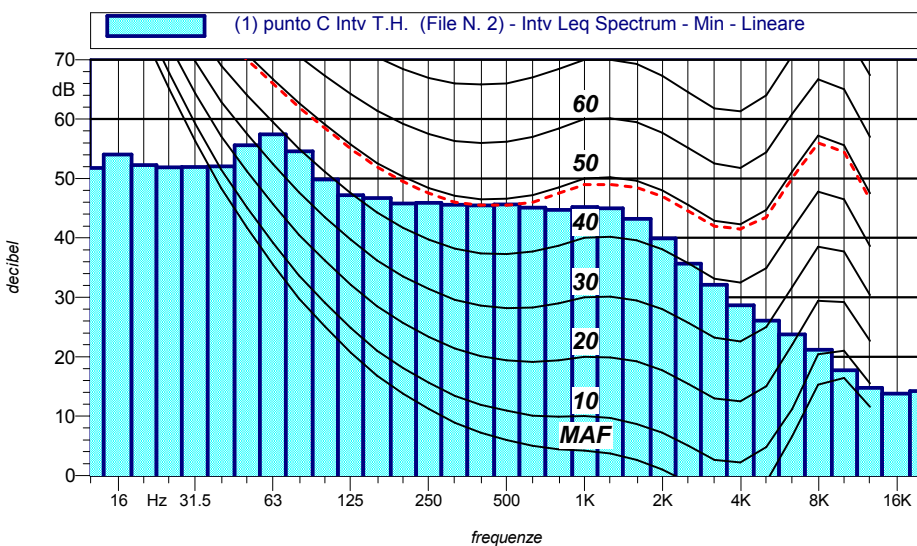
**L90:** 50.8 dB(A)

**L95:** 49.1 dB(A)

**L99:** 45.9 dB(A)

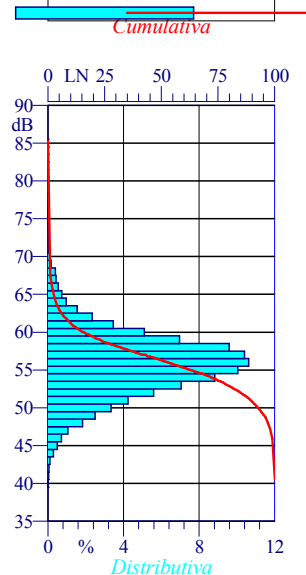
**LFmax:** 85.3 dB(A)

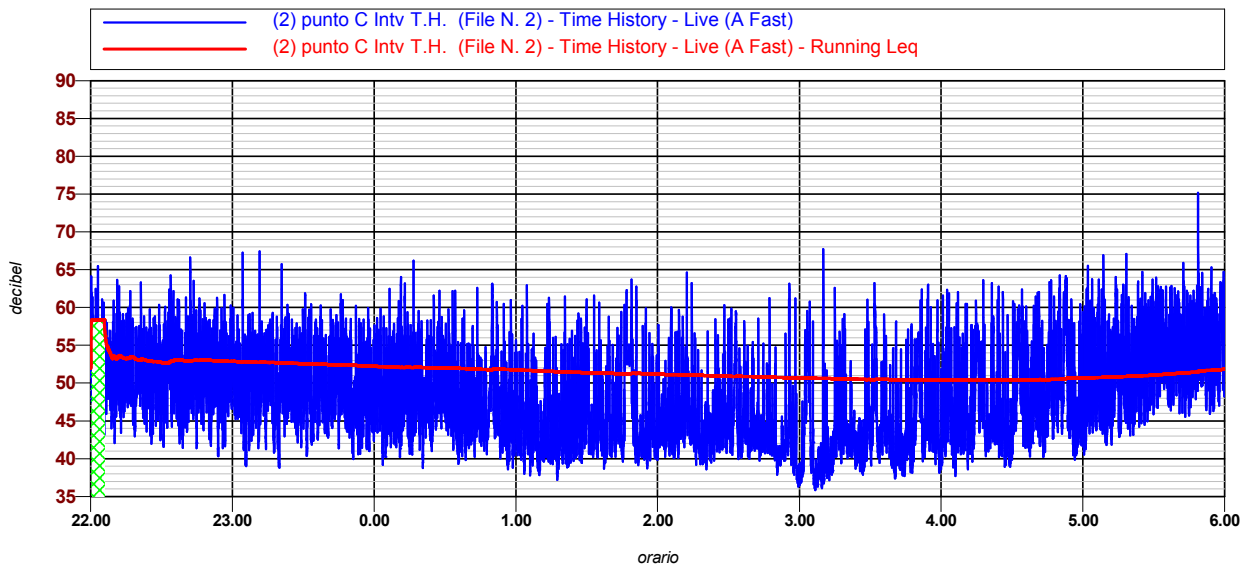
**LFmin:** 40.5 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	51.8	63	57.4	315	45.6	1600	43.2	8000	21.2
16	54.1	80	54.6	400	45.4	2000	39.9	10000	17.7
20	52.3	100	49.8	500	45.7	2500	35.7	12500	14.7
25	51.9	125	47.2	630	45.1	3150	32.1	16000	13.8
31.5	51.9	160	46.7	800	44.7	4000	28.7	20000	14.2
40	52.1	200	45.8	1000	45.2	5000	26.0		
50	55.6	250	45.9	1250	45.0	6300	23.7		

(1) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare





**Nome** (2) punto C Intv T.H. (File N. 2)

Località via C. Marzagalli, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note misura a 4 m  
eventi mascherati: rumori generati da lavori edili interni al quartiere

**Leq:** 51.8 dB(A)

**L01:** 61.7 dB(A)

**L05:** 58.1 dB(A)

**L10:** 55.8 dB(A)

**L50:** 46.8 dB(A)

**L90:** 41.1 dB(A)

**L95:** 40.1 dB(A)

**L99:** 38.0 dB(A)

**LFmax:** 75.2 dB(A)

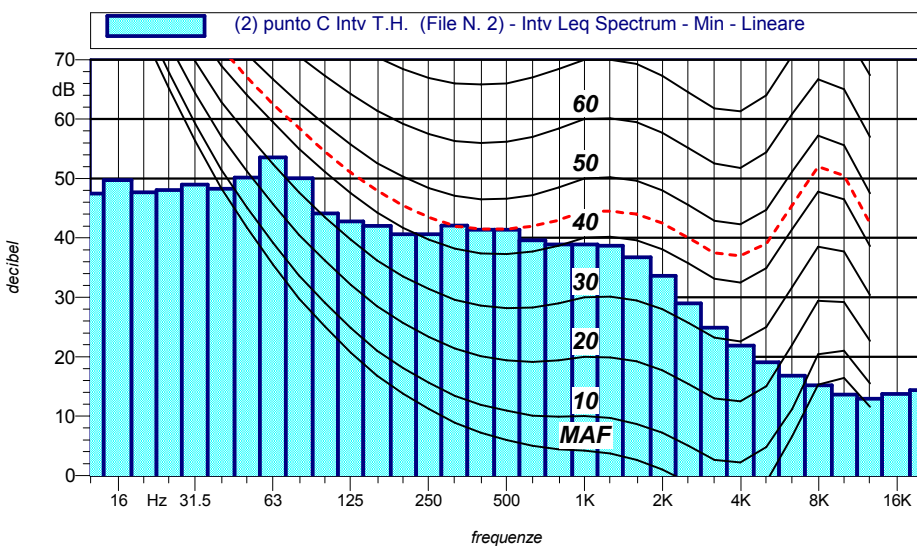
**LFmin:** 35.8 dB(A)

Data: 11/04/2007

Ora: 22.00.00

Durata: 31174 sec

Intervallo: 1.000 sec



(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

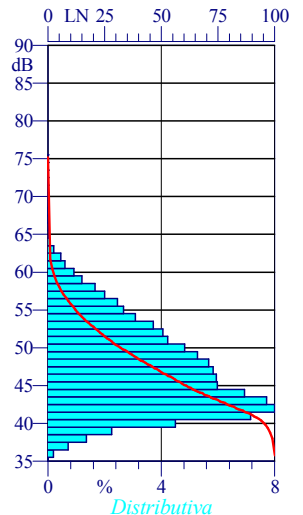
(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

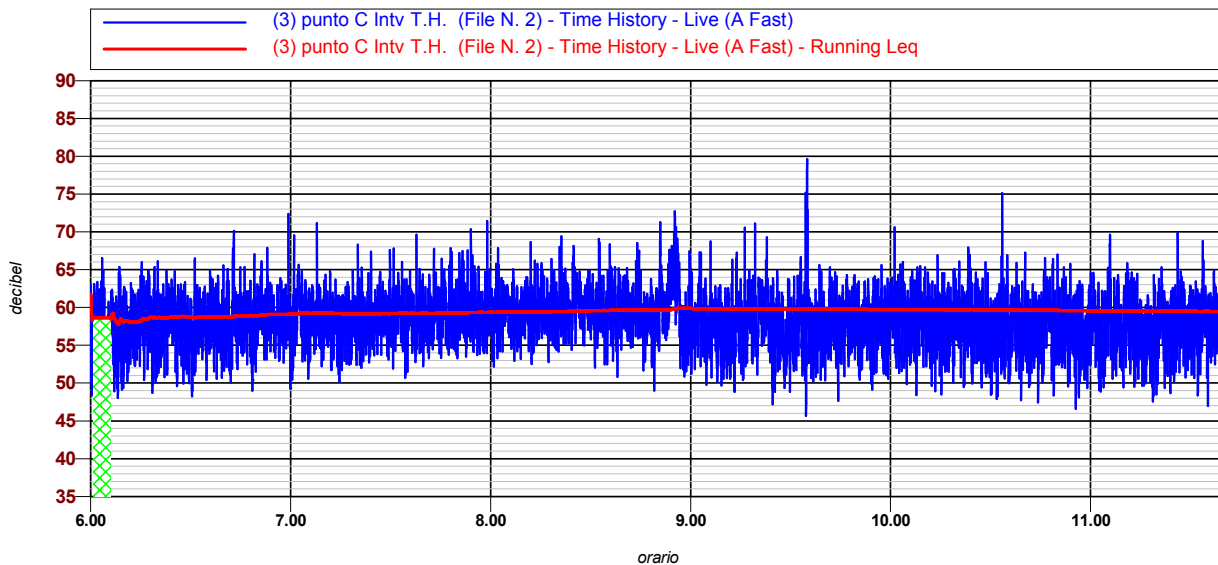
(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

(2) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Lineare

Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	47.5	63	53.6	315	42.1	1600	36.7	8000	15.2
16	49.7	80	50.1	400	41.3	2000	33.6	10000	13.6
20	47.7	100	44.1	500	41.4	2500	29.0	12500	12.9
25	48.1	125	42.8	630	39.6	3150	24.9	16000	13.7
31.5	49.0	160	42.0	800	38.9	4000	21.9	20000	14.4
40	48.2	200	40.6	1000	38.9	5000	19.0		
50	50.1	250	40.6	1250	38.7	6300	16.8		







**Nome** (3) punto C Intv T.H. (File N. 2)

Località via C. Marzagalli, Lodi

Data: 12/04/2007

Strumentazione Larson-Davis 824

Ora: 6.00.00

Calibratore Larson-Davis CAL 200

Durata: 20413 sec

Operatore P. Zaneboni, D. Ciceri

Intervallo: 1.000 sec

Note misura a 4 m  
eventi mascherati: rumori generati da lavori edili interni al quartiere

**Leq: 59.5 dB(A)**

**L01: 66.3 dB(A)**

**L05: 63.3 dB(A)**

**L10: 62.1 dB(A)**

**L50: 58.3 dB(A)**

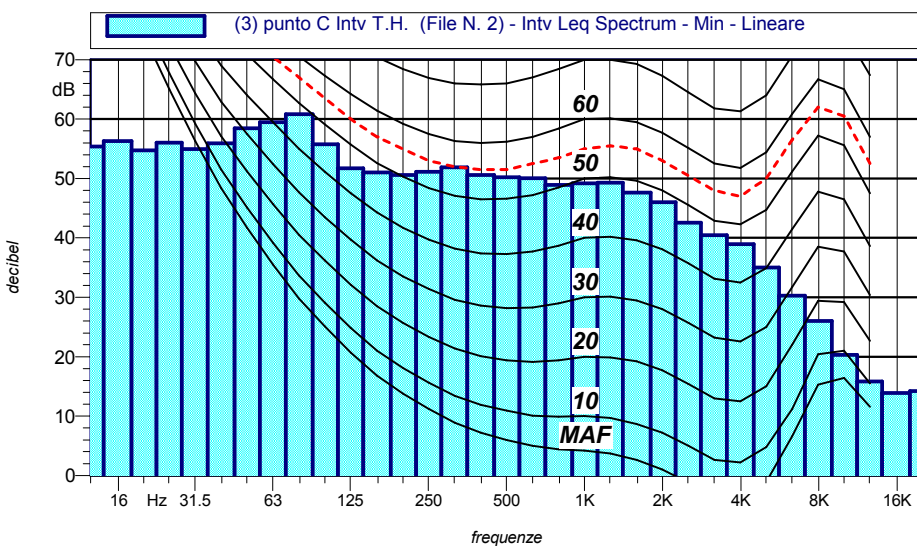
**L90: 53.9 dB(A)**

**L95: 52.6 dB(A)**

**L99: 50.4 dB(A)**

**LFmax: 79.6 dB(A)**

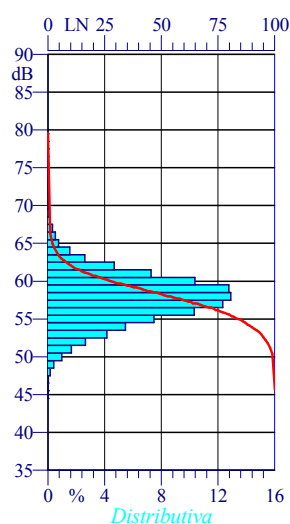
**LFmin: 45.6 dB(A)**

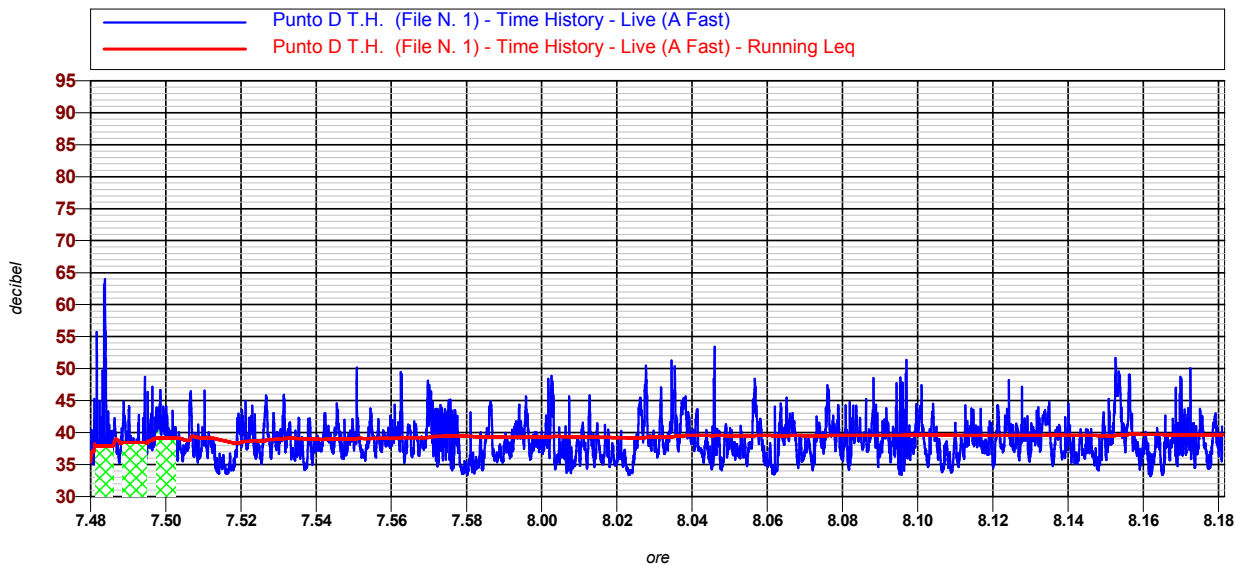


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	55.4	63	59.5	315	51.9	1600	47.6	8000	26.0
16	56.3	80	60.8	400	50.6	2000	46.0	10000	20.3
20	54.7	100	55.7	500	50.2	2500	42.5	12500	15.8
25	56.0	125	51.7	630	50.1	3150	40.4	16000	13.9
31.5	55.0	160	51.0	800	48.9	4000	39.0	20000	14.2
40	55.9	200	50.6	1000	49.2	5000	35.0		
50	58.4	250	51.1	1250	49.3	6300	30.3		

(3) punto C Intv T.H. (File N. 2) - Intv Leq Spectrum - Min - Linear

Cumulativa





**Nome** Punto D T.H. (File N. 1)

**Località** scuola materna "Campo Marte"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula affacciata su via F. Cavallotti  
periodo diurno

**Data:** 19/02/2007

**Ora:** 7.48.38

**Durata:** 1806 sec

**Intervallo:** 0.125 sec

**Leq:** 39.7 dB(A)

**L01:** 47.1 dB(A)

**L05:** 43.7 dB(A)

**L10:** 42.2 dB(A)

**L50:** 38.3 dB(A)

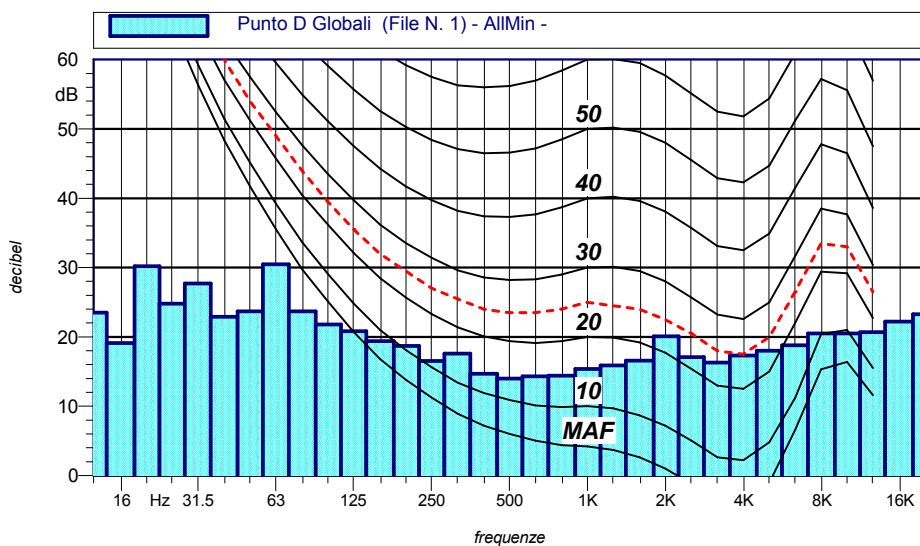
**L90:** 35.2 dB(A)

**L95:** 34.5 dB(A)

**L99:** 33.7 dB(A)

**LFmax:** 53.4 dB(A)

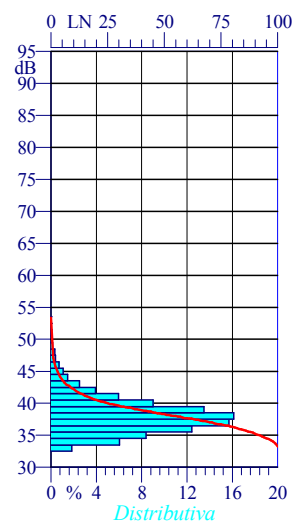
**LFmin:** 33.2 dB(A)

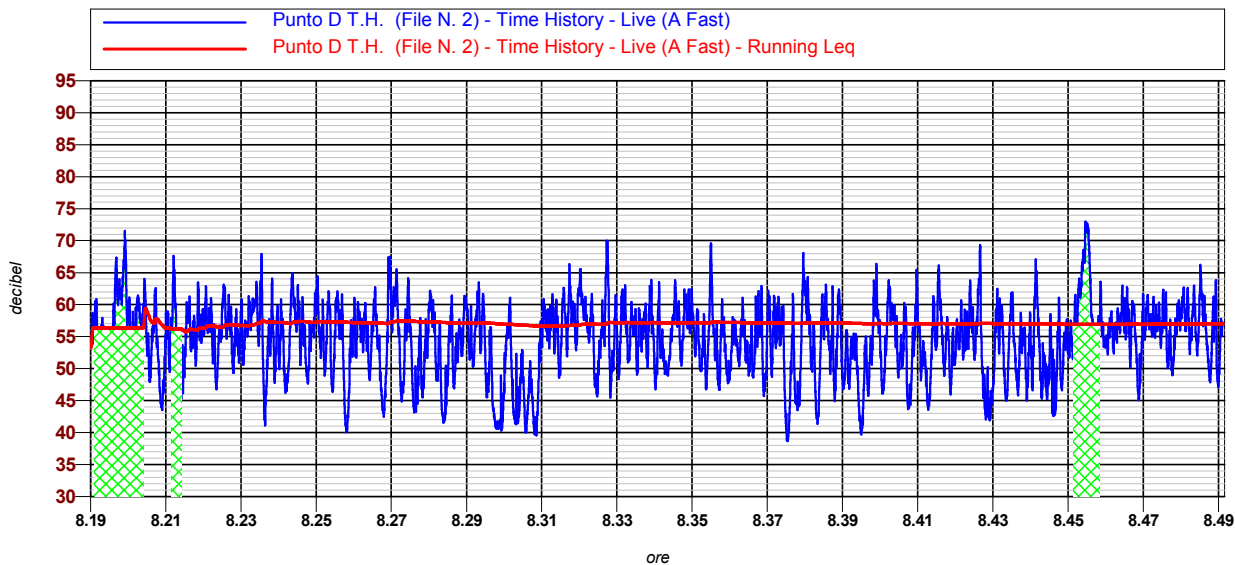


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	23.5	63	30.5	315	17.6	1600	16.6	8000	20.5
16	19.1	80	23.7	400	14.7	2000	20.1	10000	20.5
20	30.2	100	21.8	500	14.0	2500	17.1	12500	20.7
25	24.8	125	20.8	630	14.3	3150	16.3	16000	22.2
31.5	27.7	160	19.4	800	14.4	4000	17.3	20000	23.3
40	22.9	200	18.7	1000	15.4	5000	18.0		
50	23.7	250	16.5	1250	15.9	6300	18.8		

Punto D T.H. (File N. 1) - AllMin -  
Time History - Live (A Fast)

Cumulativa





**Nome** *Punto D T.H. (File N. 2)*

**Località** *scuola materna "Campo Marte"*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misure di rumore ambientale ad un metro dalla finestra aperta aula affacciata su via F. Cavallotti periodo diurno*

**Data:** 19/02/2007

**Ora:** 8.19.52

**Durata:** 1806 sec

**Intervallo:** 0.125 sec

**Leq:** 57.0 dB(A)

**L01:** 65.1 dB(A)

**L05:** 62.0 dB(A)

**L10:** 60.6 dB(A)

**L50:** 54.9 dB(A)

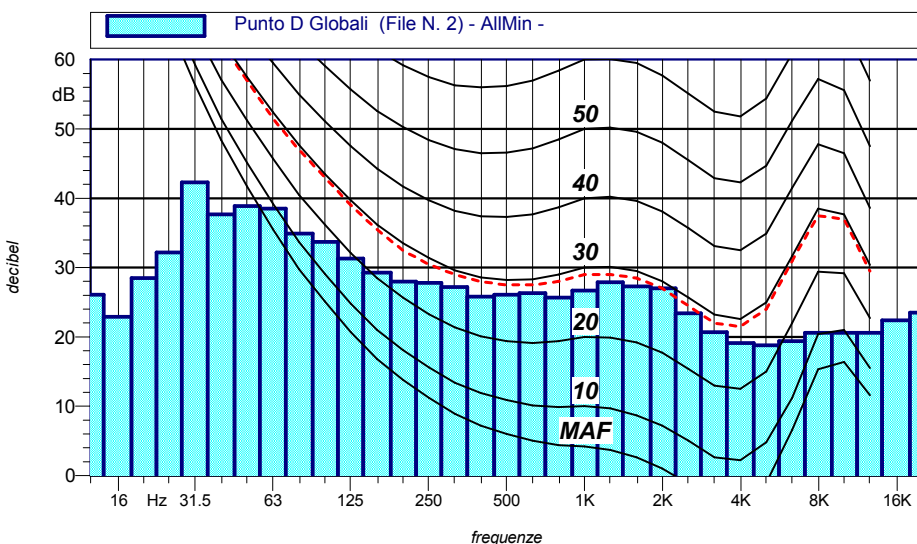
**L90:** 46.3 dB(A)

**L95:** 43.9 dB(A)

**L99:** 40.8 dB(A)

**LFmax:** 70.0 dB(A)

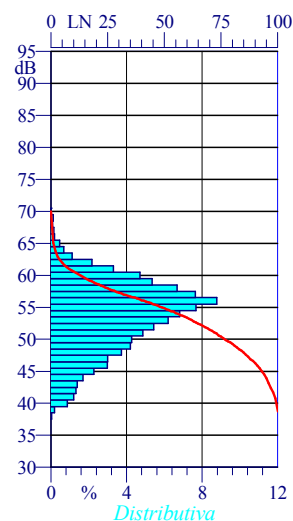
**LFmin:** 38.7 dB(A)

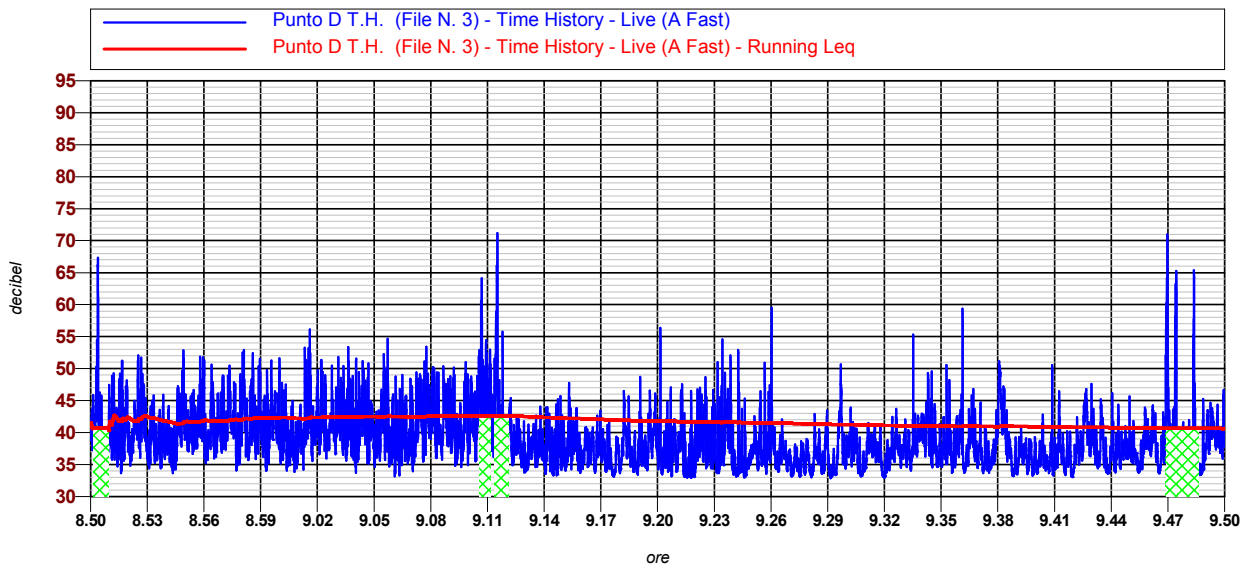


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	26.1	63	38.5	315	27.2	1600	27.3	8000	20.6
16	22.9	80	34.9	400	25.8	2000	27.0	10000	20.6
20	28.5	100	33.7	500	26.1	2500	23.4	12500	20.6
25	32.2	125	31.3	630	26.3	3150	20.7	16000	22.4
31.5	42.3	160	29.3	800	25.7	4000	19.1	20000	23.5
40	37.7	200	28.0	1000	26.7	5000	18.8		
50	38.9	250	27.8	1250	27.9	6300	19.4		

Punto D T.H. (File N. 2) - Time History - Live (A Fast) - Running Leq

Cumulativa





**Nome** **Punto D T.H. (File N. 3)**

Località *scuola materna "Campo Marte"*

Strumentazione *Larson-Davis 824*

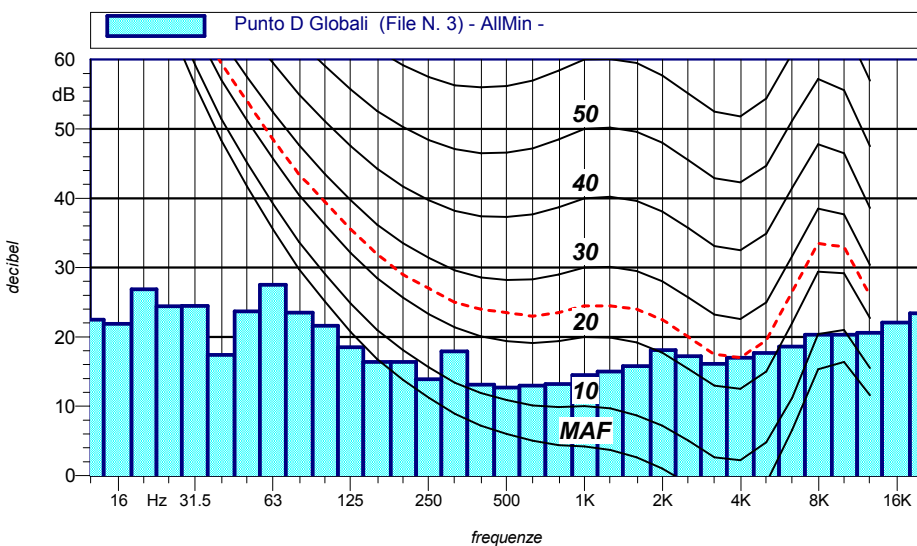
Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula affacciata su via F. Cavallotti  
periodo diurno*

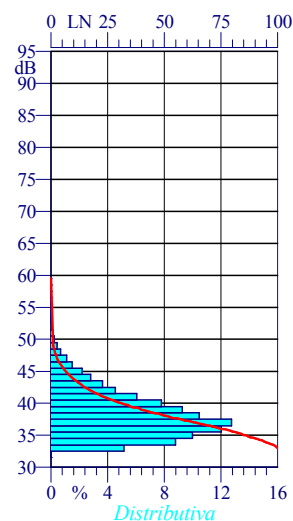
Data: 19/02/2007  
Ora: 8.50.48  
Durata: 3607 sec  
Intervallo: 0.125 sec

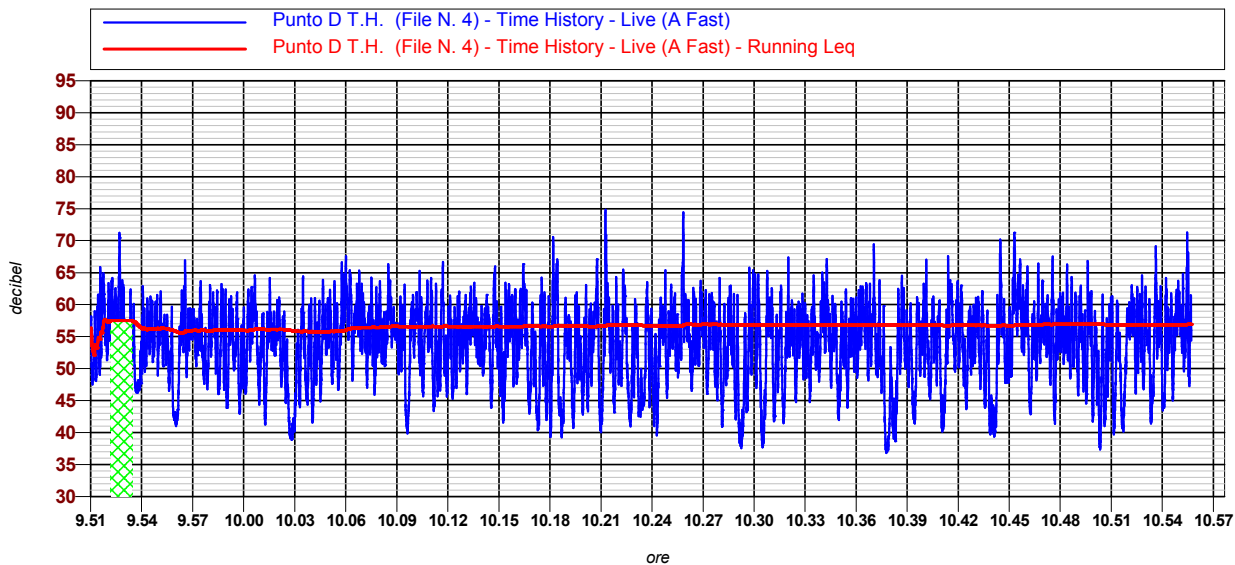
- Leq:** 40.6 dB(A)
- L01: 49.0 dB(A)
- L05: 45.7 dB(A)
- L10: 43.8 dB(A)
- L50: 38.1 dB(A)
- L90: 34.5 dB(A)
- L95: 33.9 dB(A)
- L99: 33.3 dB(A)
- LFmax: 59.5 dB(A)
- LFmin: 32.9 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	22.5	63	27.5	315	17.9	1600	15.8	8000	20.3
16	21.9	80	23.5	400	13.1	2000	18.1	10000	20.3
20	26.9	100	21.6	500	12.7	2500	17.2	12500	20.6
25	24.4	125	18.5	630	13.0	3150	16.1	16000	22.1
31.5	24.5	160	16.4	800	13.2	4000	17.0	20000	23.4
40	17.4	200	16.4	1000	14.5	5000	17.7		
50	23.7	250	13.9	1250	15.0	6300	18.6		

Punto D T.H. (File N. 3) - AllMin -  
Punto D T.H. (File N. 3)  
Time History - Live (A Fast)  
Time History - Live (A Fast)  
Cumulativa





**Nome** Punto D T.H. (File N. 4)

**Località** scuola materna "Campo Marte"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale ad un metro dalla finestra aperta aula affacciata su via F. Cavallotti periodo diurno

**Data:** 19/02/2007

**Ora:** 9.51.49

**Durata:** 3882 sec

**Intervallo:** 0.125 sec

**Leq:** 56.9 dB(A)

**L01:** 65.3 dB(A)

**L05:** 62.0 dB(A)

**L10:** 60.5 dB(A)

**L50:** 54.3 dB(A)

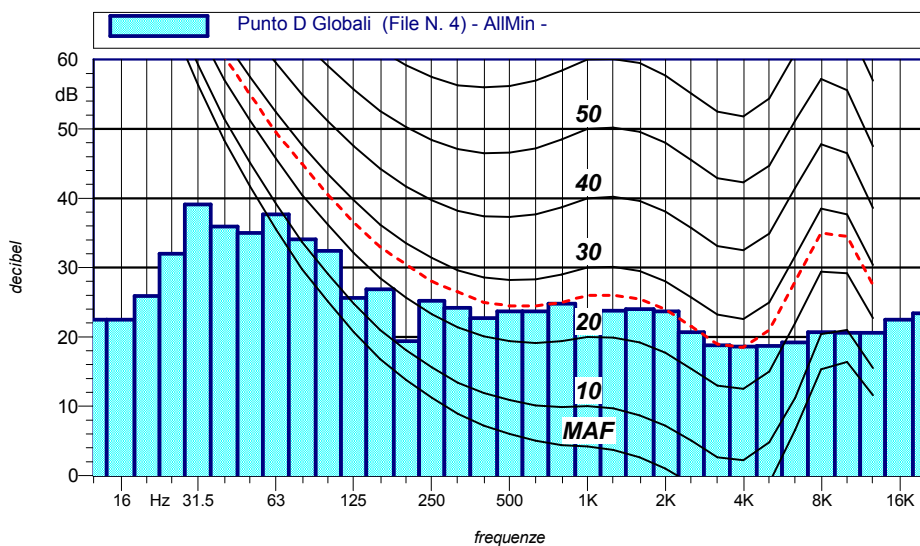
**L90:** 44.7 dB(A)

**L95:** 42.3 dB(A)

**L99:** 39.6 dB(A)

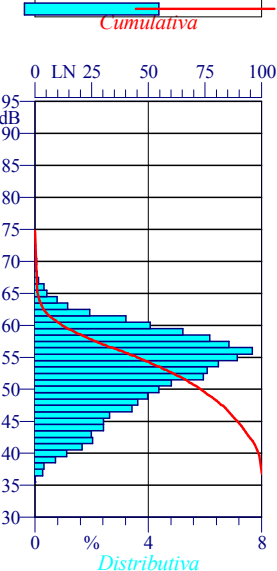
**LFmax:** 74.8 dB(A)

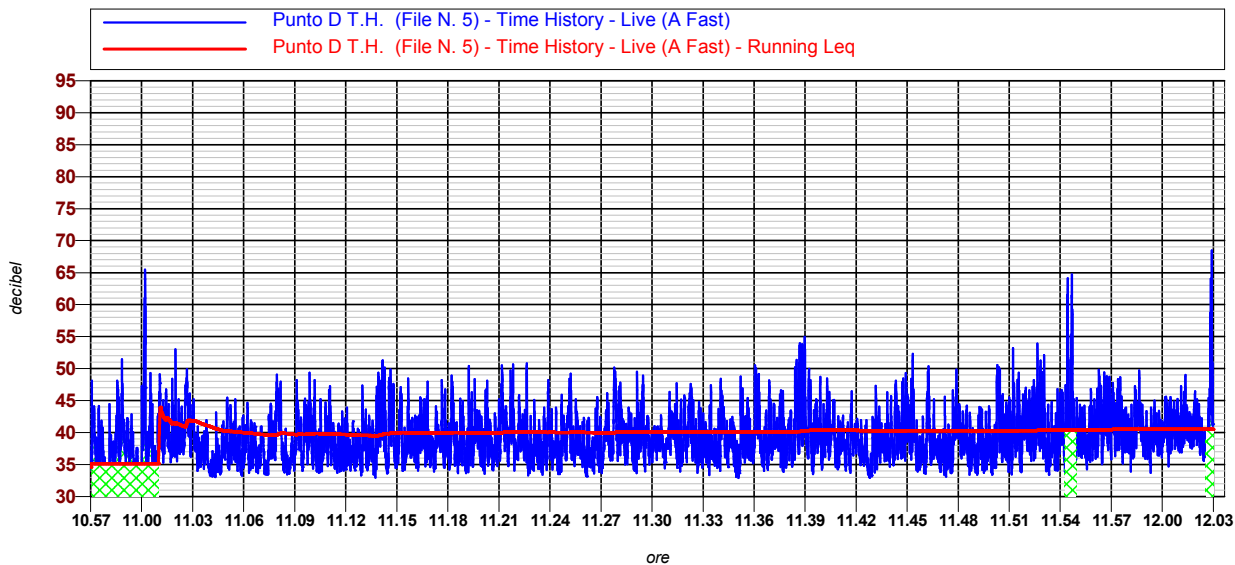
**LFmin:** 36.8 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	22.5	63	37.7	315	24.2	1600	24.0	8000	20.7
16	22.5	80	34.1	400	22.7	2000	23.7	10000	20.6
20	25.9	100	32.4	500	23.7	2500	20.7	12500	20.6
25	32.0	125	25.6	630	23.7	3150	18.8	16000	22.5
31.5	39.1	160	26.9	800	24.8	4000	18.6	20000	23.4
40	35.9	200	19.4	1000	23.1	5000	18.7		
50	35.0	250	25.2	1250	23.8	6300	19.2		

Punto D T.H. (File N. 4) - AllMin -  
Punto D T.H. (File N. 4) - Time History - Live (A Fast)





**Nome** *Punto D T.H. (File N. 5)*

Località *scuola materna "Campo Marte"*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula affacciata su via F. Cavallotti  
periodo diurno*

Data: 19/02/2007

Ora: 10.57.29

Durata: 3959 sec

Intervallo: 0.125 sec

**Leq:** 40.5 dB(A)

**L01:** 48.2 dB(A)

**L05:** 45.2 dB(A)

**L10:** 43.5 dB(A)

**L50:** 38.7 dB(A)

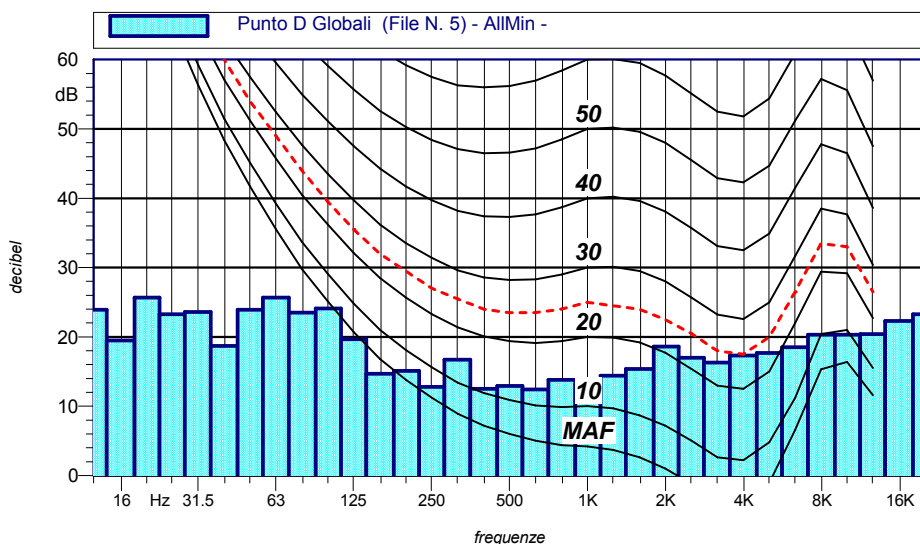
**L90:** 35.3 dB(A)

**L95:** 34.6 dB(A)

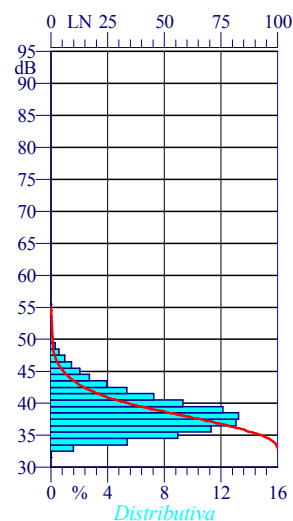
**L99:** 33.7 dB(A)

**LFmax:** 55.0 dB(A)

**LFmin:** 32.9 dB(A)

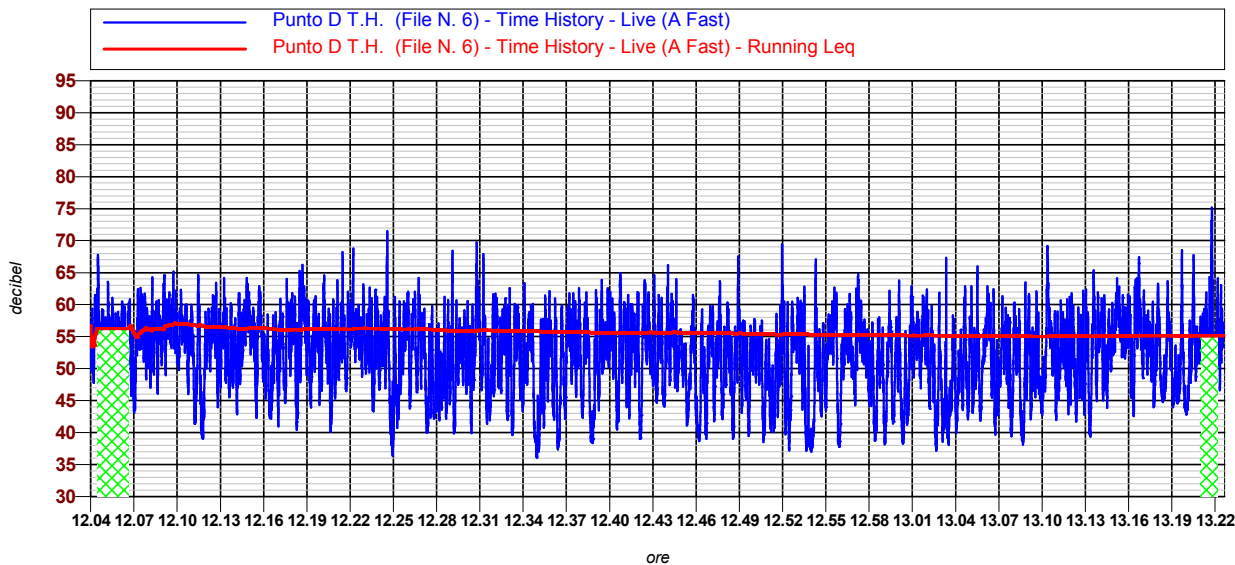


Punto D T.H. (File N. 5) - Time History - Live (A Fast)  
 Punto D T.H. (File N. 5) - Time History - Live (A Fast)  
 Cumulativa



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	23.9	63	25.7	315	16.7	1600	15.4	8000	20.3
16	19.5	80	23.5	400	12.5	2000	18.6	10000	20.3
20	25.7	100	24.1	500	12.9	2500	17.0	12500	20.4
25	23.3	125	19.7	630	12.4	3150	16.3	16000	22.3
31.5	23.6	160	14.7	800	13.8	4000	17.3	20000	23.3
40	18.7	200	15.1	1000	13.2	5000	17.7		
50	23.9	250	12.8	1250	14.4	6300	18.5		





**Nome** Punto D T.H. (File N. 6)

**Località** scuola materna "Campo Marte"

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale ad un metro dalla finestra aperta aula affacciata su via F. Cavallotti periodo diurno

**Data:** 19/02/2007

**Ora:** 12.04.12

**Durata:** 4714 sec

**Intervallo:** 0.125 sec

**Leq:** 55.2 dB(A)

**L01:** 63.4 dB(A)

**L05:** 60.4 dB(A)

**L10:** 58.9 dB(A)

**L50:** 52.5 dB(A)

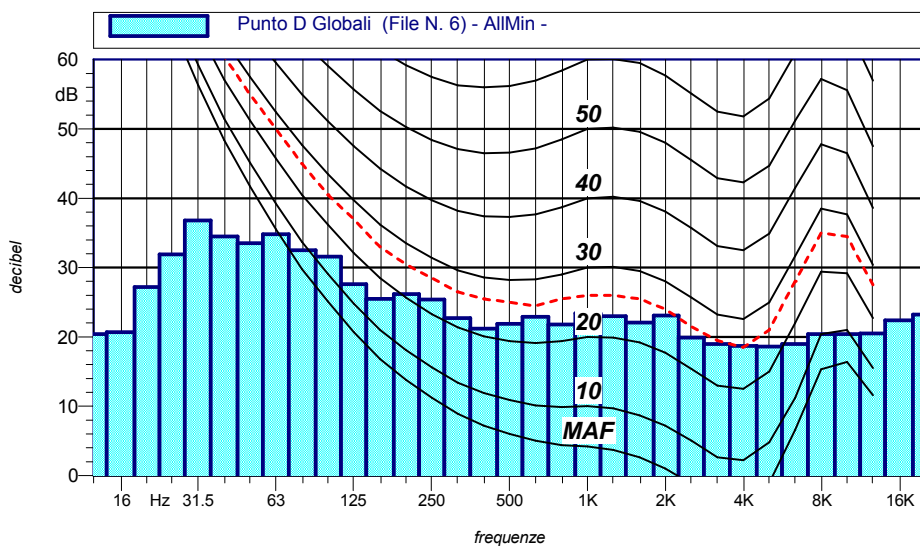
**L90:** 43.3 dB(A)

**L95:** 41.1 dB(A)

**L99:** 38.5 dB(A)

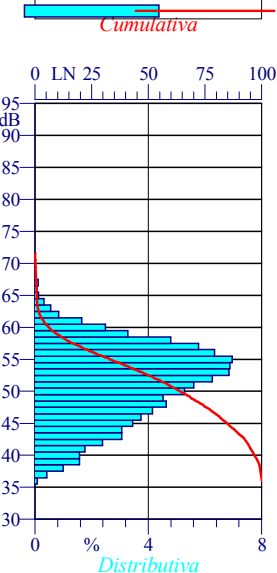
**LFmax:** 71.5 dB(A)

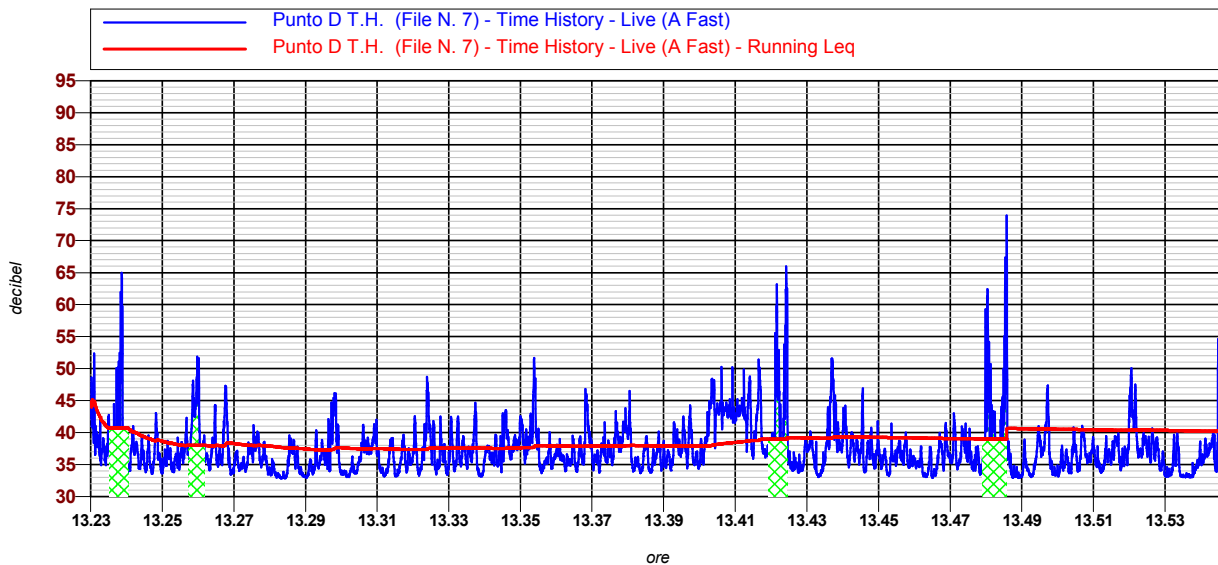
**LFmin:** 36.0 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	20.4	63	34.8	315	22.7	1600	22.1	8000	20.4
16	20.7	80	32.5	400	21.2	2000	23.1	10000	20.4
20	27.2	100	31.6	500	21.9	2500	19.9	12500	20.5
25	31.9	125	27.6	630	22.9	3150	19.0	16000	22.4
31.5	36.8	160	25.5	800	21.8	4000	18.7	20000	23.2
40	34.5	200	26.2	1000	23.4	5000	18.6		
50	33.5	250	25.4	1250	23.0	6300	19.0		

Punto D T.H. (File N. 6) - AllMin -  
Punto D T.H. (File N. 6)  
Time History - Live (A Fast)





**Nome** *Punto D T.H. (File N. 7)*

**Località** *scuola materna "Campo Marte"*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misure di rumore ambientale  
centro stanza a finestre chiuse  
aula affacciata su via F. Cavallotti  
periodo diurno*

**Data:** 19/02/2007

**Ora:** 13.23.39

**Durata:** 1896 sec

**Intervallo:** 0.125 sec

**Leq:** 40.3 dB(A)

**L01:** 47.8 dB(A)

**L05:** 43.6 dB(A)

**L10:** 41.4 dB(A)

**L50:** 36.4 dB(A)

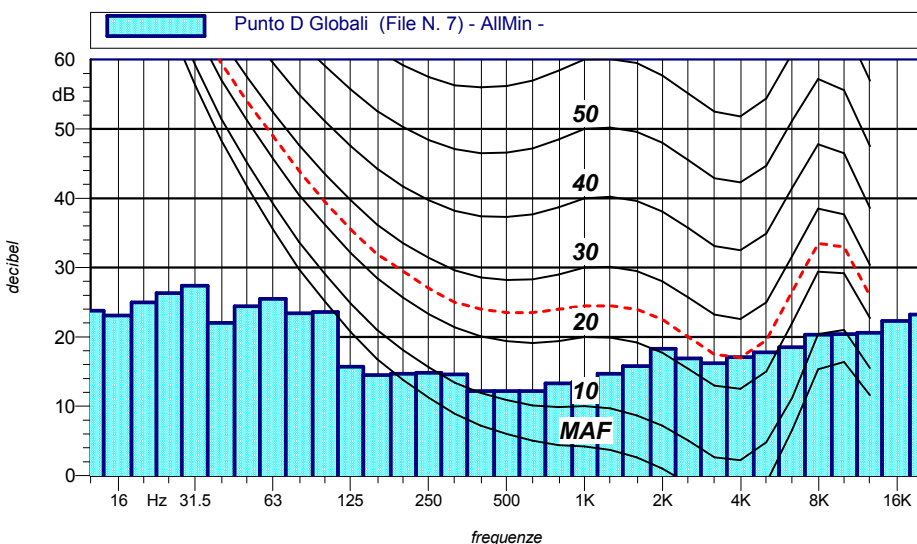
**L90:** 33.7 dB(A)

**L95:** 33.4 dB(A)

**L99:** 33.1 dB(A)

**LFmax:** 73.9 dB(A)

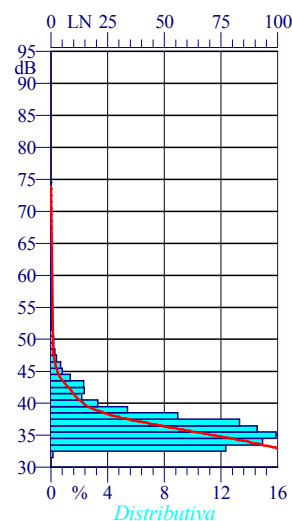
**LFmin:** 32.8 dB(A)



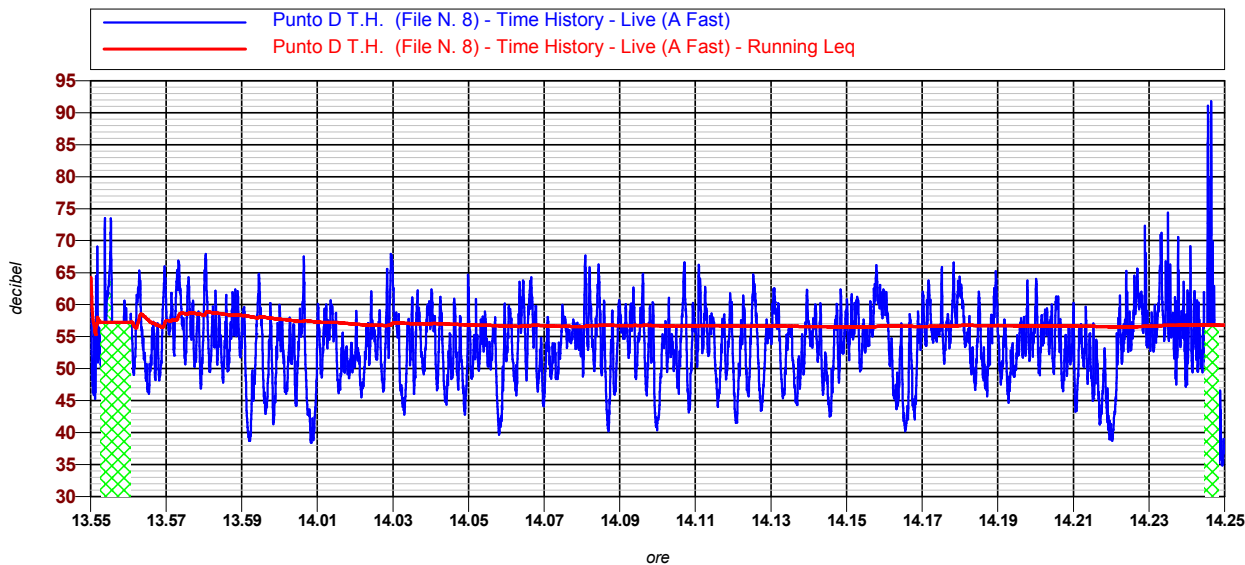
Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	23.8	63	25.5	315	14.6	1600	15.8	8000	20.3
16	23.1	80	23.4	400	12.2	2000	18.3	10000	20.4
20	25.0	100	23.6	500	12.2	2500	16.9	12500	20.6
25	26.3	125	15.7	630	12.2	3150	16.2	16000	22.3
31.5	27.4	160	14.5	800	13.3	4000	17.1	20000	23.2
40	22.0	200	14.7	1000	13.5	5000	17.8		
50	24.4	250	14.8	1250	14.7	6300	18.5		

Punto D T.H. (File N. 7) - Time History - Live (A Fast)  
Punto D T.H. (File N. 7) - Time History - Live (A Fast)

Cumulativa







**Nome** Punto D T.H. (File N. 8)

**Località** scuola materna "Campo Marte"

**Strumentazione** Larson-Davis 824

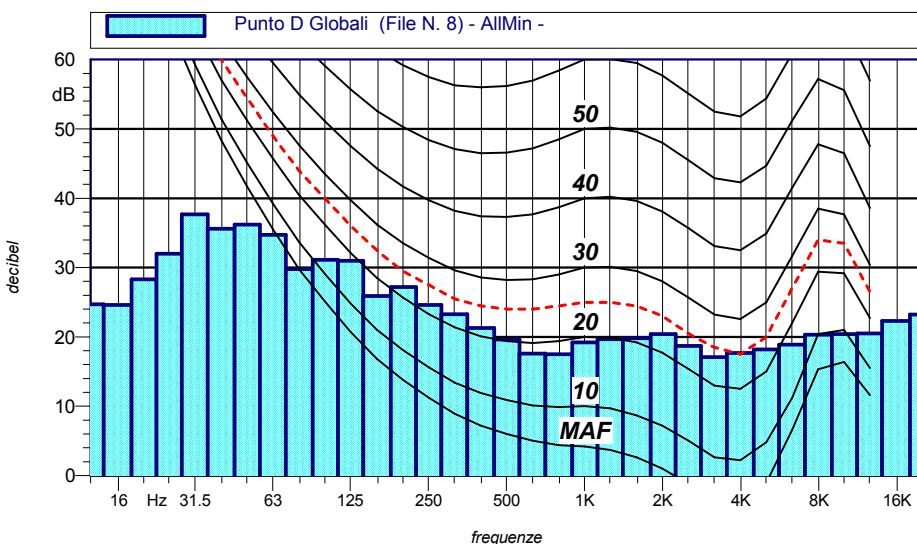
**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** Misure di rumore ambientale ad un metro dalla finestra aperta aula affacciata su via F. Cavallotti periodo diurno

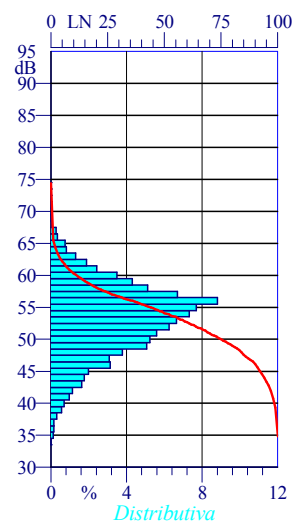
**Data:** 19/02/2007  
**Ora:** 13.55.41  
**Durata:** 1802 sec  
**Intervallo:** 0.125 sec

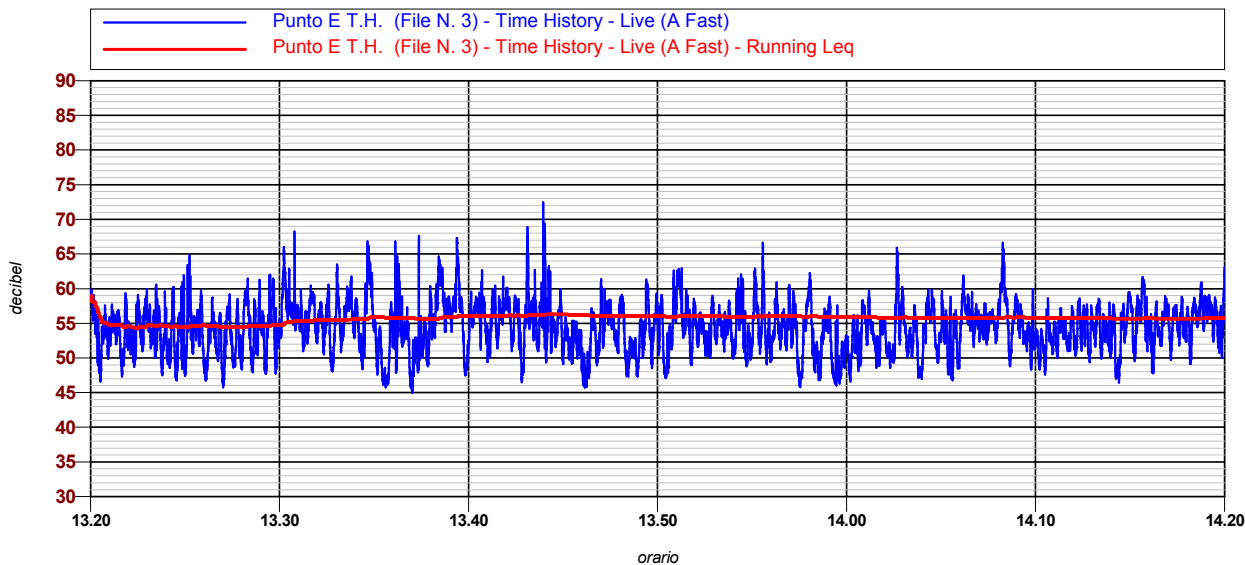
**Leq:** 56.8 dB(A)  
**L01:** 65.5 dB(A)  
**L05:** 62.2 dB(A)  
**L10:** 60.3 dB(A)  
**L50:** 54.1 dB(A)  
**L90:** 46.1 dB(A)  
**L95:** 43.4 dB(A)  
**L99:** 39.3 dB(A)  
**LFmax:** 74.4 dB(A)  
**LFmin:** 34.8 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	24.7	63	34.7	315	23.3	1600	19.8	8000	20.3
16	24.6	80	29.8	400	21.3	2000	20.4	10000	20.4
20	28.3	100	31.1	500	19.6	2500	18.7	12500	20.5
25	32.0	125	31.0	630	17.6	3150	17.1	16000	22.3
31.5	37.7	160	25.9	800	17.5	4000	17.7	20000	23.2
40	35.6	200	27.2	1000	19.2	5000	18.2		
50	36.2	250	24.6	1250	19.7	6300	18.9		

Punto D T.H. (File N. 8) - AllMin -  
 Punto D T.H. (File N. 8) - Time History - Live (A Fast) - Running Leq  
 Cumulativa





**Nome** **Punto E T.H. (File N. 3)**

Località *Ospedale Maggiore Lodi*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *misure di rumore ambientale  
periodo diurno, ad un metro dalla finestra aperta  
piano secondo, Ospedale Maggiore di Lodi  
stanza degenza affacciata verso via Secondo Cremonese  
reparto ex Medicina I*

**Leq:** **55.7 dB(A)**

**L01:** **62.8 dB(A)**

**L05:** **59.9 dB(A)**

**L10:** **58.4 dB(A)**

**L50:** **54.4 dB(A)**

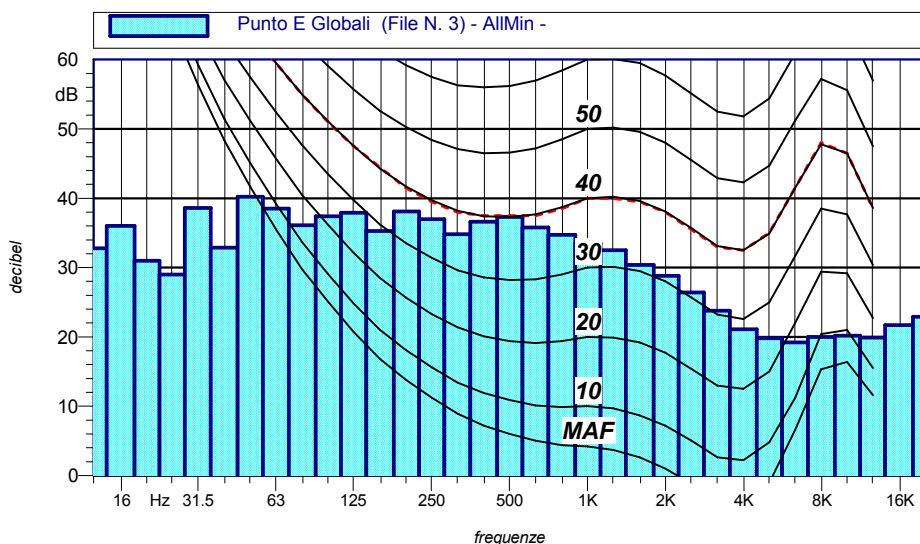
**L90:** **49.4 dB(A)**

**L95:** **48.2 dB(A)**

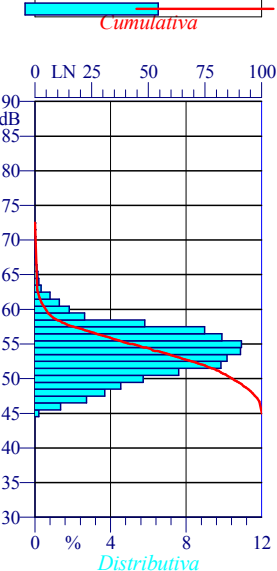
**L99:** **46.7 dB(A)**

**LFmax:** **72.5 dB(A)**

**LFmin:** **45.0 dB(A)**

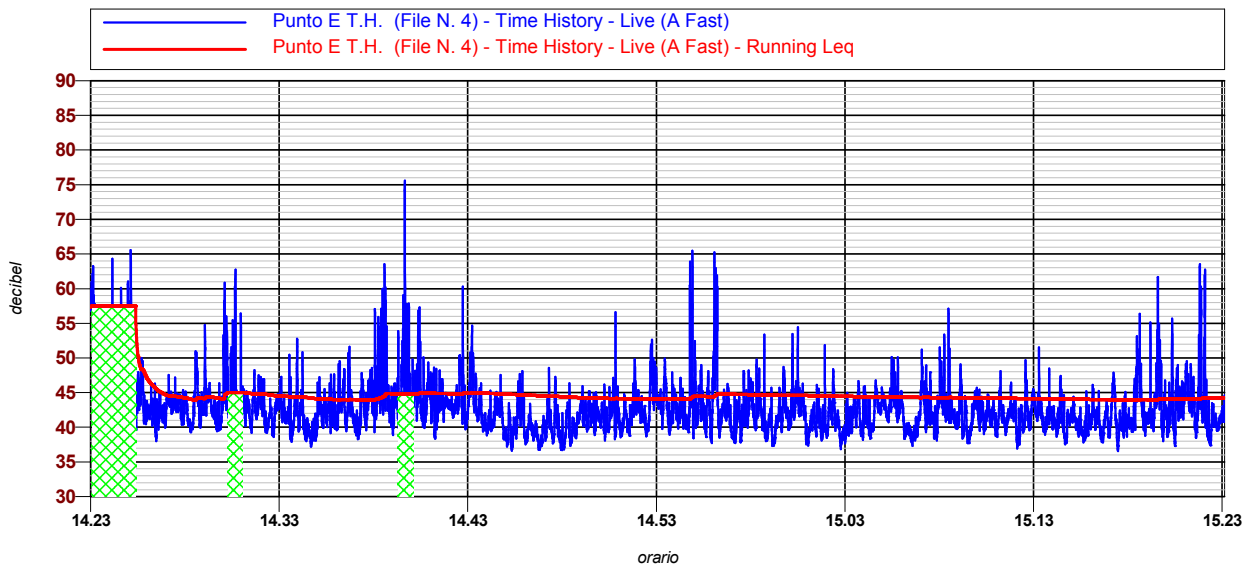


Punto E T.H. (File N. 3) - Time History - Live (A Fast)  
Punto E T.H. (File N. 3) - Time History - Live (A Fast)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	32.8	63	38.5	315	34.8	1600	30.4	8000	20.0
16	36.0	80	36.1	400	36.6	2000	28.8	10000	20.2
20	31.0	100	37.4	500	37.3	2500	26.4	12500	19.9
25	29.0	125	37.9	630	35.8	3150	23.8	16000	21.7
31.5	38.6	160	35.3	800	34.7	4000	21.1	20000	22.9
40	32.9	200	38.1	1000	33.5	5000	19.8		
50	40.2	250	37.0	1250	32.5	6300	19.2		





**Nome** Punto E T.H. (File N. 4)

Località Ospedale Maggiore Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note misure di rumore ambientale  
 periodo diurno, centro stanza a finestre chiuse  
 piano secondo, Ospedale Maggiore di Lodi  
 stanza degenza affacciata verso via Secondo Cremonese  
 reparto ex Medicina I

**Leq:** 44.2 dB(A)

**L01:** 53.1 dB(A)

**L05:** 47.5 dB(A)

**L10:** 45.6 dB(A)

**L50:** 41.8 dB(A)

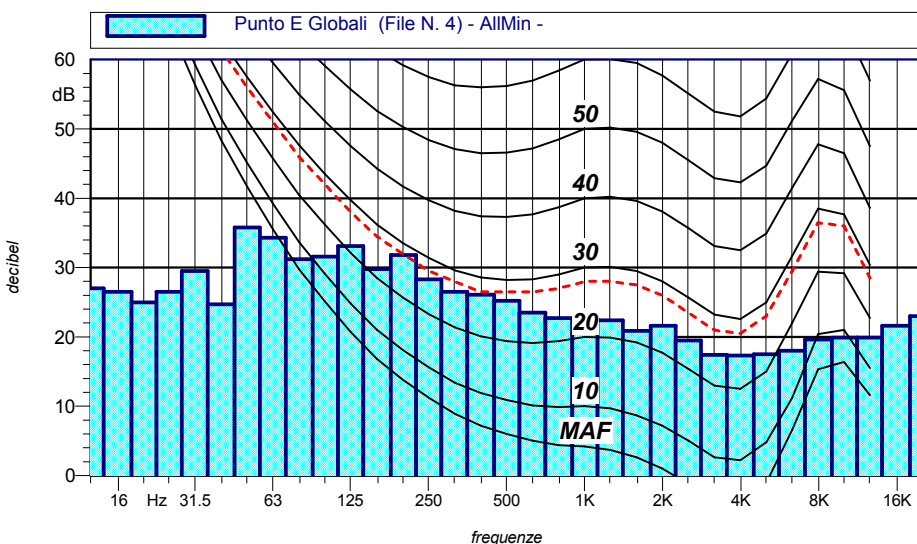
**L90:** 39.1 dB(A)

**L95:** 38.5 dB(A)

**L99:** 37.6 dB(A)

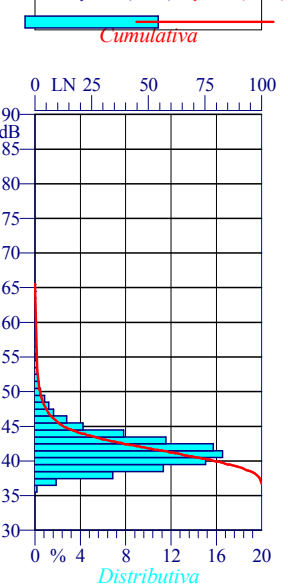
**LFmax:** 65.5 dB(A)

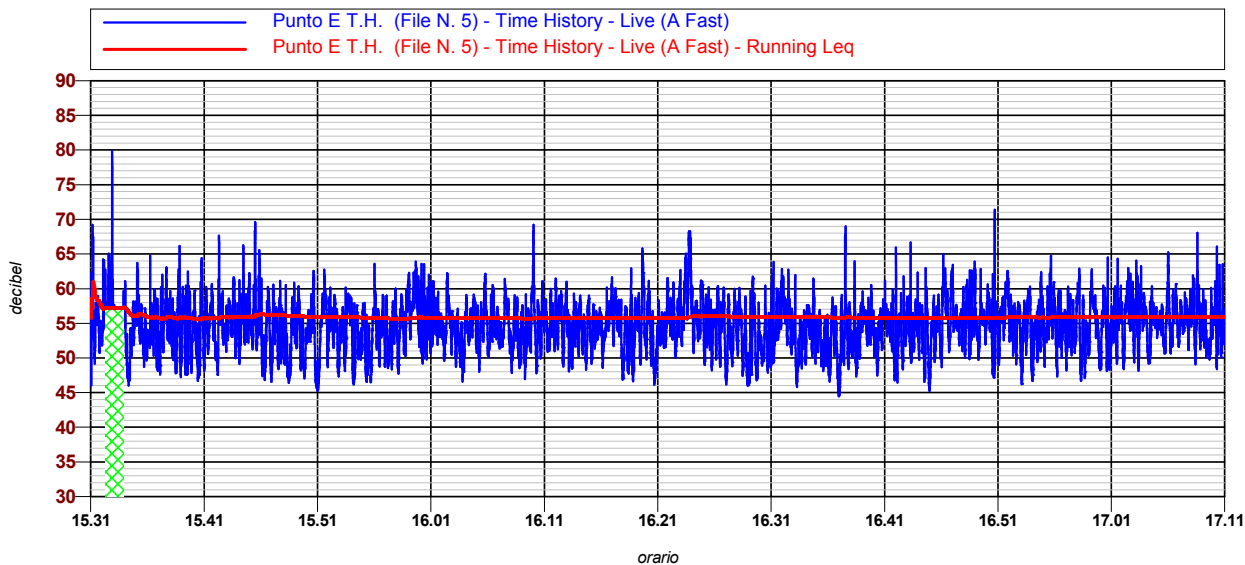
**LFmin:** 36.6 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	27.0	63	34.3	315	26.5	1600	20.9	8000	19.6
16	26.5	80	31.2	400	26.1	2000	21.6	10000	19.9
20	25.0	100	31.6	500	25.2	2500	19.5	12500	19.9
25	26.5	125	33.1	630	23.5	3150	17.4	16000	21.6
31.5	29.5	160	29.8	800	22.7	4000	17.3	20000	23.0
40	24.7	200	31.8	1000	22.6	5000	17.5		
50	35.8	250	28.3	1250	22.4	6300	18.0		

Punto E T.H. (File N. 4) - AllMin -  
 Time History - Live (A Fast)





**Nome** Punto E T.H. (File N. 5)

**Località** Ospedale Maggiore Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
 periodo diurno, ad un metro dalla finestra aperta  
 piano secondo, Ospedale Maggiore di Lodi  
 stanza degenza affacciata verso via Secondo Cremonese  
 reparto ex Medicina I

**Data:** 18/04/2007

**Ora:** 15.31.40

**Durata:** 6033 sec

**Intervallo:** 0.125 sec

**Leq:** 55.9 dB(A)

**L01:** 62.8 dB(A)

**L05:** 60.0 dB(A)

**L10:** 58.7 dB(A)

**L50:** 54.6 dB(A)

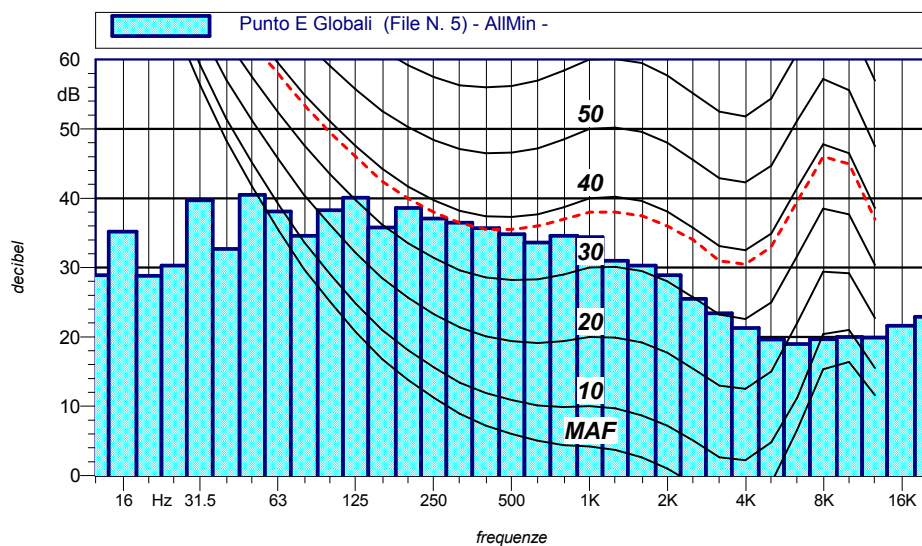
**L90:** 49.7 dB(A)

**L95:** 48.6 dB(A)

**L99:** 46.9 dB(A)

**LFmax:** 71.4 dB(A)

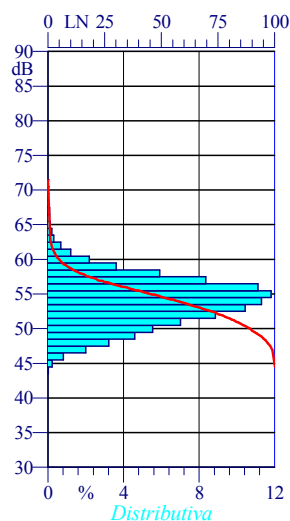
**LFmin:** 44.5 dB(A)

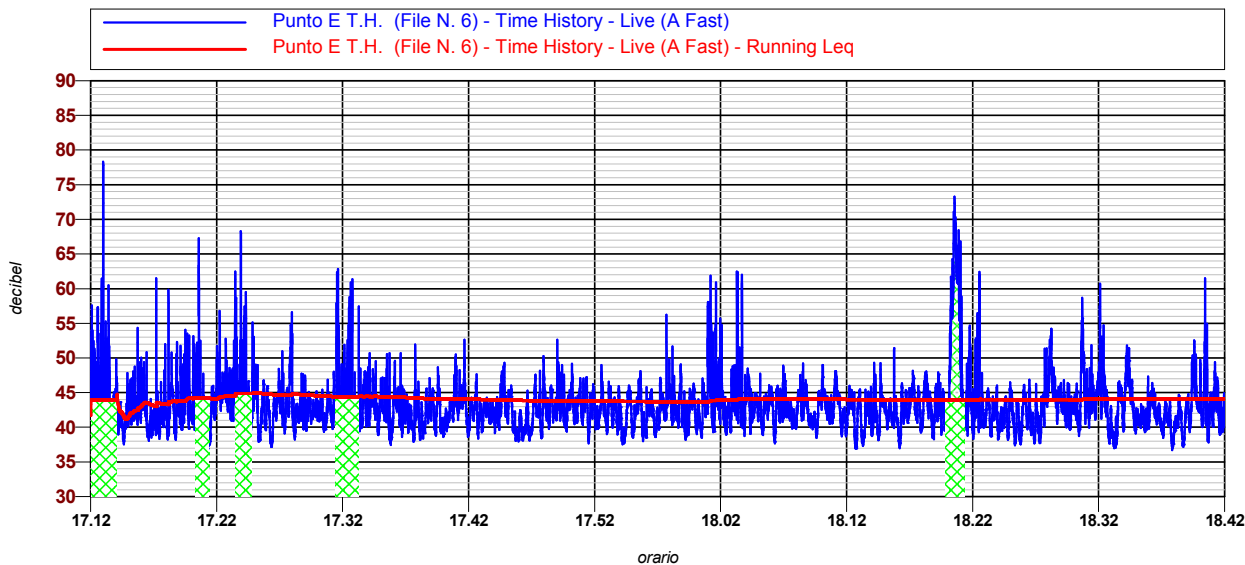


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	28.9	63	38.1	315	36.5	1600	30.3	8000	19.7
16	35.2	80	34.6	400	35.7	2000	28.9	10000	20.0
20	28.8	100	38.3	500	34.8	2500	25.5	12500	19.9
25	30.3	125	40.1	630	33.6	3150	23.4	16000	21.6
31.5	39.7	160	35.8	800	34.6	4000	21.3	20000	22.9
40	32.7	200	38.6	1000	34.4	5000	19.6		
50	40.5	250	37.1	1250	31.0	6300	19.0		

Punto E T.H. (File N. 5) - Time History - Live (A Fast)

Cumulativa





**Nome** **Punto E T.H. (File N. 6)**

Località *Ospedale Maggiore Lodi*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *misure di rumore ambientale  
periodo diurno, centro stanza a finestre chiuse  
piano secondo, Ospedale Maggiore di Lodi  
stanza degenza affacciata verso via Secondo Cremonese  
reparto ex Medicina I*

**Leq:** **44.1 dB(A)**

**L01:** **51.7 dB(A)**

**L05:** **47.4 dB(A)**

**L10:** **46.0 dB(A)**

**L50:** **42.5 dB(A)**

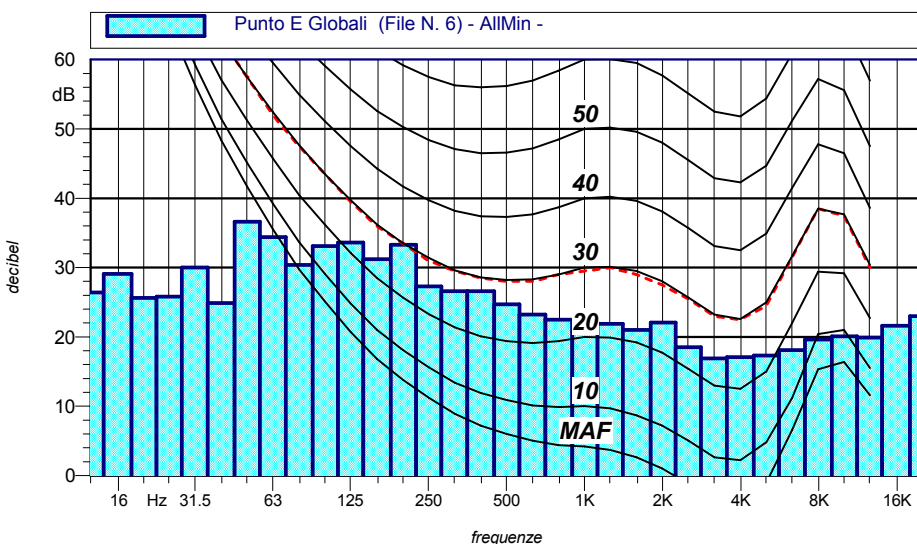
**L90:** **39.5 dB(A)**

**L95:** **38.8 dB(A)**

**L99:** **37.8 dB(A)**

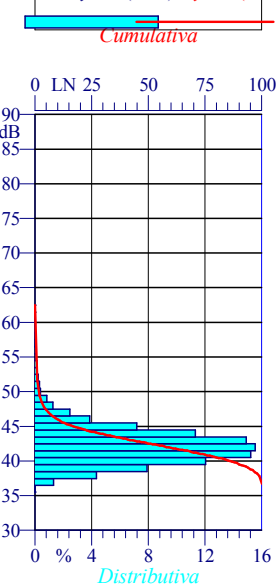
**LFmax:** **62.5 dB(A)**

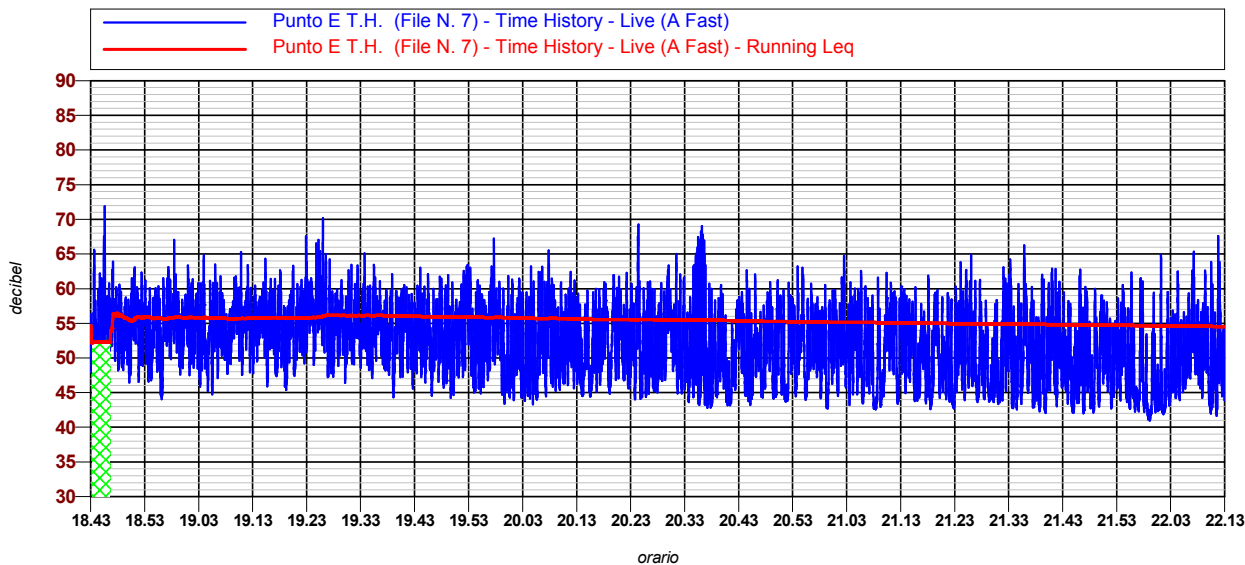
**LFmin:** **36.7 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	26.4	63	34.4	315	26.6	1600	21.0	8000	19.6
16	29.1	80	30.4	400	26.6	2000	22.1	10000	20.1
20	25.6	100	33.1	500	24.7	2500	18.5	12500	19.9
25	25.8	125	33.6	630	23.2	3150	16.9	16000	21.6
31.5	30.0	160	31.2	800	22.5	4000	17.1	20000	23.0
40	24.9	200	33.3	1000	22.0	5000	17.3		
50	36.6	250	27.3	1250	21.9	6300	18.1		

Punto E T.H. (File N. 6) - Time History - Live (A Fast) Cumulativa





**Nome** Punto E T.H. (File N. 7)

**Località** Ospedale Maggiore Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
 periodo diurno, ad un metro dalla finestra aperta  
 piano secondo, Ospedale Maggiore di Lodi  
 stanza degenza affacciata verso via Secondo Cremonese  
 reparto ex Medicina I

**Data:** 18/04/2007

**Ora:** 18.43.25

**Durata:** 12604 sec

**Intervallo:** 0.125 sec

**Leq:** 54.5 dB(A)

**L01:** 61.8 dB(A)

**L05:** 59.5 dB(A)

**L10:** 58.2 dB(A)

**L50:** 52.2 dB(A)

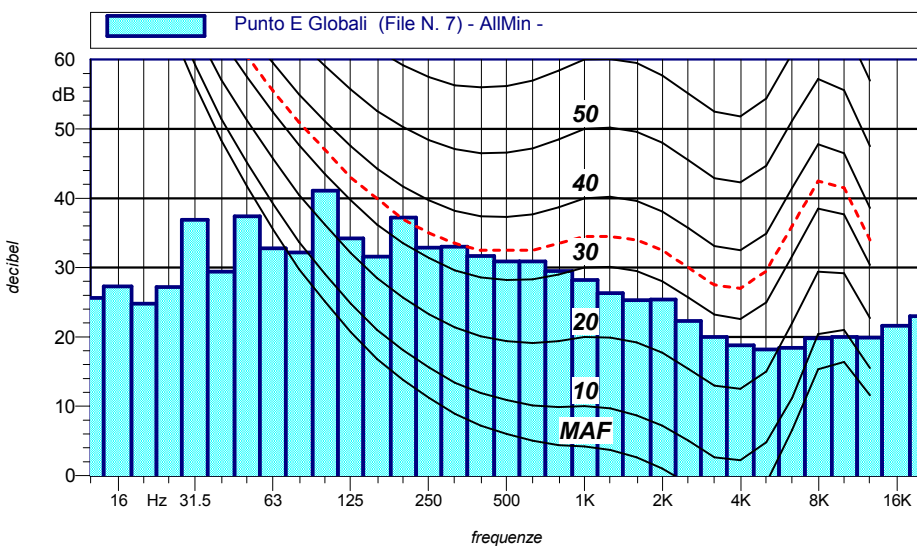
**L90:** 45.0 dB(A)

**L95:** 44.1 dB(A)

**L99:** 42.8 dB(A)

**LFmax:** 70.2 dB(A)

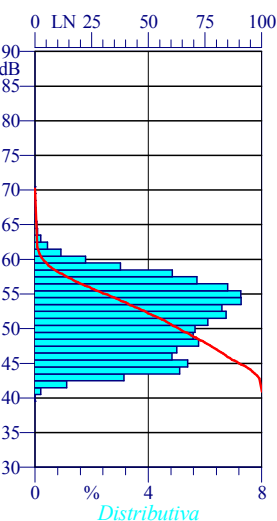
**LFmin:** 40.9 dB(A)

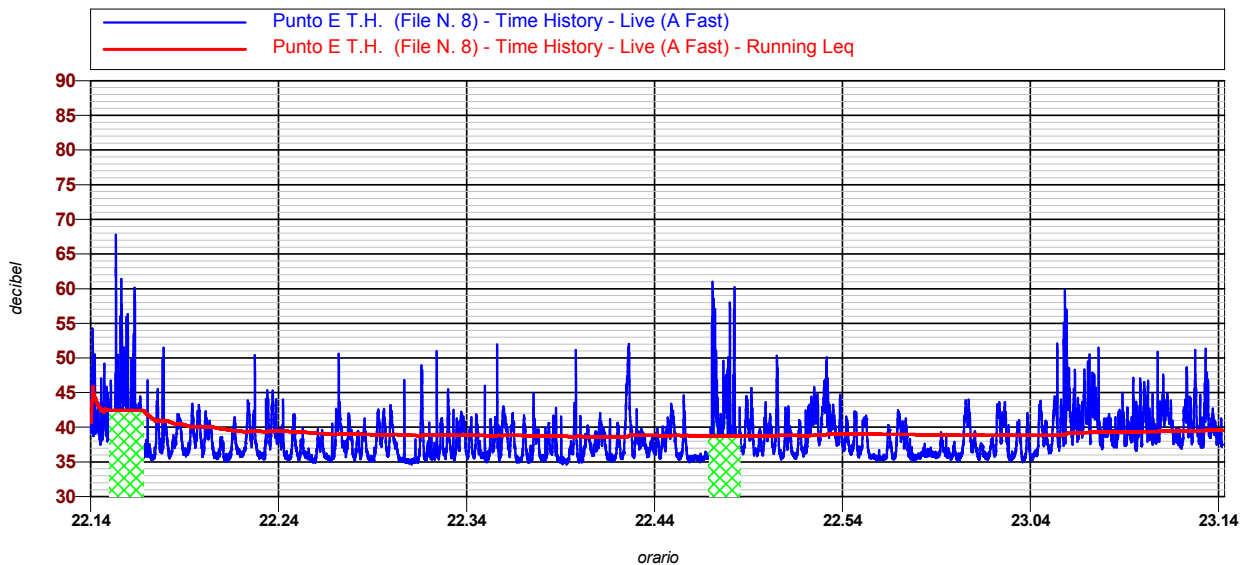


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	25.6	63	32.8	315	33.0	1600	25.3	8000	19.8
16	27.3	80	32.2	400	31.7	2000	25.4	10000	20.0
20	24.8	100	41.1	500	30.9	2500	22.3	12500	19.9
25	27.2	125	34.2	630	30.9	3150	20.0	16000	21.6
31.5	36.9	160	31.6	800	29.5	4000	18.8	20000	23.0
40	29.4	200	37.2	1000	28.2	5000	18.2		
50	37.4	250	32.9	1250	26.3	6300	18.4		

Punto E T.H. (File N. 7) Time History - Live (A Fast)

Cumulativa





**Nome** Punto E T.H. (File N. 8)

**Località** Ospedale Maggiore Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P. Zaneboni, D. Ciceri

**Note** misure di rumore ambientale  
 periodo diurno, centro stanza a finestre chiuse  
 piano secondo, Ospedale Maggiore di Lodi  
 stanza degenza affacciata verso via Secondo Cremonese  
 reparto ex Medicina I

**Leq:** 39.6 dB(A)

**L01:** 47.2 dB(A)

**L05:** 43.3 dB(A)

**L10:** 42.0 dB(A)

**L50:** 37.6 dB(A)

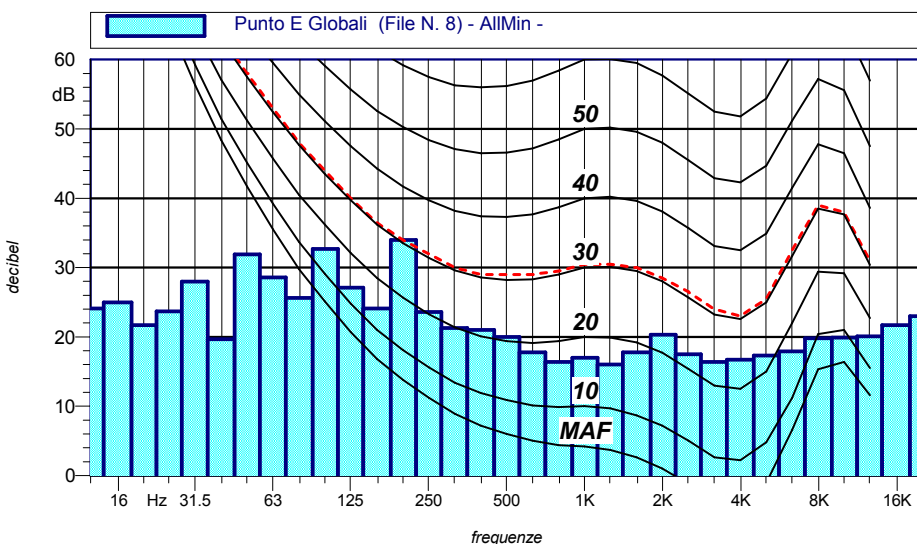
**L90:** 35.5 dB(A)

**L95:** 35.4 dB(A)

**L99:** 35.1 dB(A)

**LFmax:** 59.8 dB(A)

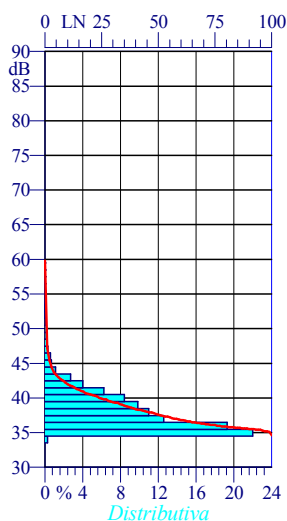
**LFmin:** 34.6 dB(A)

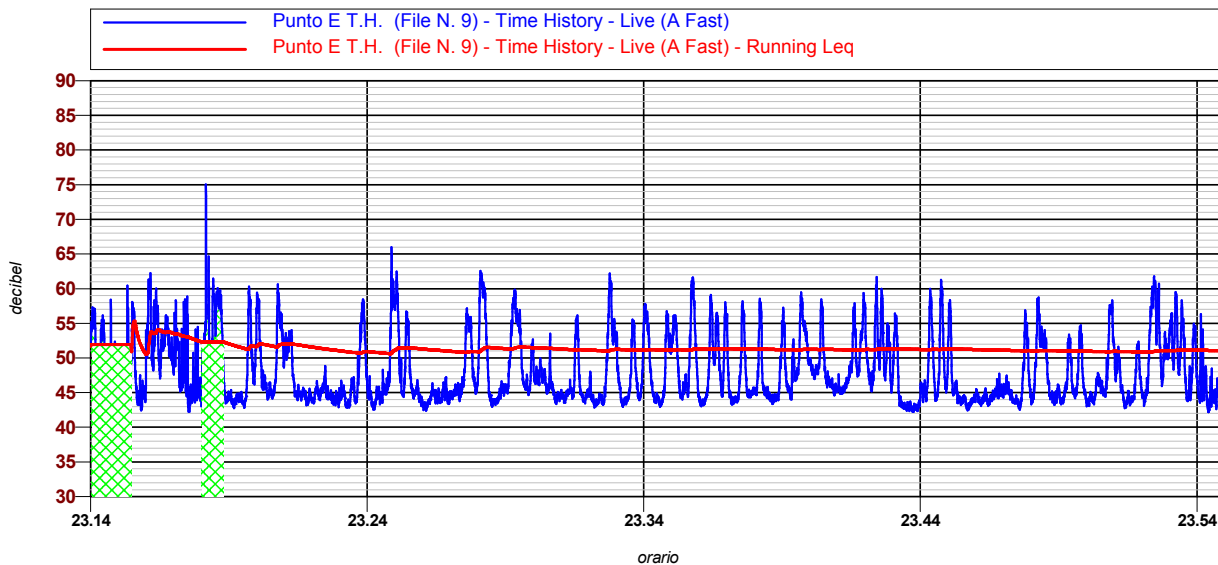


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	24.1	63	28.6	315	21.3	1600	17.8	8000	19.8
16	25.0	80	25.6	400	21.0	2000	20.3	10000	19.9
20	21.7	100	32.7	500	20.0	2500	17.5	12500	20.1
25	23.7	125	27.1	630	17.8	3150	16.4	16000	21.7
31.5	28.0	160	24.1	800	16.4	4000	16.7	20000	23.0
40	19.7	200	34.0	1000	17.0	5000	17.3		
50	31.9	250	23.6	1250	16.0	6300	17.9		

Punto E T.H. (File N. 8) - Time History - Live (A Fast) - Running Leq

Cumulativa





**Nome** **Punto E T.H. (File N. 9)**

Località *Ospedale Maggiore Lodi*

Strumentazione *Larson-Davis 824*

Calibratore *Larson-Davis CAL 200*

Operatore *P. Zaneboni, D. Ciceri*

Note *misure di rumore ambientale  
periodo diurno, ad un metro dalla finestra aperta  
piano secondo, Ospedale Maggiore di Lodi  
stanza degenza affacciata verso via Secondo Cremonese  
reparto ex Medicina I*

**Leq:** **51.0 dB(A)**

**L01:** **60.3 dB(A)**

**L05:** **57.5 dB(A)**

**L10:** **55.4 dB(A)**

**L50:** **45.9 dB(A)**

**L90:** **43.7 dB(A)**

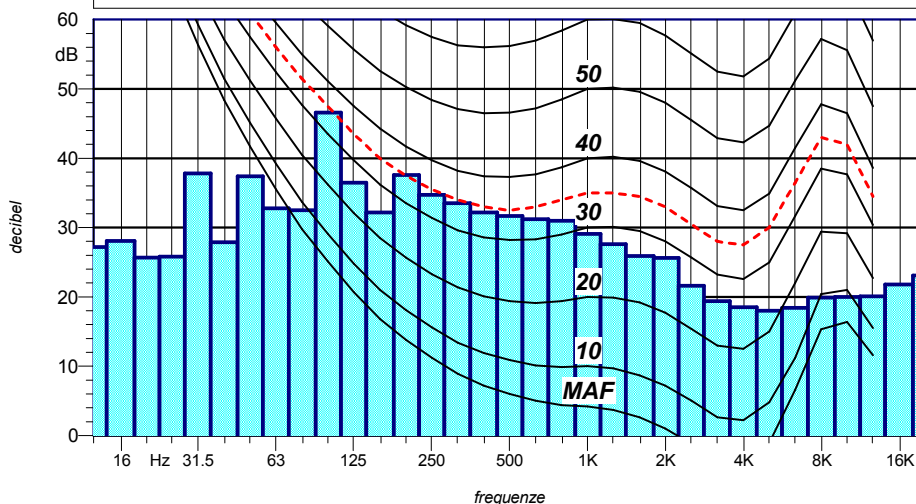
**L95:** **43.3 dB(A)**

**L99:** **42.8 dB(A)**

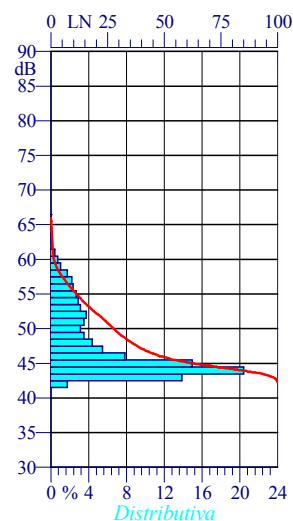
**LFmax:** **66.0 dB(A)**

**LFmin:** **42.2 dB(A)**

**Punto E Globali (File N. 9) - AllMin -**



Punto E T.H. (File N. 9) - Time History - Live (A Fast)  
Punto E T.H. (File N. 9) - Time History - Live (A Fast)  
**Cumulativa**

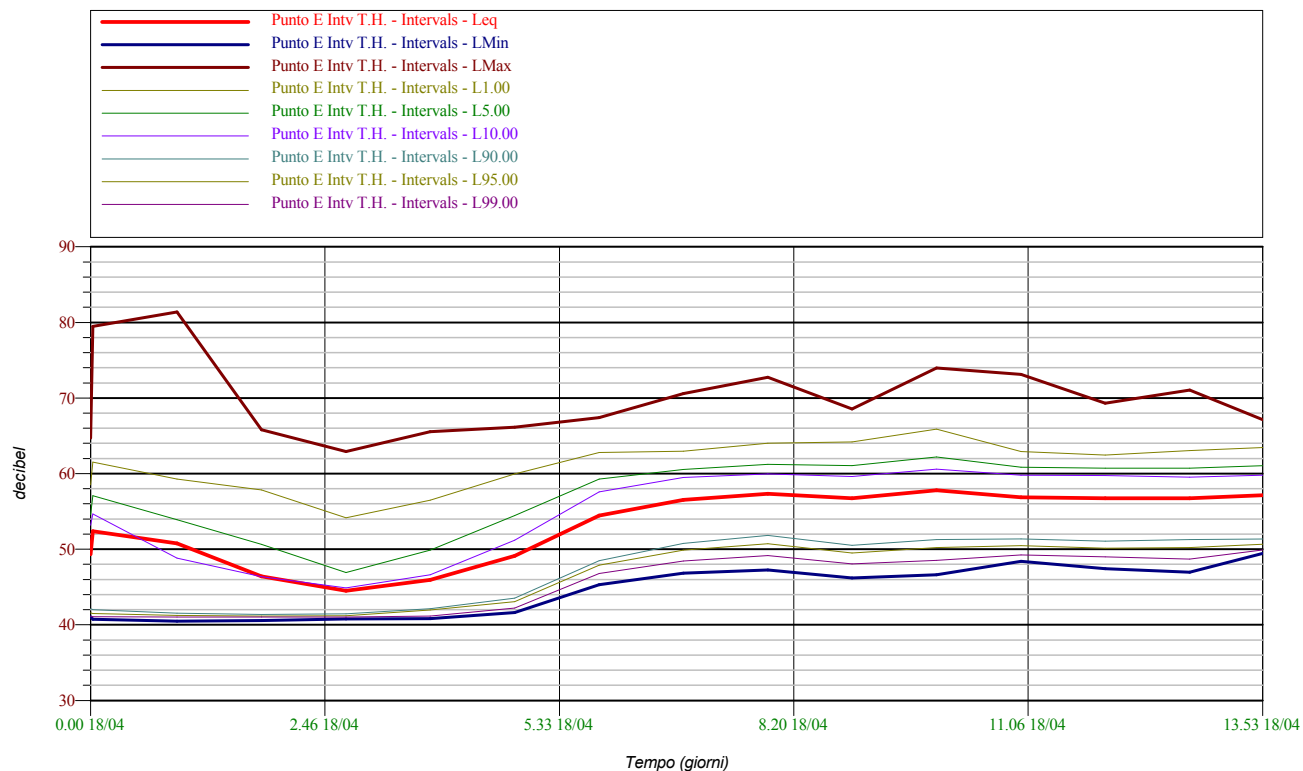
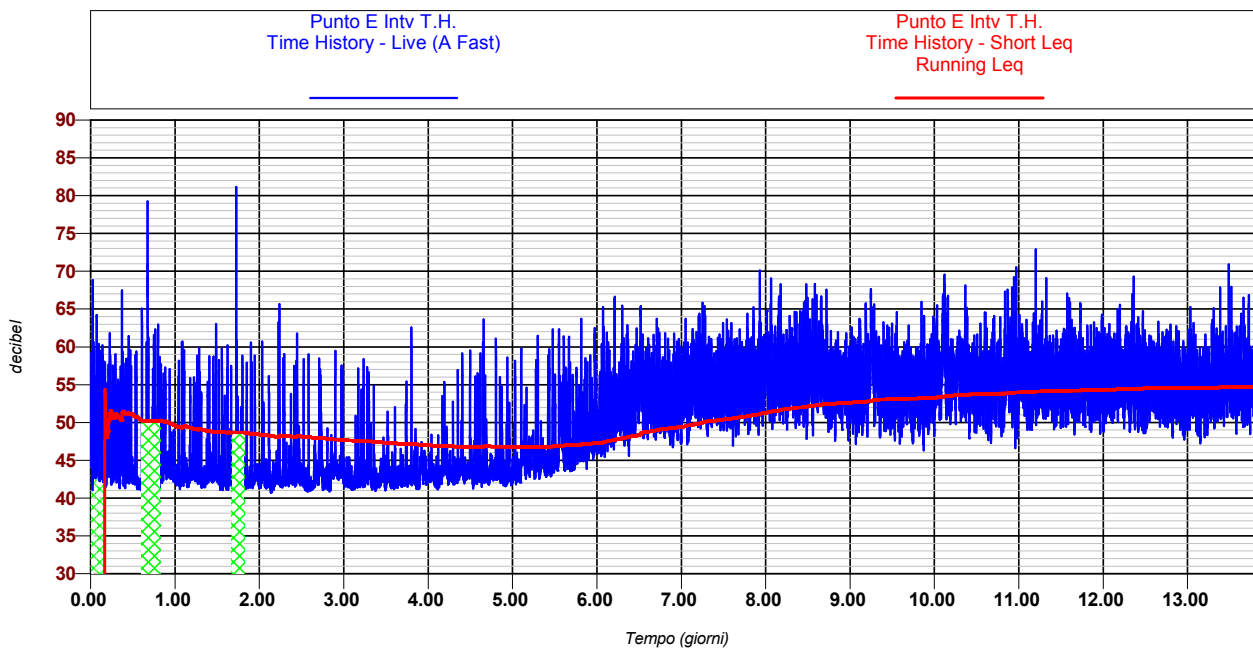


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	27.2	63	32.8	315	33.5	1600	25.9	8000	19.9
16	28.1	80	32.5	400	32.2	2000	25.6	10000	20.0
20	25.7	100	46.6	500	31.7	2500	21.6	12500	20.1
25	25.8	125	36.5	630	31.2	3150	19.4	16000	21.8
31.5	37.8	160	32.2	800	31.0	4000	18.5	20000	23.1
40	27.9	200	37.6	1000	29.1	5000	18.0		
50	37.4	250	34.7	1250	27.6	6300	18.4		





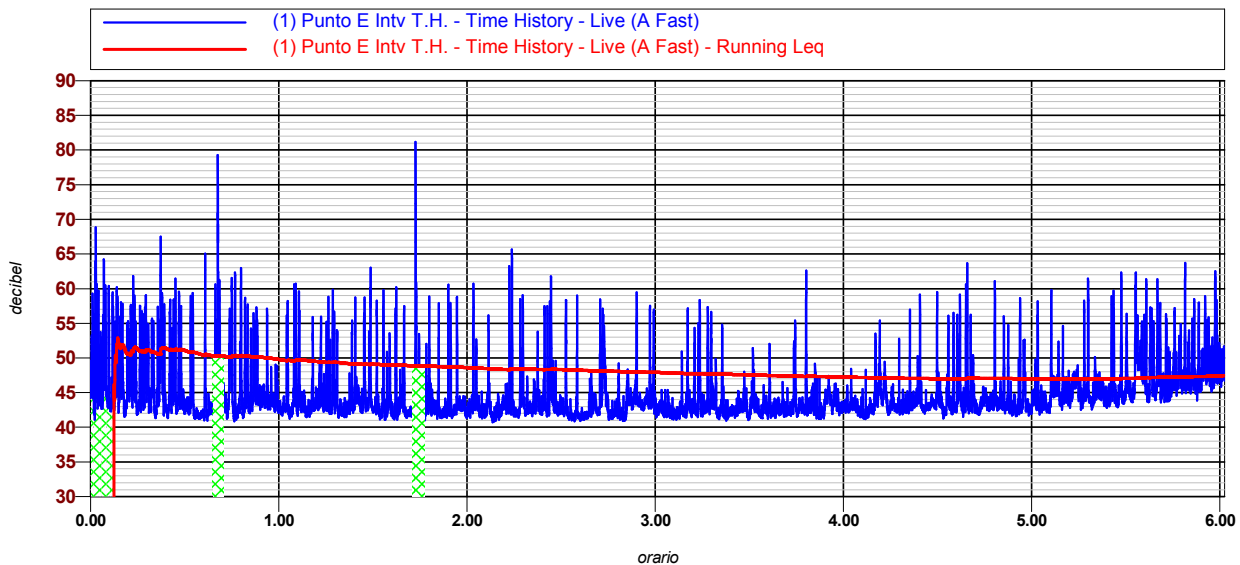
# MISURA IN CONTINUO Punto di misura E



**Nome** *Punto E Intv T.H.*  
**Località** *Ospedale Maggiore Lodi*  
**Strumentazione** *Larson-Davis 824*  
**Operatore** *P. Zaneboni, D. Ciceri*  
**Società** *Sindar S.r.l.*

**Data** *18/04/2007*  
**Ora** *0.00.00*  
**Pesatura** *A*  
**Cost. di Tempo** *Fast*  
**Numero campioni** *16*





**Nome** (1) Punto E Intv T.H.

**Località** Ospedale Maggiore Lodi

**Strumentazione** Larson-Davis 824

**Calibratore** Larson-Davis CAL 200

**Operatore** P.Zaneboni, D. Ciceri

**Note** periodo notturno, ad un metro dalla finestra aperta piano secondo, Ospedale Maggiore di Lodi stanza degenza affacciata verso via Secondo Cremonese reparto ex Medicina I  
eventi mascherati: colpi di clacson e rumori interni generati dal personale verso spogliatoi

**Leq:** 47.4 dB(A)

**L01:** 58.4 dB(A)

**L05:** 53.2 dB(A)

**L10:** 49.2 dB(A)

**L50:** 43.3 dB(A)

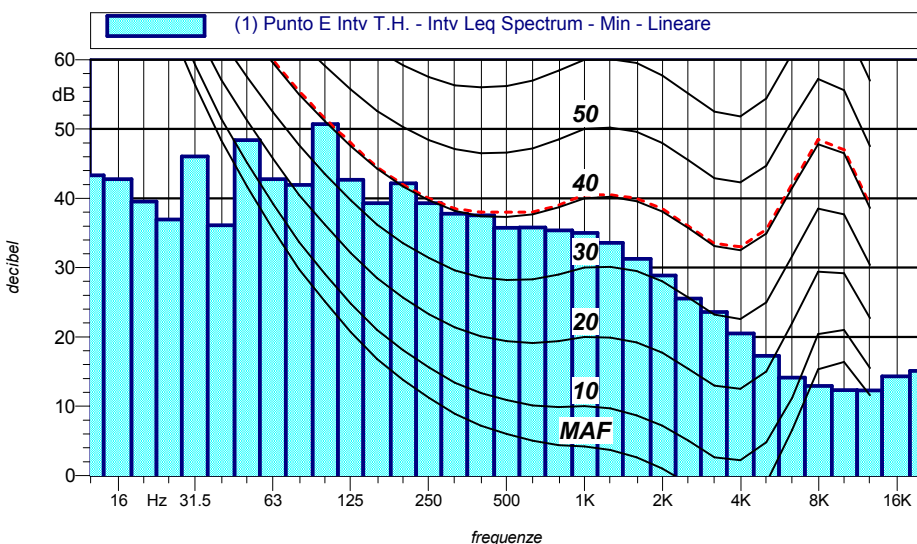
**L90:** 41.9 dB(A)

**L95:** 41.6 dB(A)

**L99:** 41.3 dB(A)

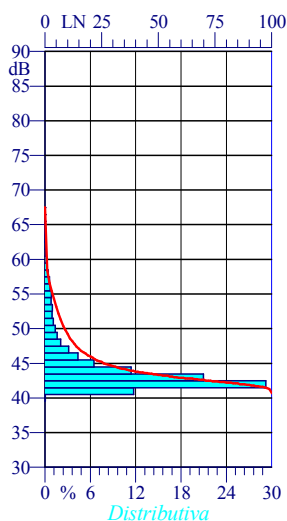
**LFmax:** 67.5 dB(A)

**LFmin:** 40.7 dB(A)

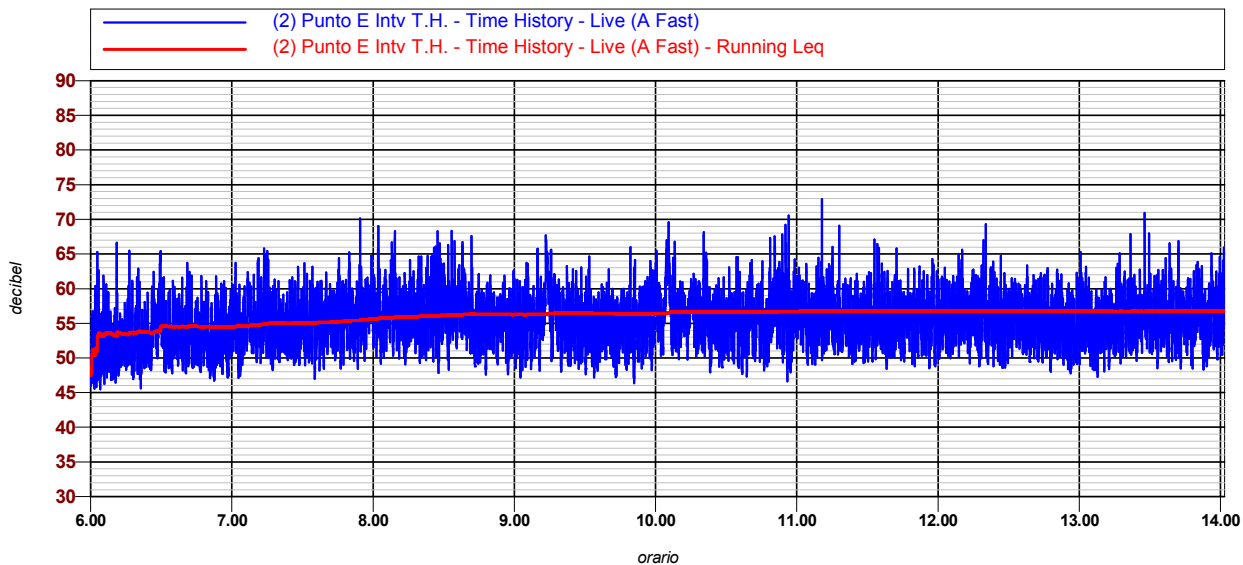


Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	43.3	63	42.8	315	37.8	1600	31.3	8000	12.9
16	42.7	80	42.0	400	37.6	2000	28.9	10000	12.3
20	39.5	100	50.7	500	35.8	2500	25.5	12500	12.3
25	36.9	125	42.7	630	35.8	3150	23.6	16000	14.3
31.5	46.0	160	39.3	800	35.4	4000	20.5	20000	15.1
40	36.1	200	42.1	1000	35.0	5000	17.3		
50	48.4	250	39.3	1250	33.6	6300	14.1		

(1) Punto E Intv T.H. (1) Punto E Intv T.H.  
Time History - Live (A Fast) Time History - Live (A Fast)  
Cumulativa



**SINDAR**



**Nome** (2) Punto E Intv T.H.

Località Ospedale Maggiore Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. zaneboni, D. Ciceri

Note periodo diurno, ad un metro dalla finestra aperta piano secondo, Ospedale Maggiore di Lodi stanza degenza affacciata verso via Secondo Cremonese reparto ex Medicina I  
eventi mascherati: colpi di clacson e rumori interni generati dal personale verso spogliatoi

**Leq:** 56.8 dB(A)

**L01:** 63.7 dB(A)

**L05:** 60.9 dB(A)

**L10:** 59.7 dB(A)

**L50:** 55.4 dB(A)

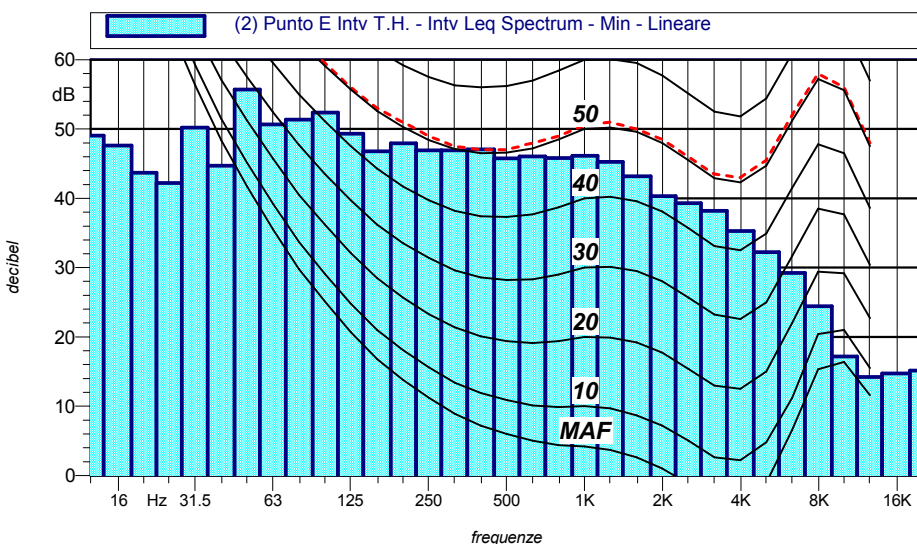
**L90:** 50.6 dB(A)

**L95:** 49.6 dB(A)

**L99:** 48.1 dB(A)

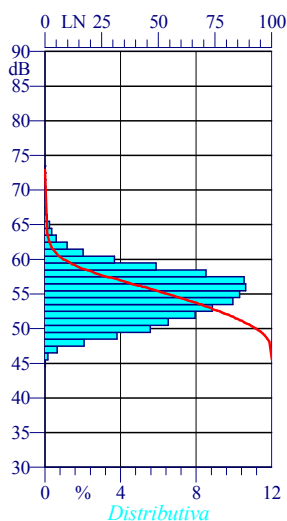
**LFmax:** 72.9 dB(A)

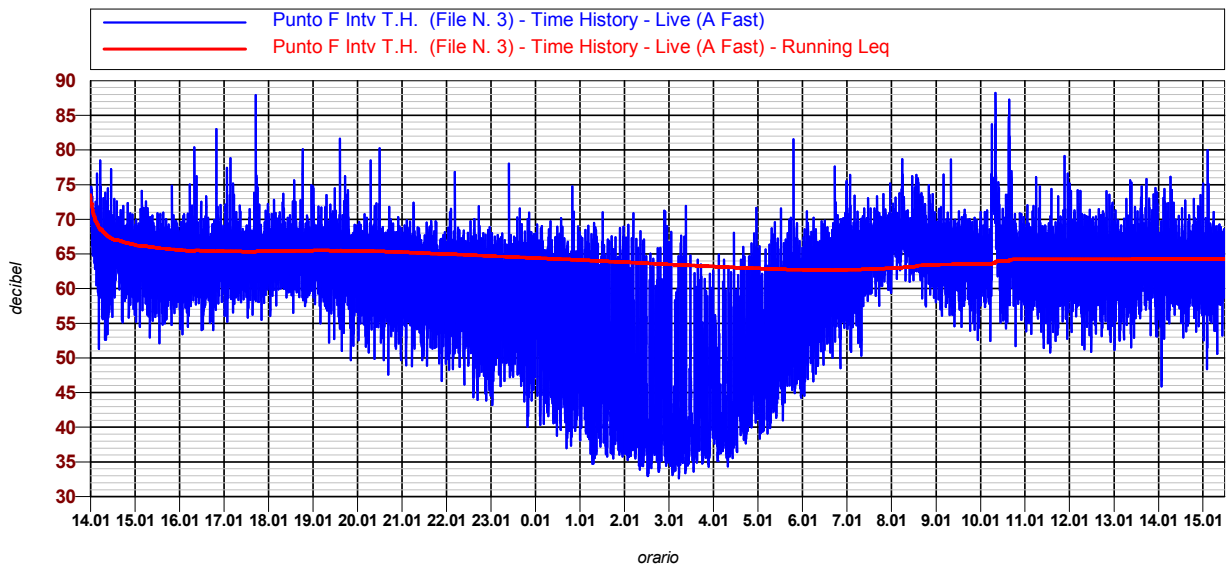
**LFmin:** 45.5 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	49.0	63	50.7	315	46.9	1600	43.2	8000	24.4
16	47.6	80	51.4	400	47.1	2000	40.3	10000	17.2
20	43.7	100	52.4	500	45.8	2500	39.3	12500	14.2
25	42.2	125	49.3	630	46.0	3150	38.2	16000	14.7
31.5	50.2	160	46.8	800	45.8	4000	35.3	20000	15.1
40	44.7	200	47.9	1000	46.1	5000	32.2		
50	55.7	250	46.9	1250	45.2	6300	29.3		

(2) Punto E Intv T.H. - Intv Leq Spectrum - Min - Lineare  
Time History - Live (A Fast) - Cumulativa





**Nome** *Punto F Intv T.H. (File N. 3)*

**Località** *via Marescalca, Lodi*

**Strumentazione** *Larson-Davis 824*

**Calibratore** *Larson-Davis CAL 200*

**Operatore** *P. Zaneboni, D. Ciceri*

**Note** *Misurazione in continuo*

**Data:** *12/04/2007*

**Ora:** *14.01.31*

**Durata:** *91754 sec*

**Intervallo:** *1.000 sec*

**Leq:** **64.3 dB(A)**

**L01:** **72.3 dB(A)**

**L05:** **68.4 dB(A)**

**L10:** **67.2 dB(A)**

**L50:** **62.6 dB(A)**

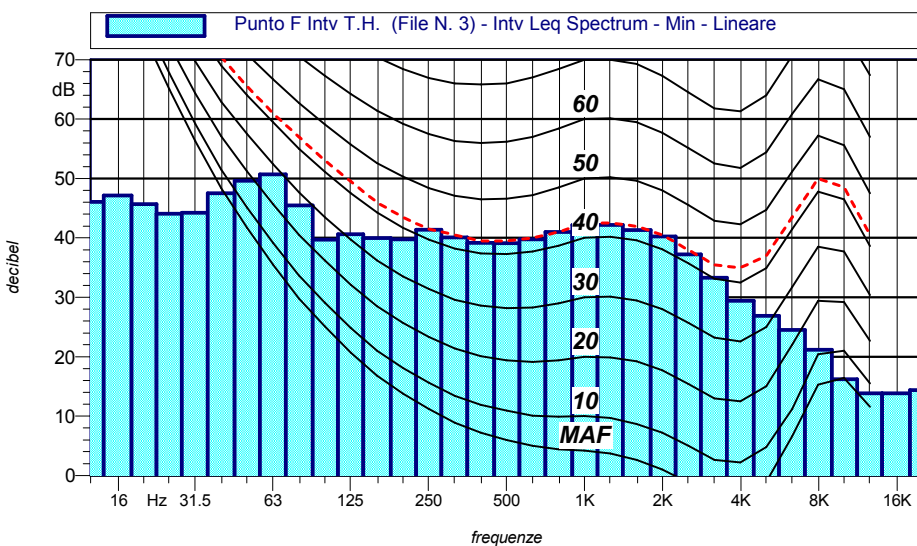
**L90:** **44.0 dB(A)**

**L95:** **38.7 dB(A)**

**L99:** **35.7 dB(A)**

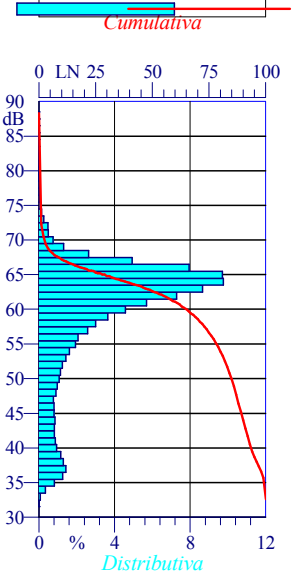
**LFmax:** **88.3 dB(A)**

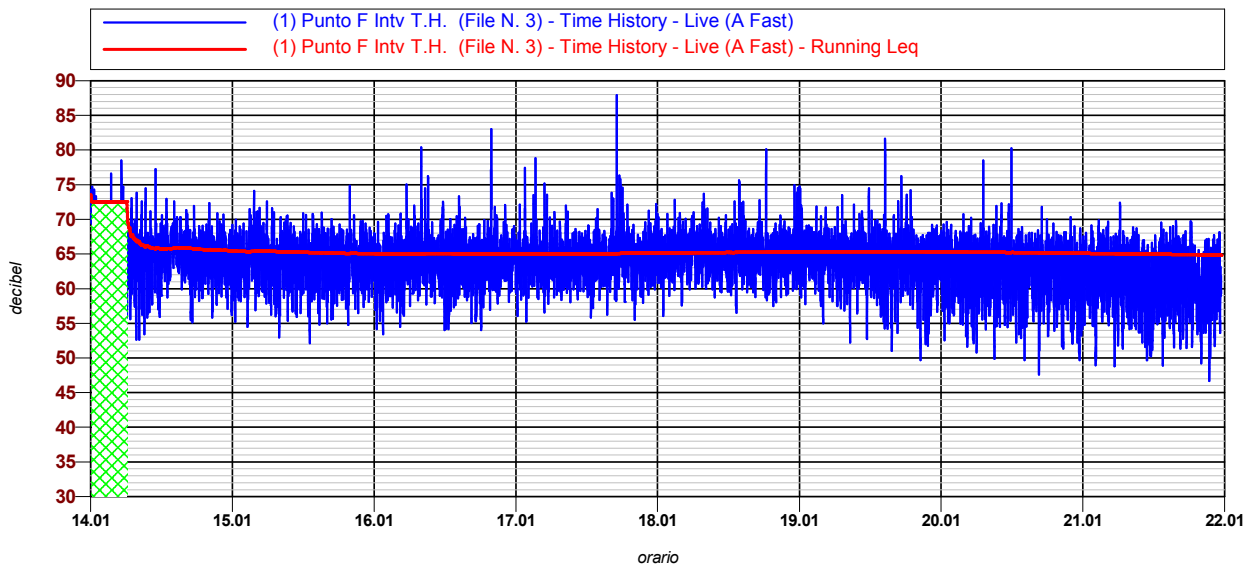
**LFmin:** **32.6 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	46.1	63	50.7	315	40.1	1600	41.3	8000	21.2
16	47.1	80	45.4	400	39.2	2000	40.3	10000	16.2
20	45.7	100	39.7	500	39.1	2500	37.2	12500	13.8
25	44.1	125	40.6	630	39.8	3150	33.3	16000	13.8
31.5	44.2	160	39.9	800	41.0	4000	29.4	20000	14.4
40	47.5	200	39.8	1000	42.2	5000	26.9		
50	49.6	250	41.4	1250	42.2	6300	24.5		

Punto F Intv T.H. (File N. 3) - Intv Leq Spectrum - Min - Lineare  
 Punto F Intv T.H. (File N. 3) - Time History - Live (A Fast)





**Nome** (1) Punto F Intv T.H. (File N. 3)

Località via Marescalca, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note Traffico veicolare transante su viale Europa  
misura a 4 mt di altezza

Data: 12/04/2007

Ora: 14.01.30

Durata: 28800 sec

Intervallo: 1.000 sec

**Leq: 64.8 dB(A)**

**L01: 70.8 dB(A)**

**L05: 68.1 dB(A)**

**L10: 67.2 dB(A)**

**L50: 64.0 dB(A)**

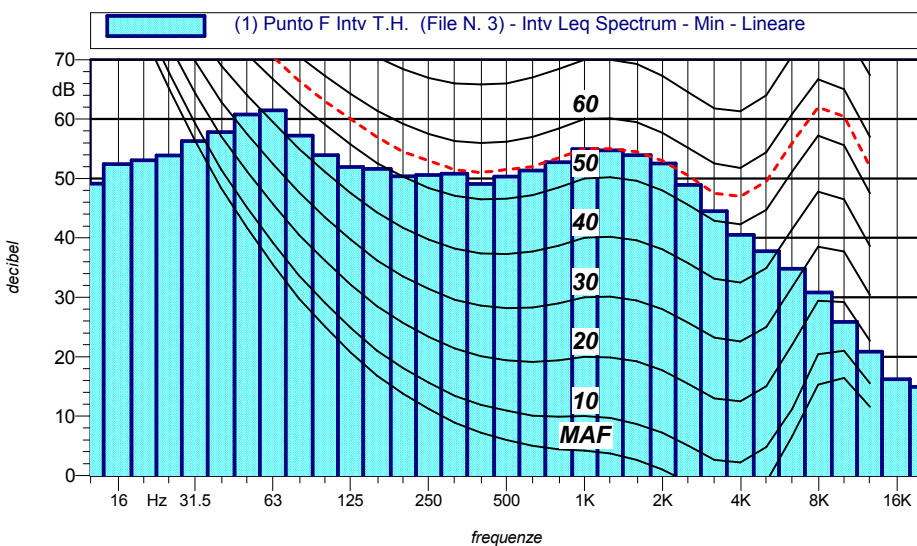
**L90: 59.1 dB(A)**

**L95: 57.1 dB(A)**

**L99: 53.4 dB(A)**

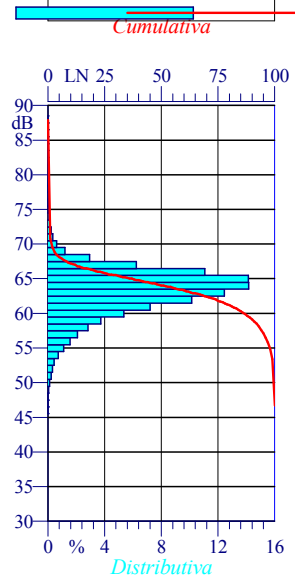
**LFmax: 87.9 dB(A)**

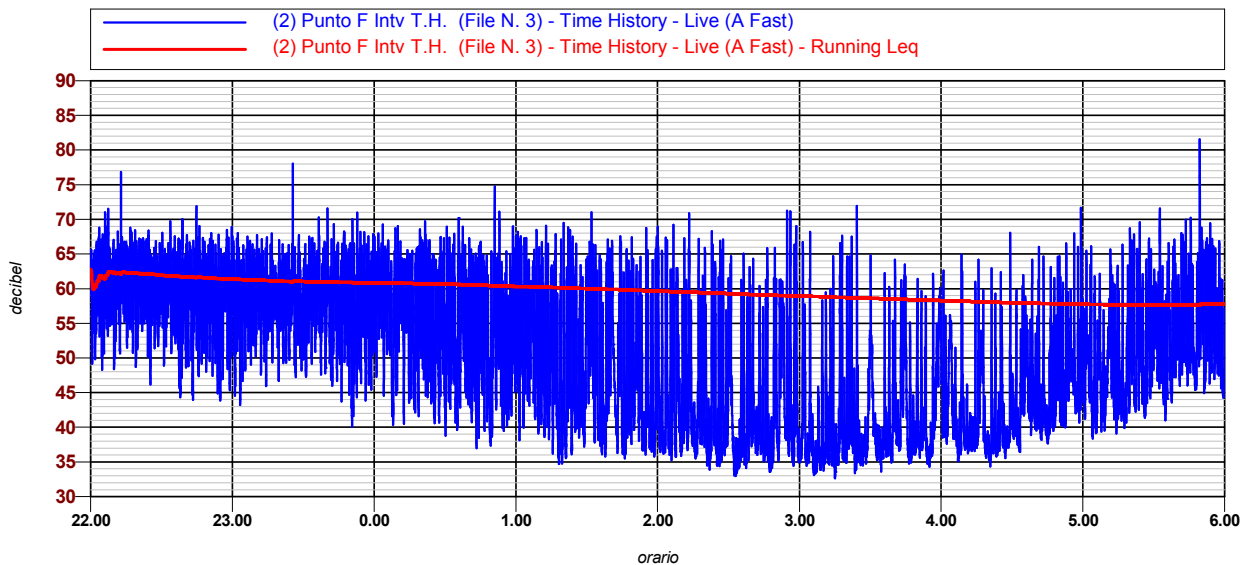
**LFmin: 46.7 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	49.1	63	61.5	315	50.8	1600	53.9	8000	30.8
16	52.4	80	57.2	400	49.1	2000	52.5	10000	25.8
20	53.1	100	53.9	500	50.3	2500	48.9	12500	20.9
25	53.9	125	51.9	630	51.4	3150	44.5	16000	16.2
31.5	56.3	160	51.6	800	52.7	4000	40.5	20000	14.9
40	57.8	200	50.4	1000	55.0	5000	37.8		
50	60.8	250	50.6	1250	54.7	6300	34.8		

(1) Punto F Intv T.H. (File N. 3) - Intv Leq Spectrum - Min - Lineare  
(1) Punto F Intv T.H. (File N. 3) - Time History - Live (A Fast)





**Nome** (2) Punto F Intv T.H. (File N. 3)

Località via Marescalca, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note Traffico veicolare transante su viale Europa  
misura a 4 mt di altezza

Data: 12/04/2007

Ora: 22.00.00

Durata: 28891 sec

Intervallo: 1.000 sec

**Leq:** 57.8 dB(A)

L01: 67.1 dB(A)

L05: 64.3 dB(A)

L10: 62.5 dB(A)

L50: 50.8 dB(A)

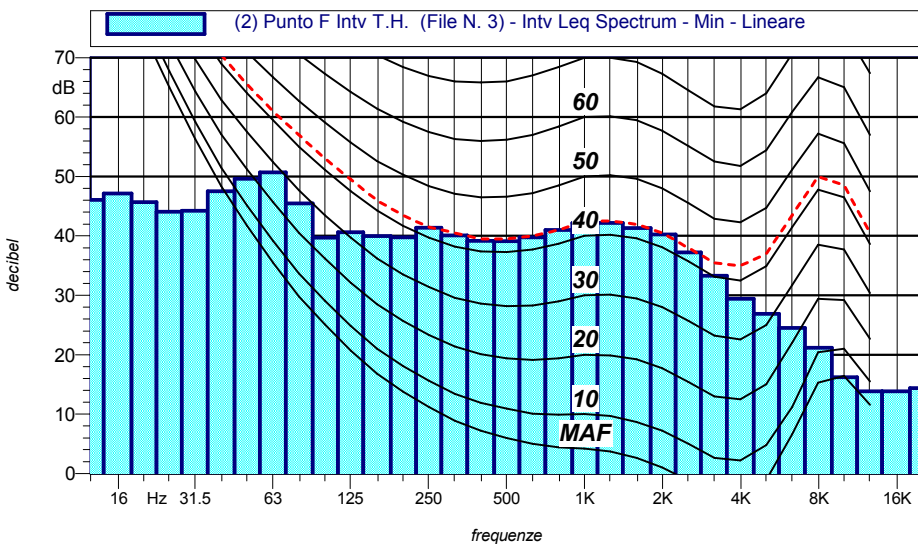
L90: 37.4 dB(A)

L95: 36.2 dB(A)

L99: 34.7 dB(A)

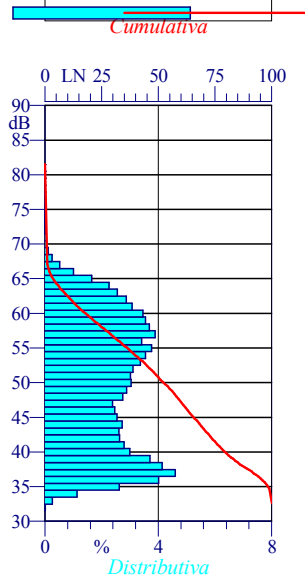
LFmax: 81.5 dB(A)

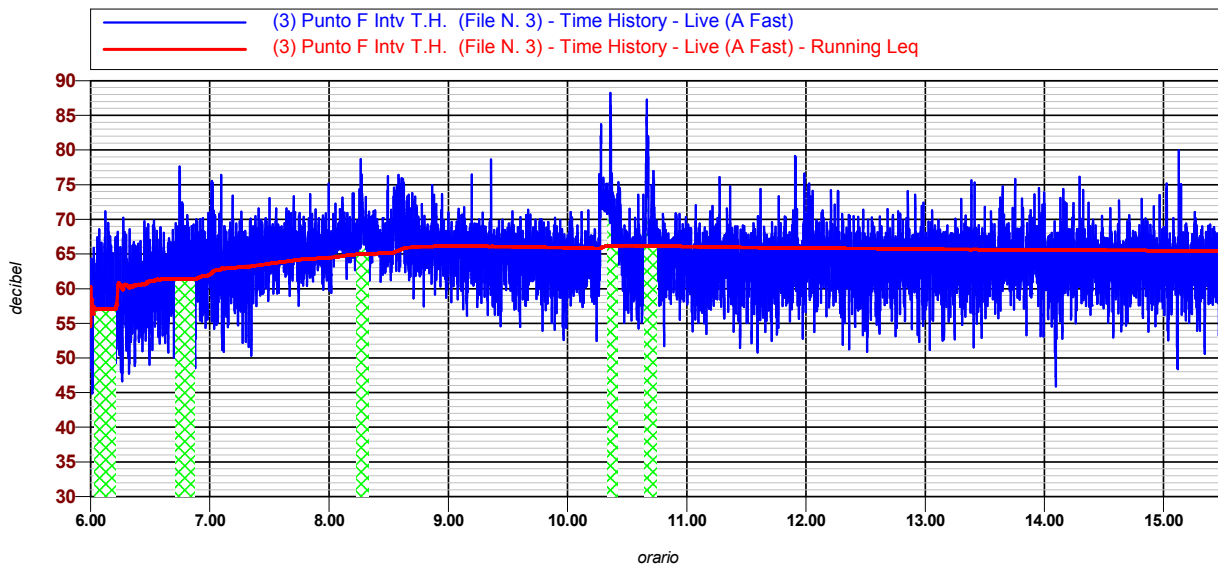
LFmin: 32.6 dB(A)



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	46.1	63	50.7	315	40.1	1600	41.3	8000	21.2
16	47.1	80	45.4	400	39.2	2000	40.3	10000	16.2
20	45.7	100	39.7	500	39.1	2500	37.2	12500	13.8
25	44.1	125	40.6	630	39.8	3150	33.3	16000	13.8
31.5	44.2	160	39.9	800	41.0	4000	29.4	20000	14.4
40	47.5	200	39.8	1000	42.2	5000	26.9		
50	49.6	250	41.4	1250	42.2	6300	24.5		

(2) Punto F Intv T.H. (File N. 3) - Intv Leq Spectrum - Min - Lineare





**Nome** (3) Punto F Intv T.H. (File N. 3)

Località via Marescalca, Lodi

Strumentazione Larson-Davis 824

Calibratore Larson-Davis CAL 200

Operatore P. Zaneboni, D. Ciceri

Note Traffico veicolare transitante su viale Europa misura a 4 mt di altezza

Data: 13/04/2007

Ora: 6.00.00

Durata: 34245 sec

Intervallo: 1.000 sec

**Leq: 65.4 dB(A)**

**L01: 72.9 dB(A)**

**L05: 69.1 dB(A)**

**L10: 67.9 dB(A)**

**L50: 64.3 dB(A)**

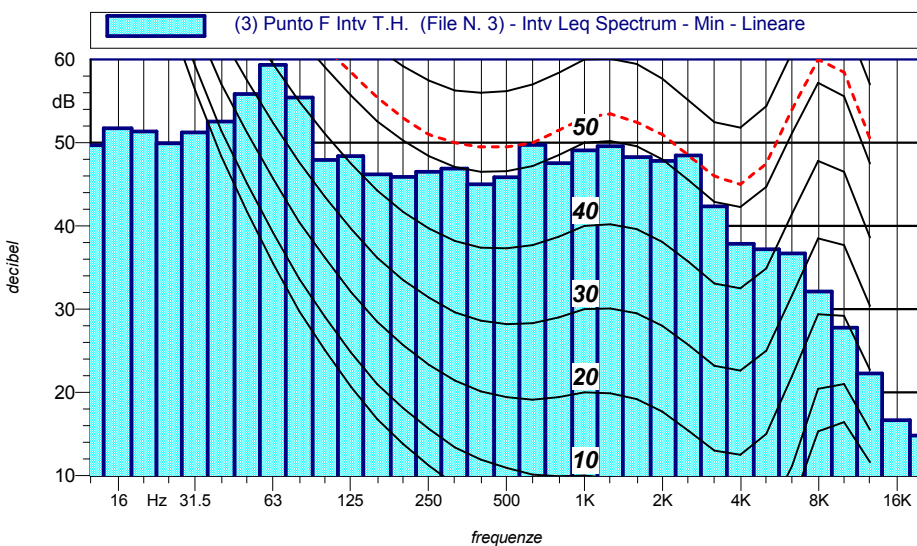
**L90: 59.2 dB(A)**

**L95: 57.2 dB(A)**

**L99: 52.7 dB(A)**

**LFmax: 83.7 dB(A)**

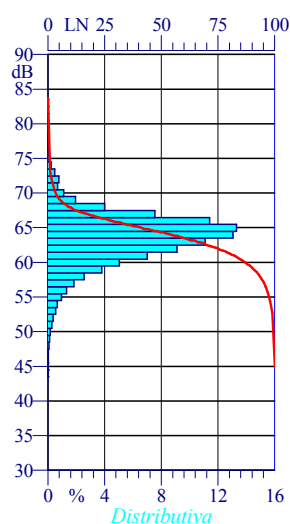
**LFmin: 44.9 dB(A)**



Hz	dB	Hz	dB	Hz	dB	Hz	dB	Hz	dB
12.5	49.7	63	59.4	315	46.9	1600	48.3	8000	32.1
16	51.7	80	55.4	400	45.0	2000	47.8	10000	27.8
20	51.4	100	47.9	500	45.8	2500	48.5	12500	22.3
25	49.9	125	48.4	630	49.7	3150	42.3	16000	16.7
31.5	51.2	160	46.2	800	47.6	4000	37.9	20000	14.8
40	52.6	200	45.9	1000	49.1	5000	37.2		
50	55.9	250	46.5	1250	49.6	6300	36.7		

(3) Punto F Intv T.H. (File N. 3) - Intv Leq Spectrum - Min - Lineare

Cumulativa



Distributiva

