

AUTOSTRADA (A11) : FIRENZE - PISA NORD

**AMPLIAMENTO ALLA TERZA CORSIA
DEL TRATTO FIRENZE - PISTOIA**

PROGETTO DEFINITIVO

STUDIO DI IMPATTO AMBIENTALE



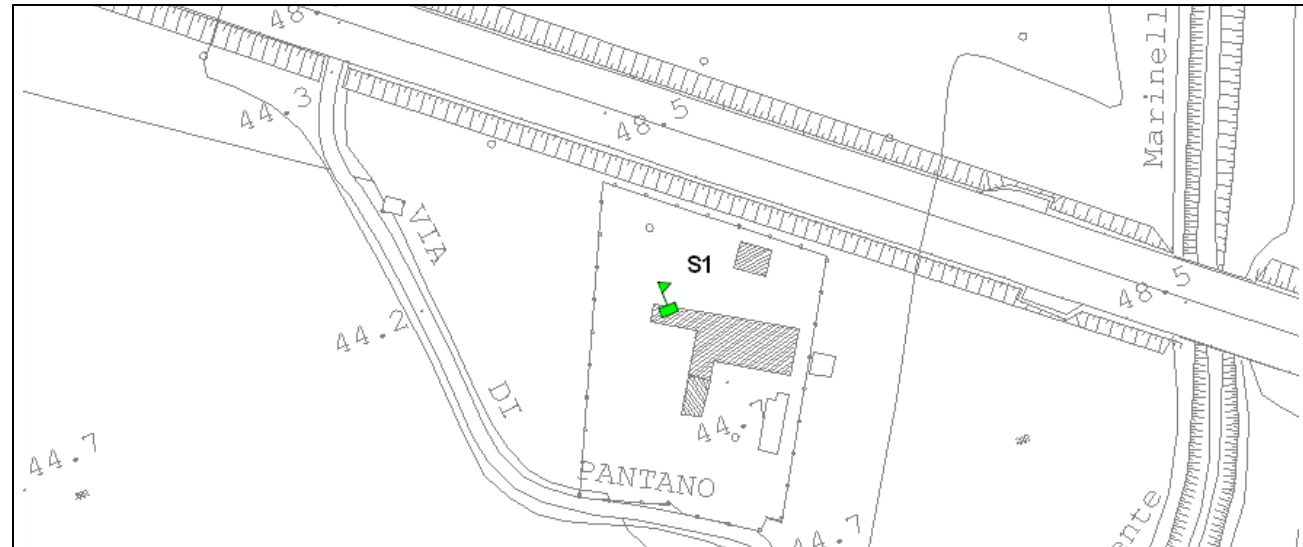
**QUADRO DI RIFERIMENTO AMBIENTALE
ALLEGATO RUMORE: INDAGINI ACUSTICHE E VIBRAZIONALI**

COMPONENTE RUMORE E VIBRAZIONI

ALLEGATO 3: INDAGINI ACUSTICHE

Misura fonometrica S1

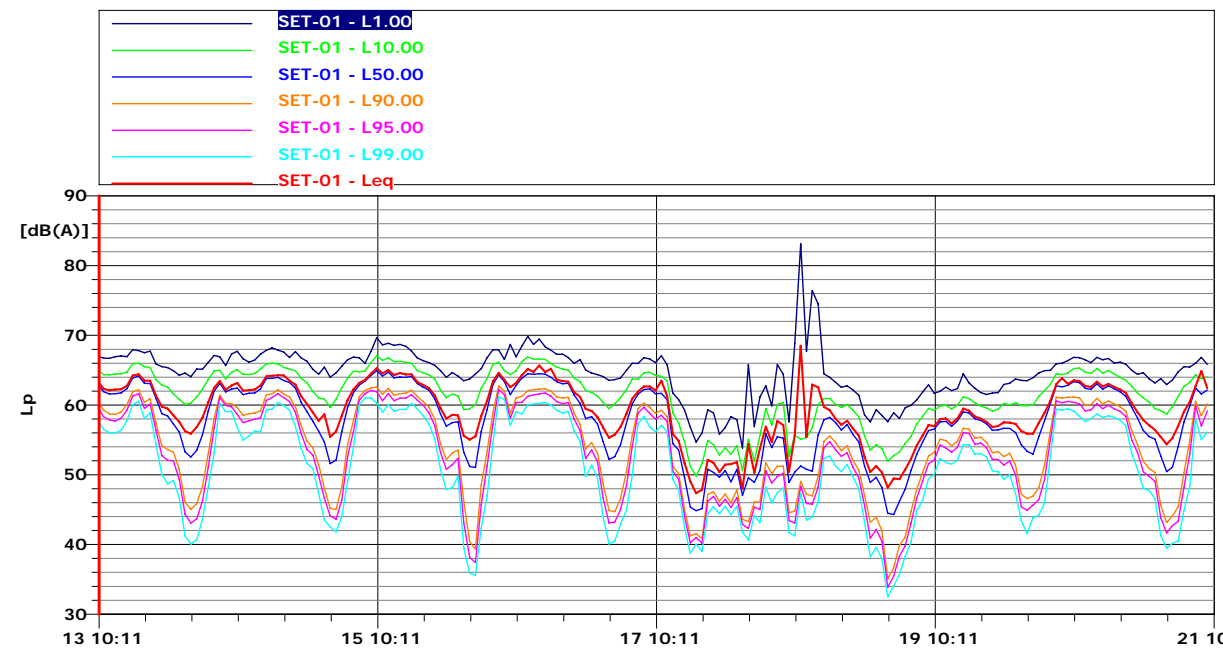
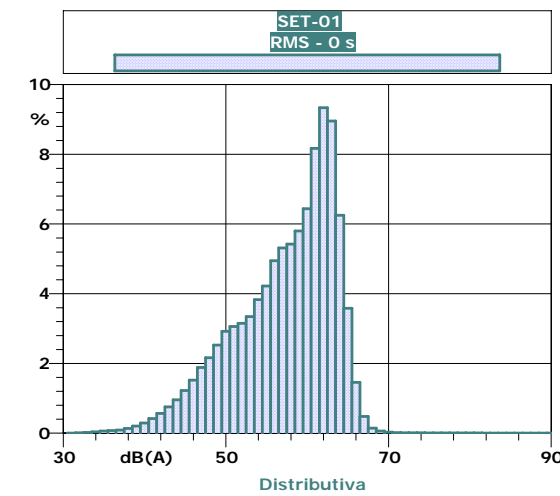
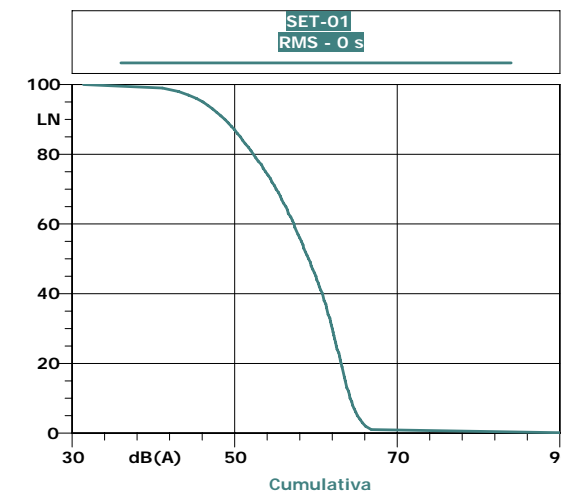
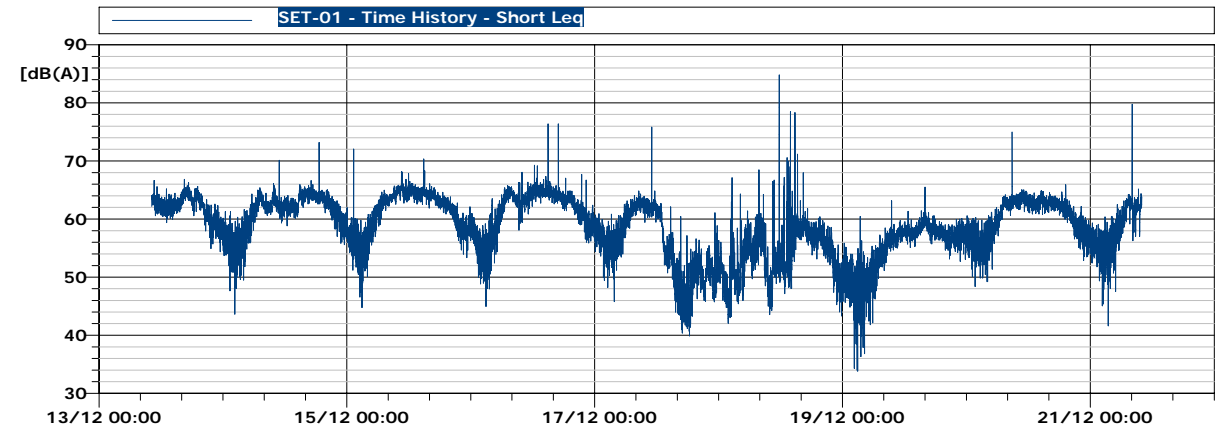
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Campi di Bisenzio (FI)	Inizio	13/12/2010	10:12
Indirizzo	Via di Pantano	Fine	21/12/2010	09:58
Progressiva km	7+370	Fonometro	Larson Davis 824	S. N. A0805
Distanza infrastruttura	38 [m]	Tipologia tracciato	Rilevato	
Nome infrastruttura	Autostrada A11	Tipologia asfalto	Drenante	

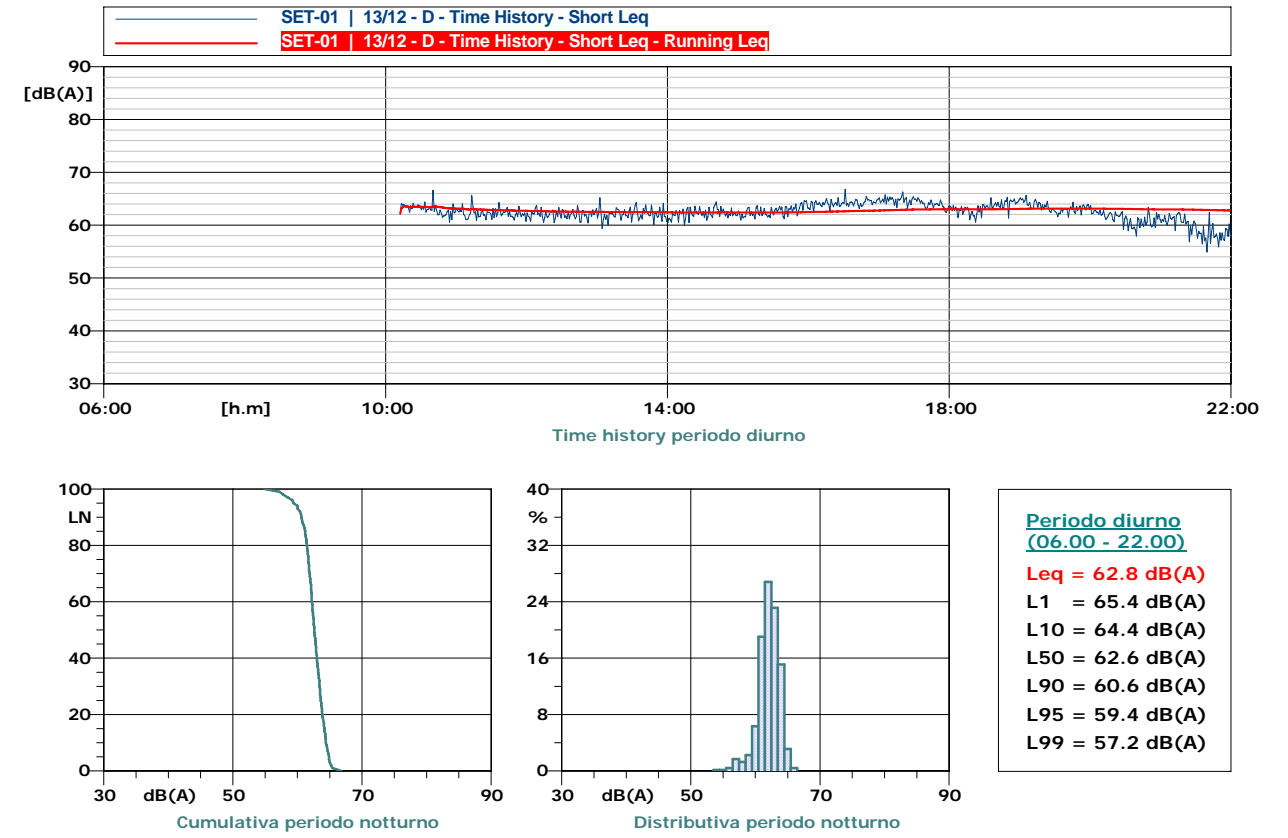
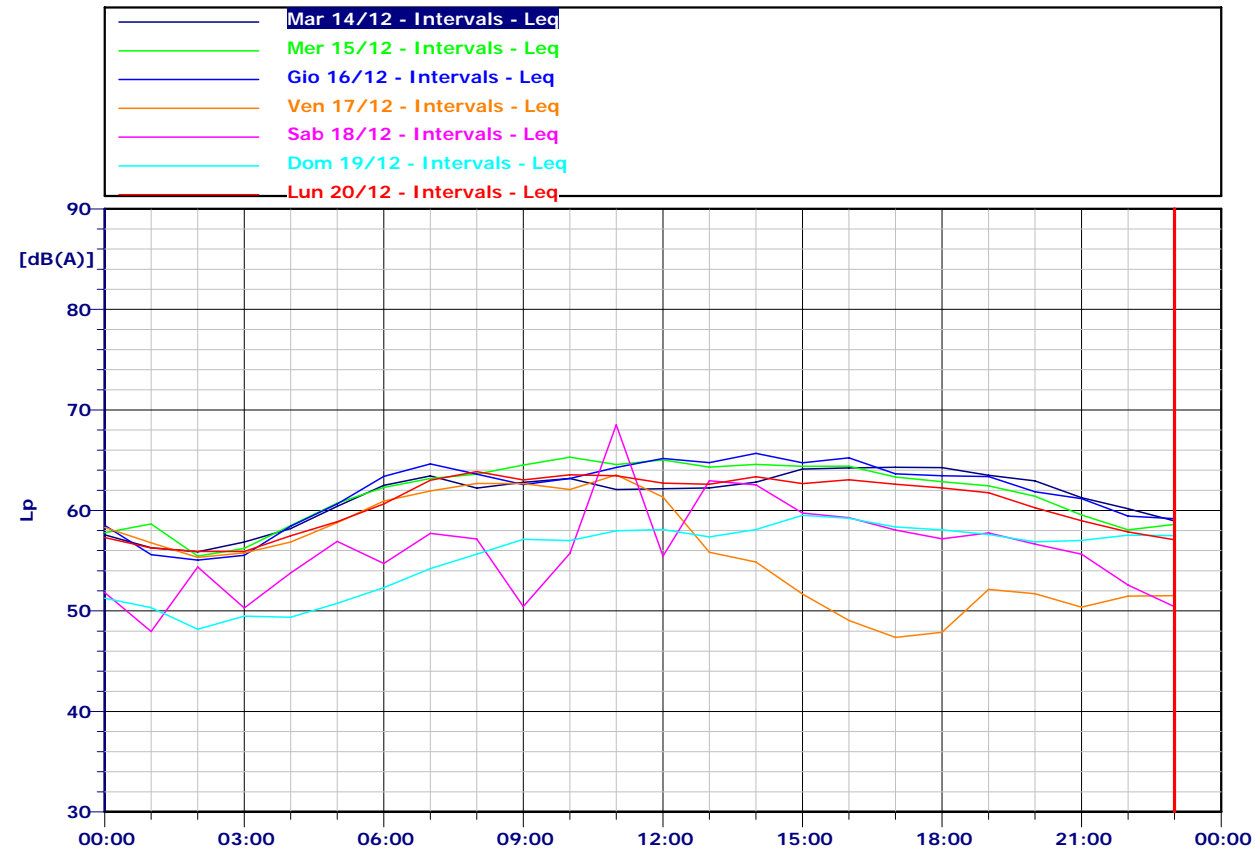


MISURA	PERIODO	MAR 14/12	MER 15/12	GIO 16/12	VEN 17/12	SAB 18/12	DOM 19/12	LUN 20/12	MEDIA	
Livelli sonori	Diurno 06 – 22	63.1	63.7	64.0	62.4	- *	57.5	62.5	62.0	[dB(A)]
	Notturmo 22 – 06	58.6	57.9	57.8	- *	50.5	57.2	56.8	56.4	
Numero veicoli	Diurno 06 – 22	72019	73554	76587	-	-	31048	62166	63075	Leggeri
		15416	14851	15375	-	-	2666	13482	12358	Pesanti
	Notturmo 22 – 06	4689	5694	6289	-	-	3751	4105	4906	Leggeri
		2005	2013	2024	-	-	740	1900	1736	Pesanti

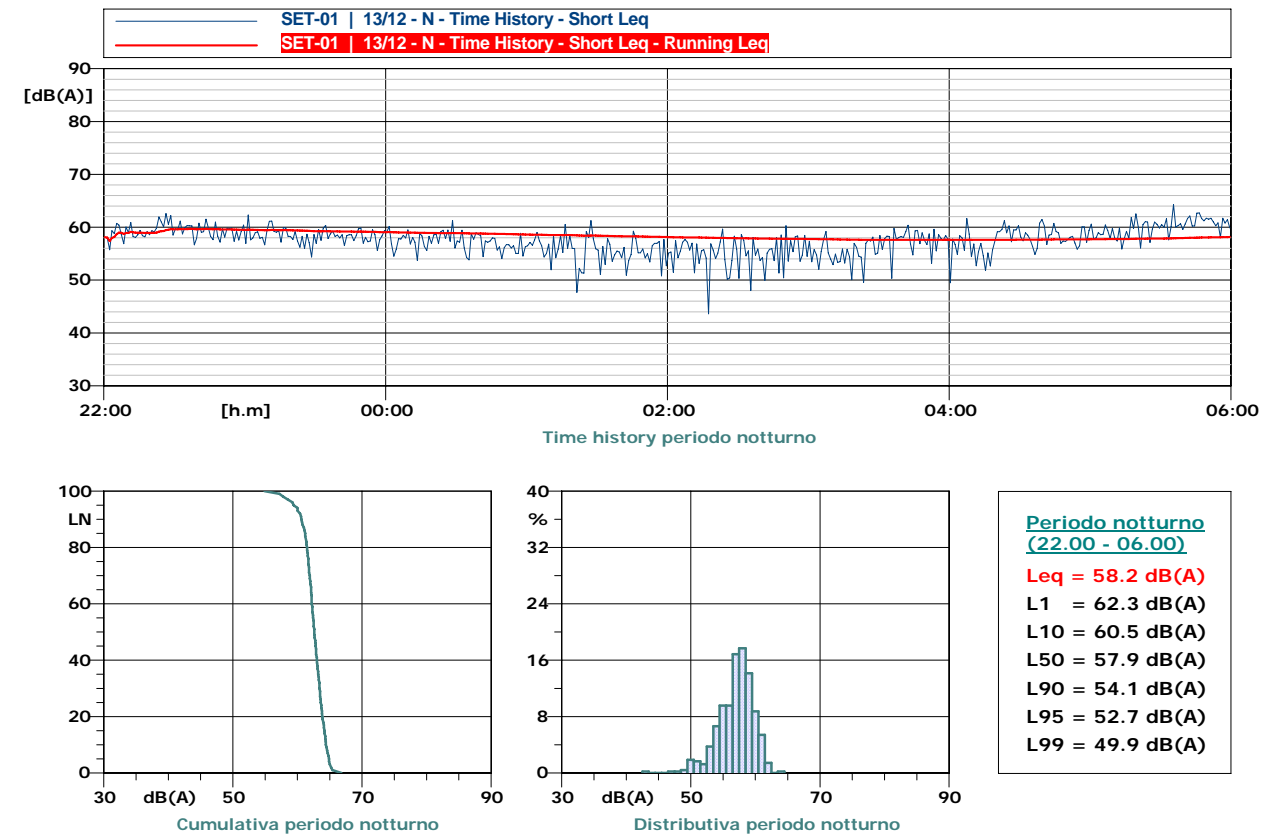
NOTE GENERALI
 - Non disponibile
 * Mascheratura durante condizioni meteo incompatibili (neve, pioggia)

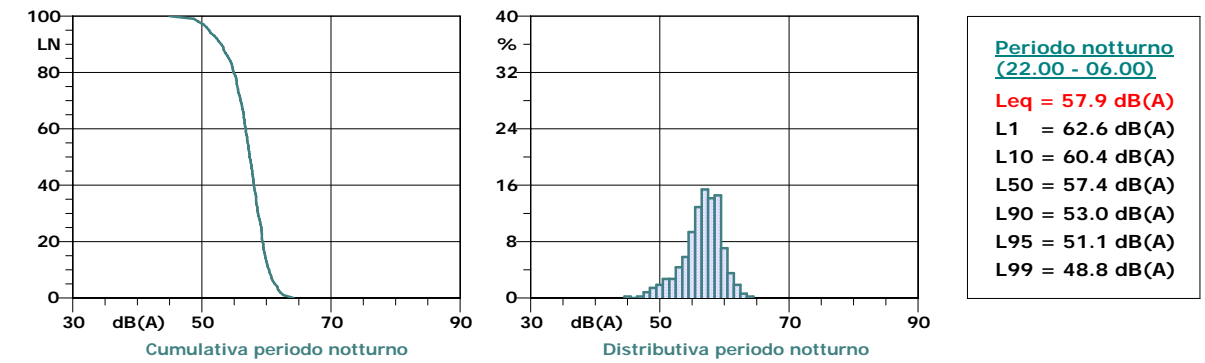
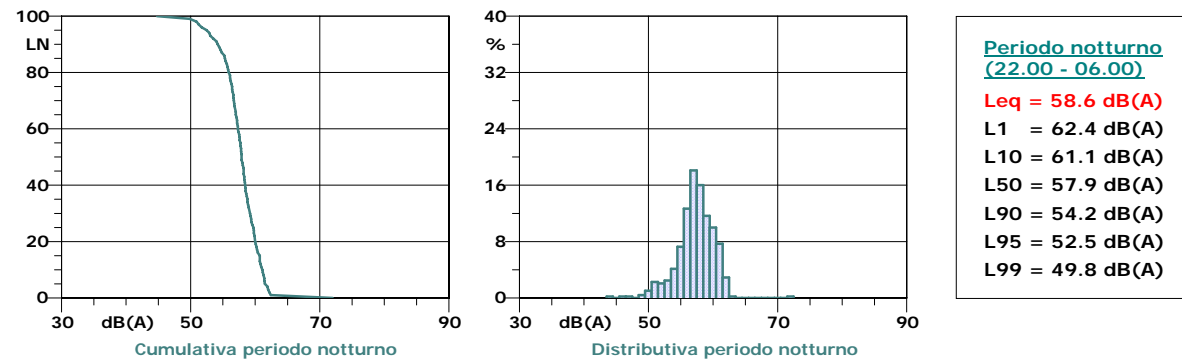
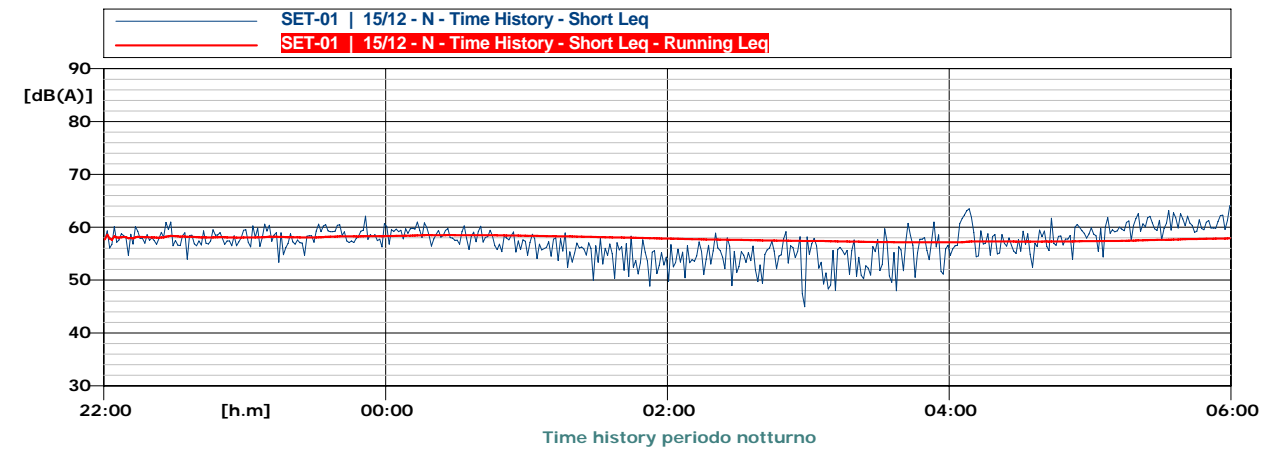
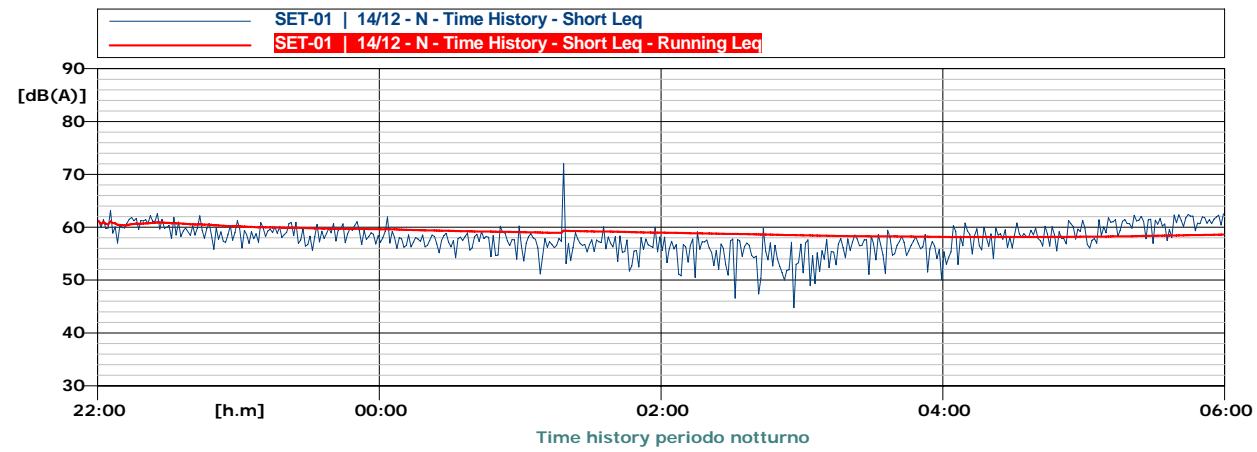
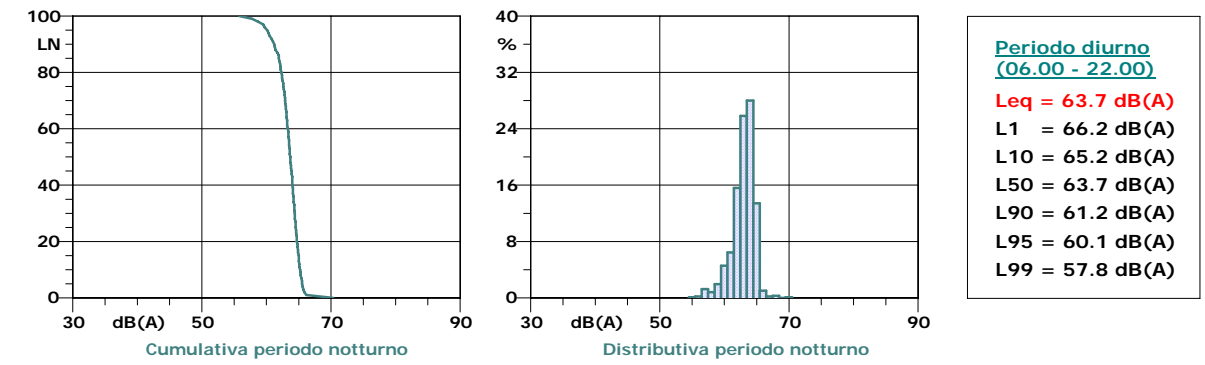
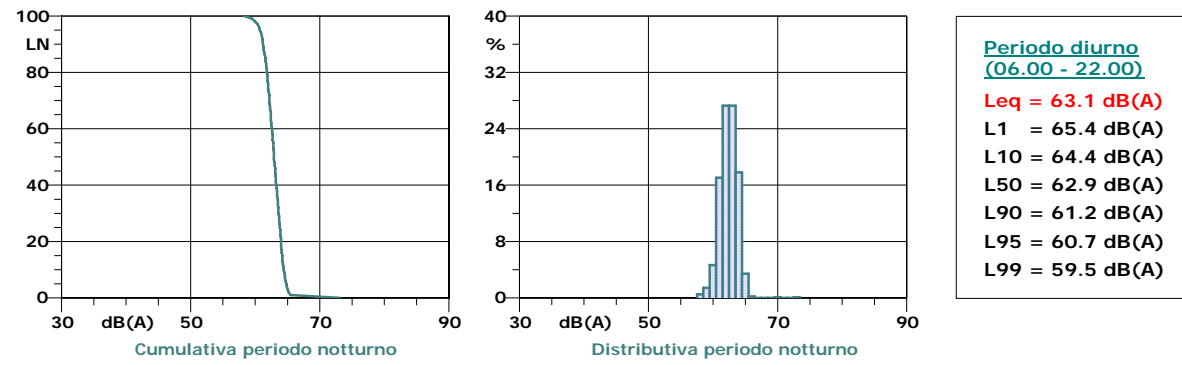
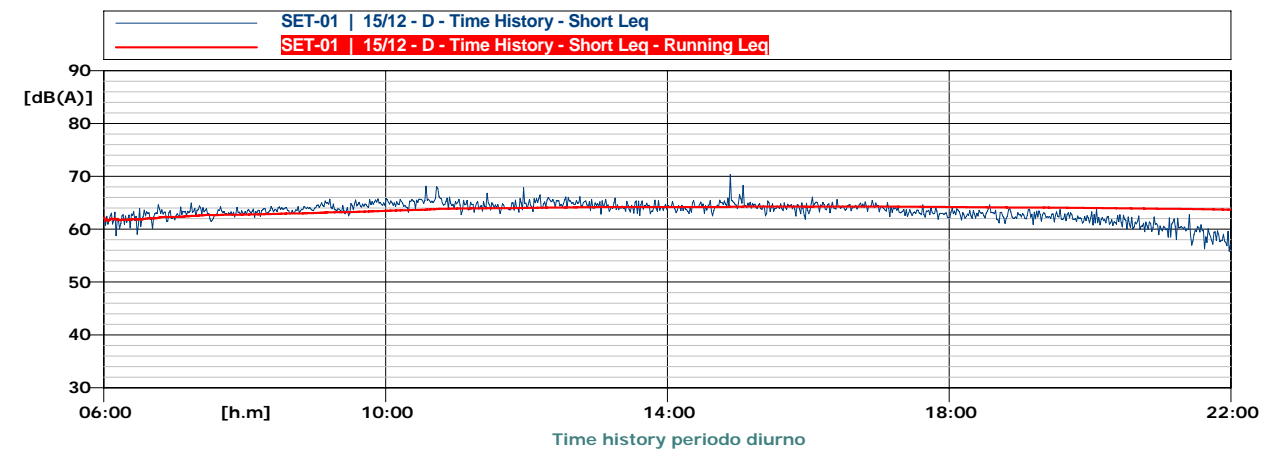
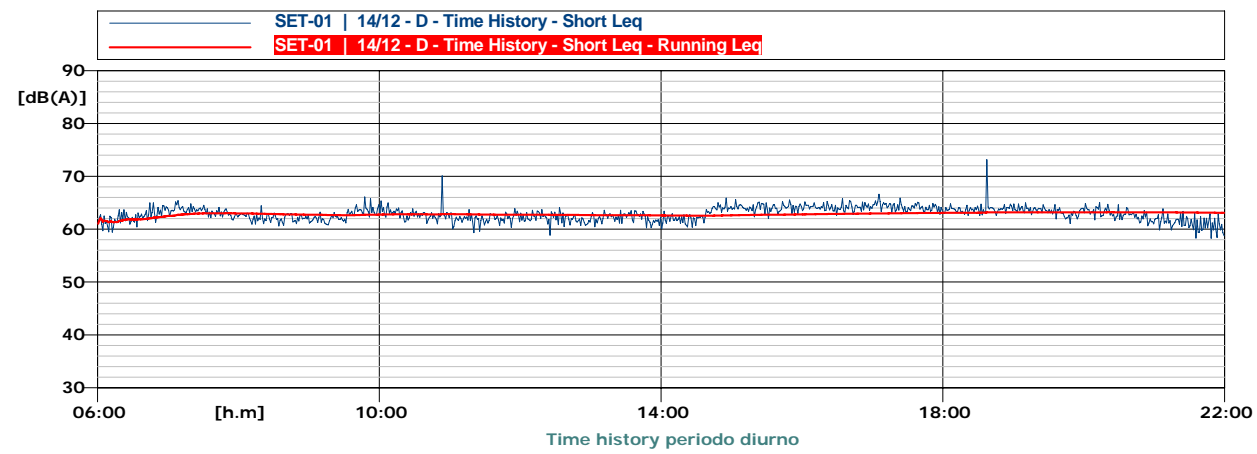
TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>

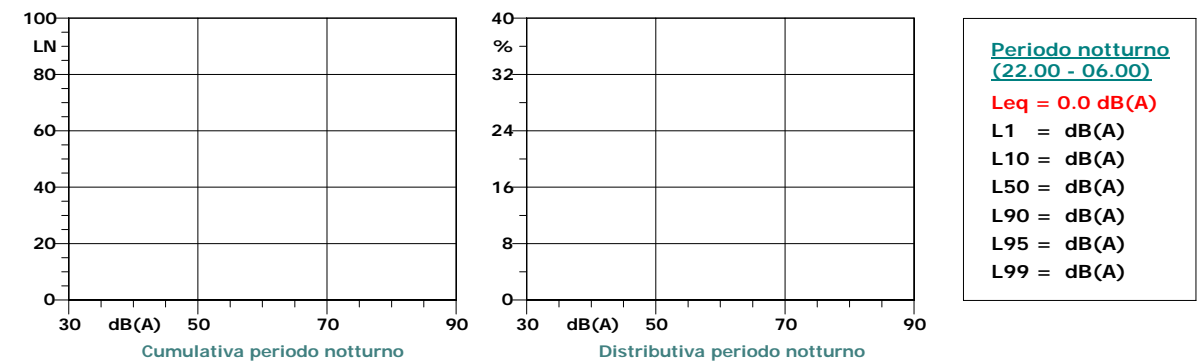
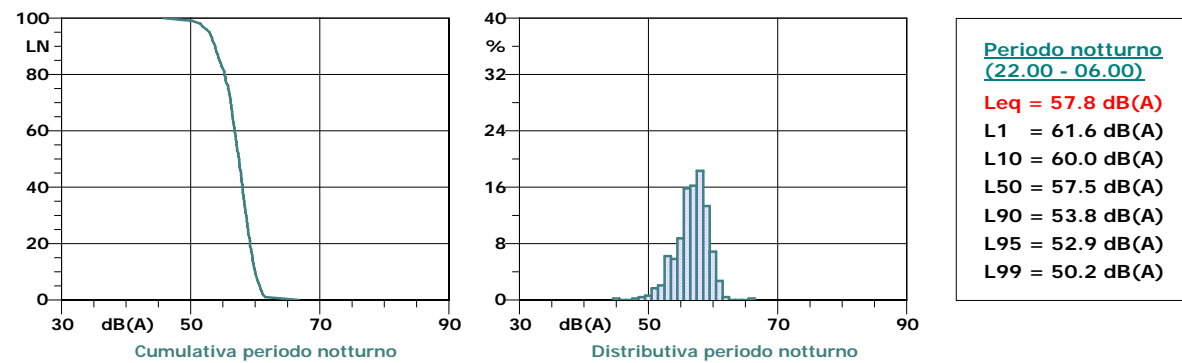
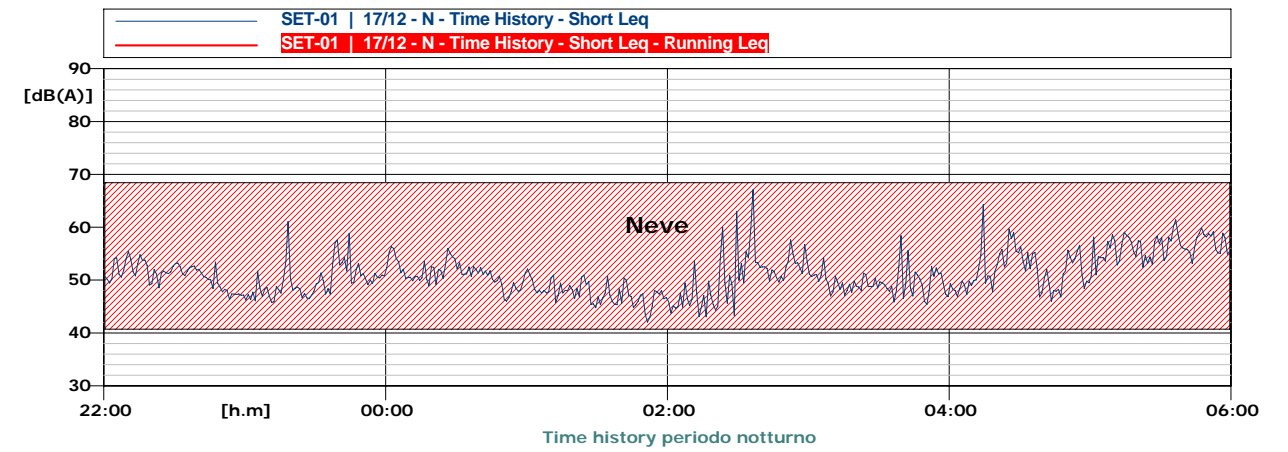
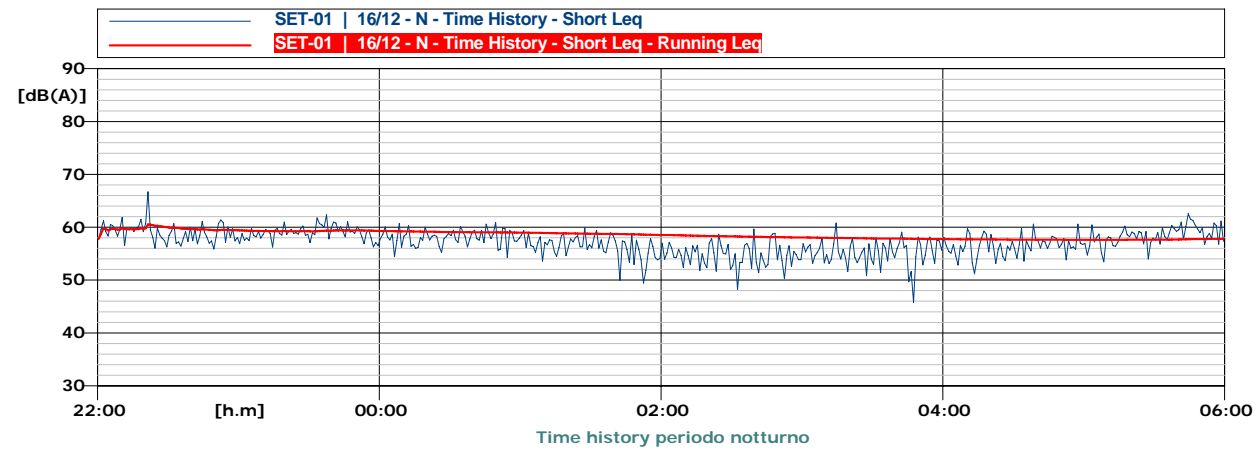
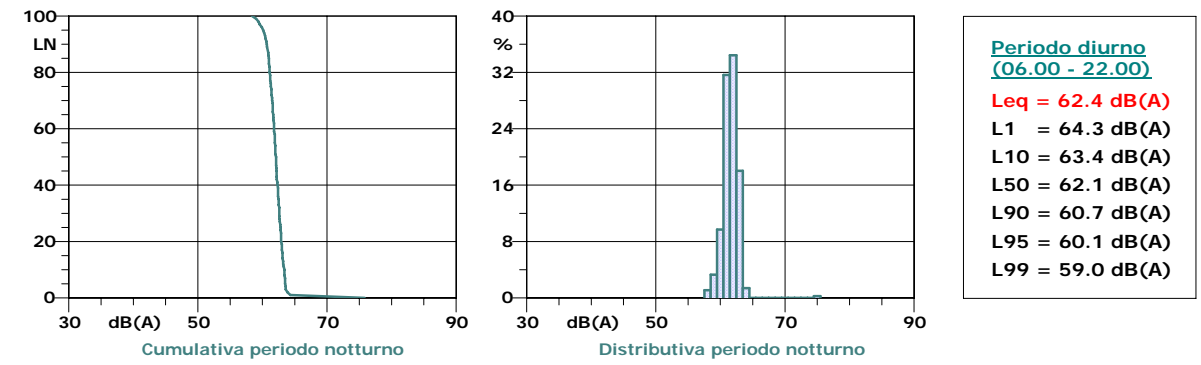
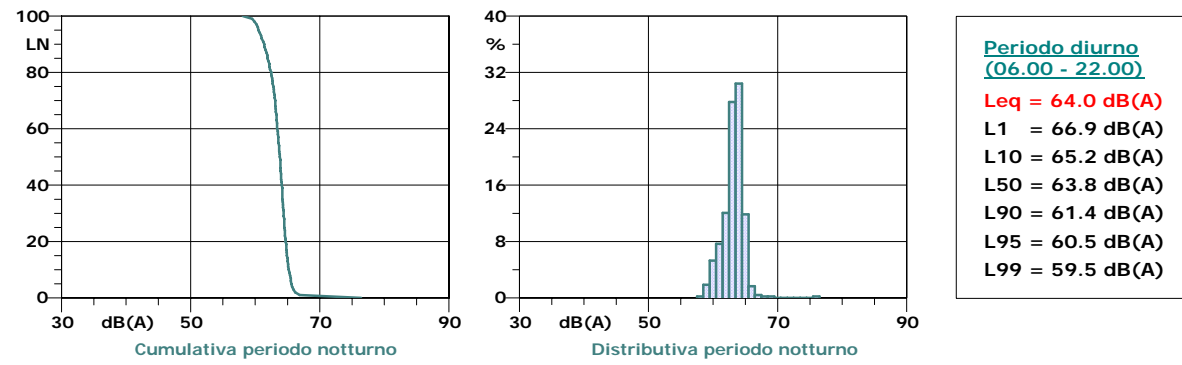
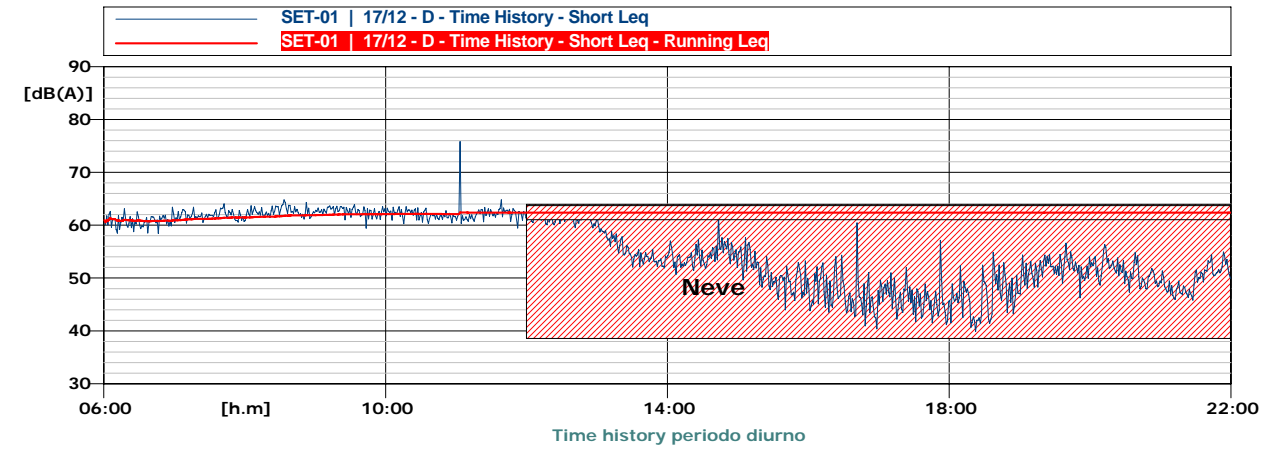
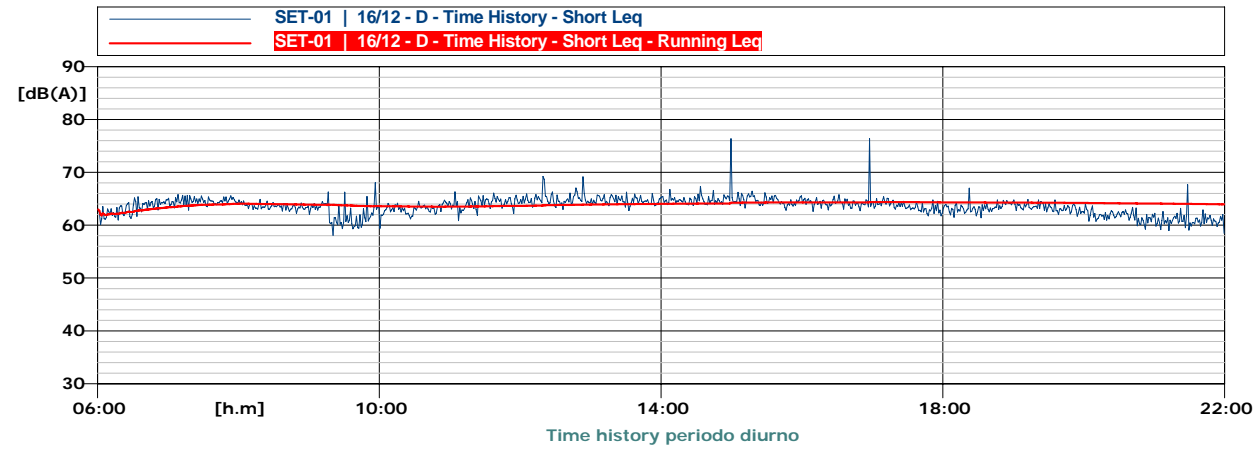


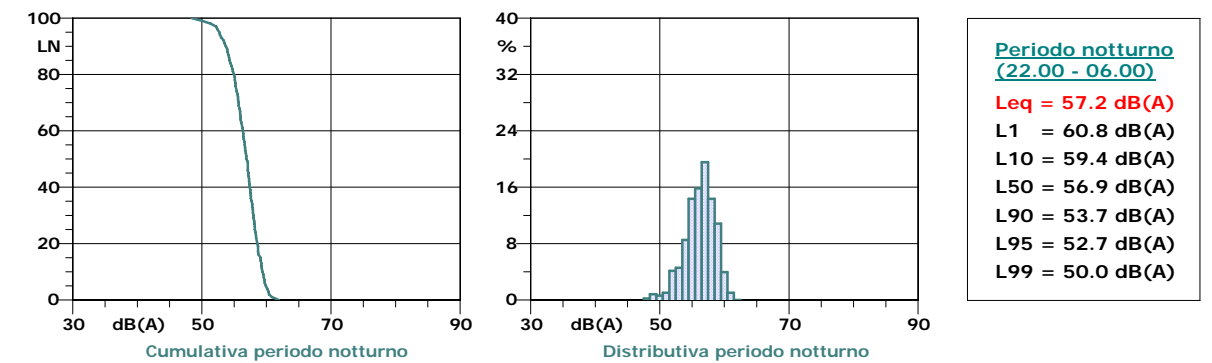
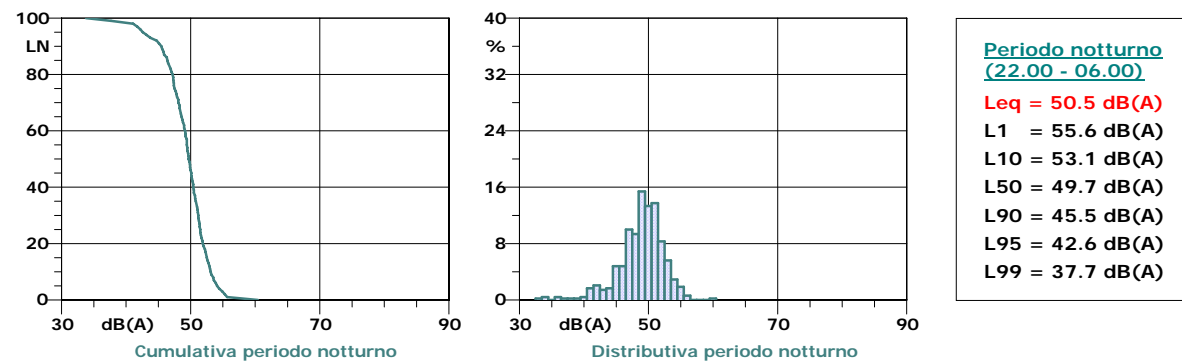
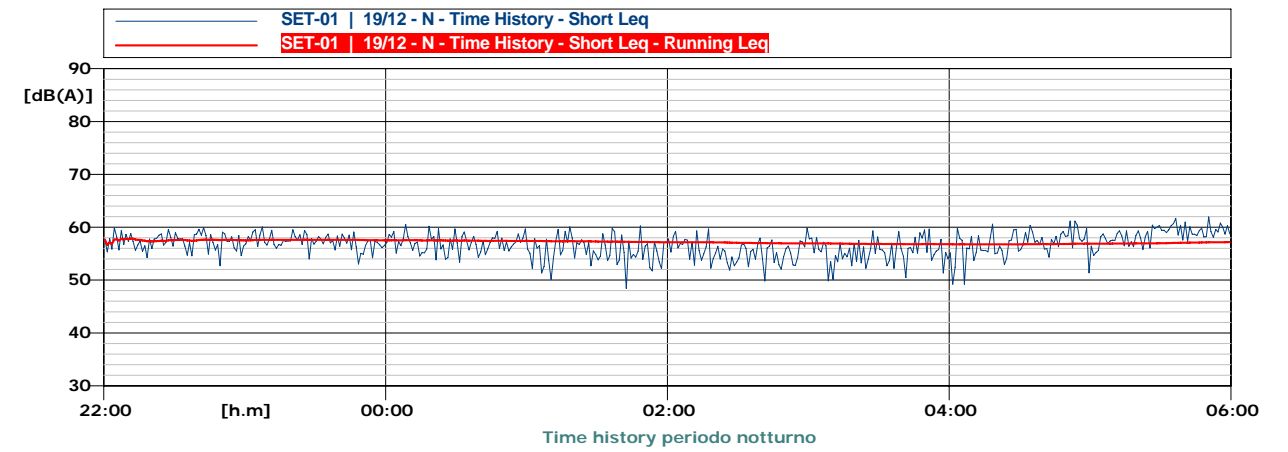
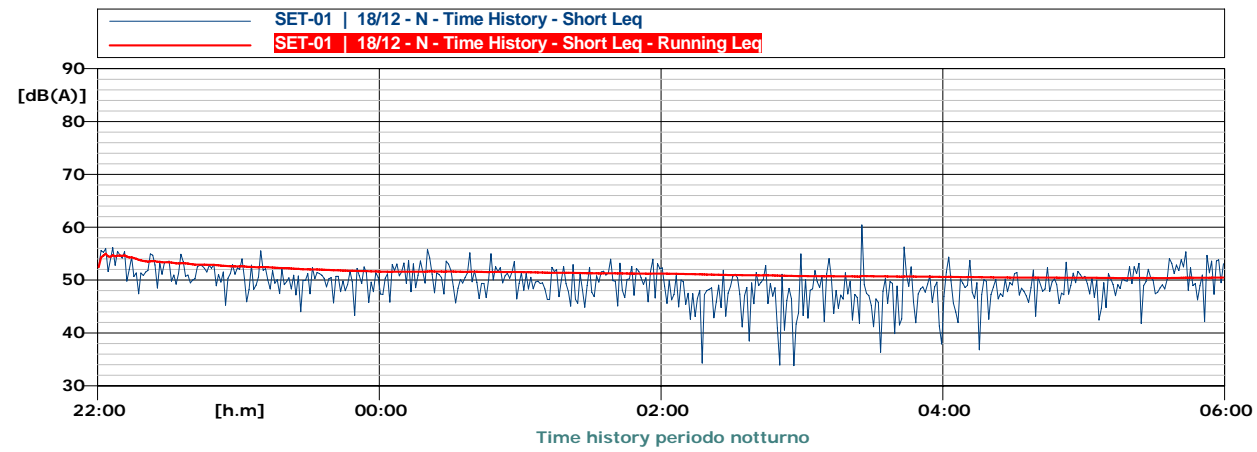
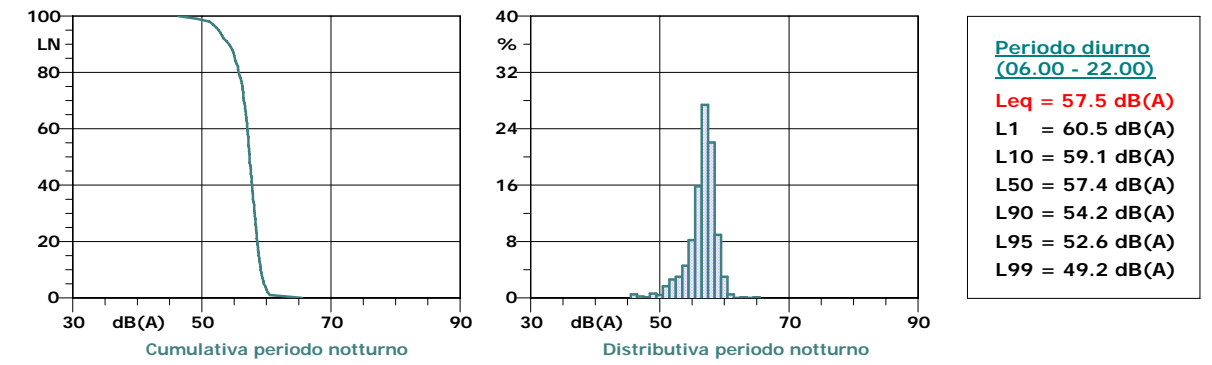
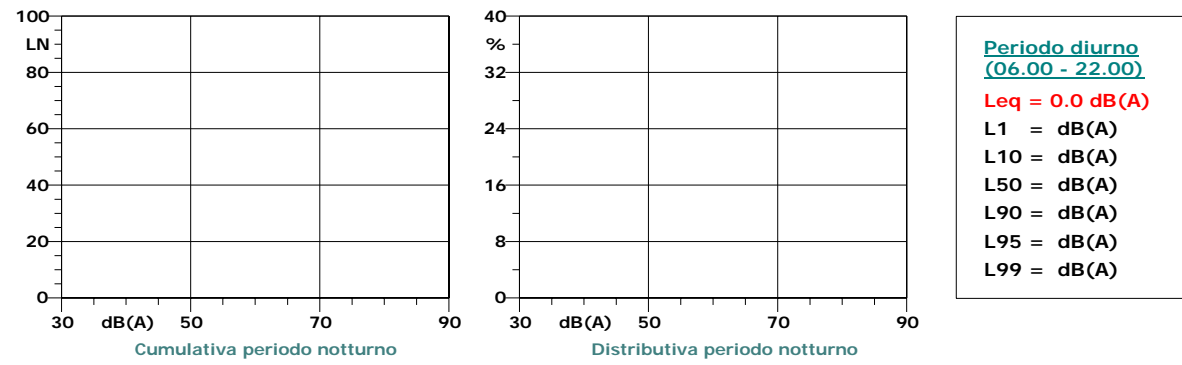
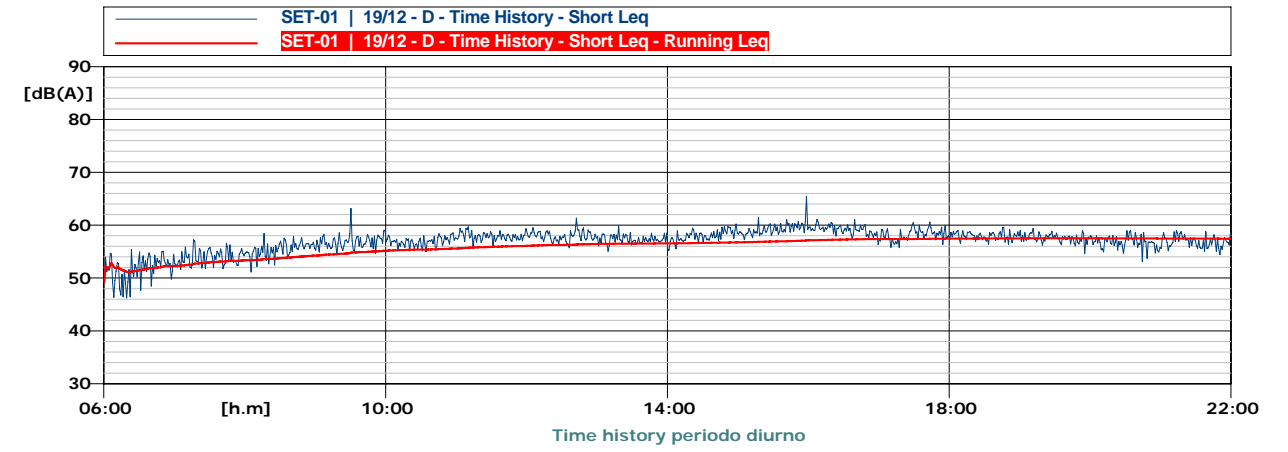
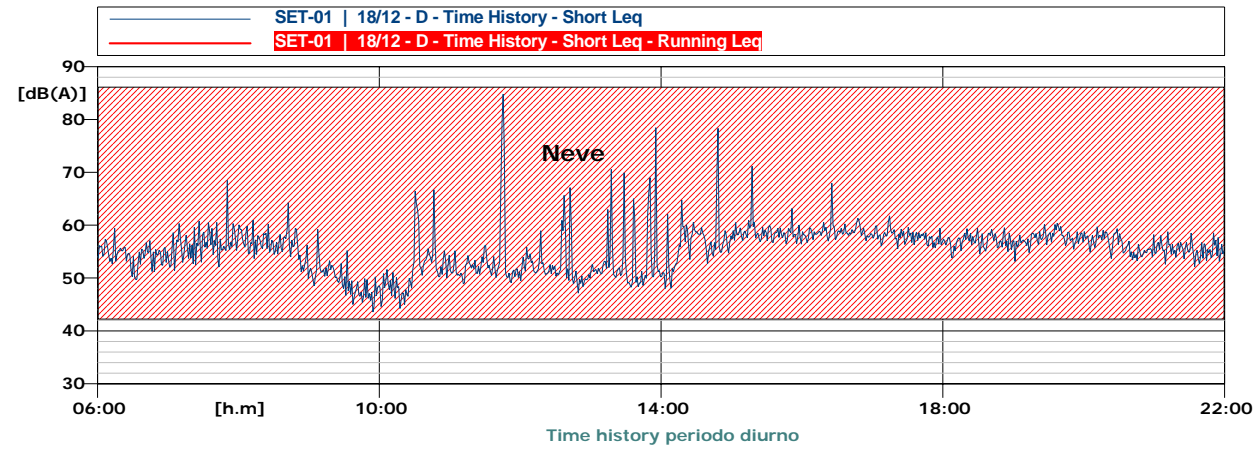


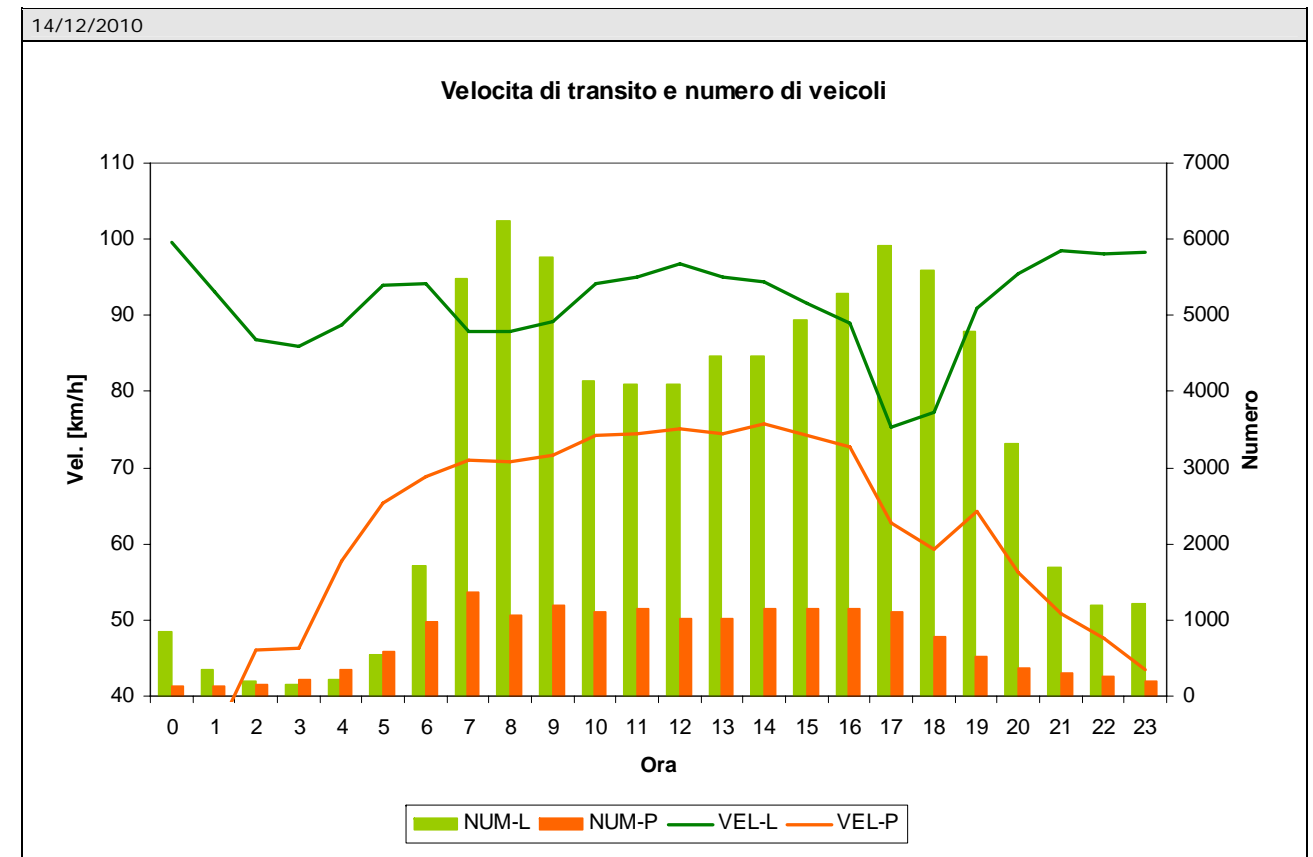
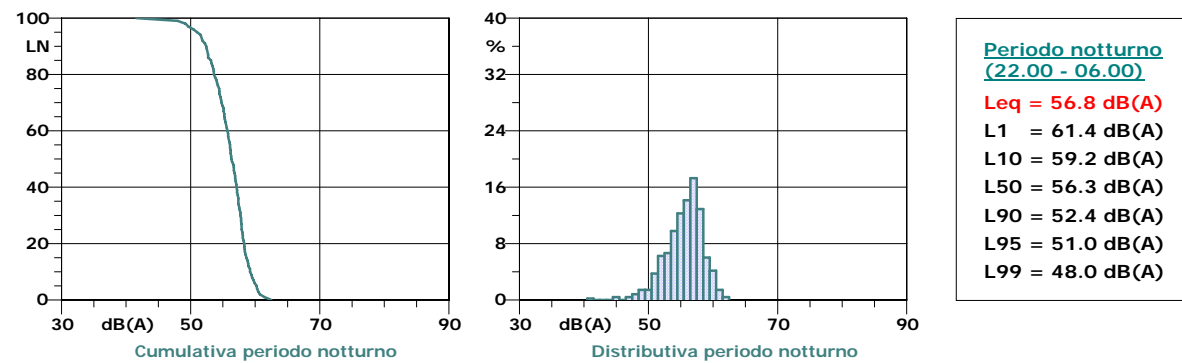
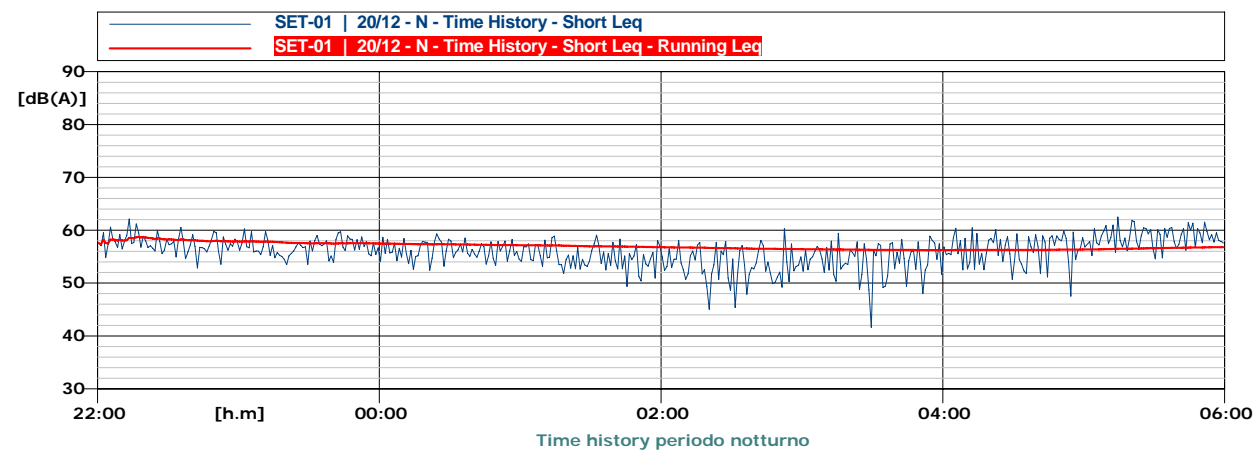
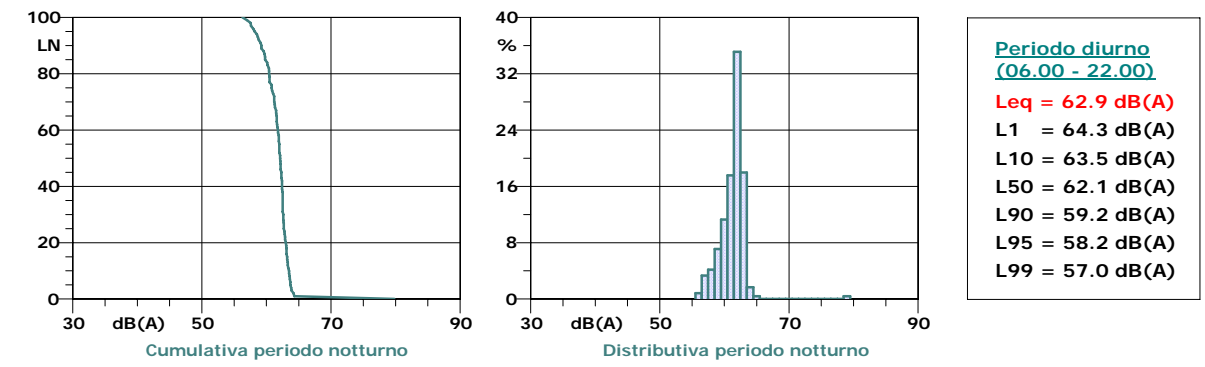
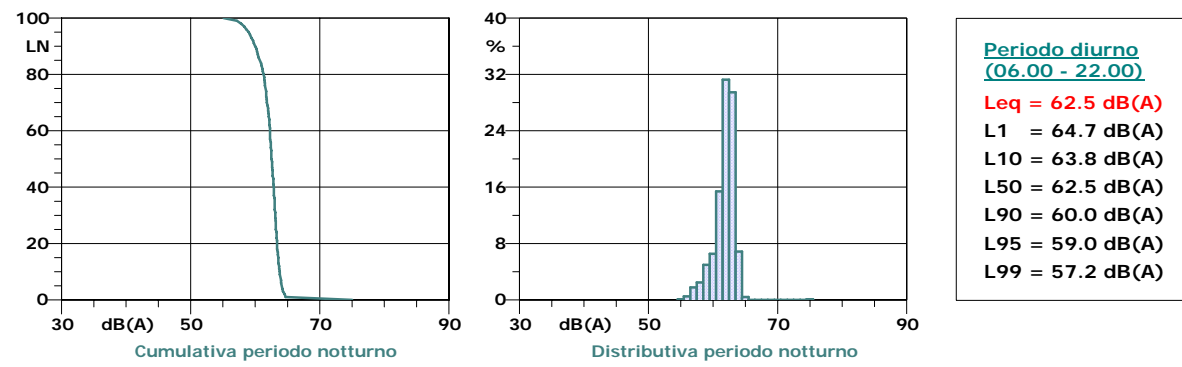
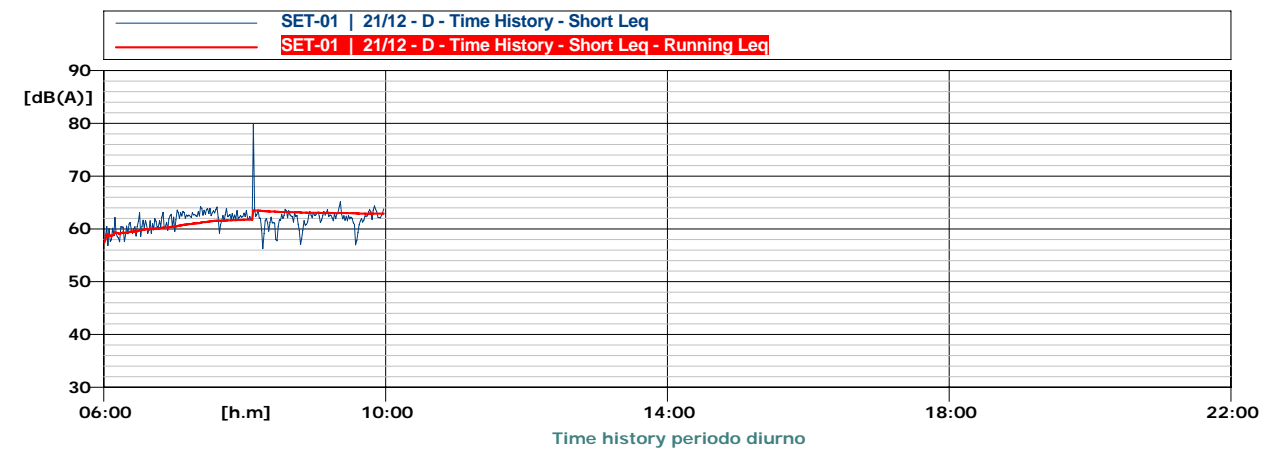
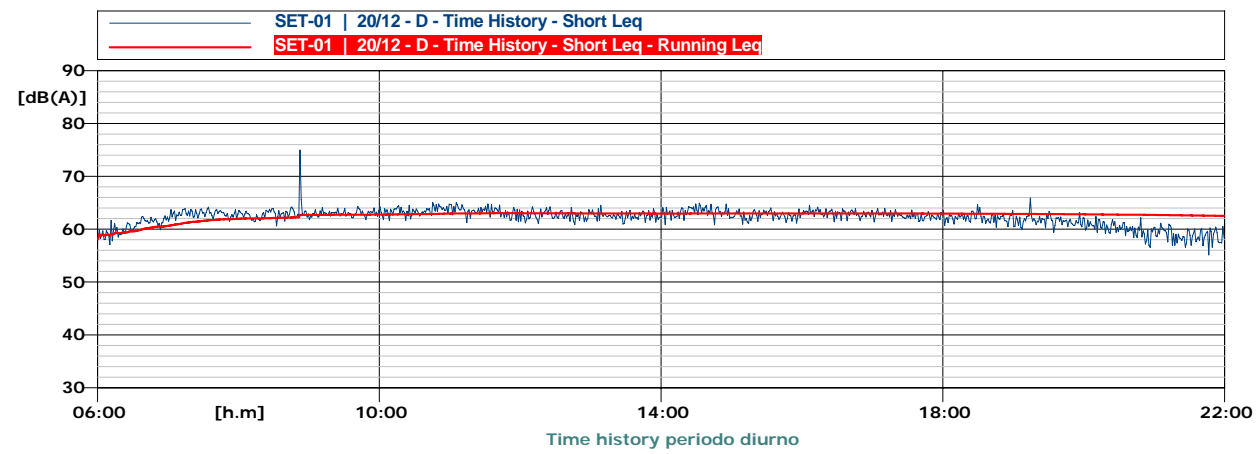
	Mar 14/12	Mer 15/12	Gio 16/12	Ven 17/12	Sab 18/12	Dom 19/12	Lun 20/12
ORA	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]
00:00:00	57.6	57.8	58.5	58.3	51.8	51.3	57.3
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02:00:00	55.9	55.5	55.1	55.3	54.4	48.2	55.9
03:00:00	56.9	56.2	55.5	55.8	50.3	49.5	55.9
04:00:00	58.2	58.5	58.4	56.9	53.8	49.4	57.5
05:00:00	60.4	60.7	60.6	58.8	56.9	50.8	58.9
06:00:00	62.5	62.3	63.4	60.9	54.7	52.3	60.6
07:00:00	63.4	63.2	64.6	61.9	57.7	54.2	63.0
08:00:00	62.2	63.6	63.6	62.7	57.2	55.6	63.9
09:00:00	62.8	64.5	62.6	62.7	50.4	57.1	63.0
10:00:00	63.2	65.3	63.2	62.1	55.7	57.0	63.5
11:00:00	62.1	64.6	64.3	63.5	68.5	58.0	63.4
12:00:00	62.2	65.0	65.2	61.3	55.5	58.1	62.7
13:00:00	62.2	64.3	64.7	55.8	62.9	57.4	62.6
14:00:00	62.8	64.6	65.7	54.9	62.5	58.1	63.4
15:00:00	64.1	64.4	64.7	51.7	59.7	59.5	62.7
16:00:00	64.2	64.4	65.2	49.1	59.3	59.2	63.1
17:00:00	64.3	63.3	63.6	47.4	58.0	58.3	62.6
18:00:00	64.2	62.9	63.4	47.9	57.2	58.1	62.2
19:00:00	63.5	62.4	63.4	52.2	57.8	57.6	61.8
20:00:00	62.9	61.4	61.8	51.7	56.7	56.9	60.3
21:00:00	61.3	59.5	61.2	50.4	55.6	57.0	59.0
22:00:00	60.2	58.1	59.4	51.5	52.6	57.5	57.9
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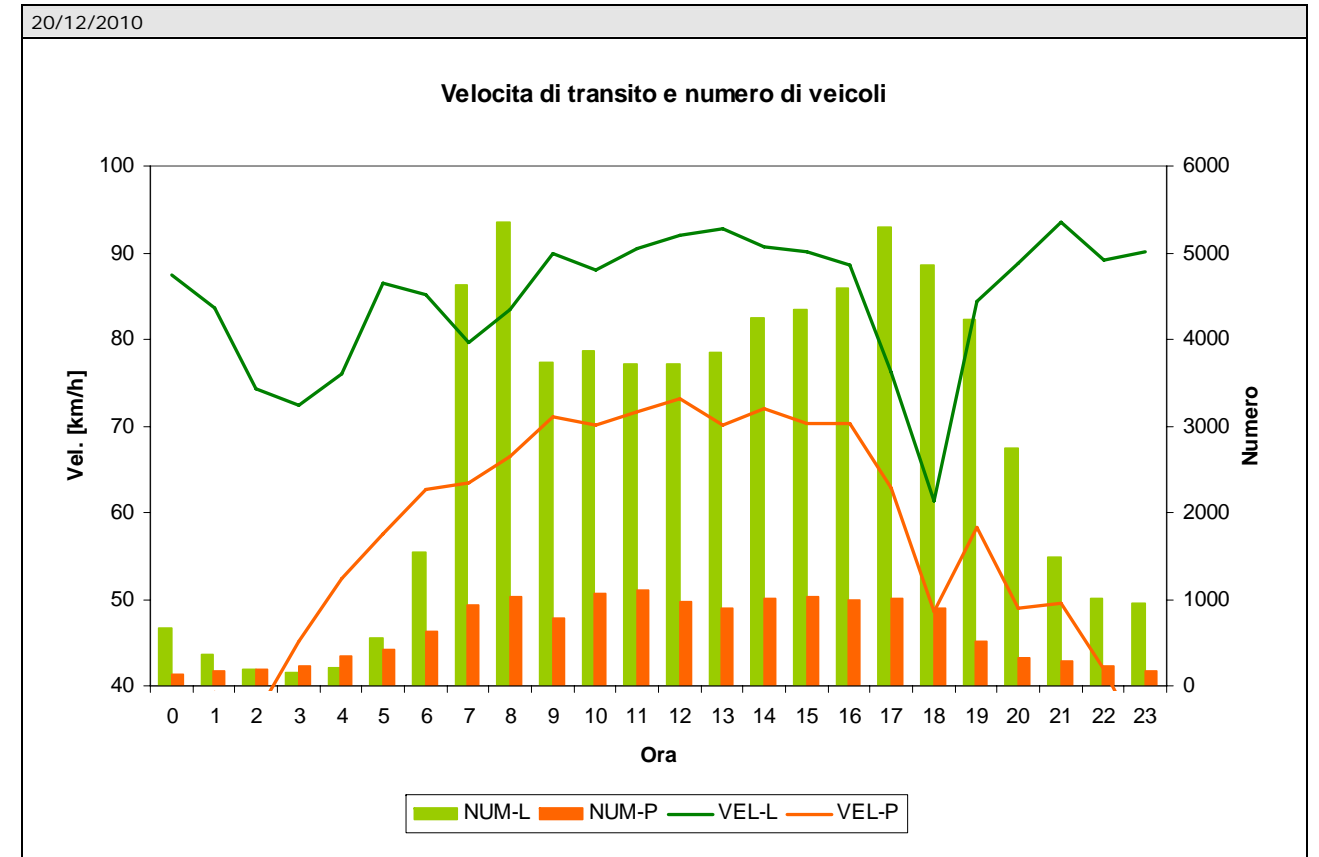
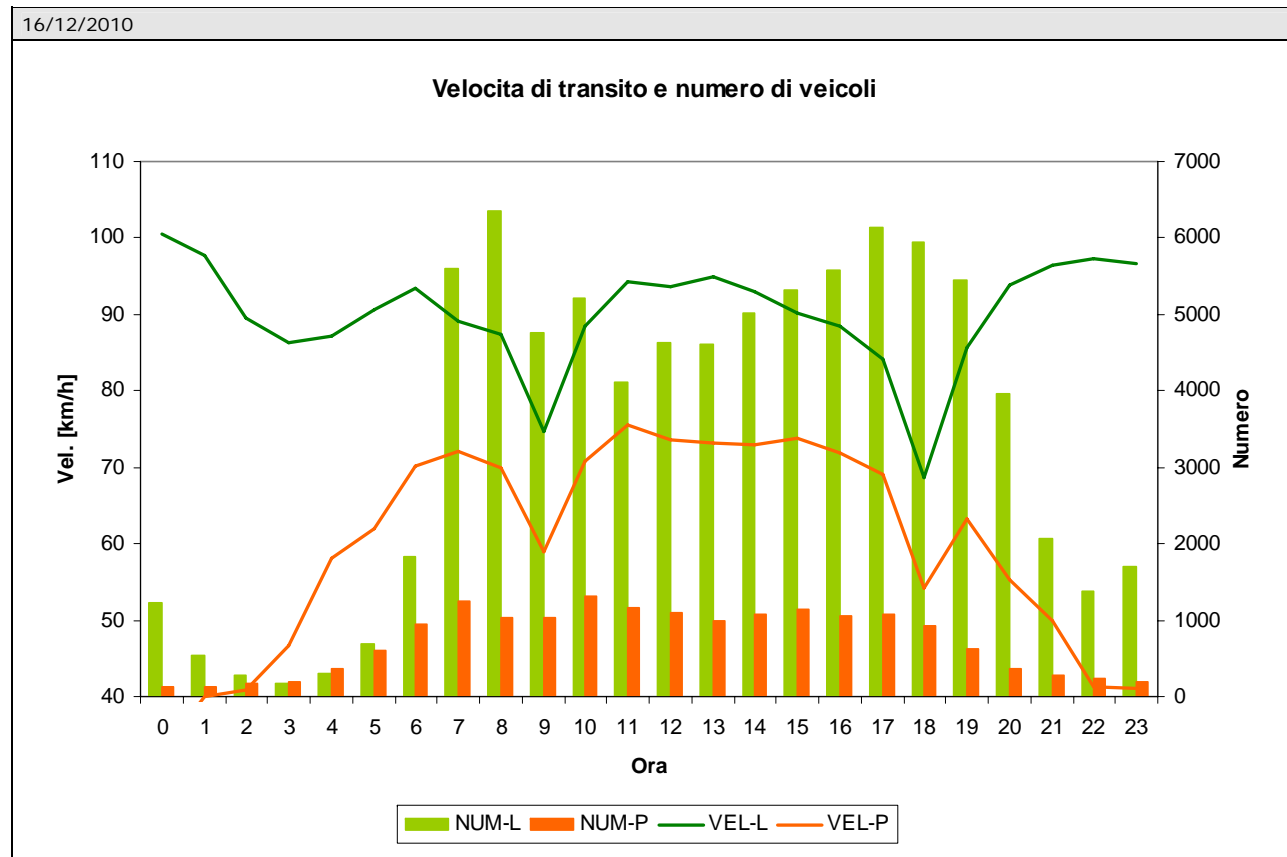
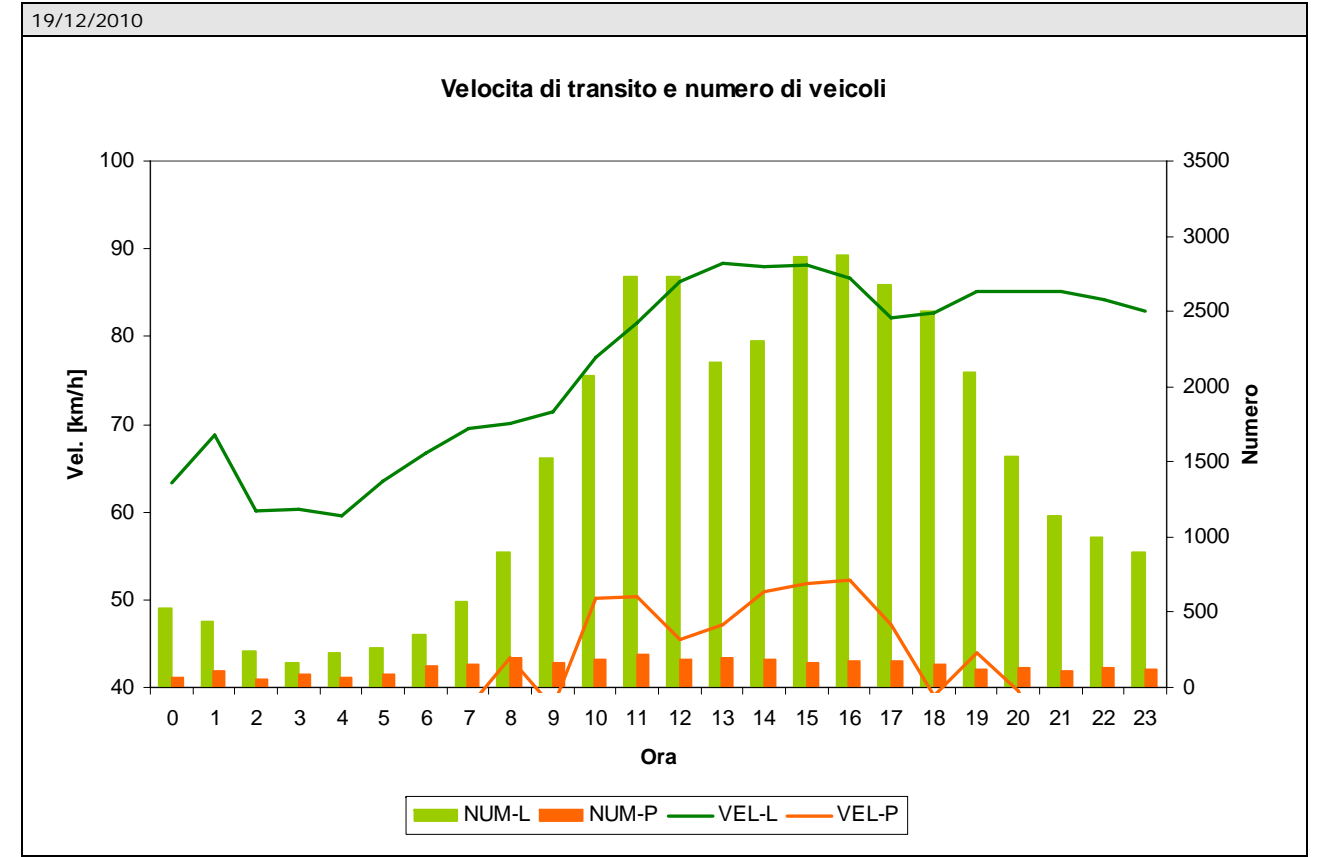
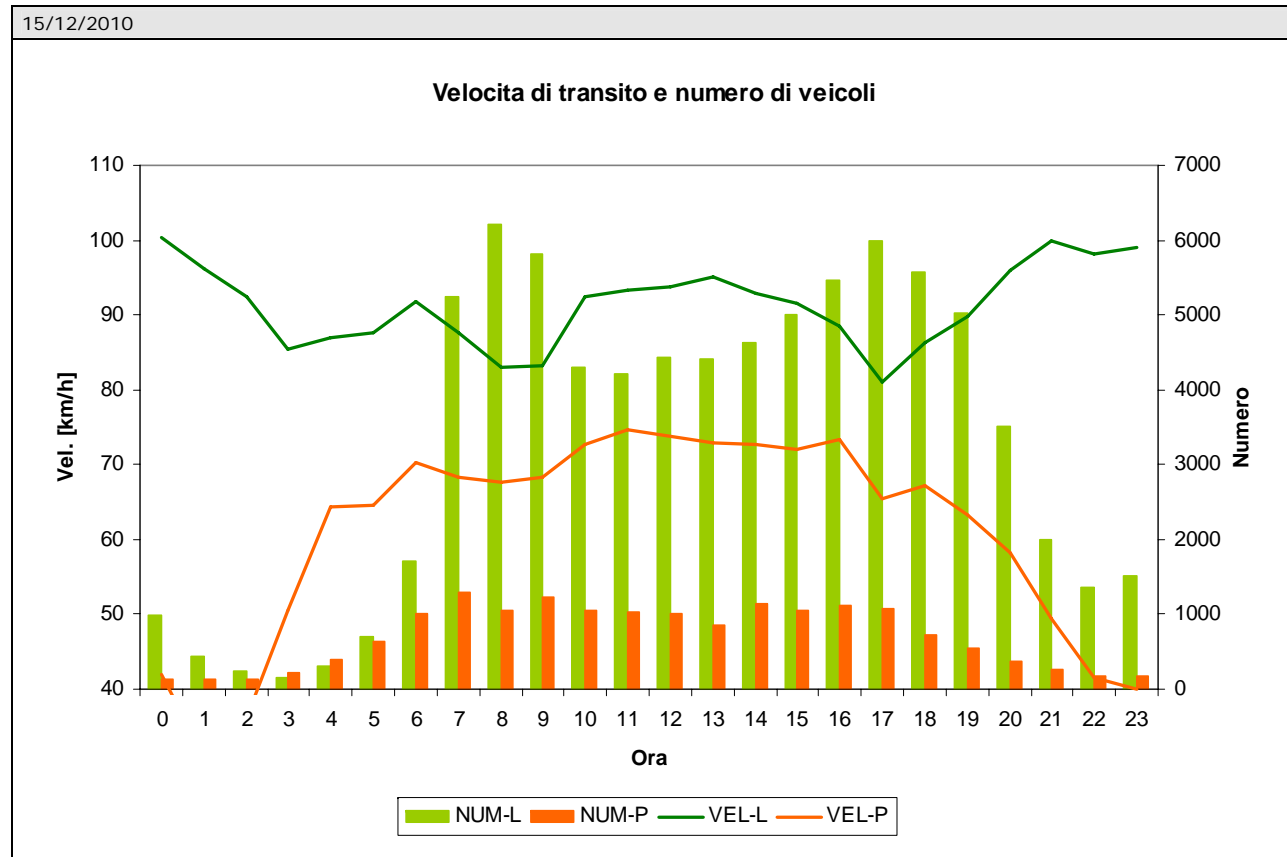




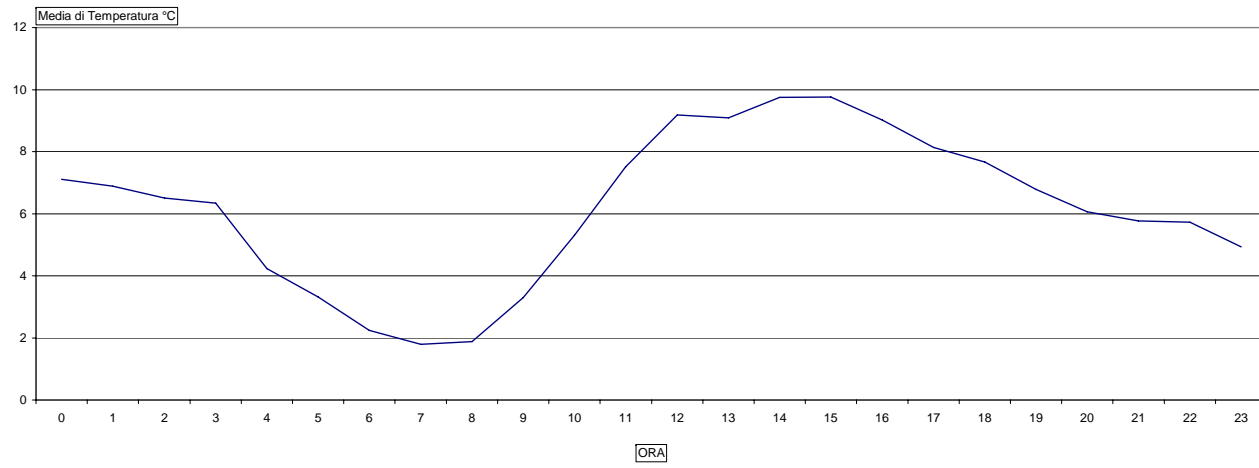




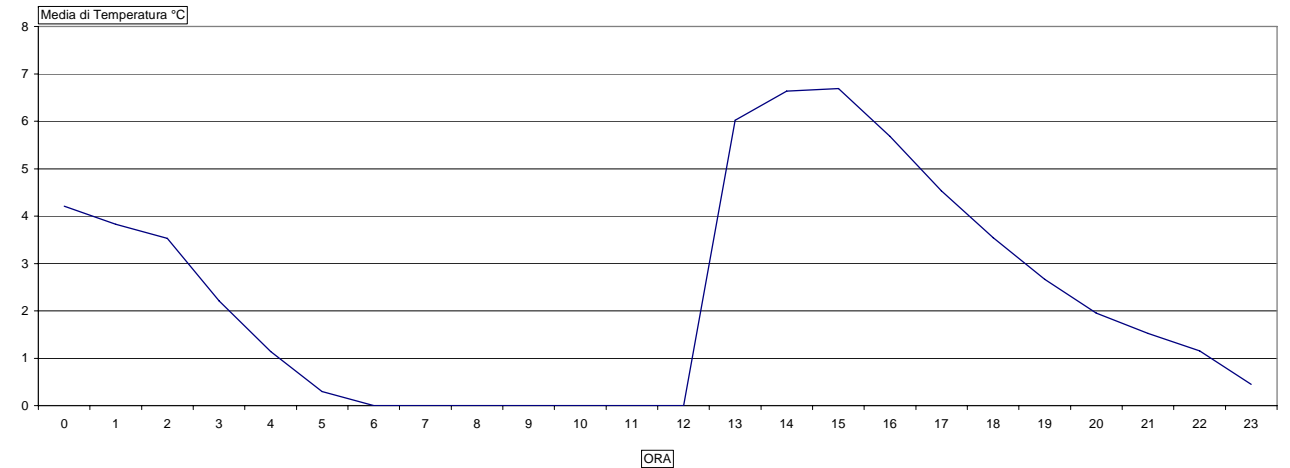




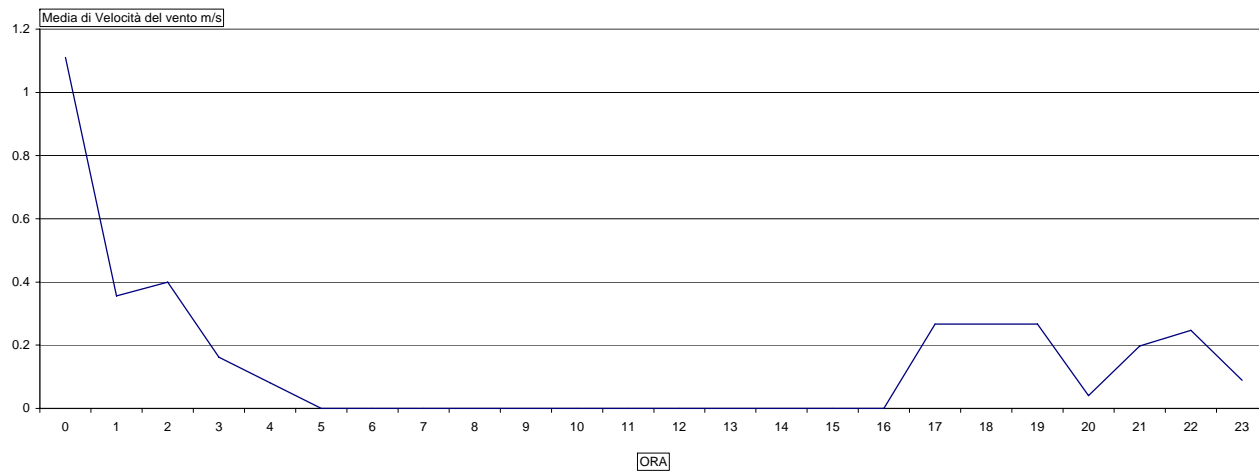
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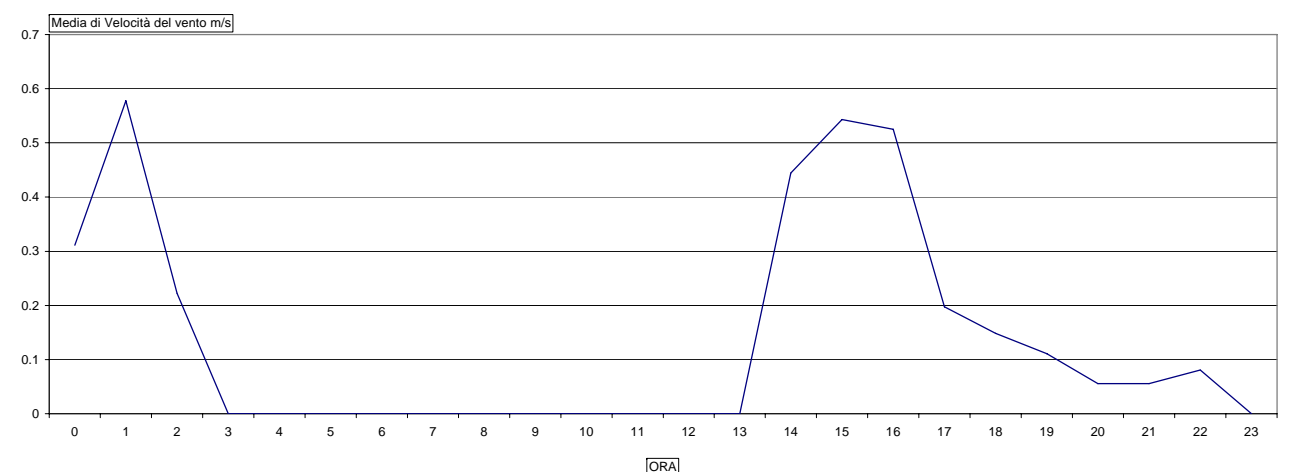
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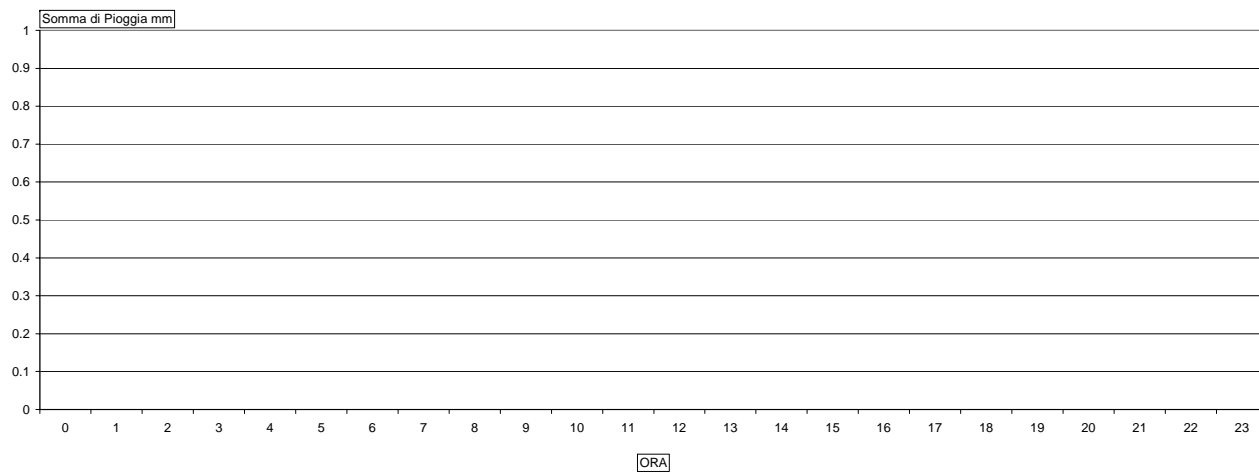
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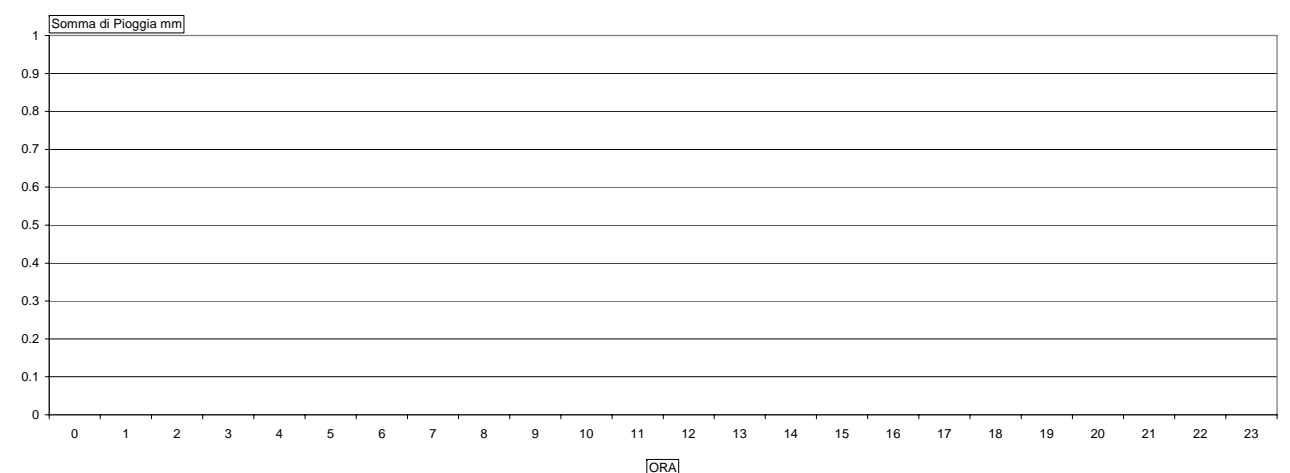
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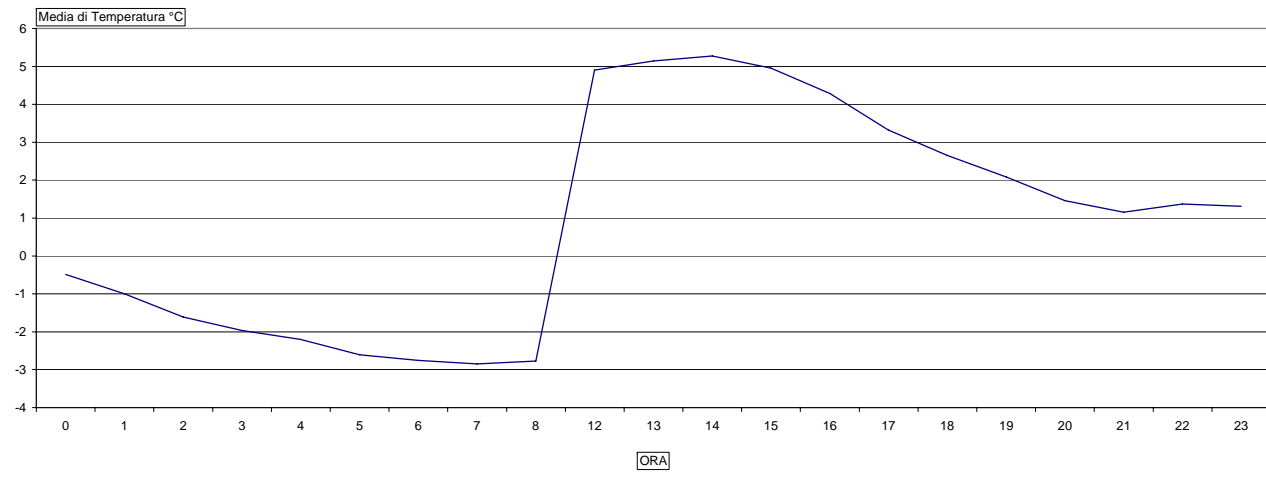
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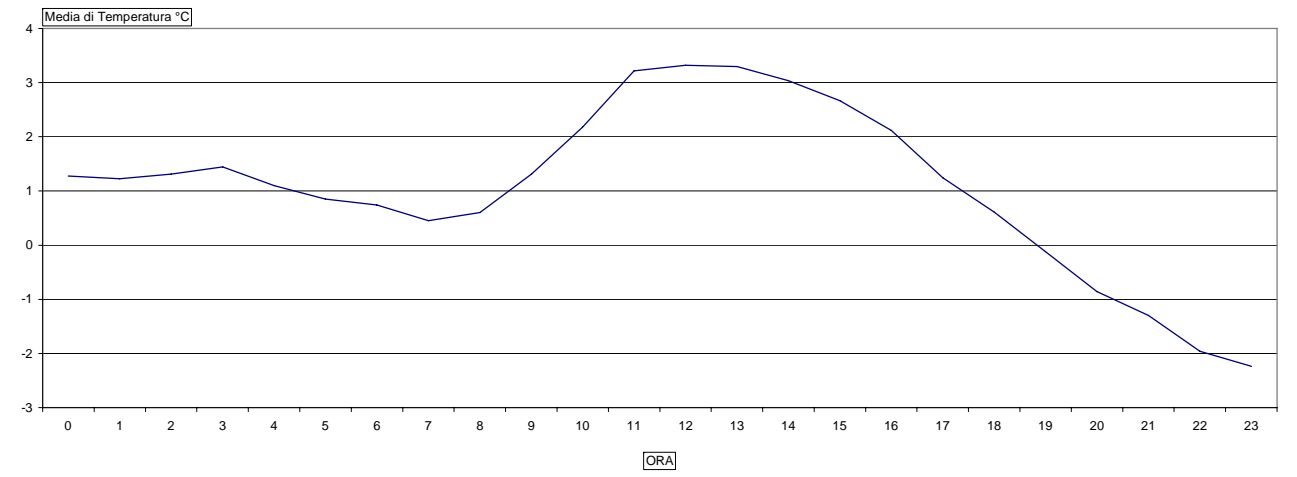
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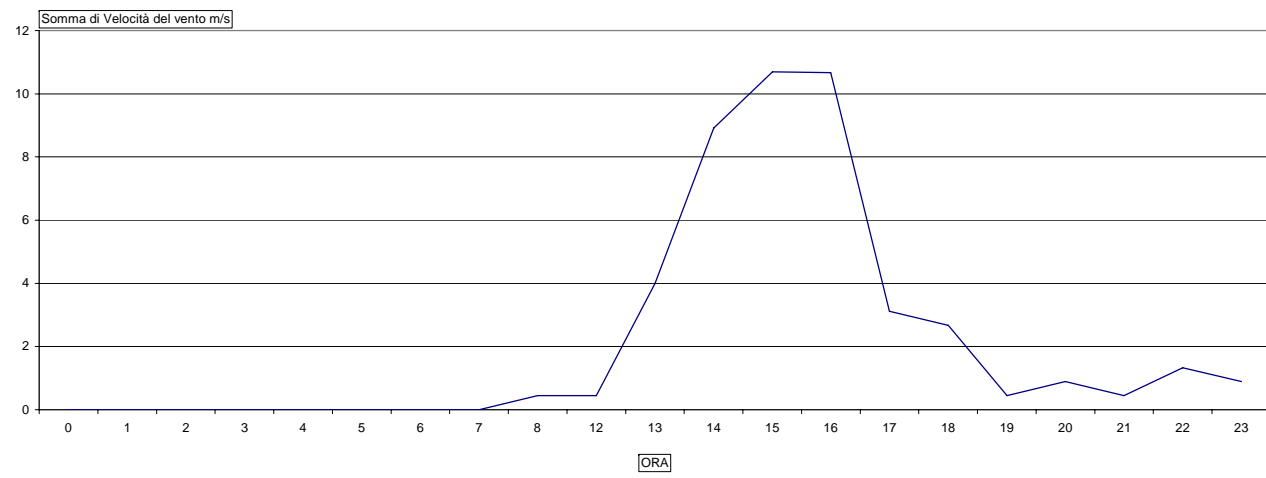
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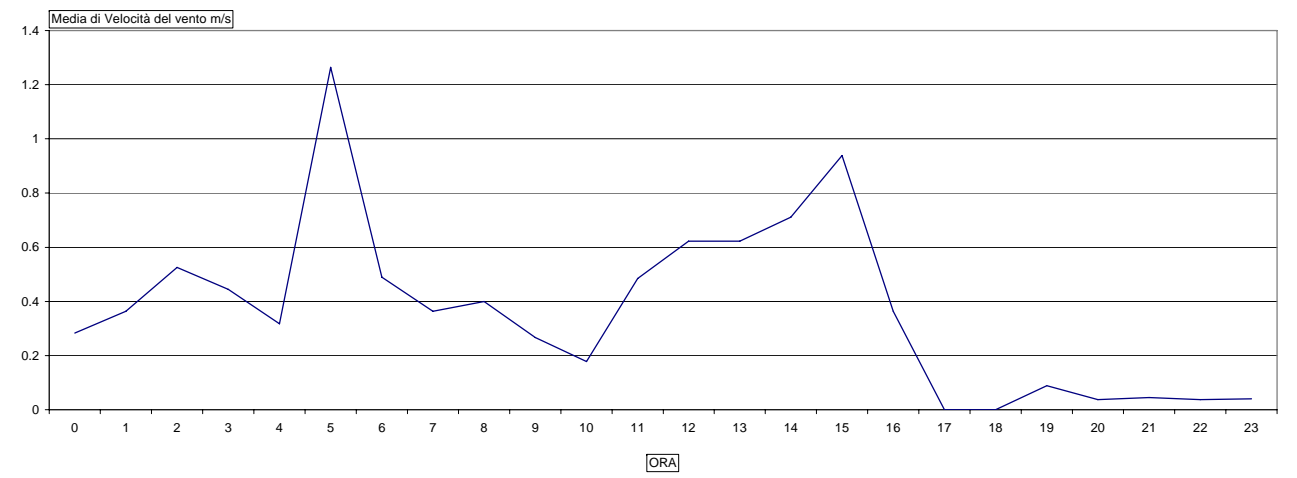
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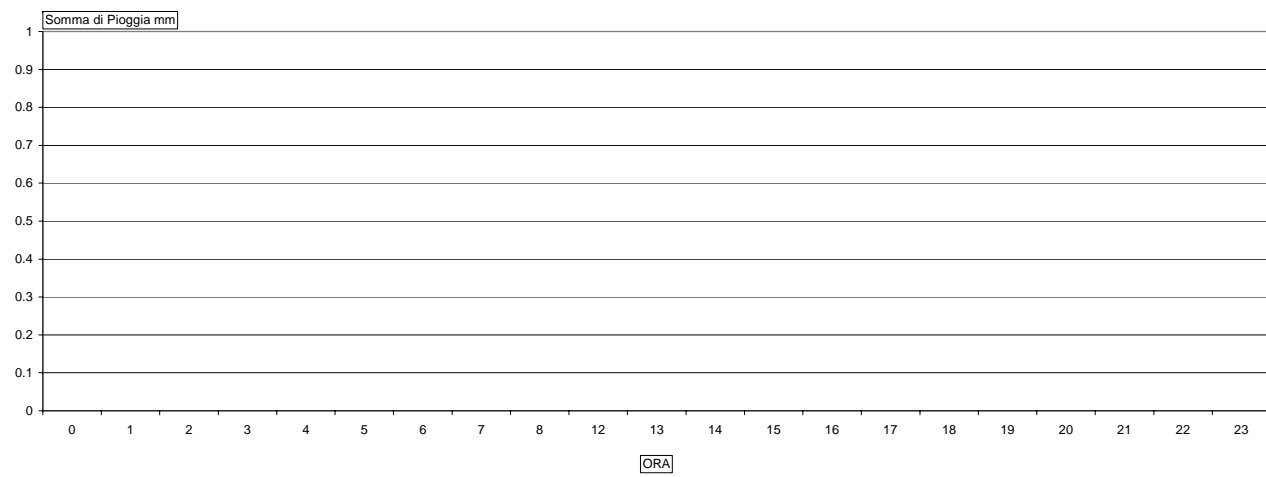
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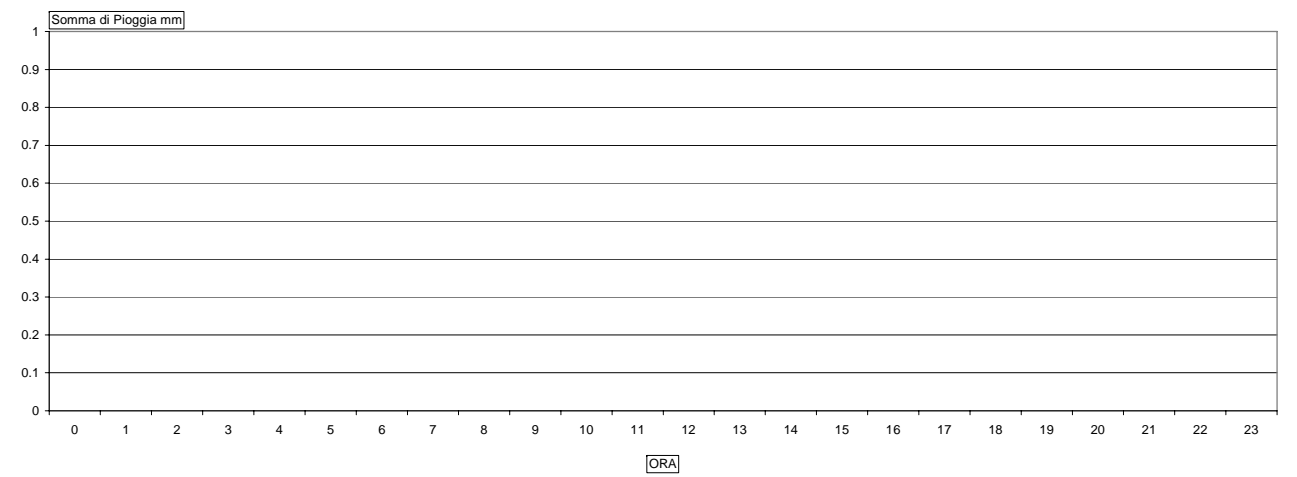
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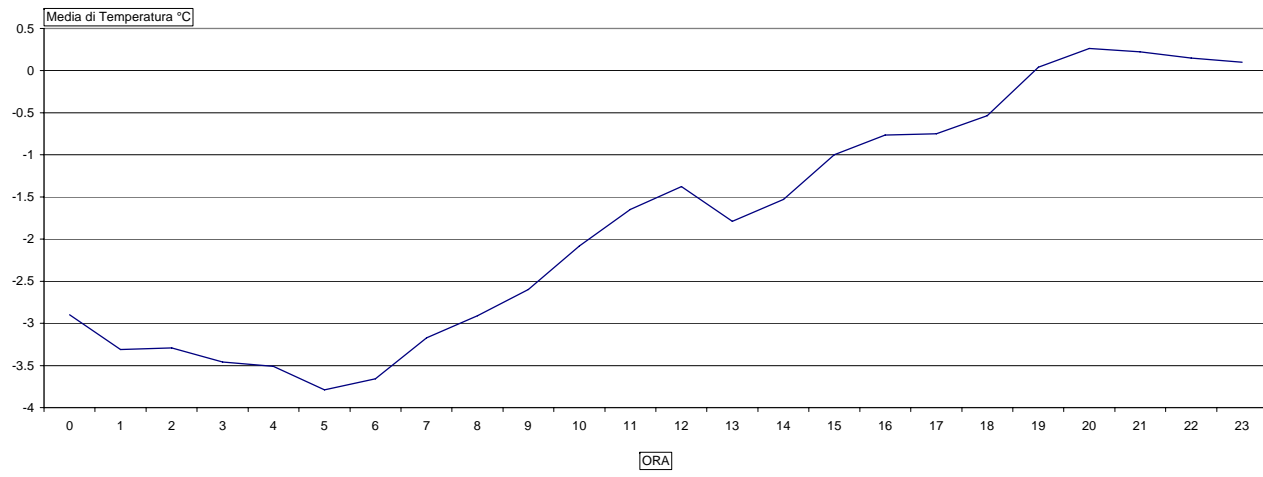
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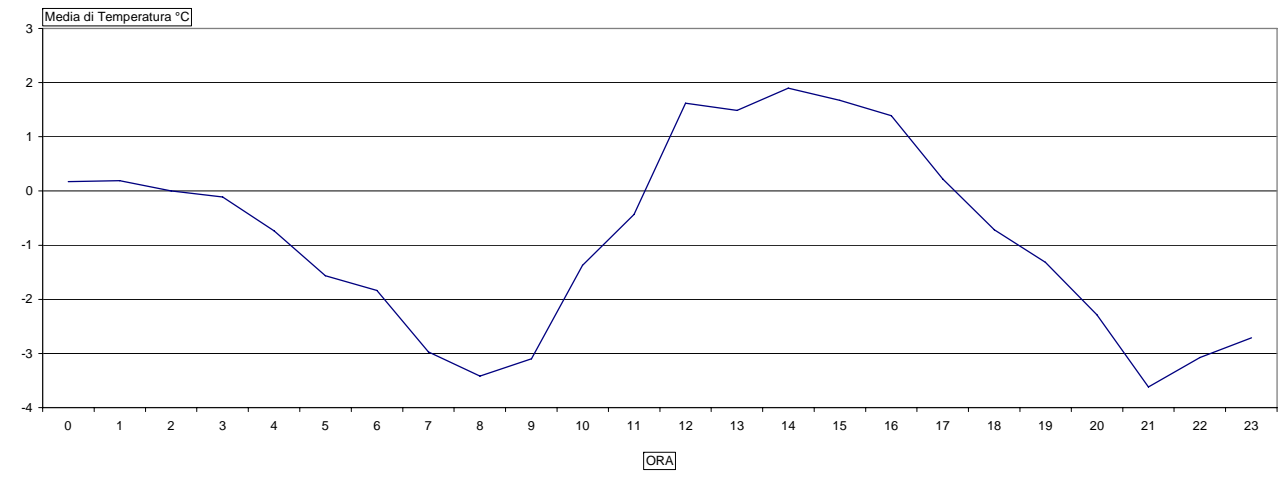
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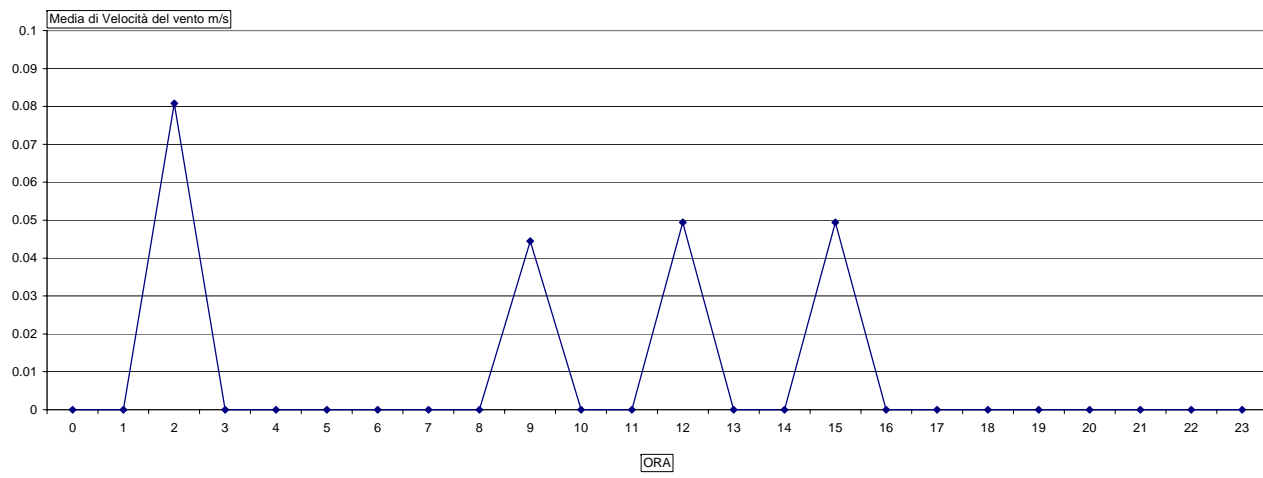
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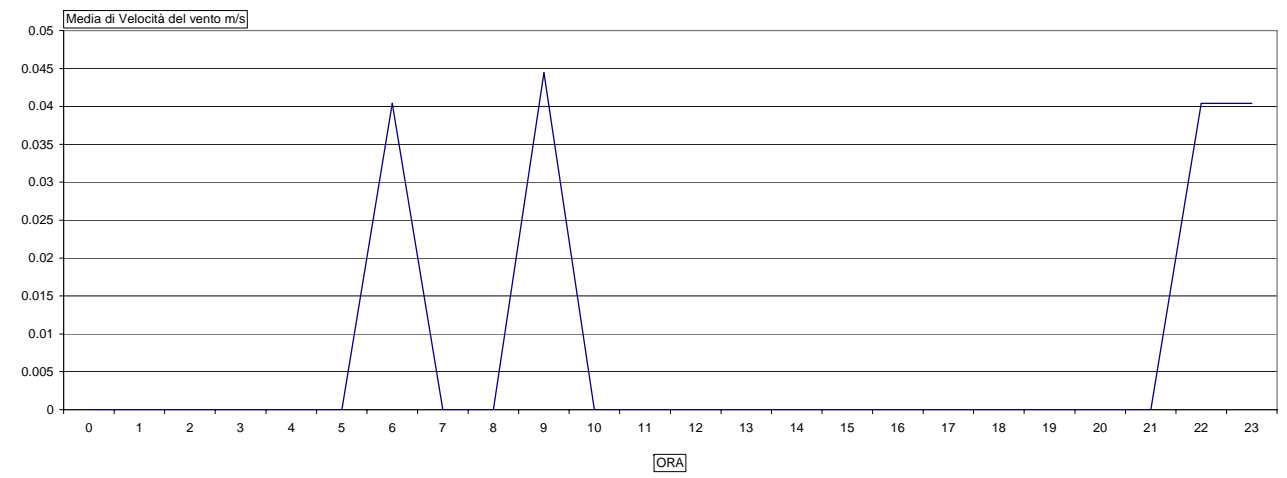
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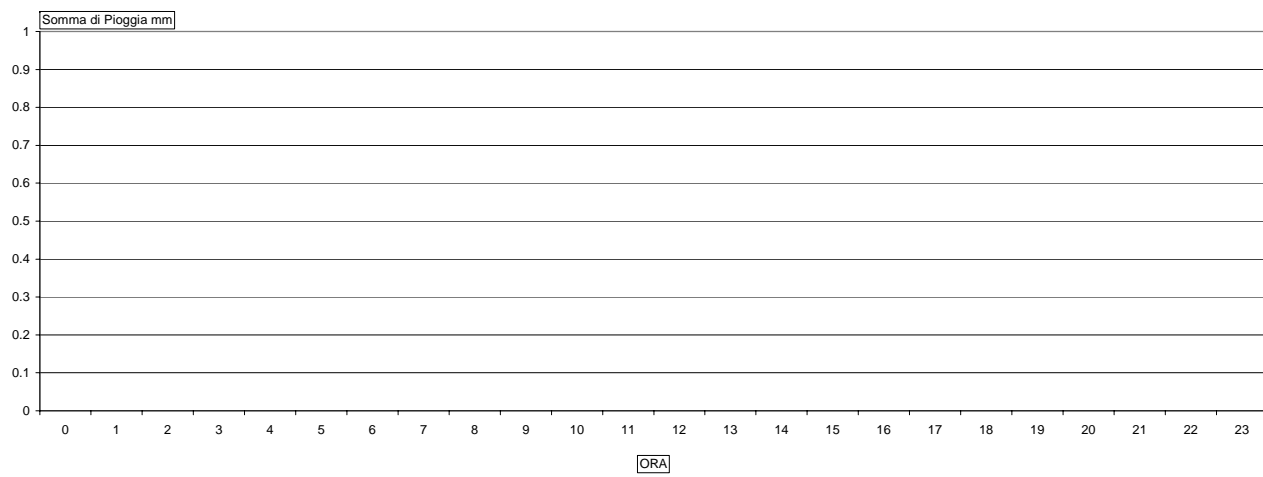
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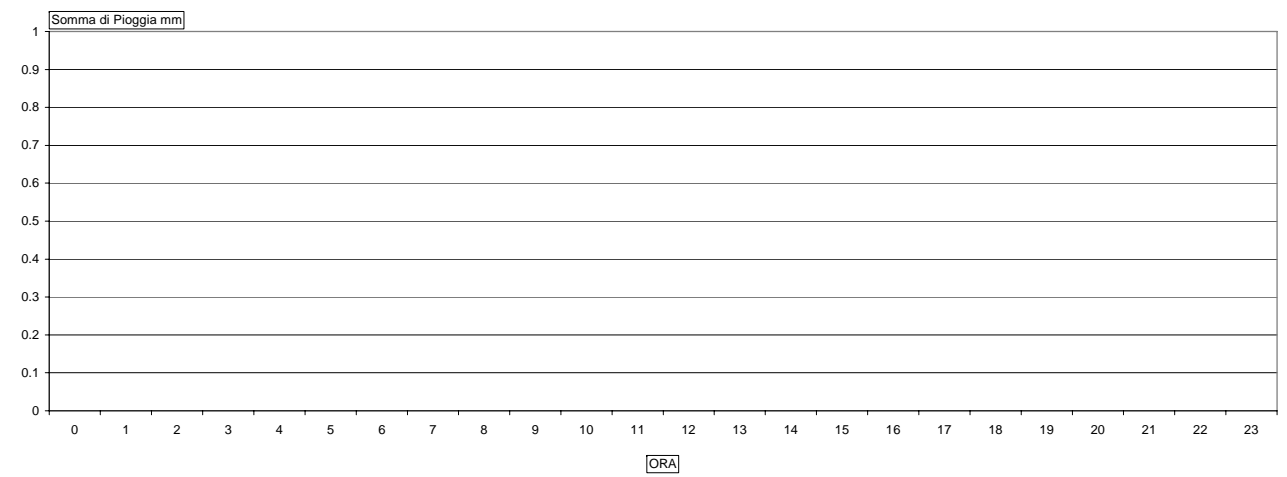
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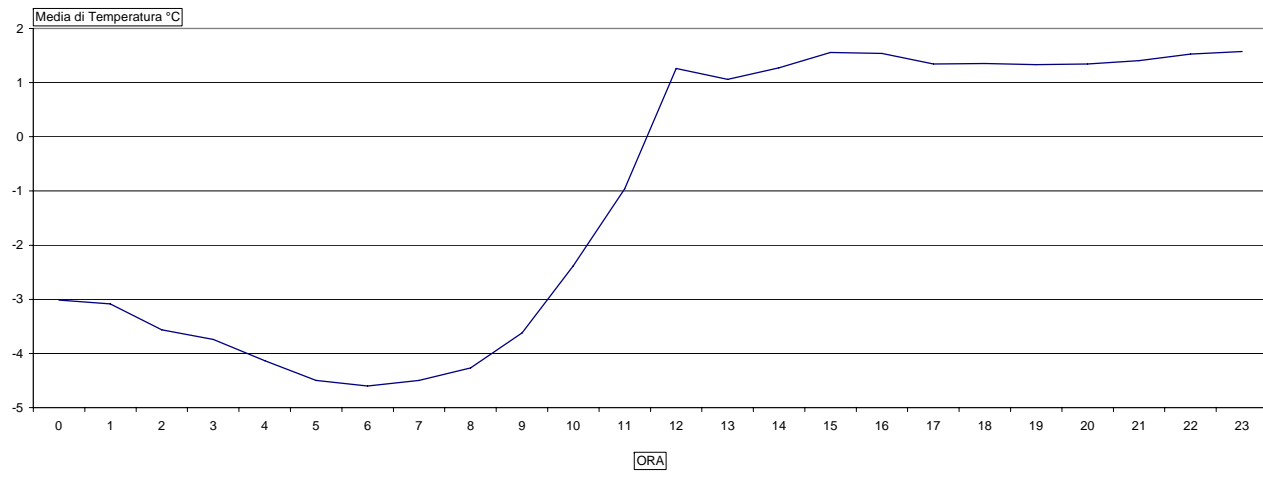
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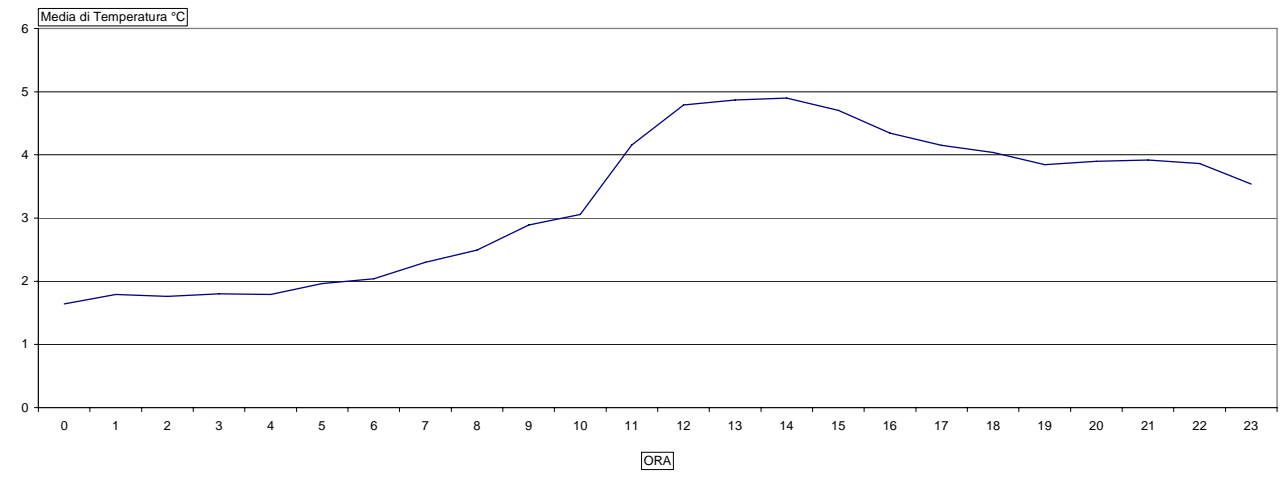
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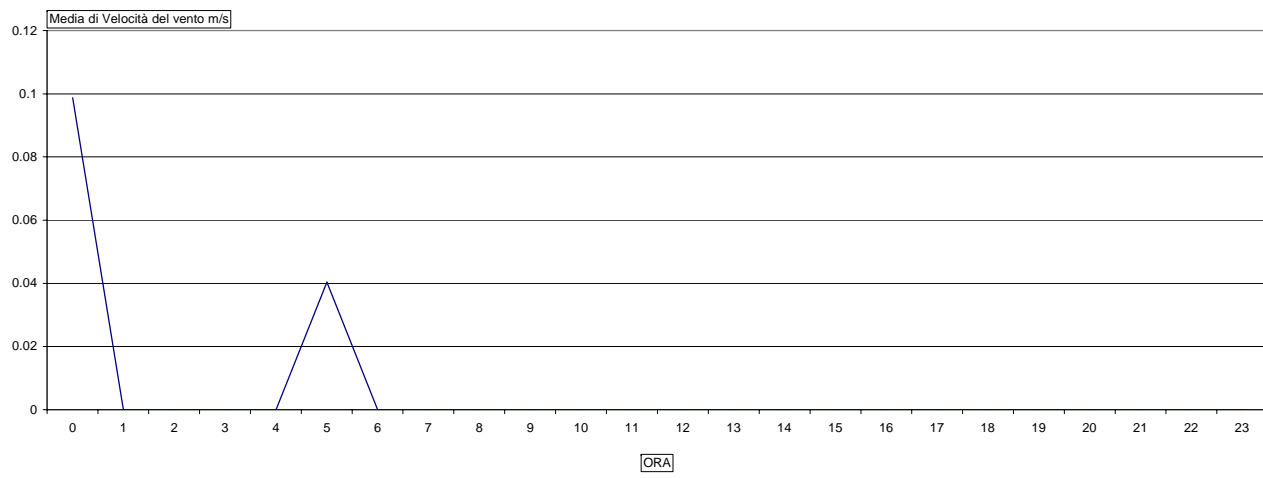
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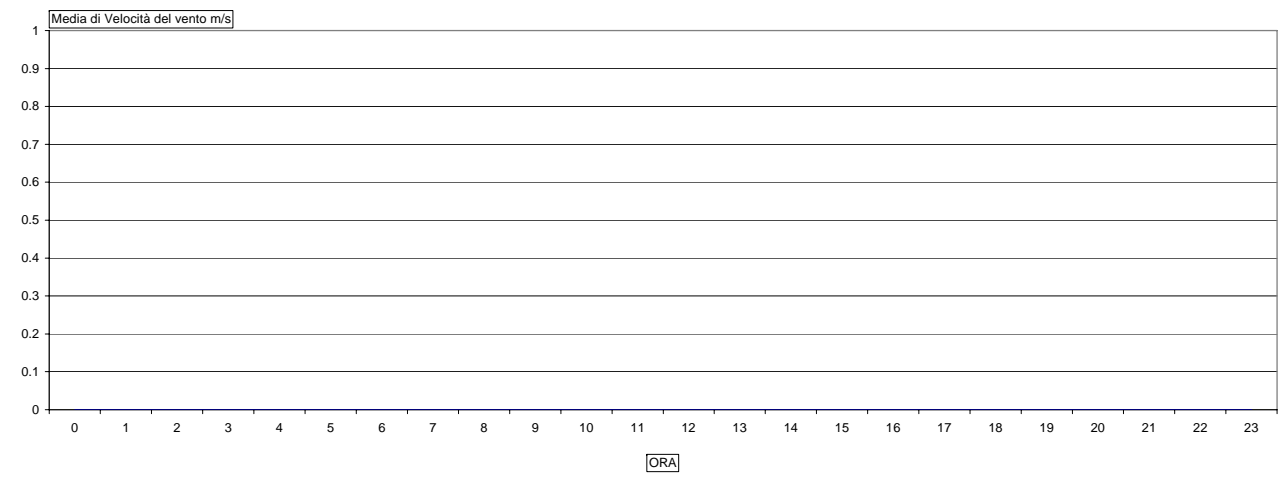
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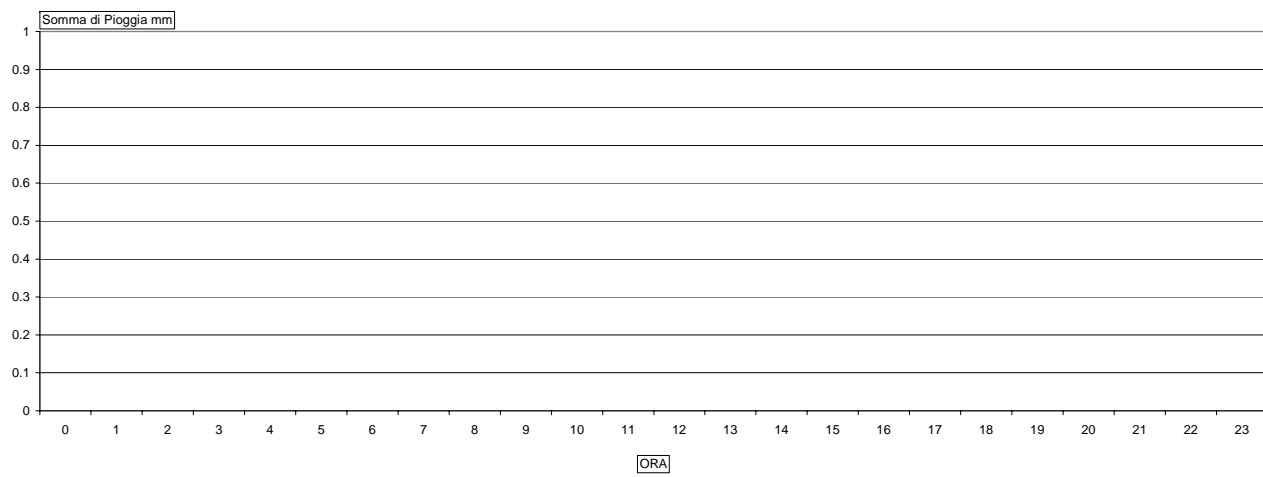
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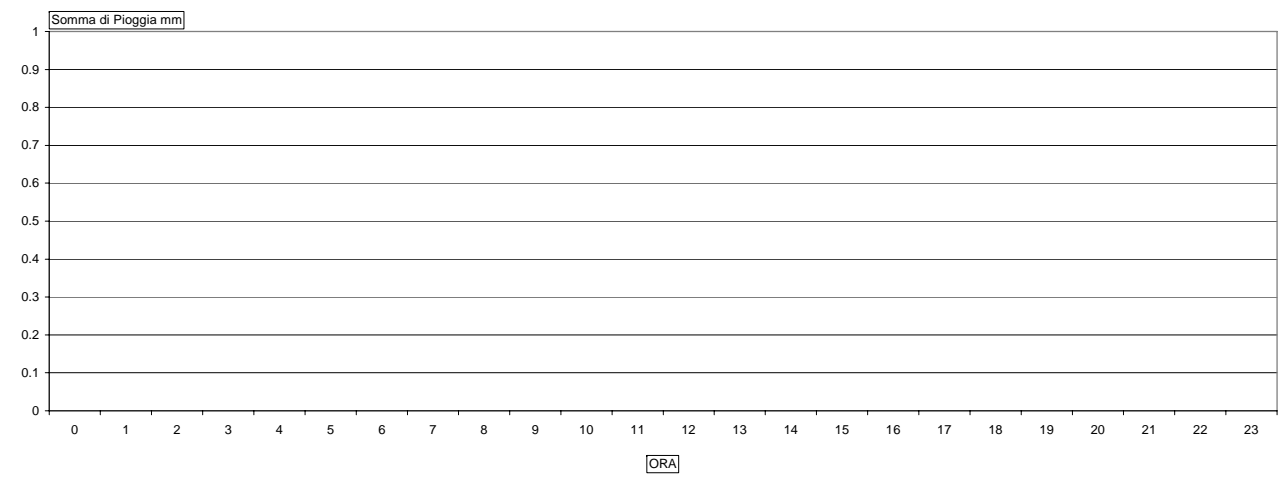
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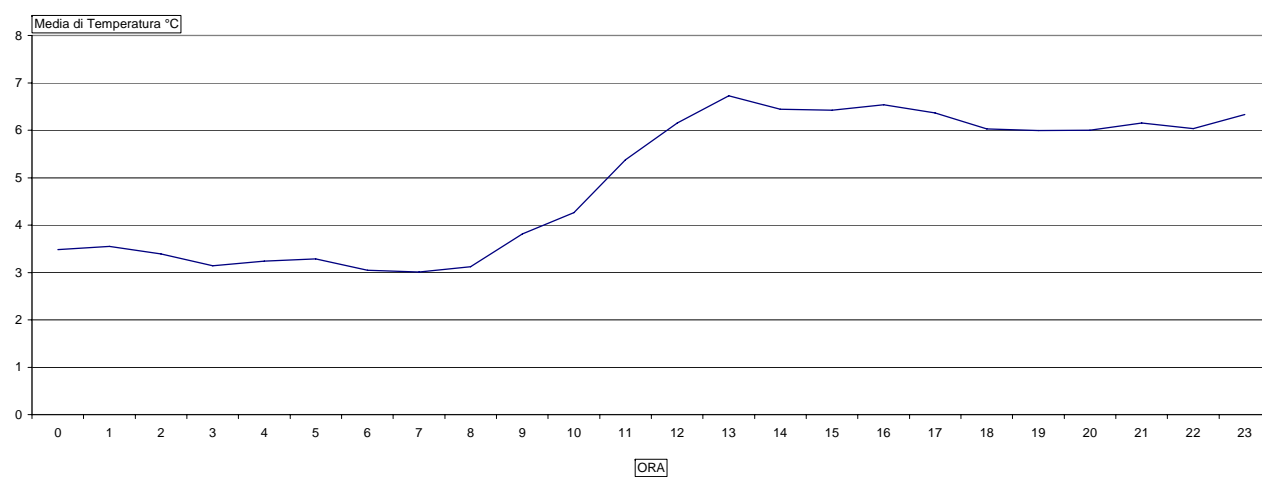
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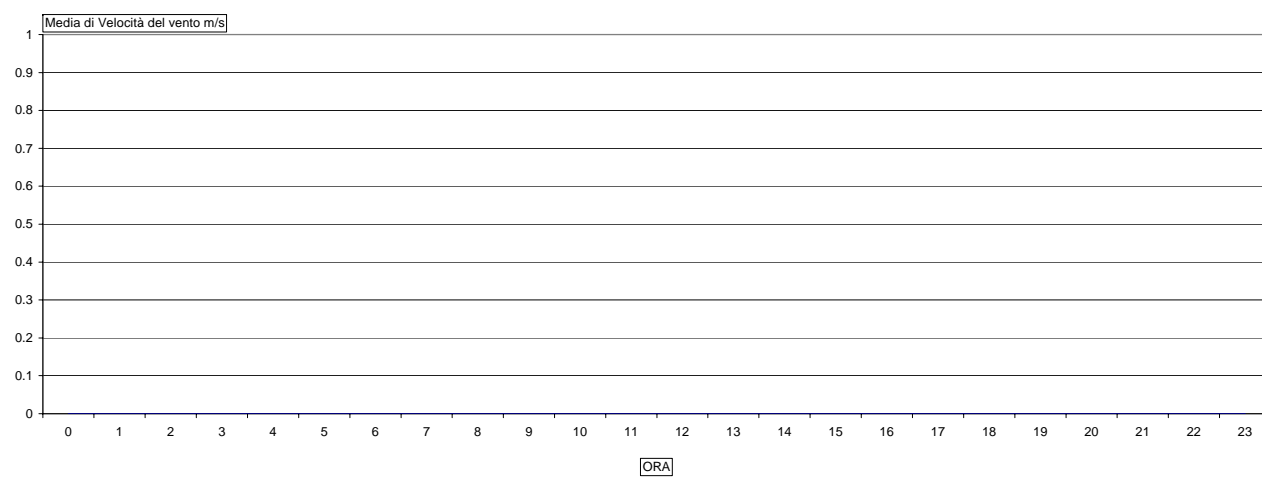
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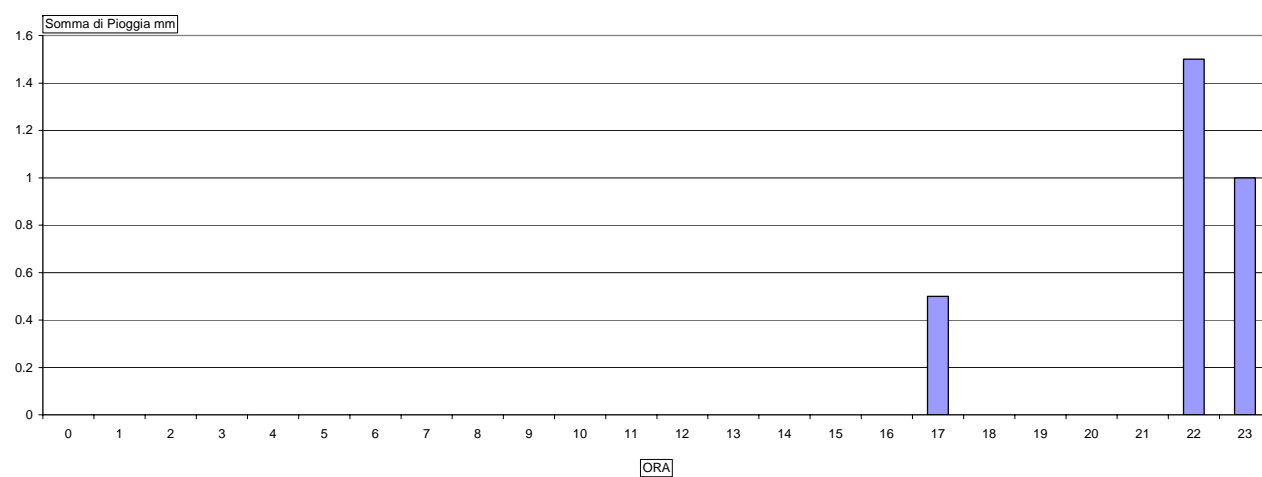
21/12/2010



21/12/2010

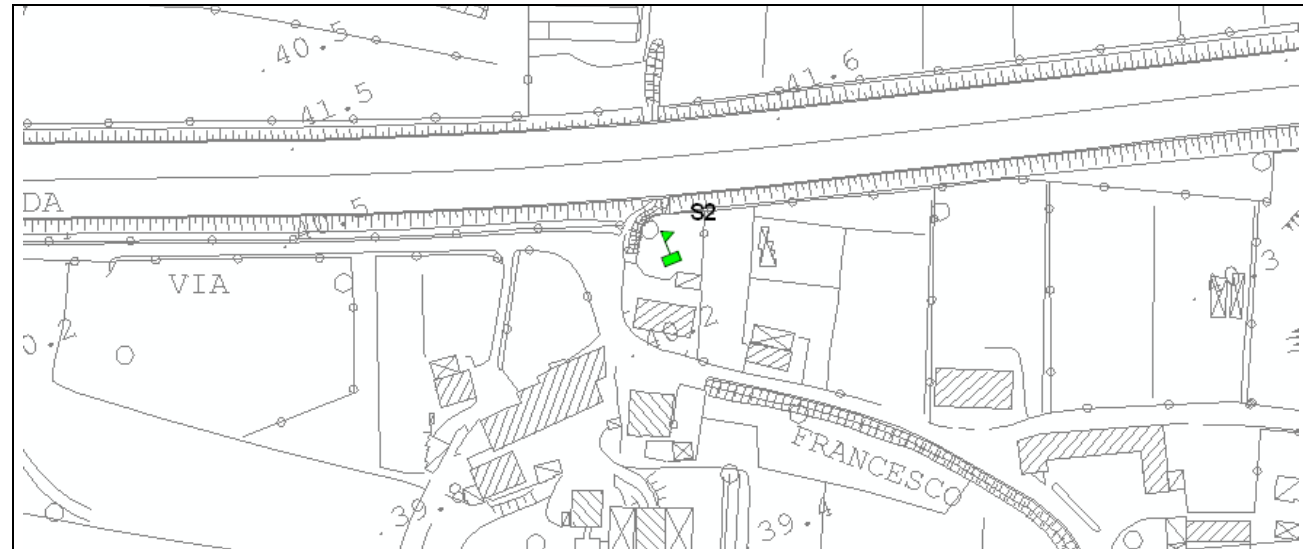


21/12/2010



Misura fonometrica S2

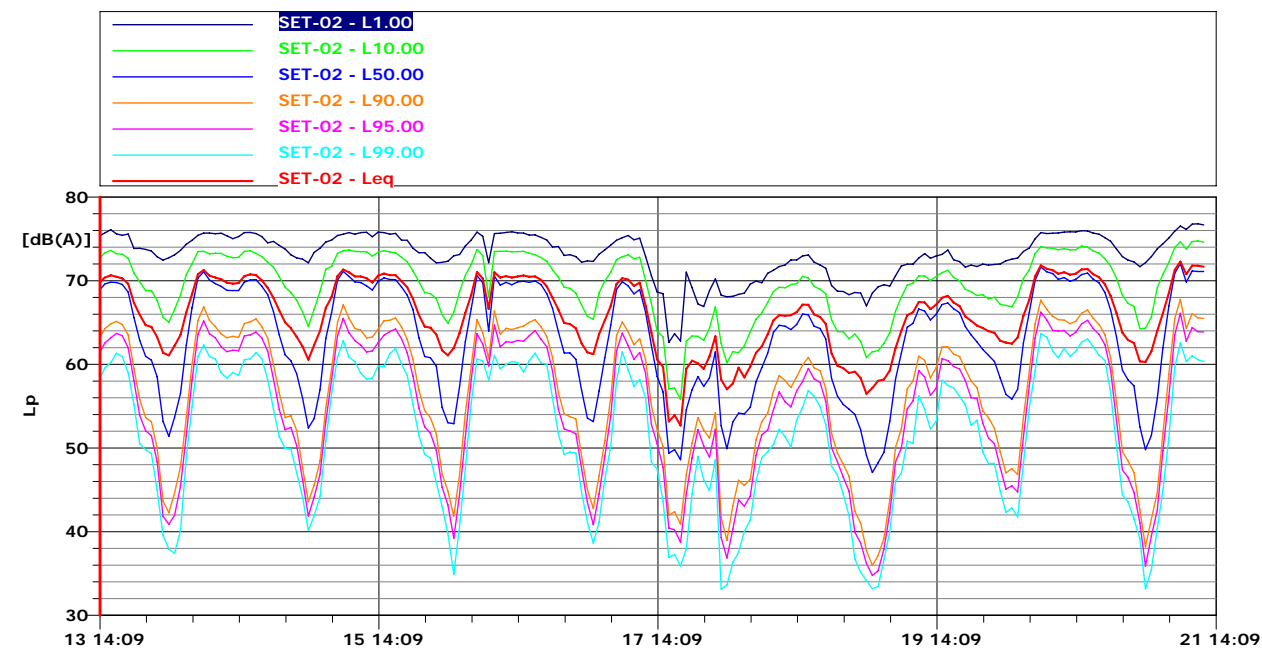
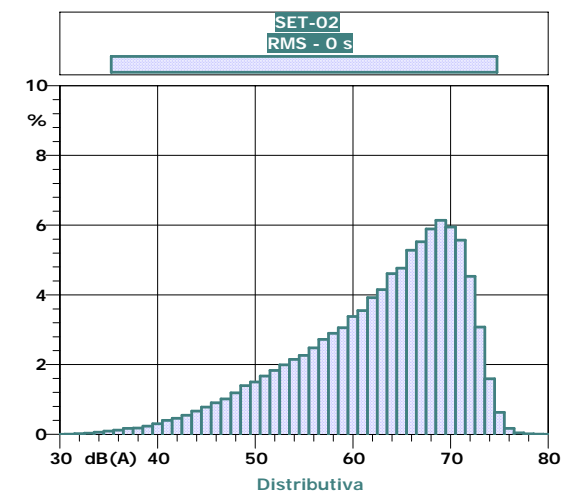
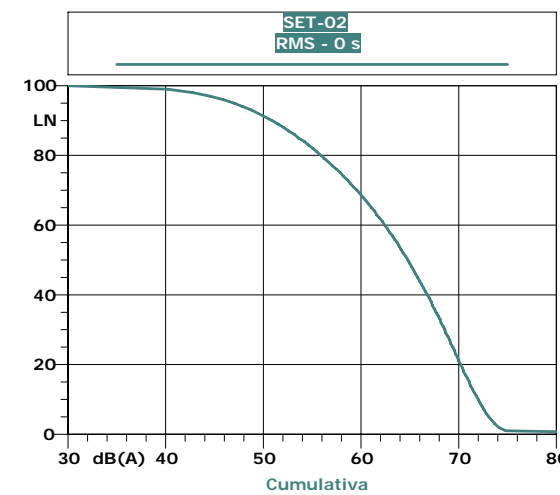
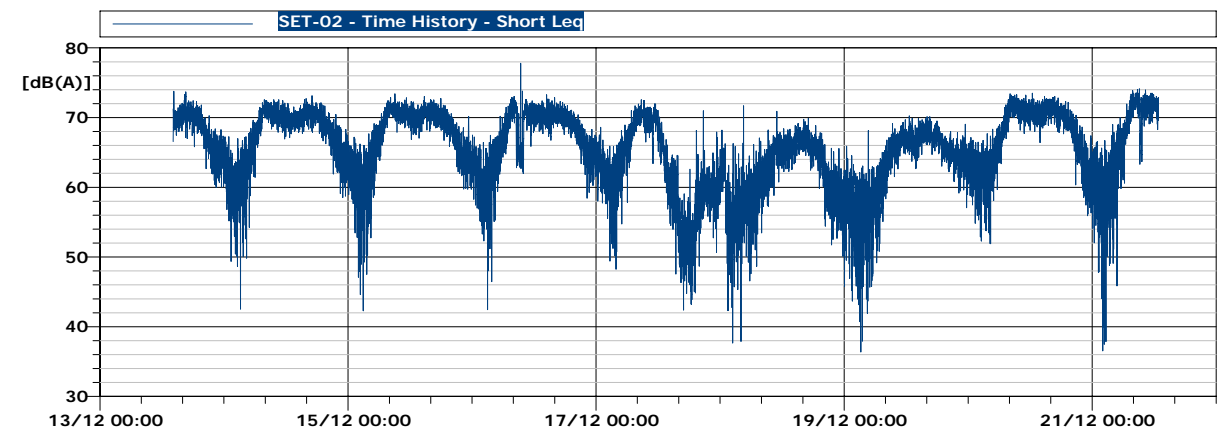
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Agliana (PT)	Inizio	13/12/2010	14:10
Indirizzo	Via Ferrucci	Fine	21/12/2010	12:49
Progressiva km	19+010	Fonometro	Larson Davis 824	S. N. A0510
Distanza infrastruttura	15 [m]	Tipologia tracciato	Rilevato	
Nome infrastruttura	Autostrada A11	Tipologia asfalto	Drenante	

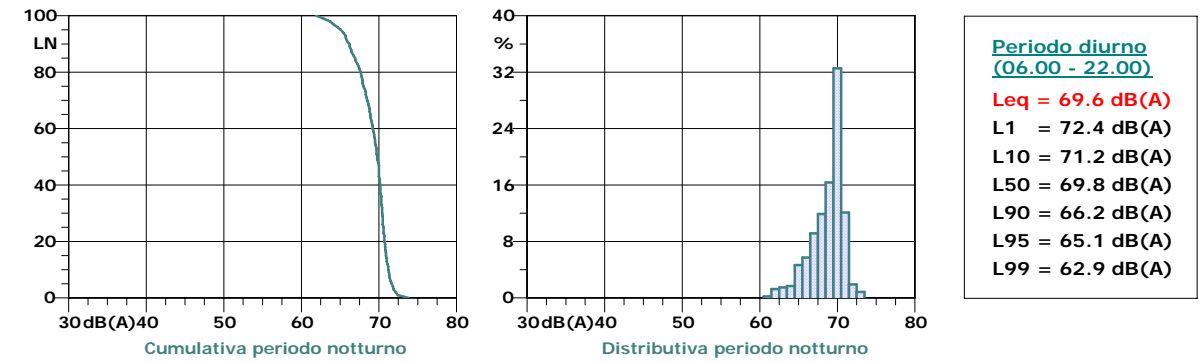
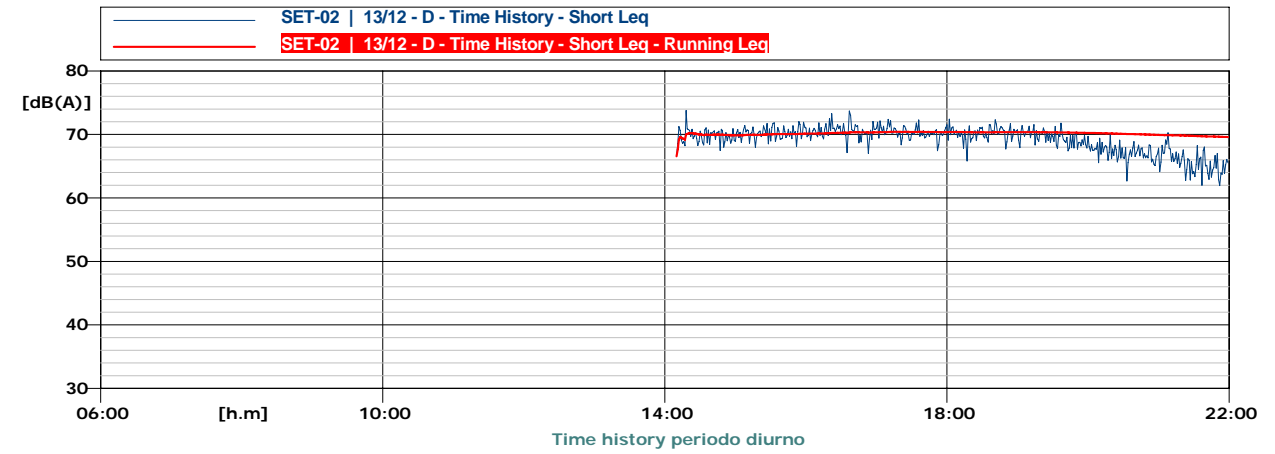
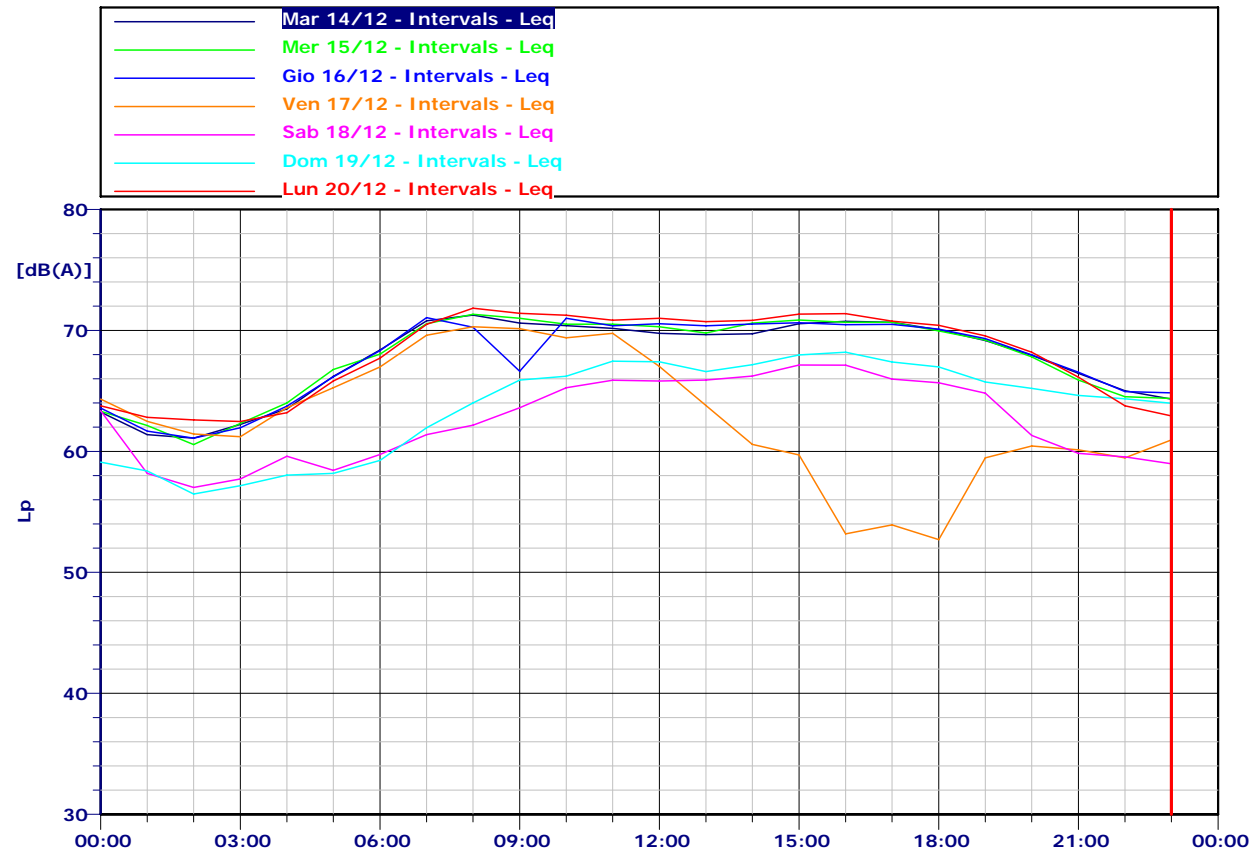


MISURA	PERIODO	MAR 14/12	MER 15/12	GIO 16/12	VEN 17/12	SAB 18/12	DOM 19/12	LUN 20/12	MEDIA	
Livelli sonori	Diurno 06 - 22	69.9	70.1	69.9	69.5	- *	66.3	70.5	68.9	[dB(A)]
	Notturmo 22 - 06	64.0	63.7	63.8	- *	58.4	63.8	63.1	62.5	
Numero veicoli	Diurno 06 - 22	42102	42789	45162	-	-	24335	38109	38499	Leggeri
		12695	12696	13110	-	-	2602	11703	10561	Pesanti
	Notturmo 22 - 06	2812	3237	3625	-	-	3155	2798	3125	Leggeri
		1478	1483	1552	-	-	791	1758	1412	Pesanti

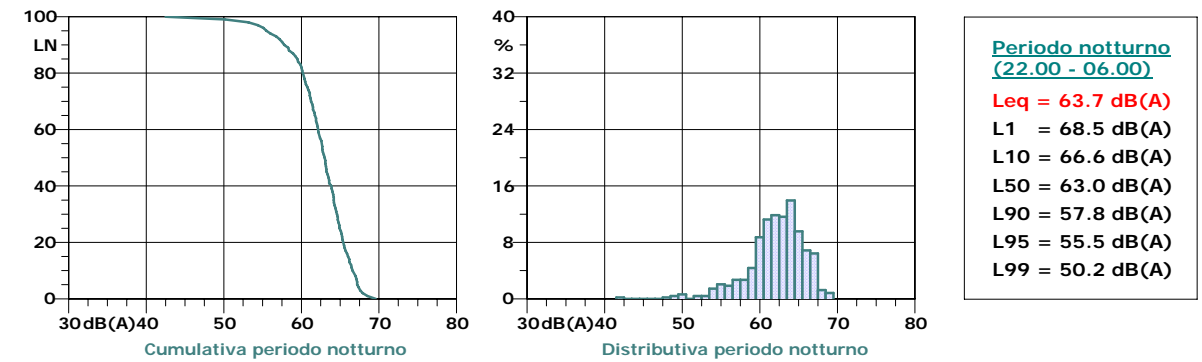
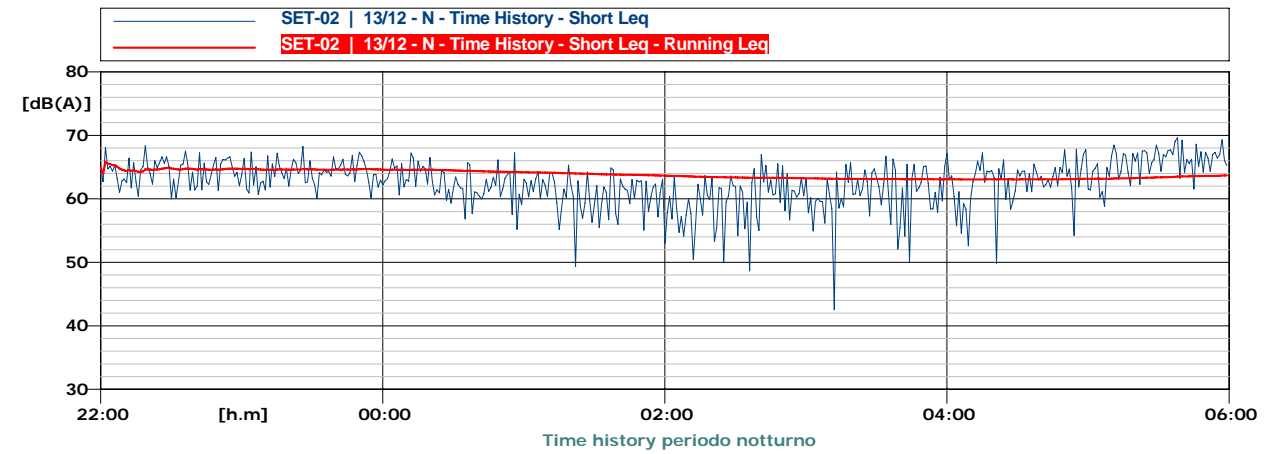
NOTE GENERALI
 - Non disponibile
 * Mascheratura durante condizioni meteo incompatibili (neve, pioggia)

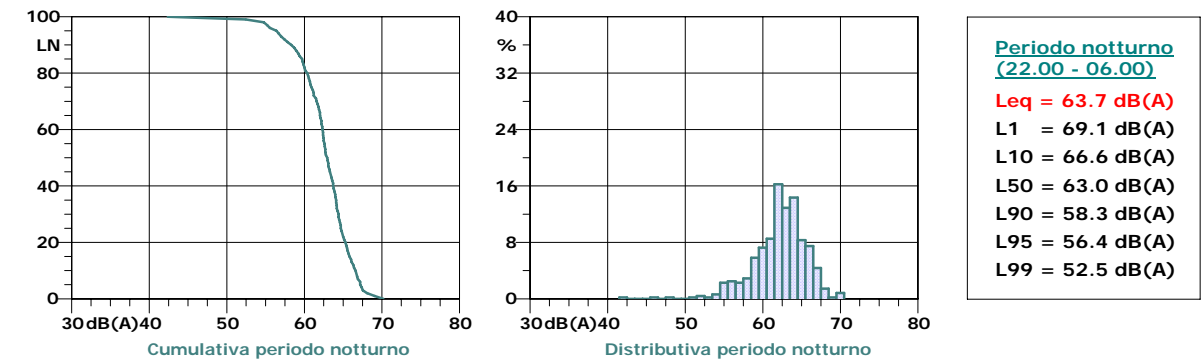
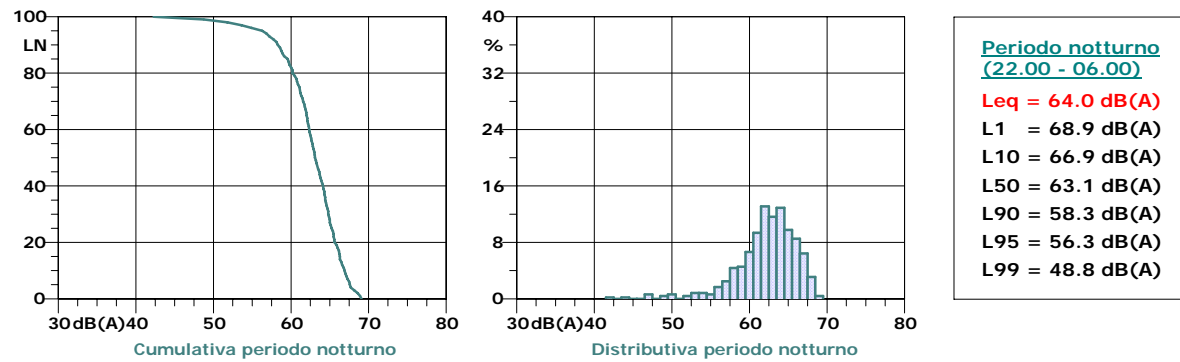
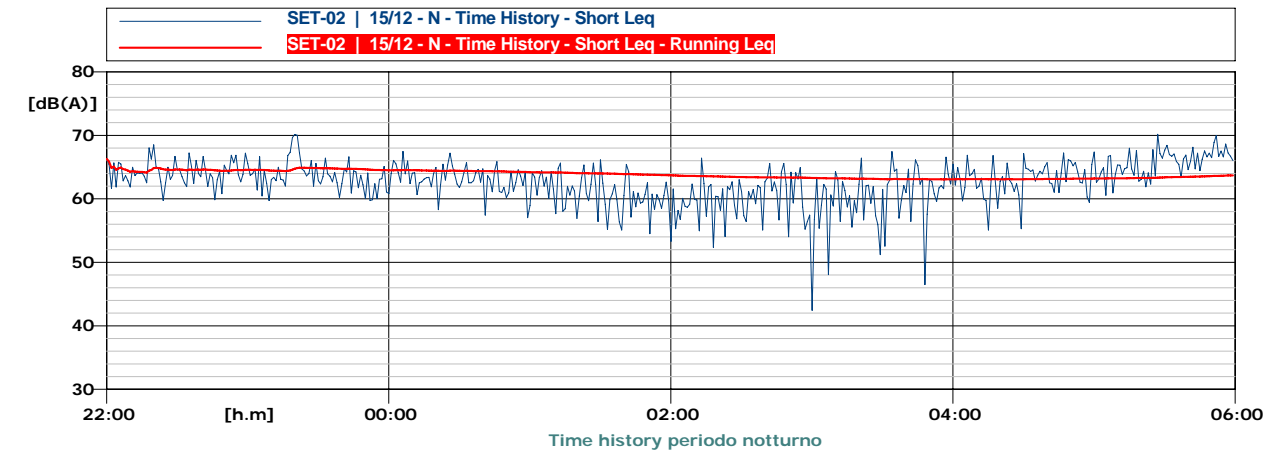
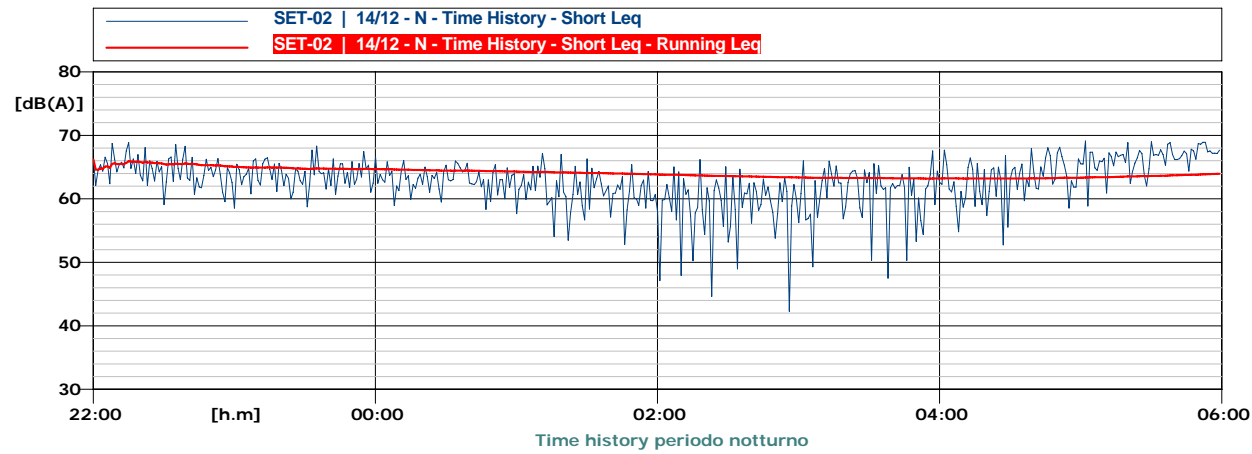
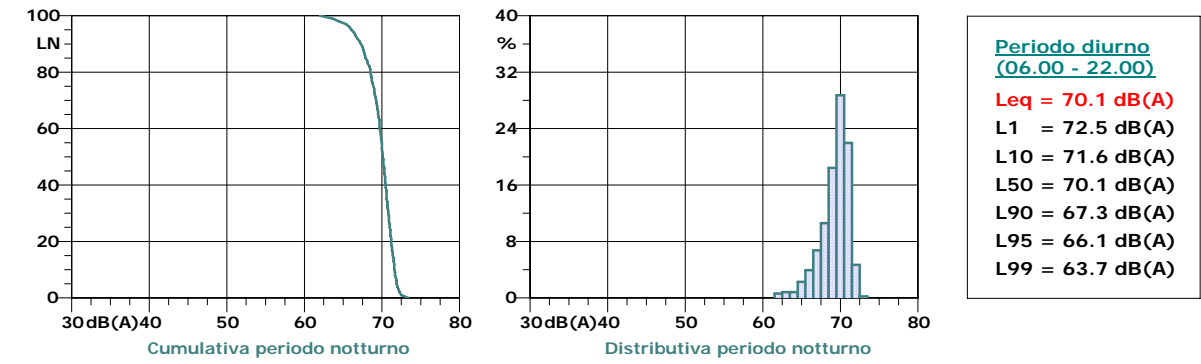
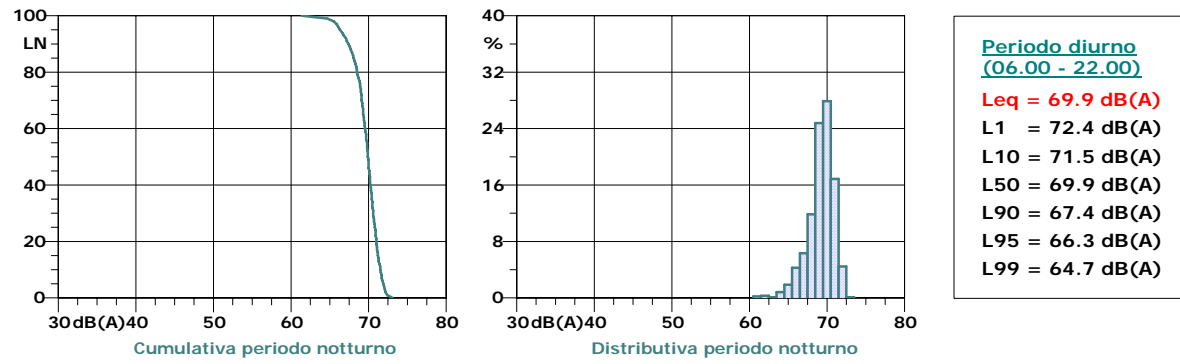
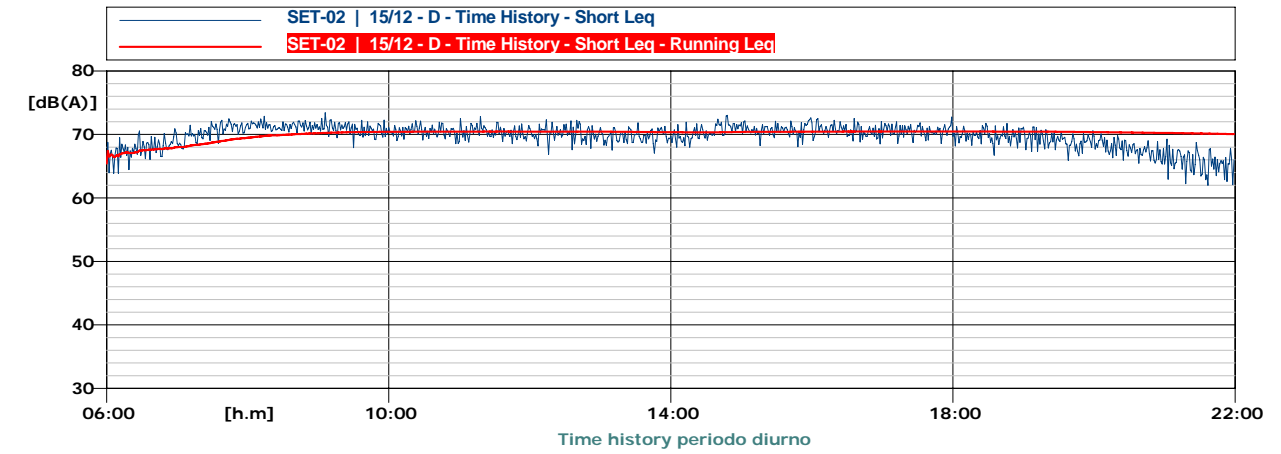
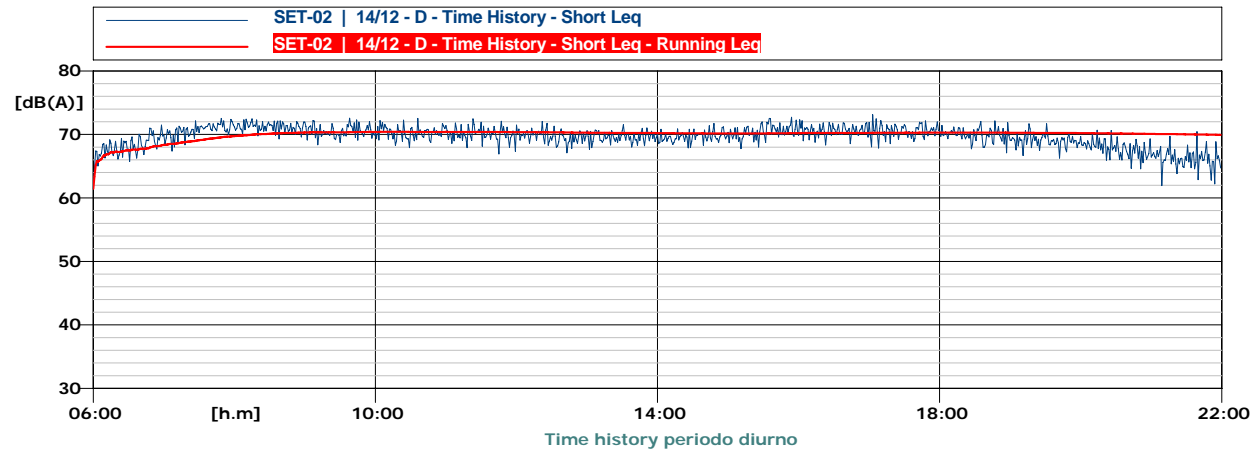
TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>

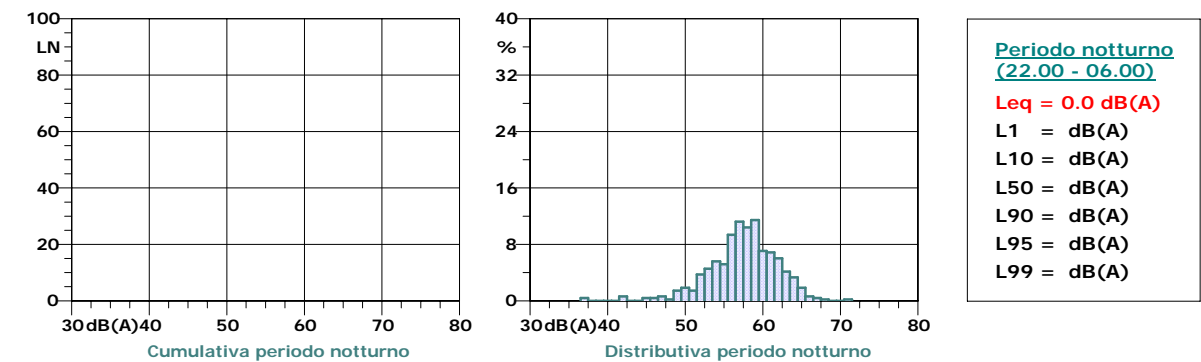
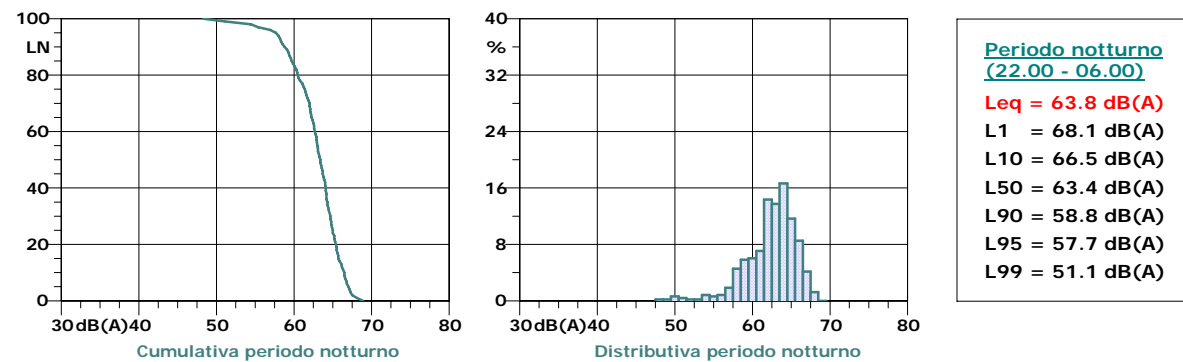
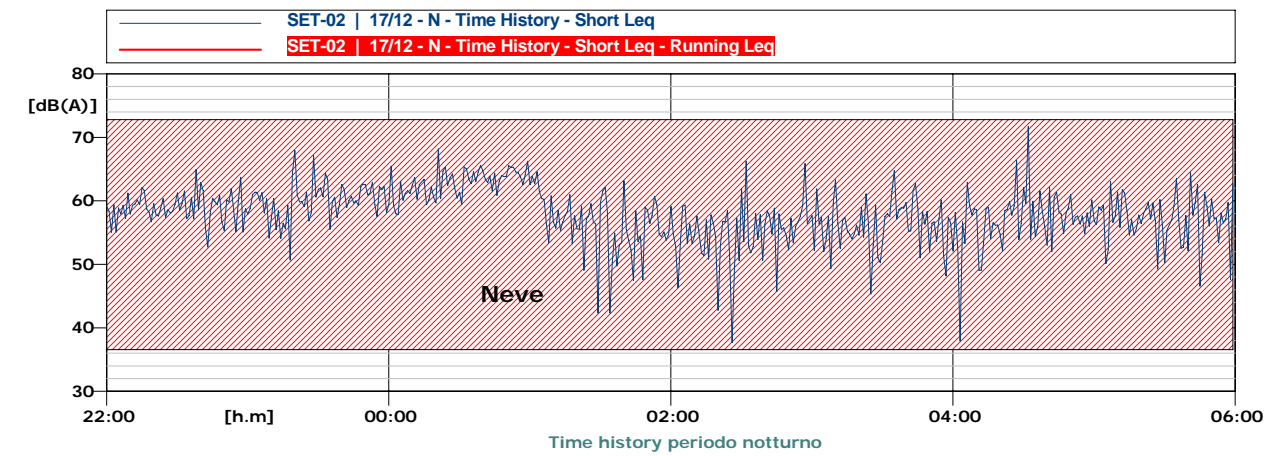
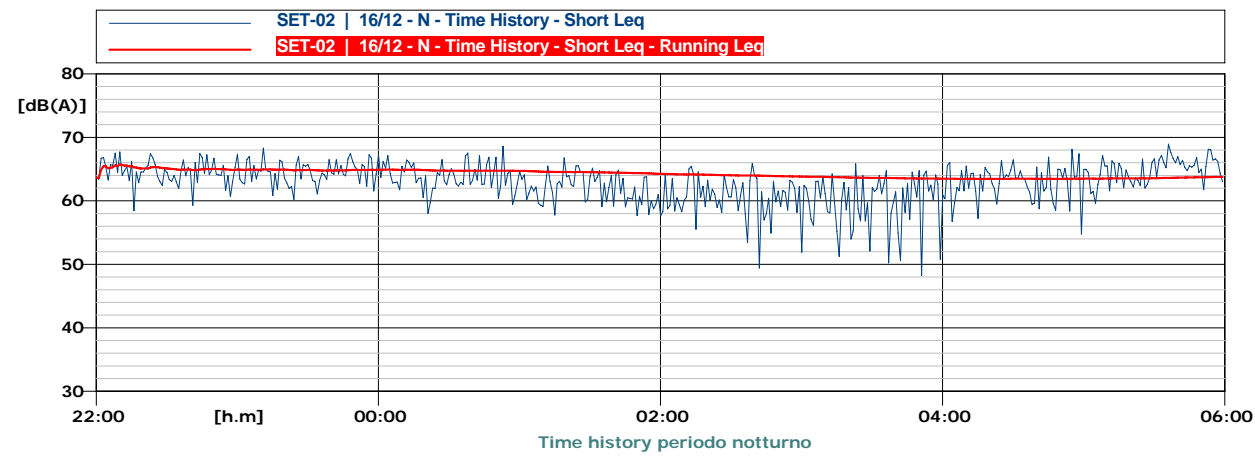
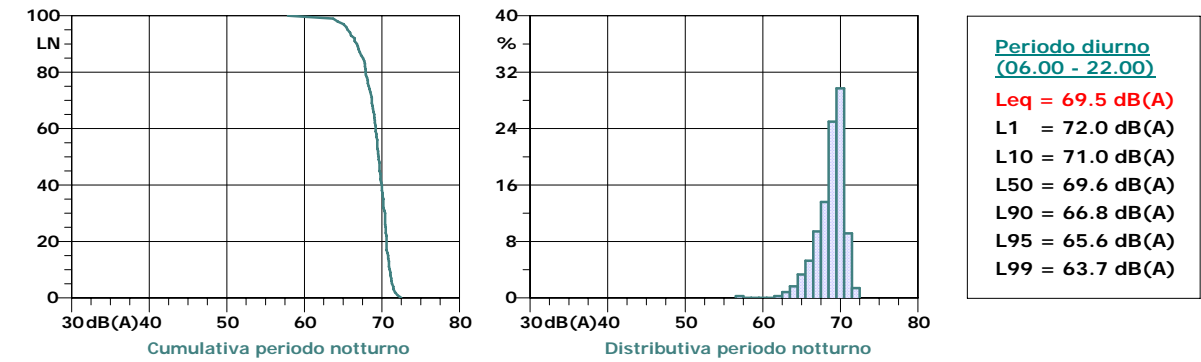
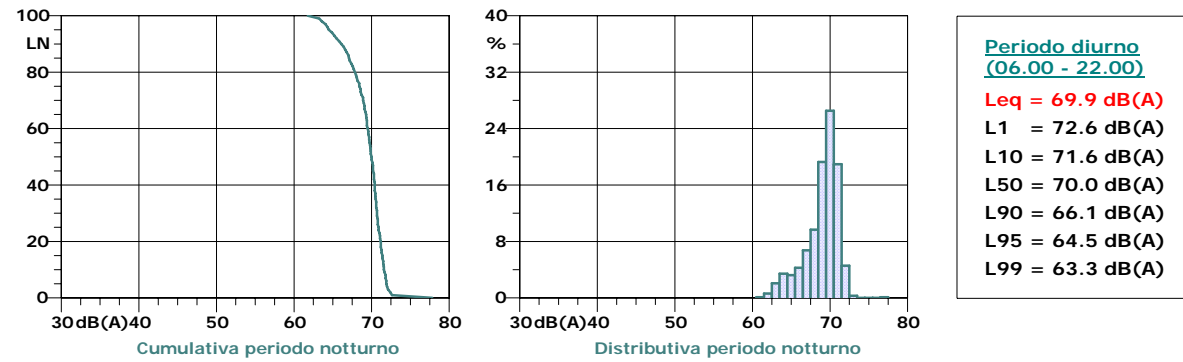
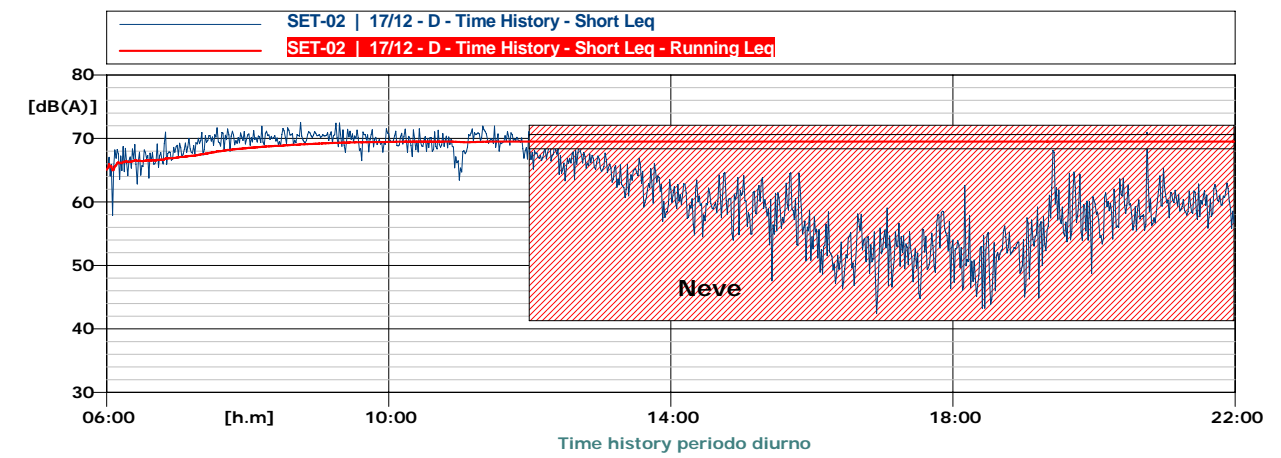
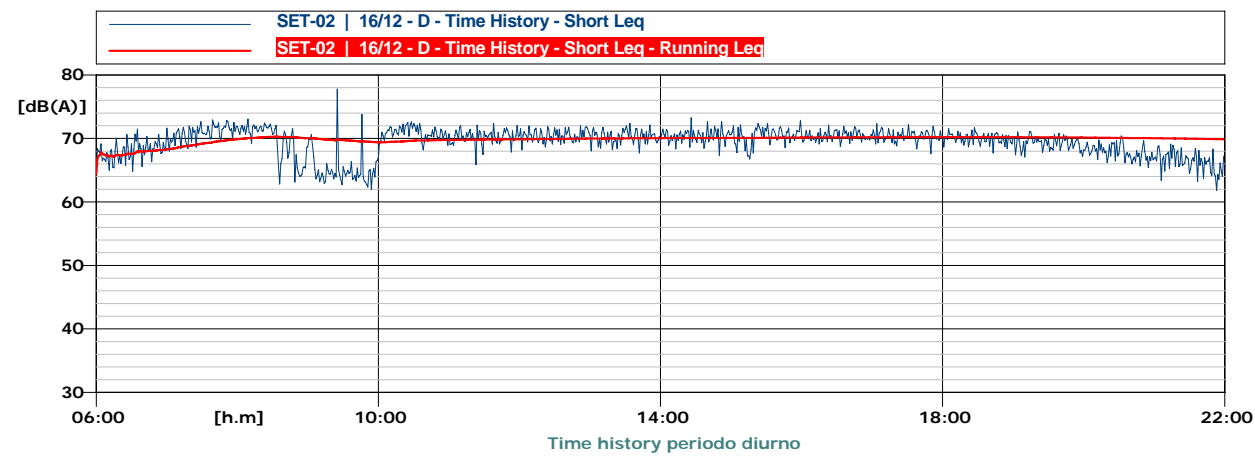


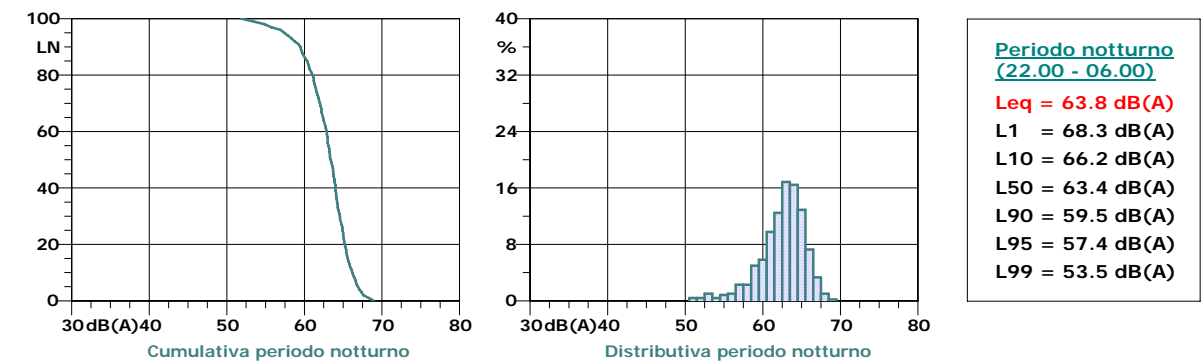
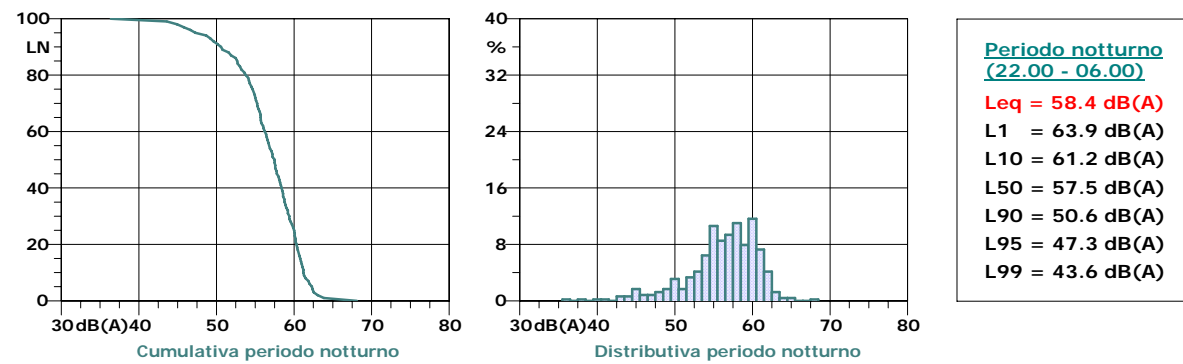
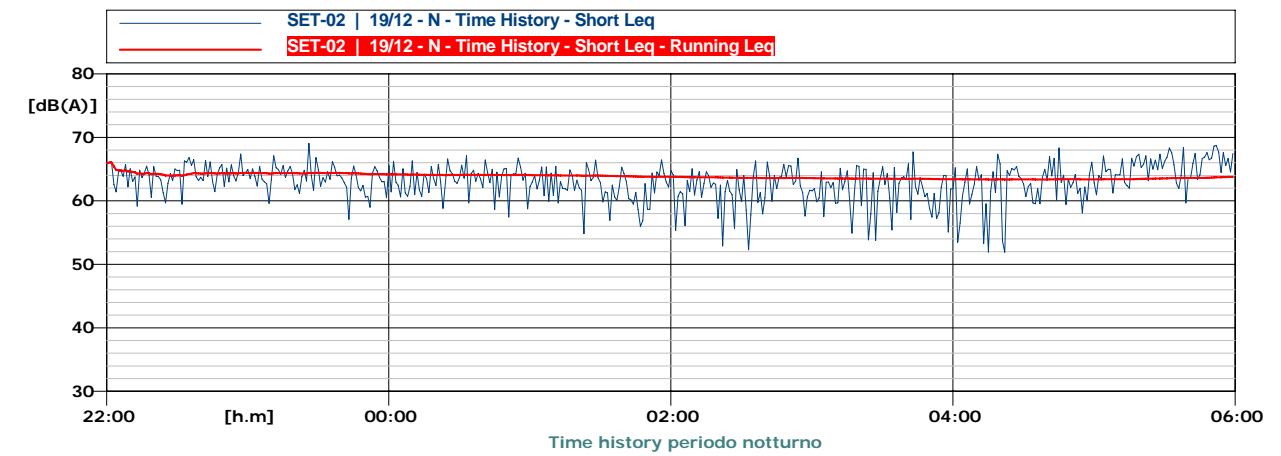
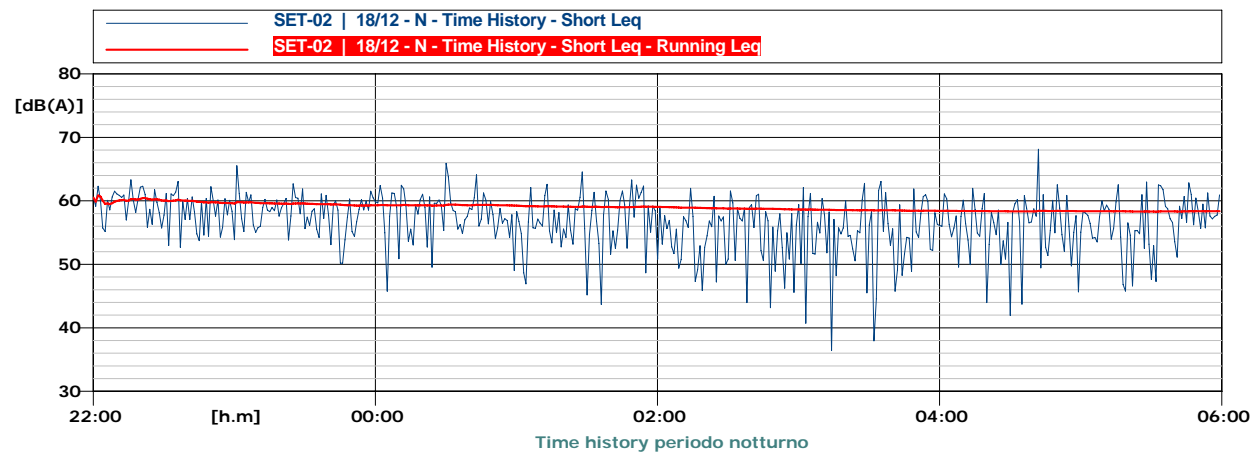
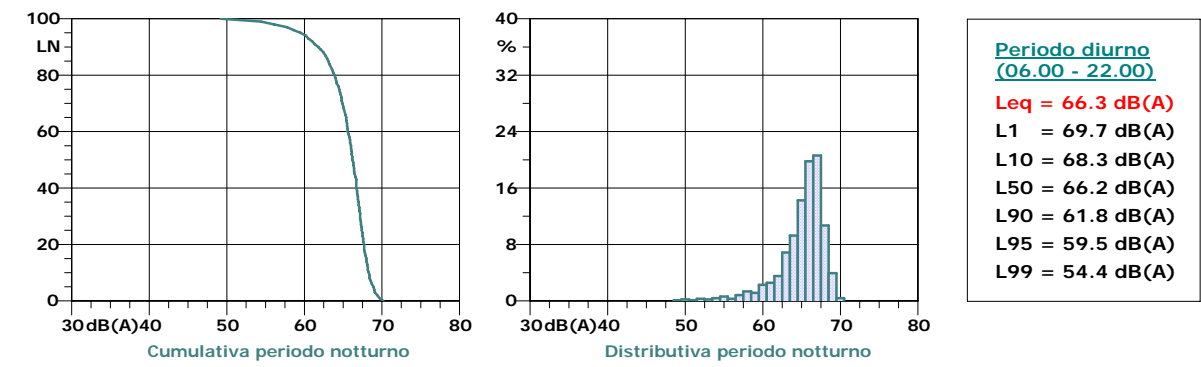
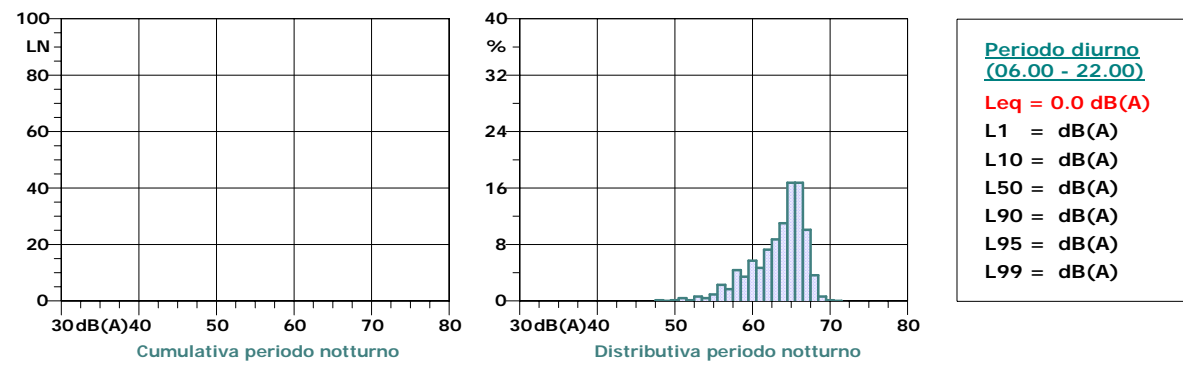
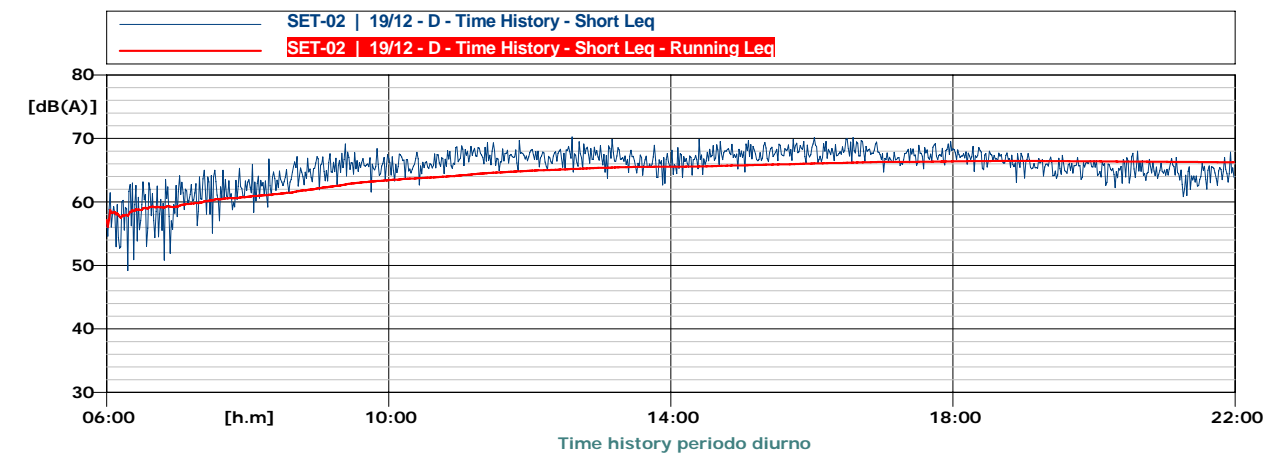
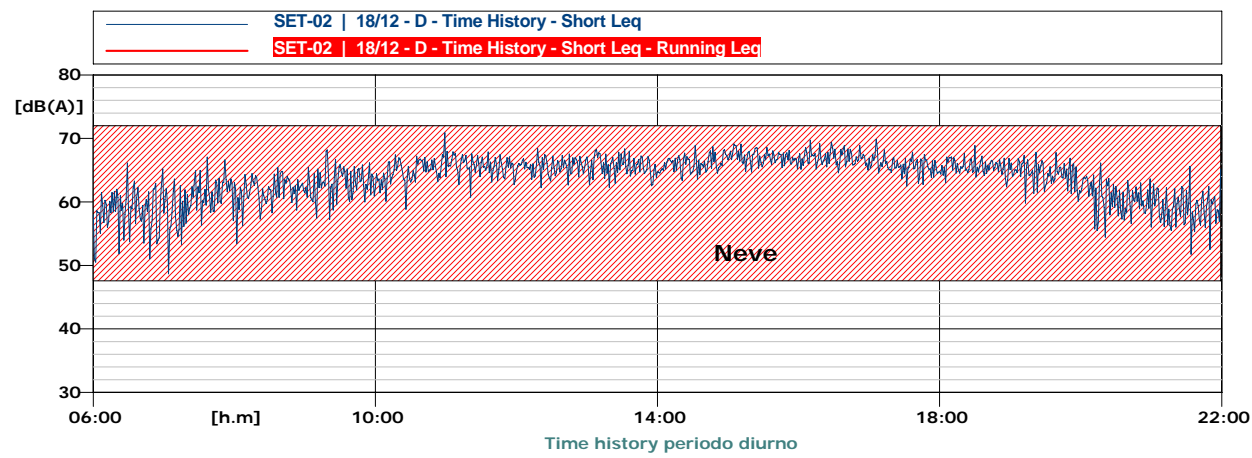


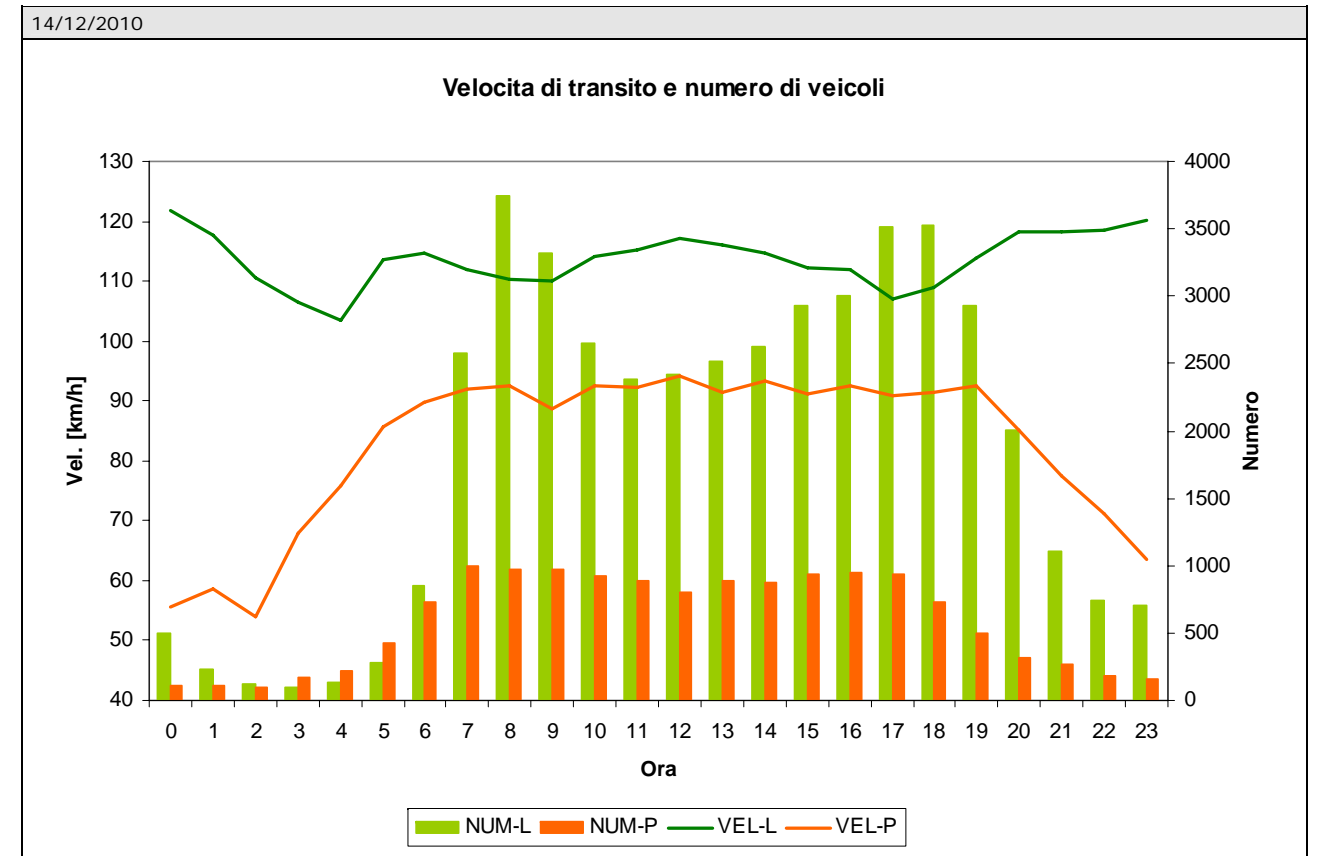
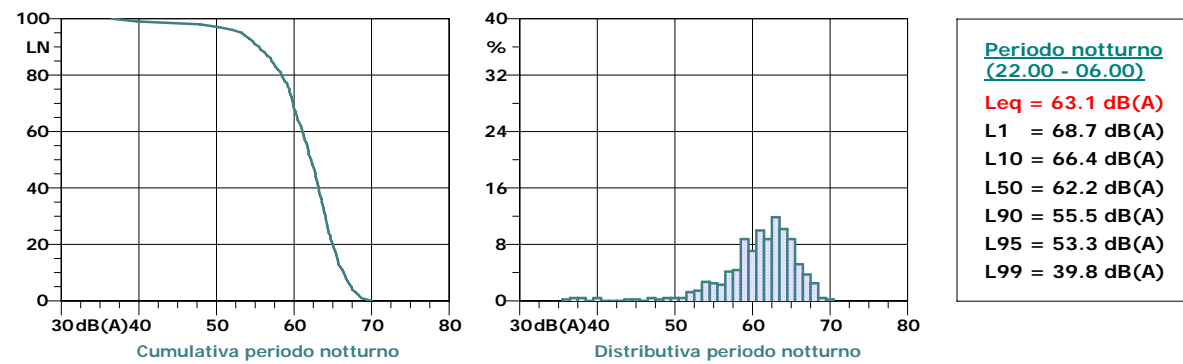
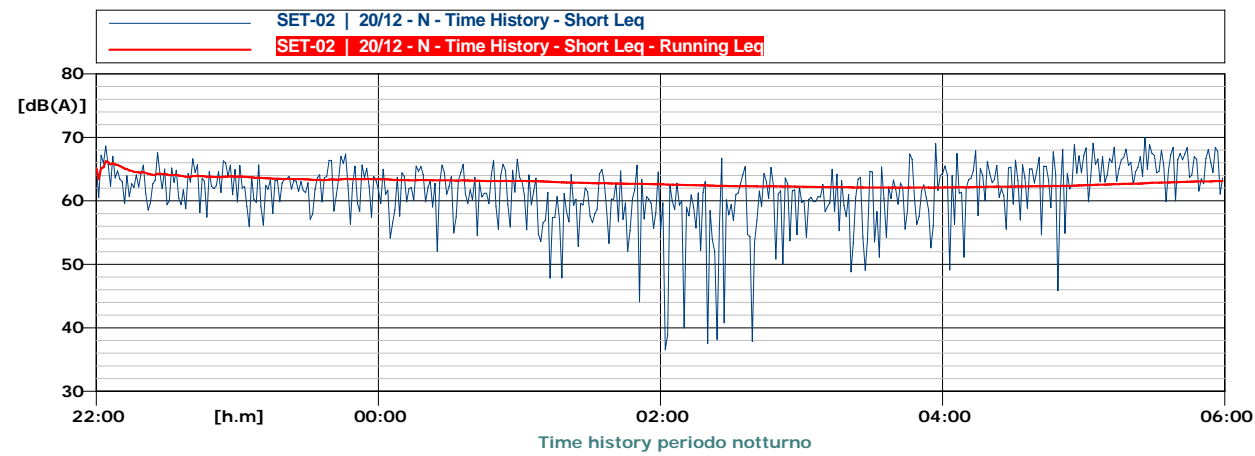
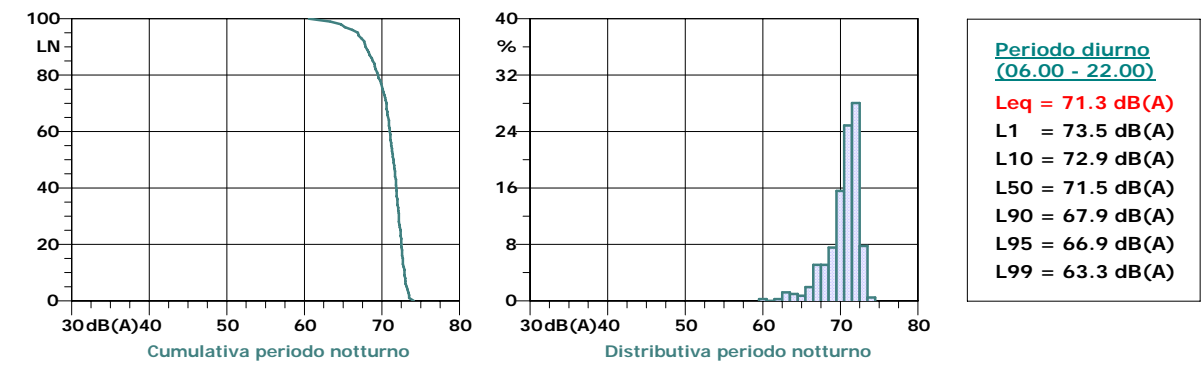
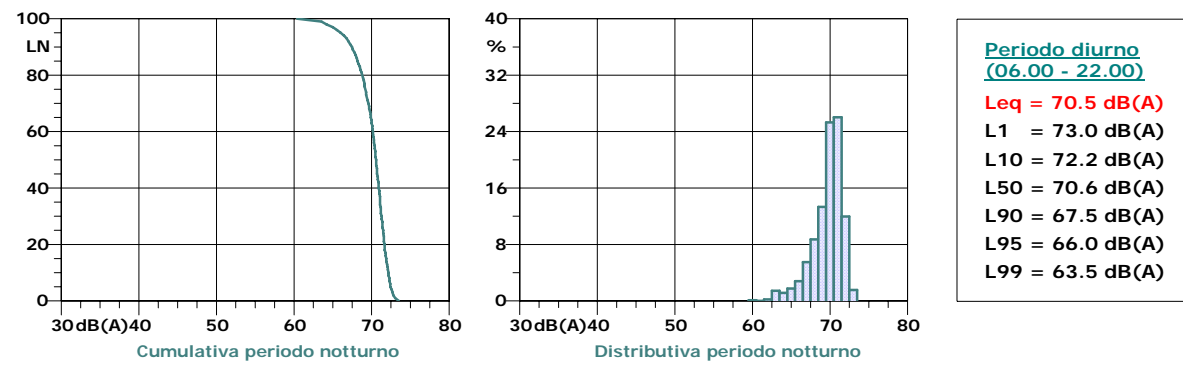
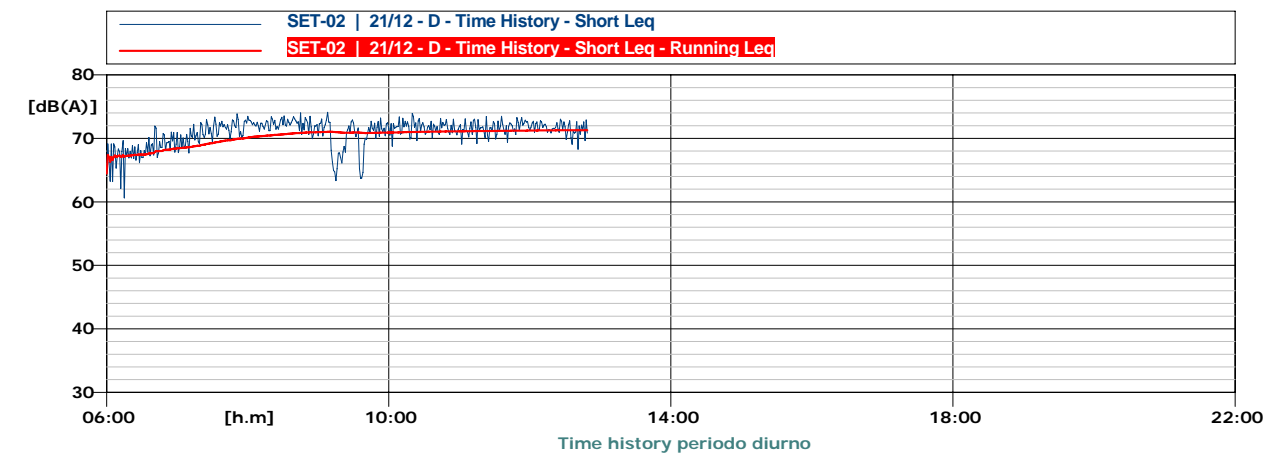
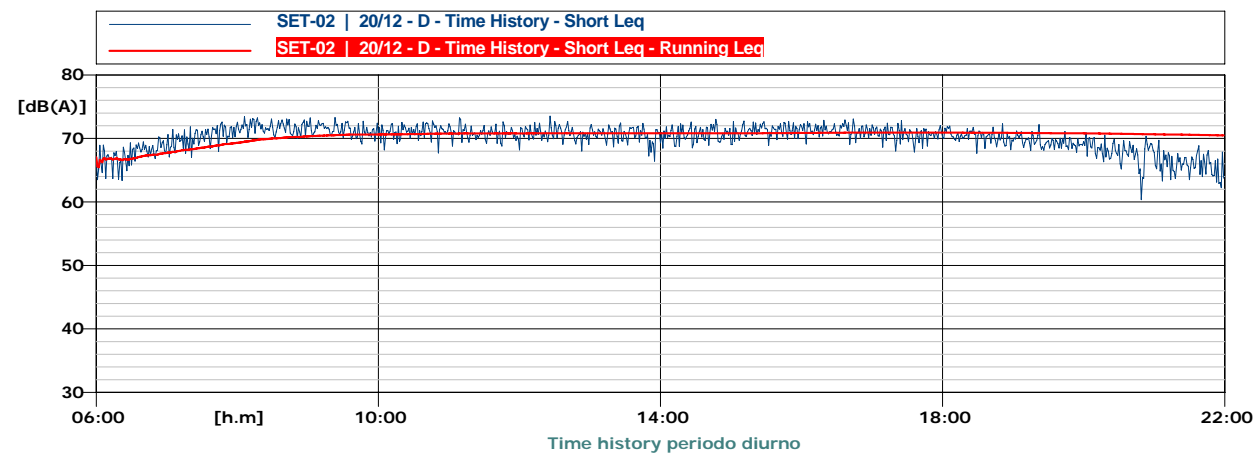
	Mar 14/12	Mer 15/12	Gio 16/12	Ven 17/12	Sab 18/12	Dom 19/12	Lun 20/12
ORA	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]
00:00:00	63.3	63.3	63.6	64.3	63.4	59.1	63.8
01:00:00	61.4	62.1	61.7	62.5	58.2	58.4	62.8
02:00:00	61.1	60.6	61.1	61.4	57.0	56.5	62.6
03:00:00	62.2	62.3	62.0	61.2	57.7	57.2	62.5
04:00:00	63.5	64.0	63.7	63.6	59.6	58.0	63.2
05:00:00	66.2	66.8	66.2	65.3	58.4	58.2	65.8
06:00:00	68.4	68.0	68.3	67.0	59.7	59.3	67.7
07:00:00	70.8	70.6	71.1	69.6	61.4	62.0	70.5
08:00:00	71.3	71.3	70.3	70.3	62.2	64.0	71.8
09:00:00	70.6	71.0	66.6	70.1	63.6	65.9	71.4
10:00:00	70.4	70.5	71.0	69.4	65.3	66.2	71.3
11:00:00	70.2	70.5	70.4	69.8	65.9	67.5	70.8
12:00:00	69.8	70.3	70.6	67.0	65.8	67.4	71.0
13:00:00	69.7	69.8	70.4	63.8	65.9	66.6	70.7
14:00:00	69.7	70.6	70.5	60.6	66.2	67.2	70.8
15:00:00	70.6	70.9	70.6	59.7	67.1	68.0	71.4
16:00:00	70.8	70.7	70.5	53.2	67.1	68.2	71.4
17:00:00	70.7	70.7	70.5	53.9	66.0	67.4	70.8
18:00:00	70.1	70.0	70.1	52.7	65.7	67.0	70.4
19:00:00	69.2	69.2	69.3	59.5	64.8	65.7	69.6
20:00:00	68.0	67.8	68.0	60.5	61.3	65.2	68.2
21:00:00	66.5	65.9	66.5	60.1	59.8	64.6	66.1
22:00:00	65.0	64.5	64.9	59.5	59.6	64.4	63.8
23:00:00	64.3	64.4	64.8	61.0	59.0	64.0	62.9

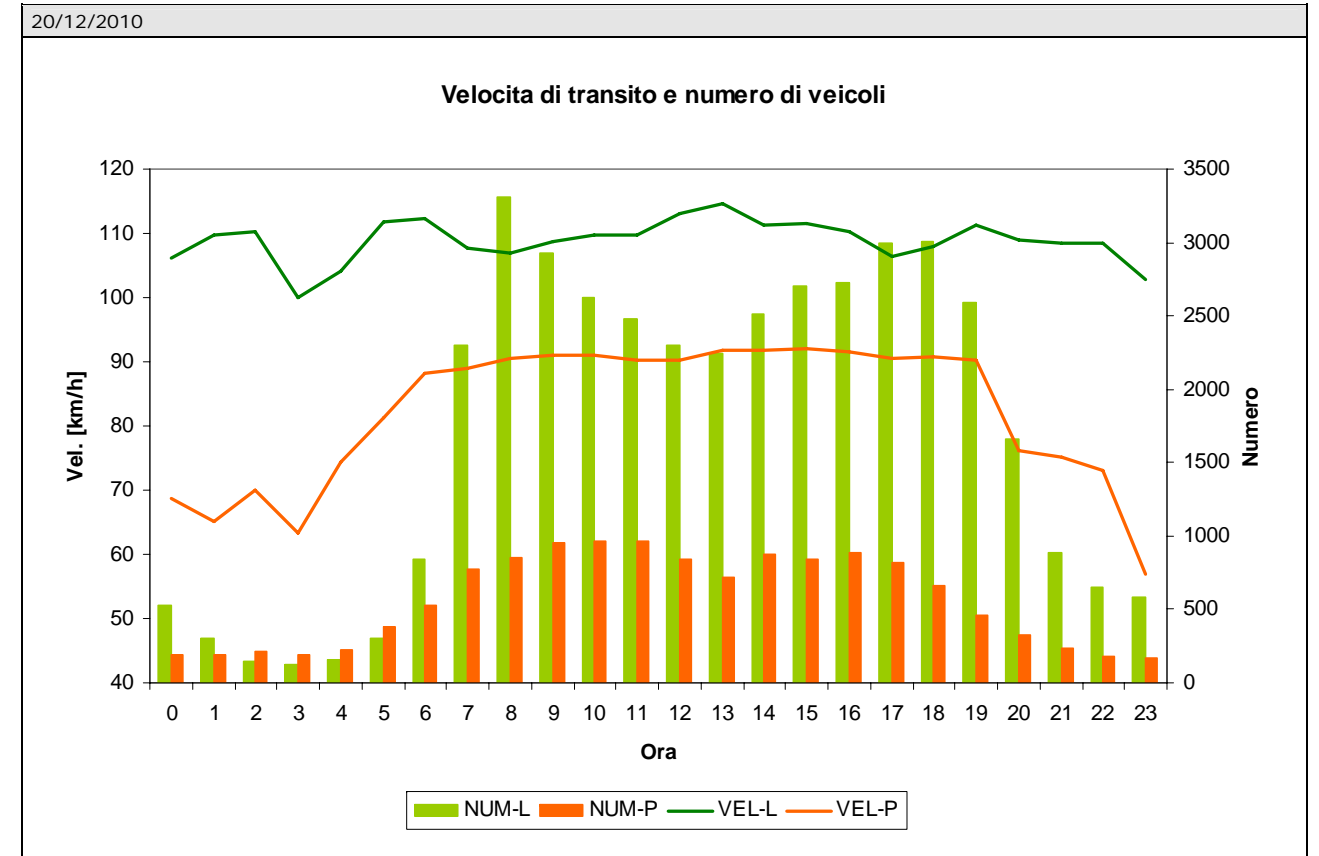
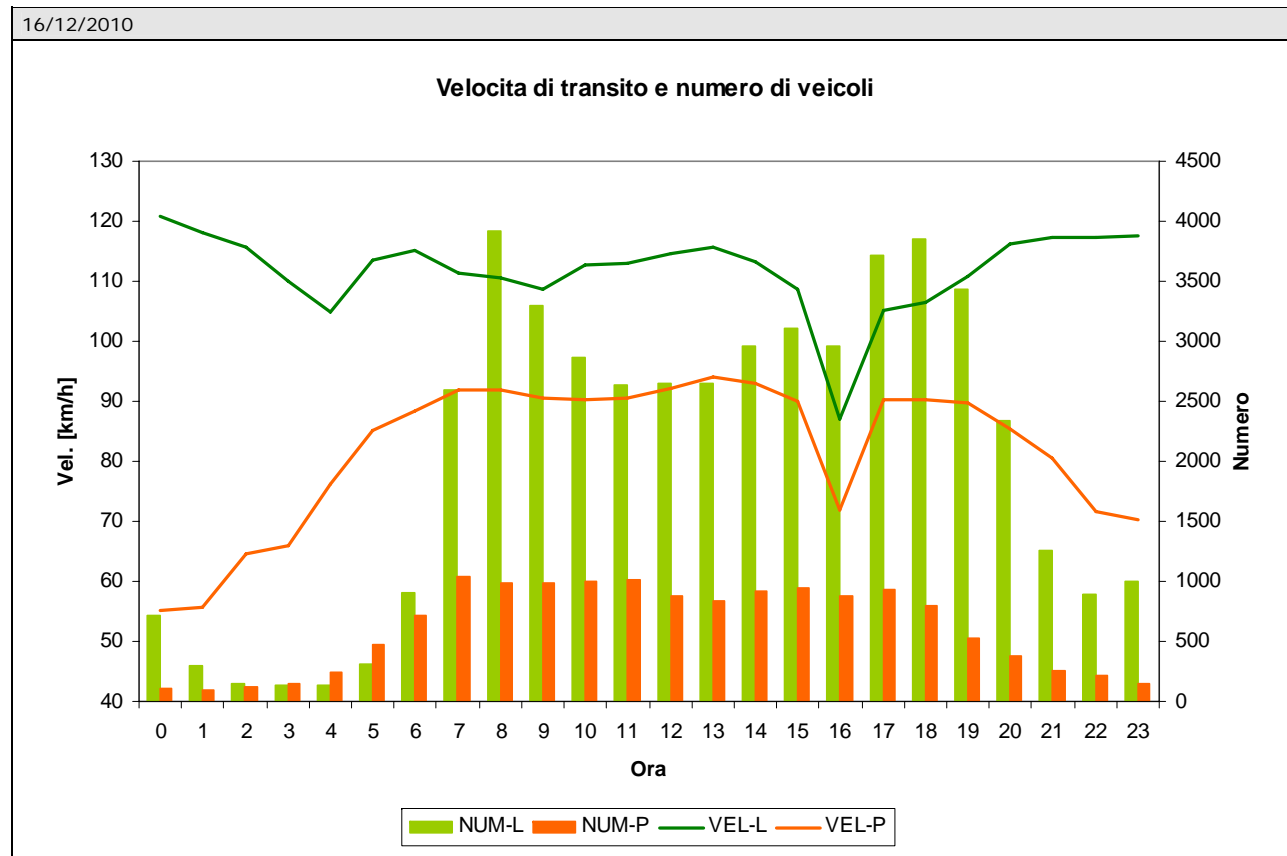
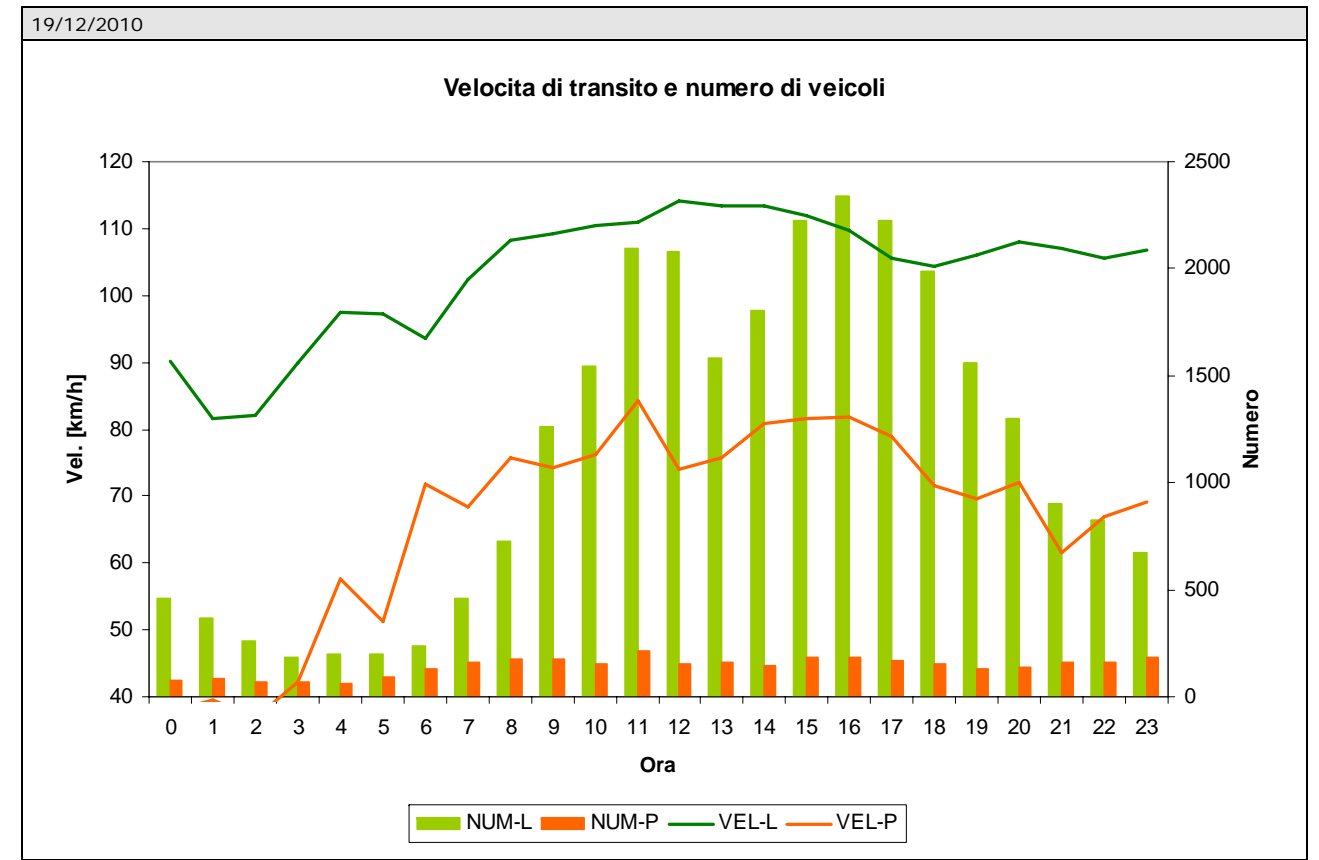
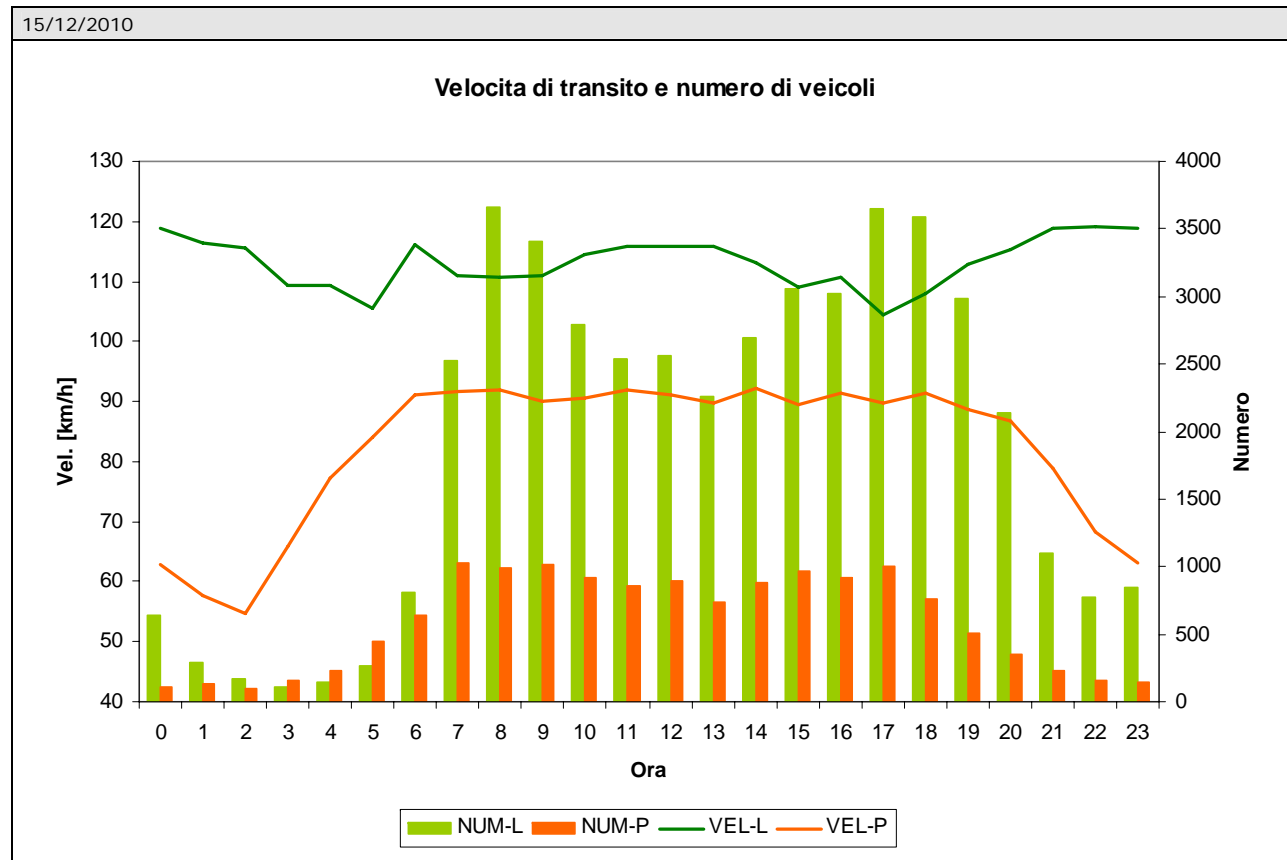




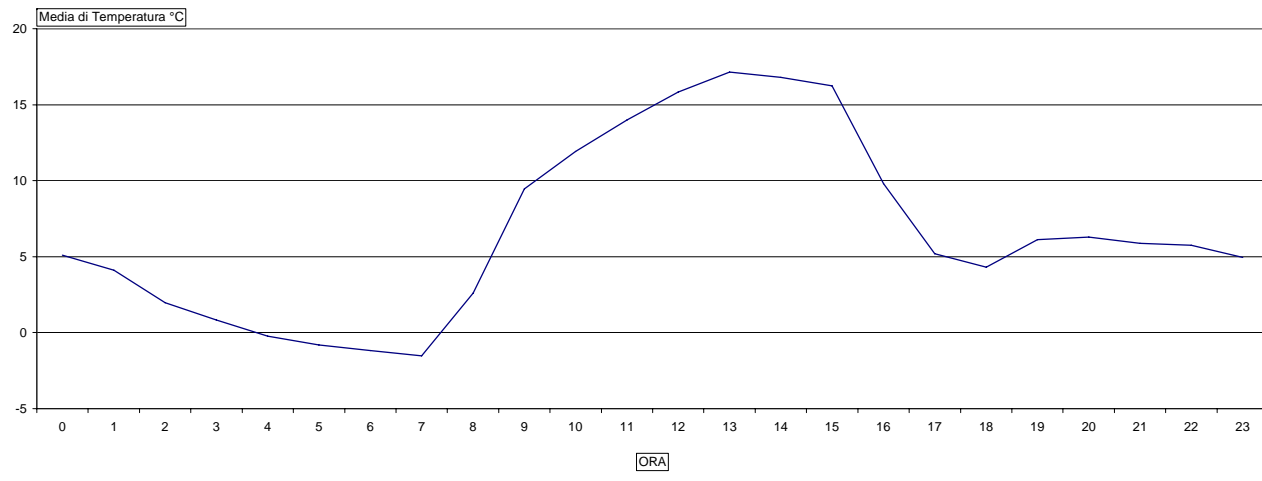




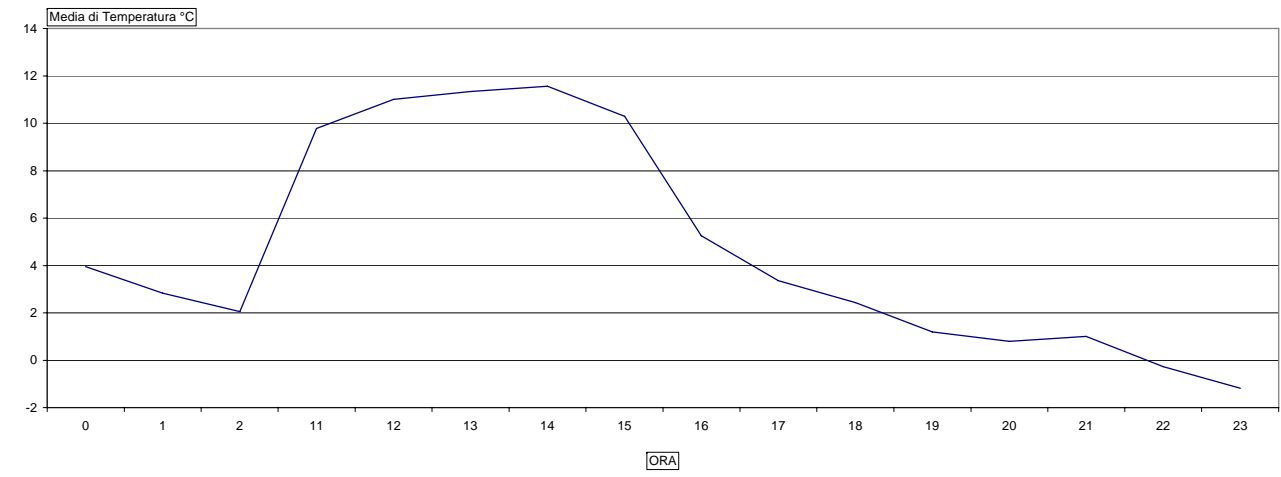




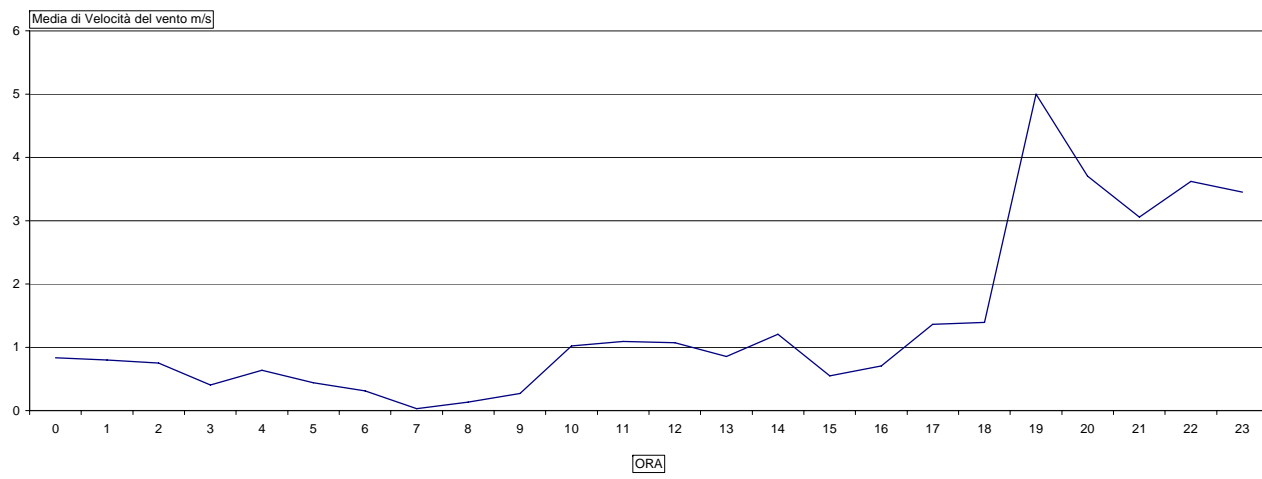
13/12/2010



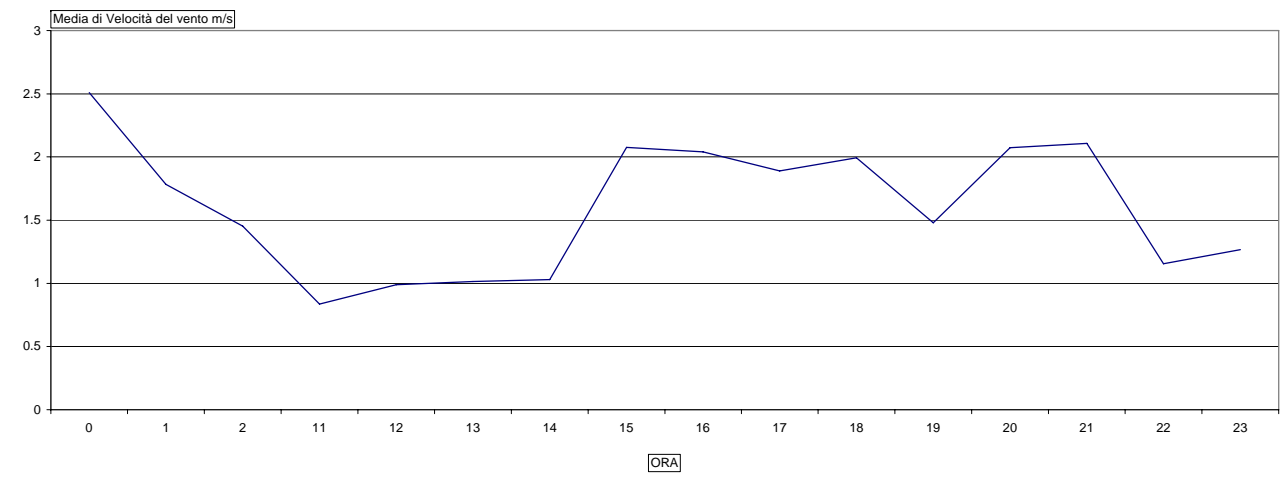
14/12/2010



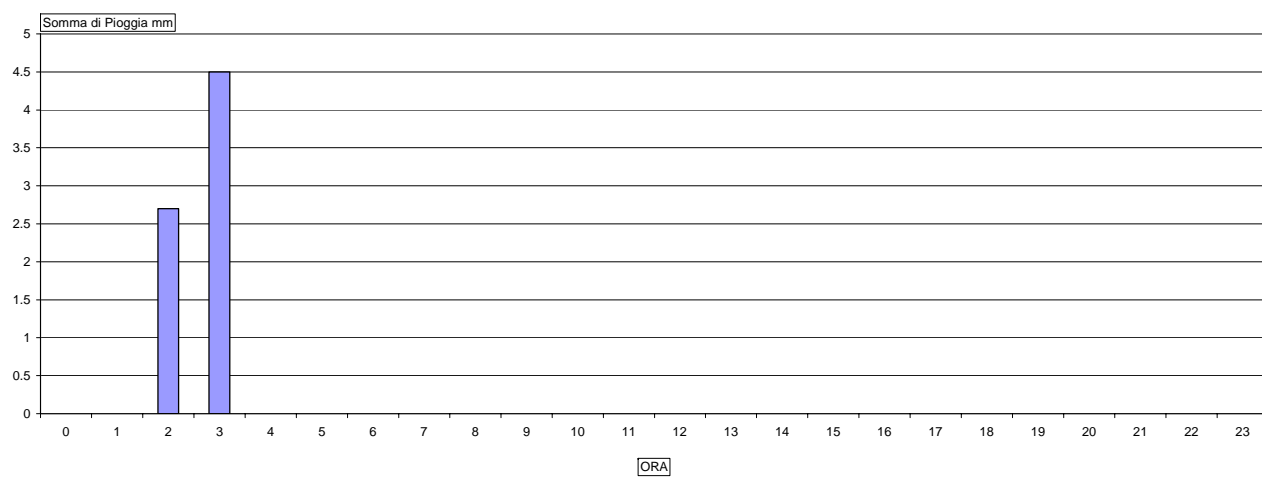
13/12/2010



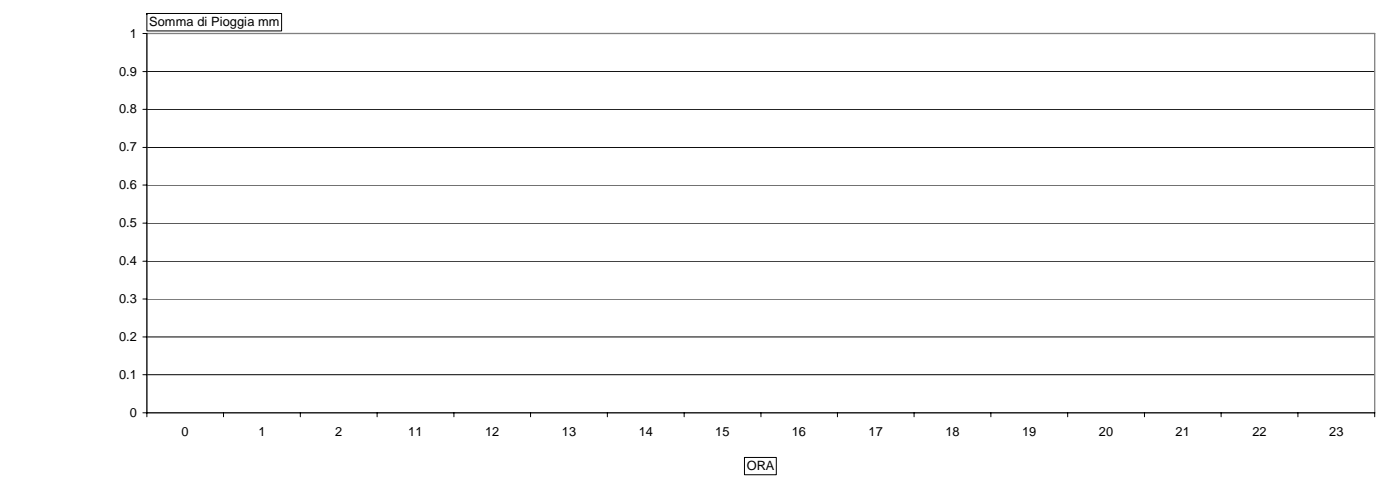
14/12/2010



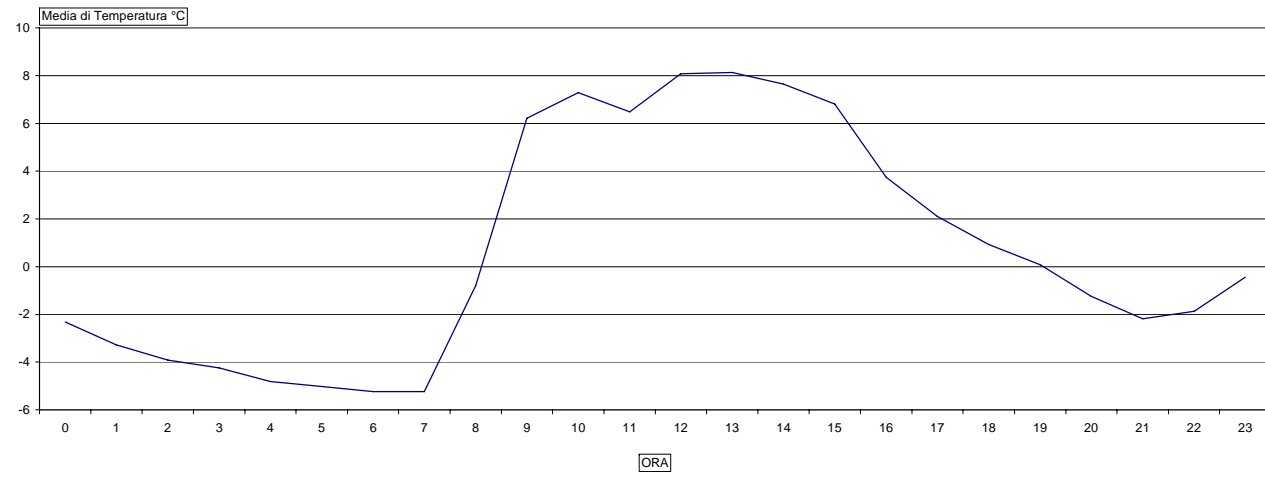
13/12/2010



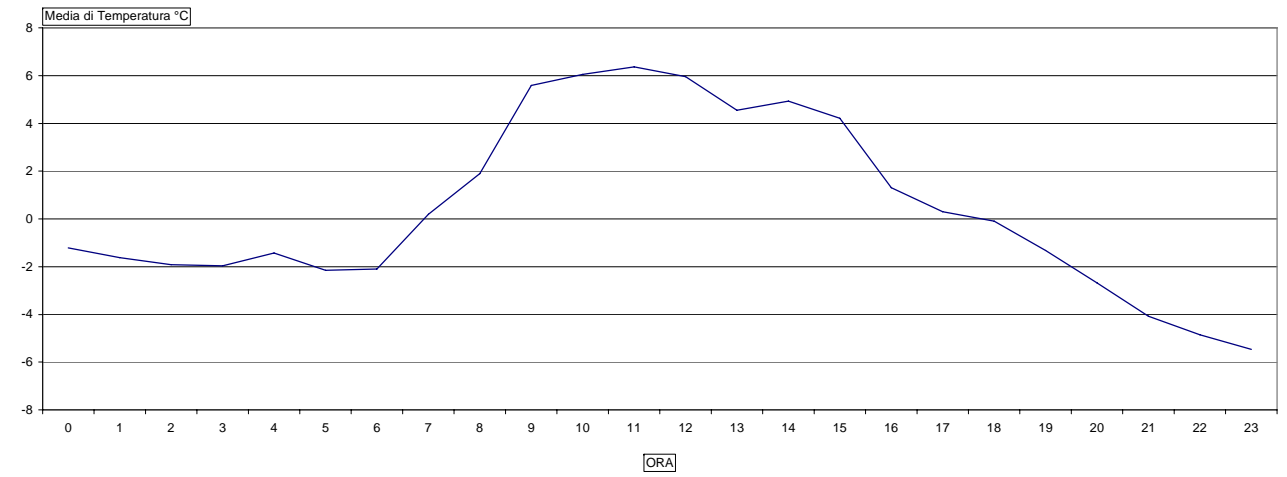
14/12/2010



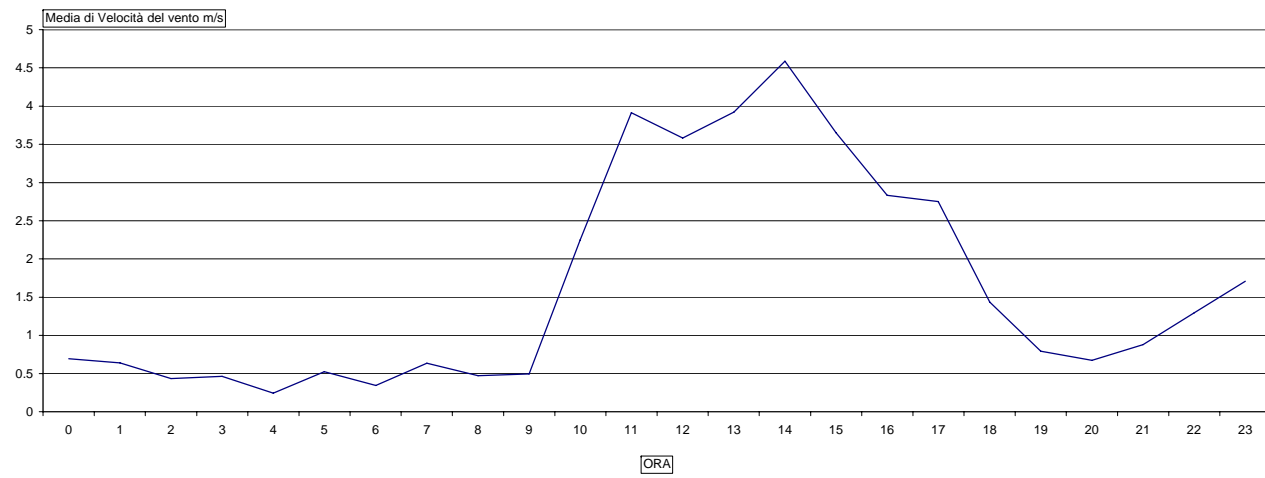
15/12/2010



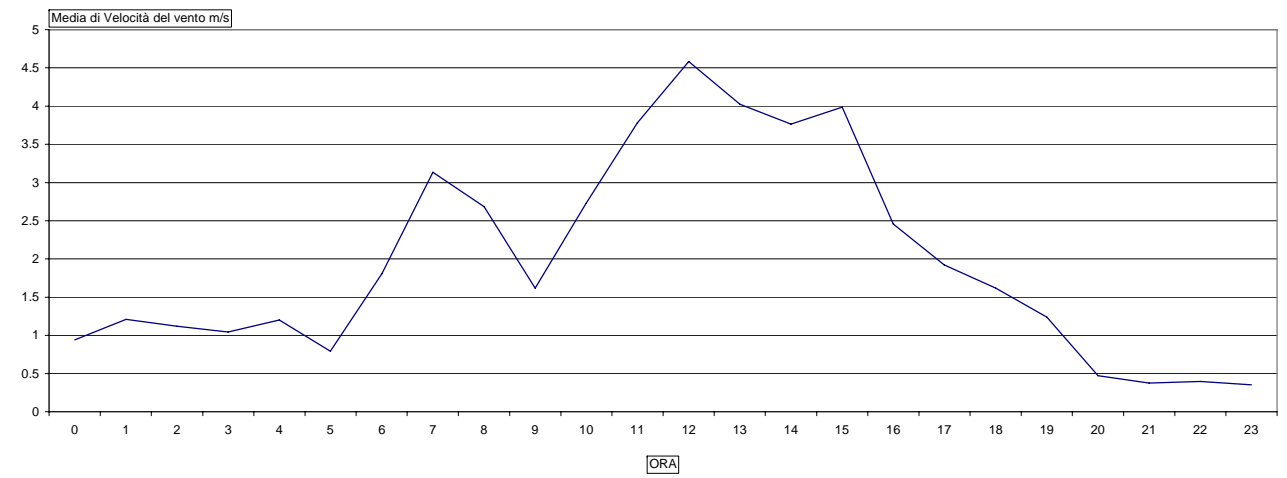
16/12/2010



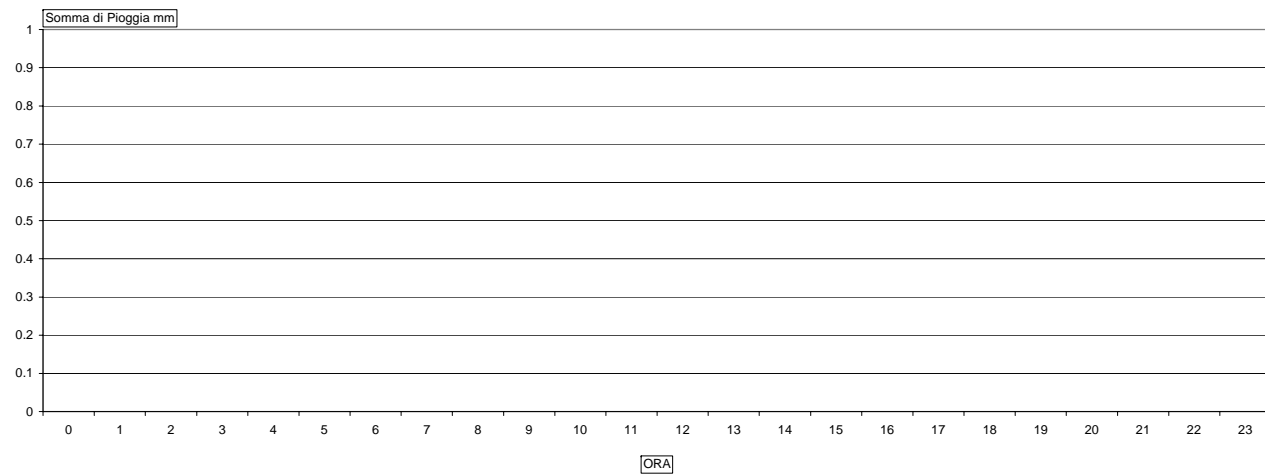
15/12/2010



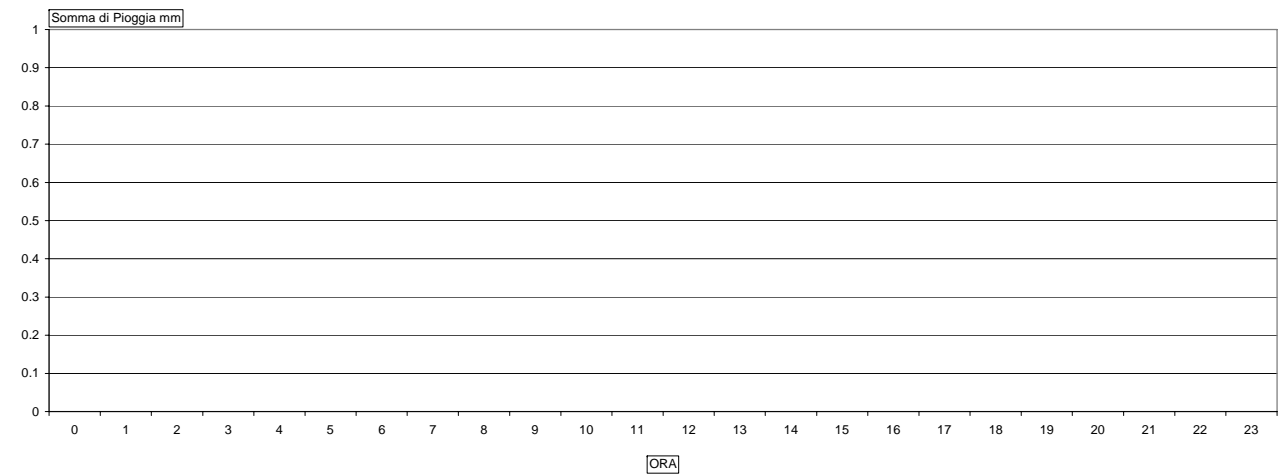
16/12/2010



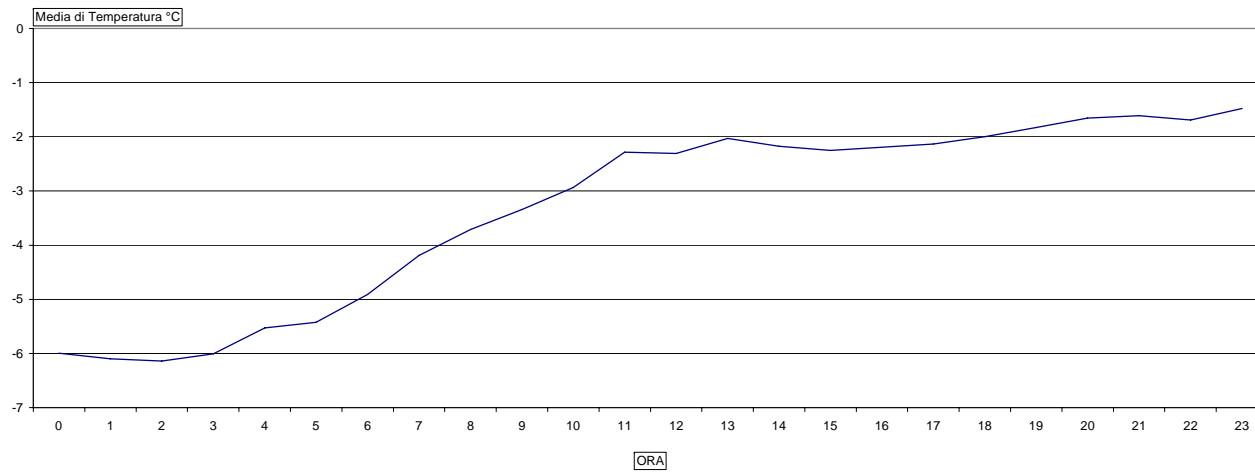
15/12/2010



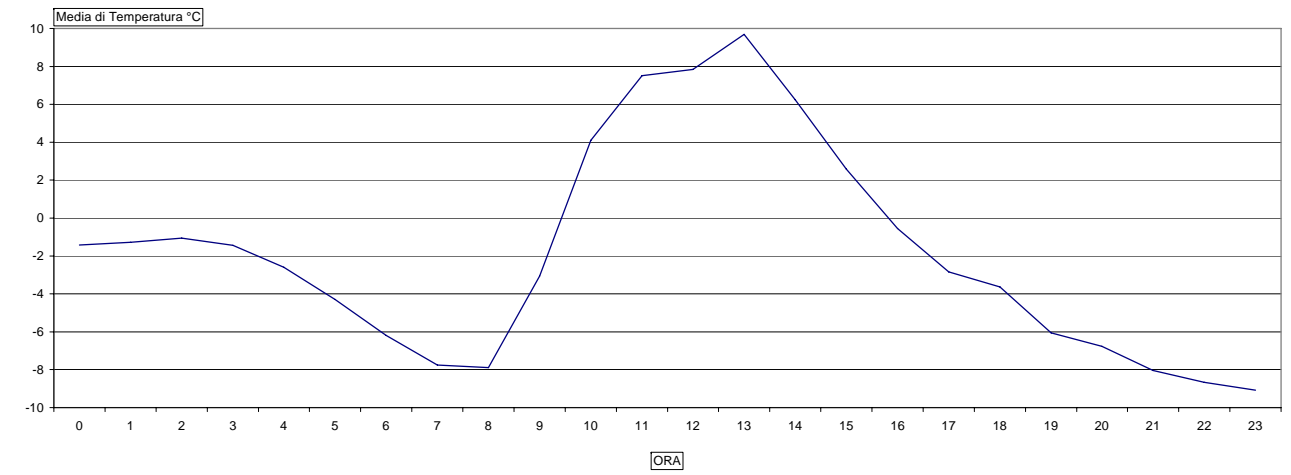
16/12/2010



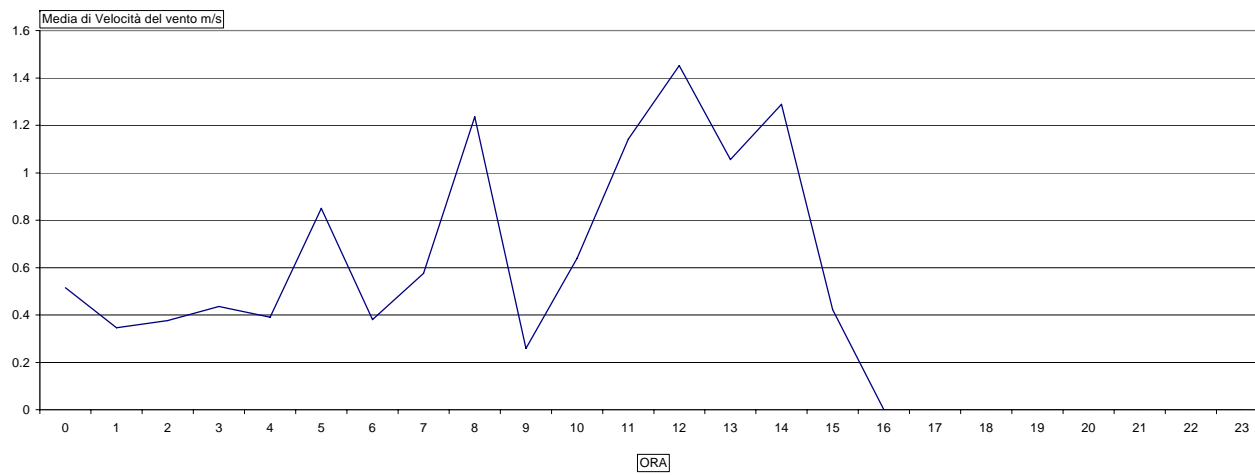
17/12/2010



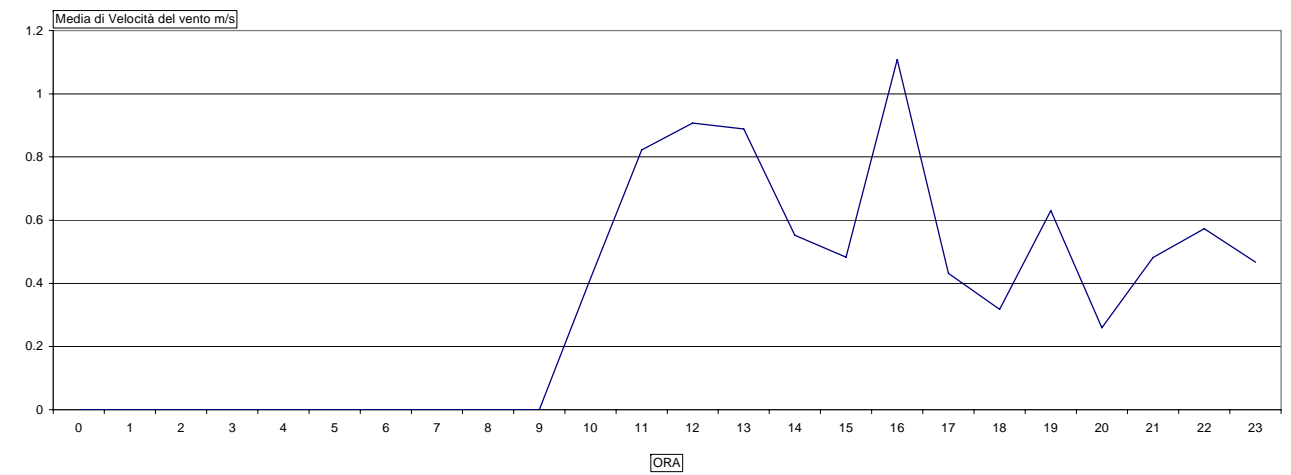
18/12/2010



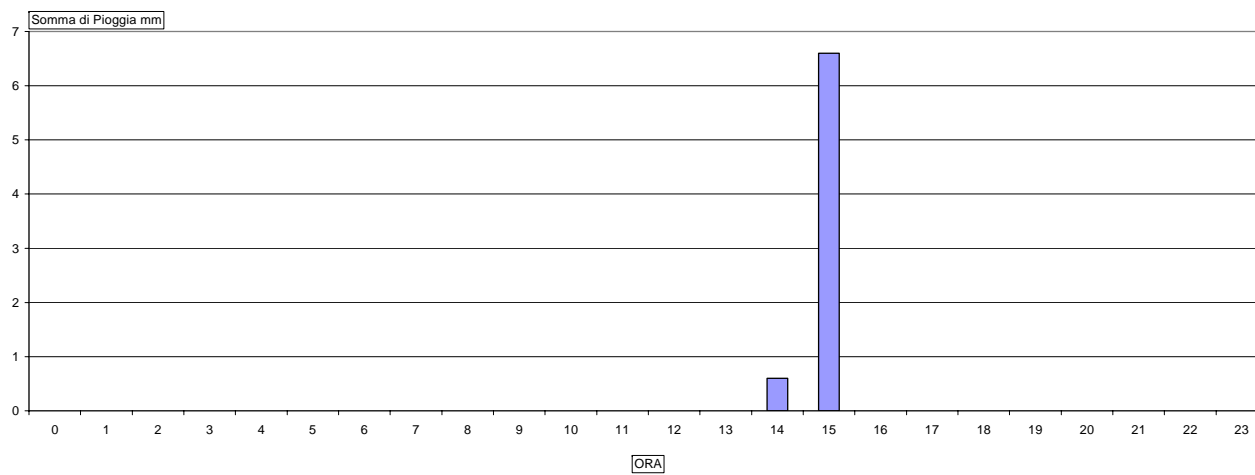
17/12/2010



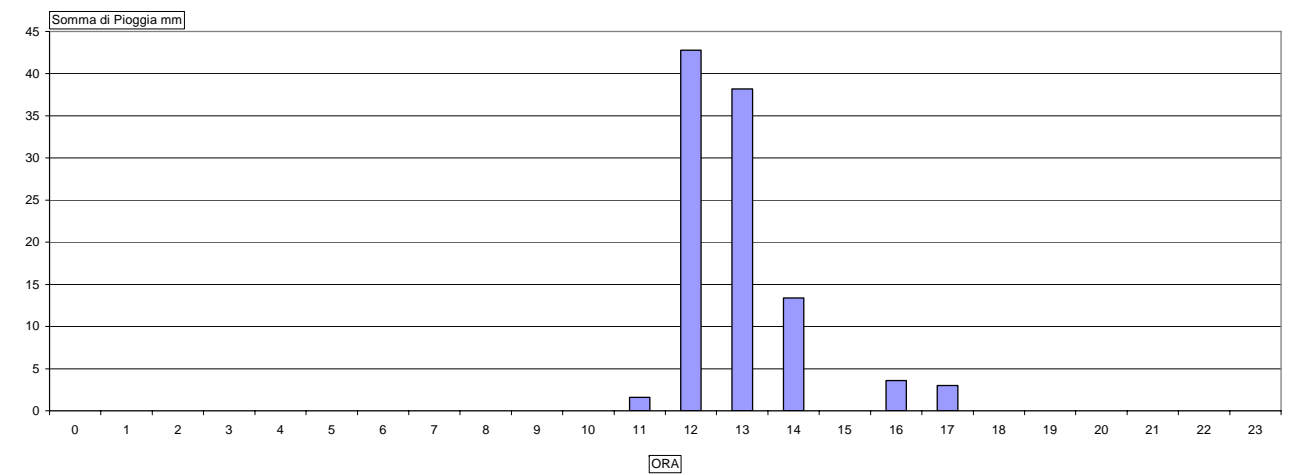
18/12/2010



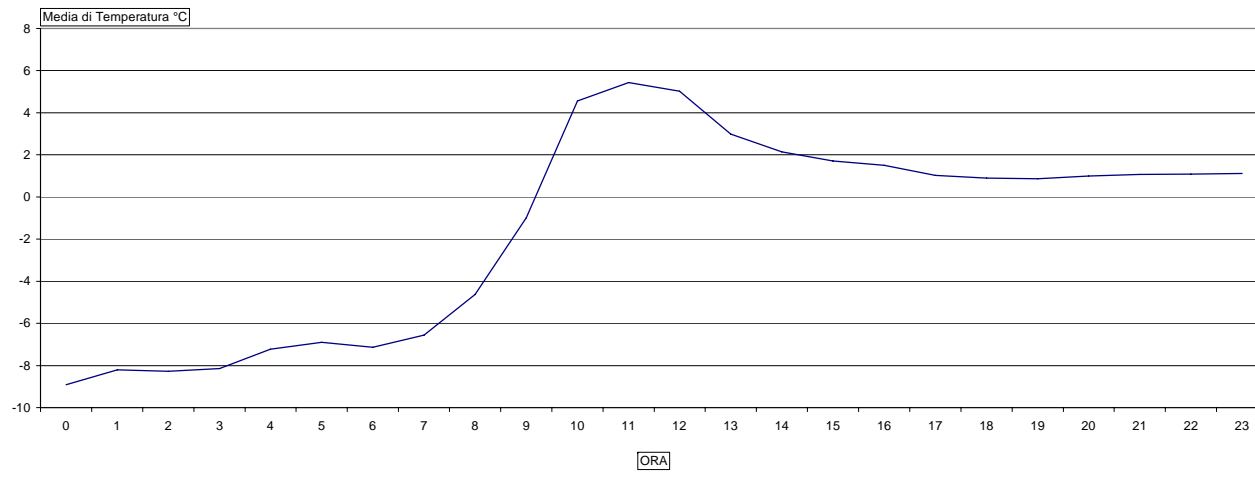
17/12/2010



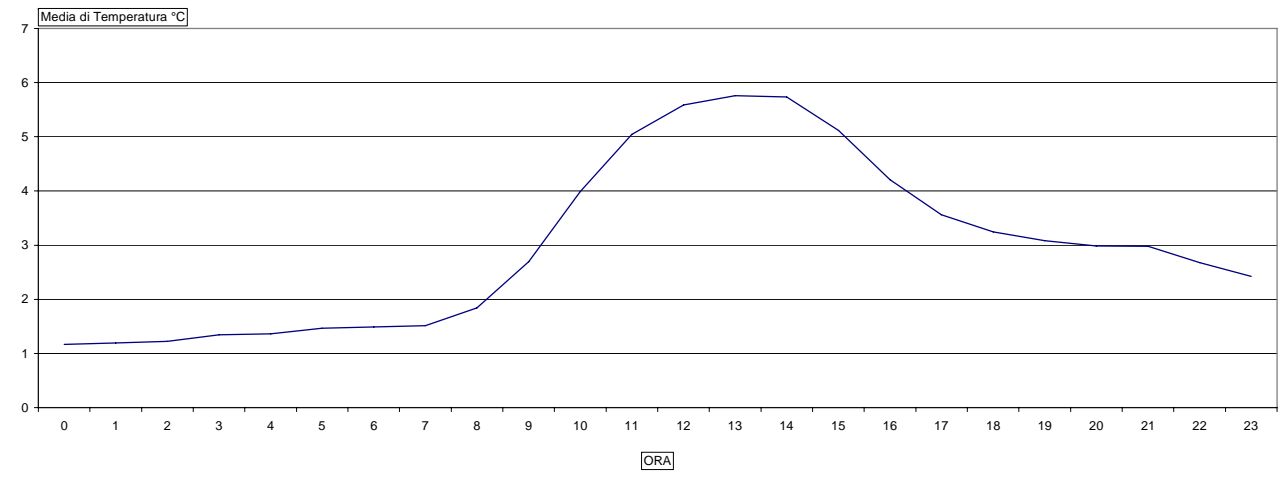
18/12/2010



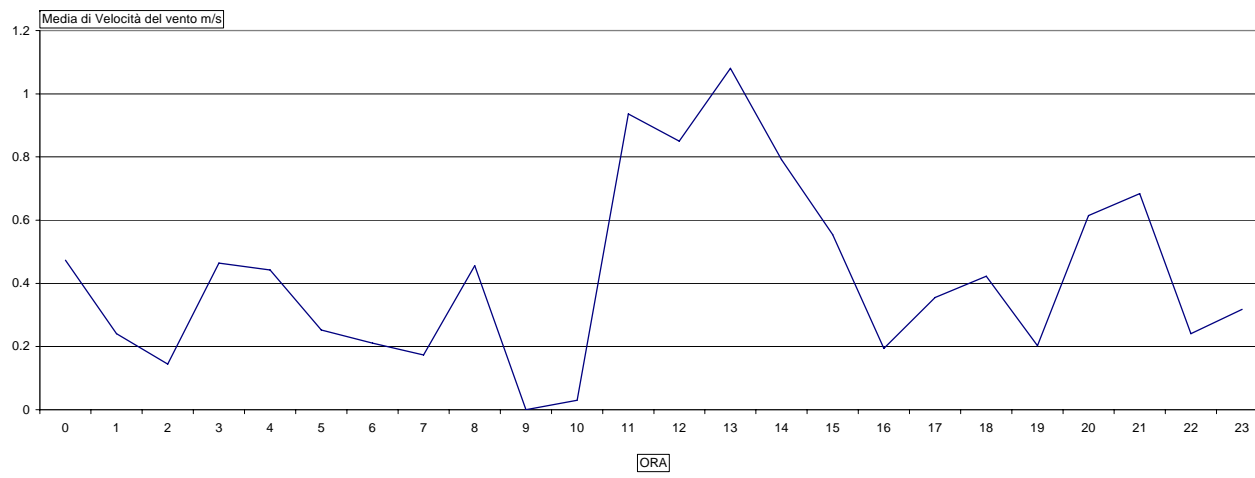
19/12/2010



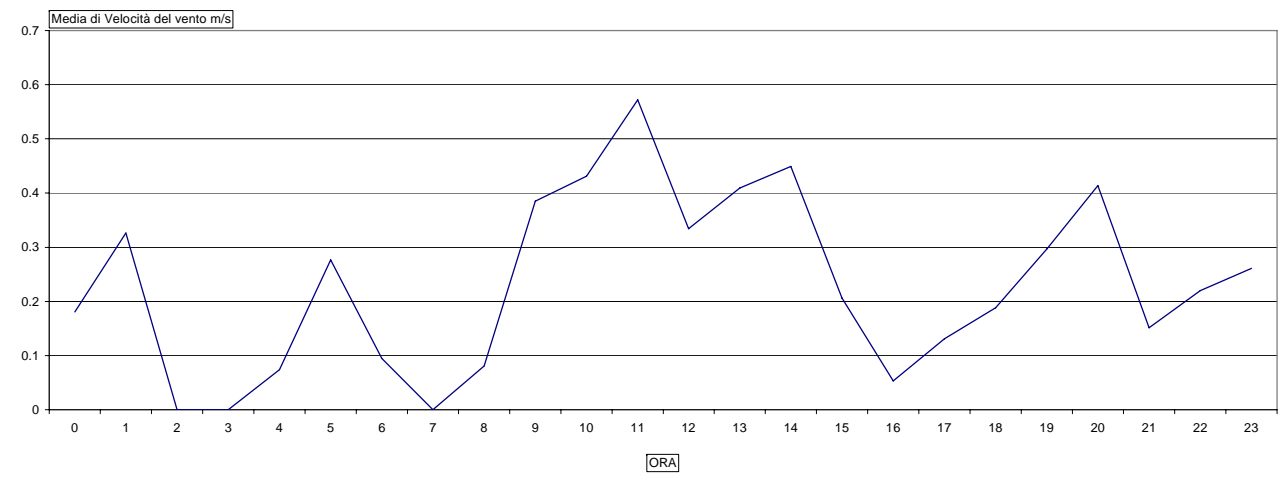
20/12/2010



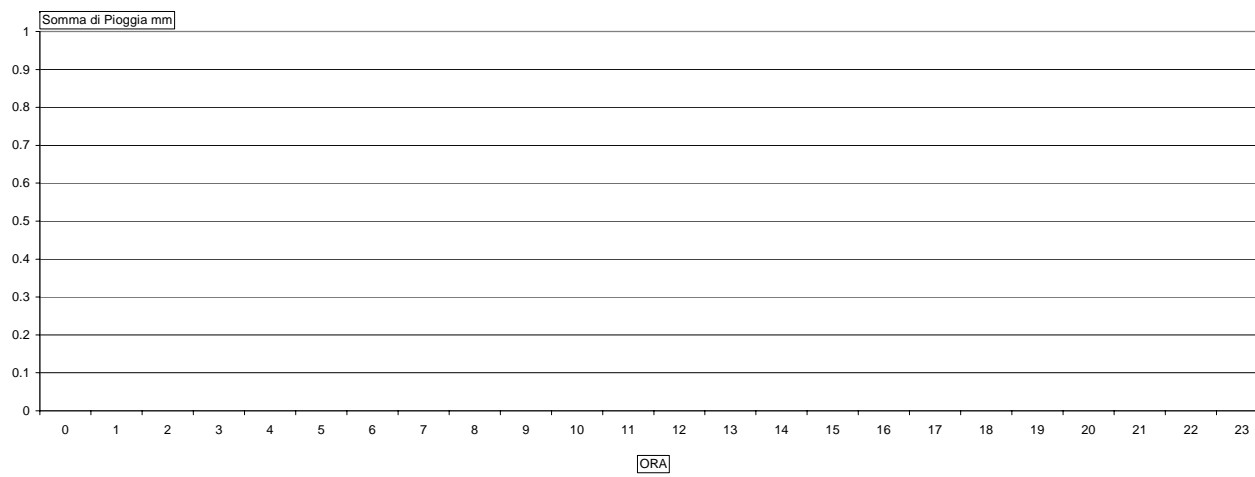
19/12/2010



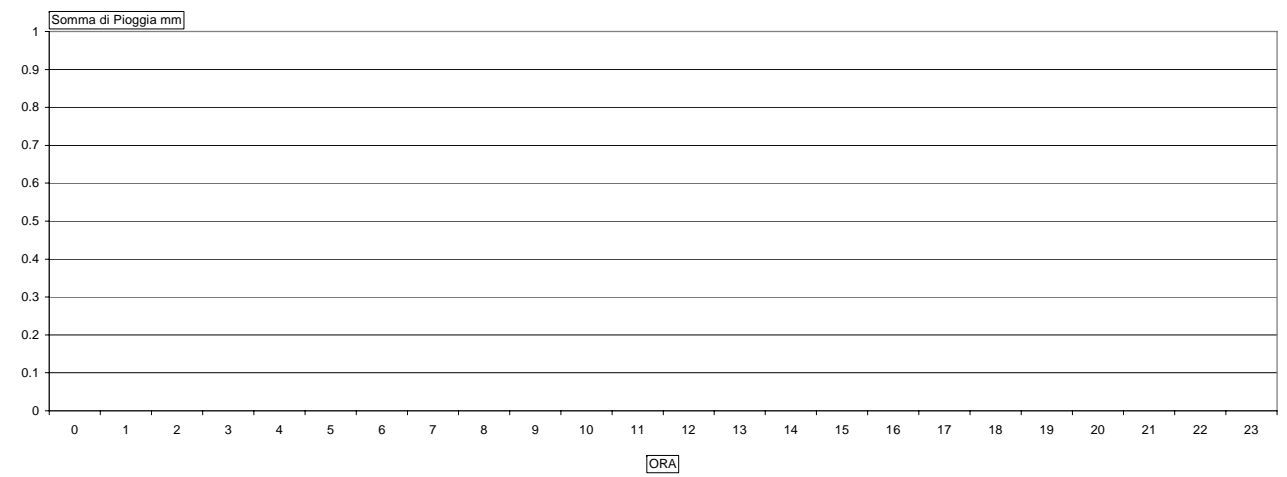
20/12/2010



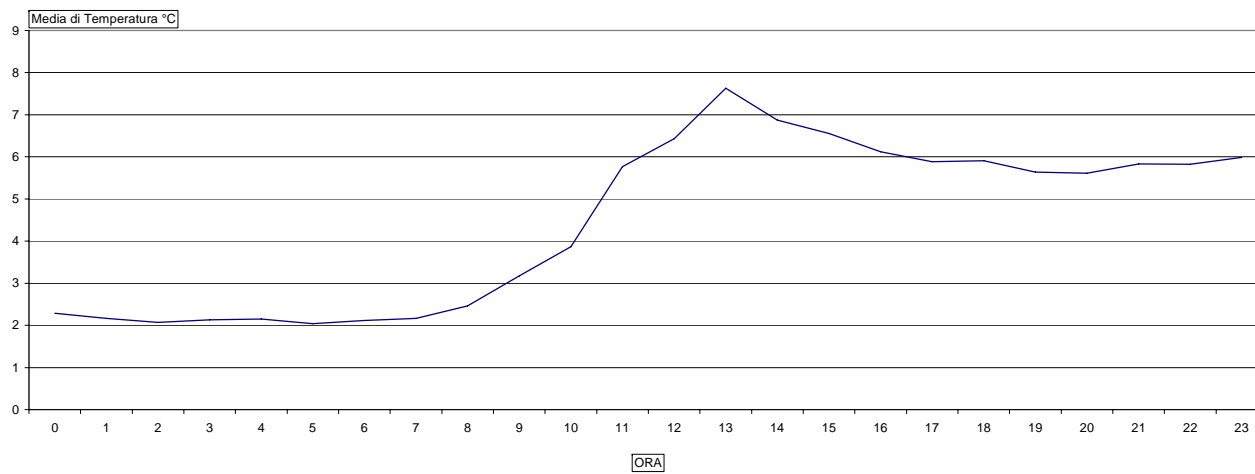
19/12/2010



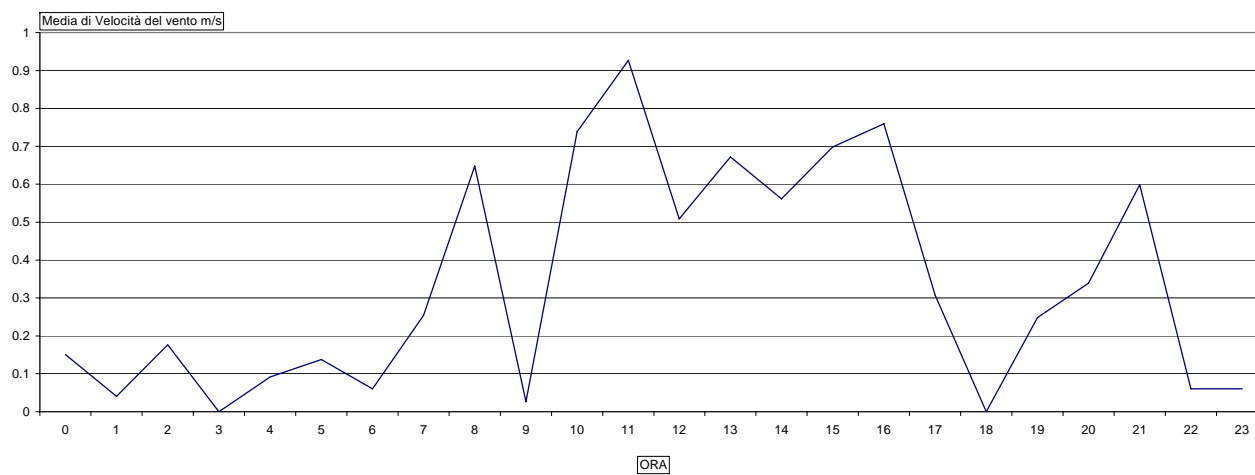
20/12/2010



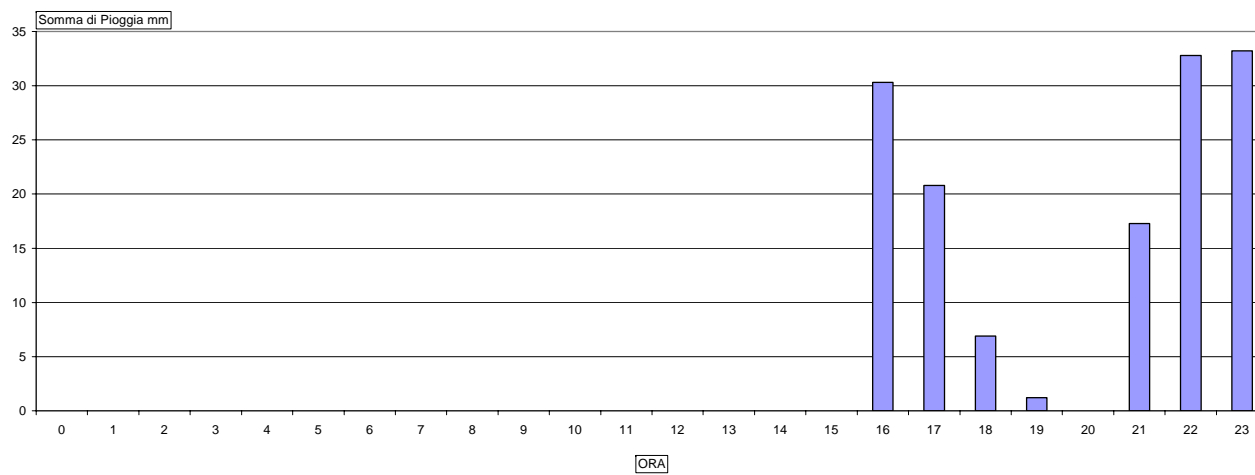
21/12/2010



21/12/2010

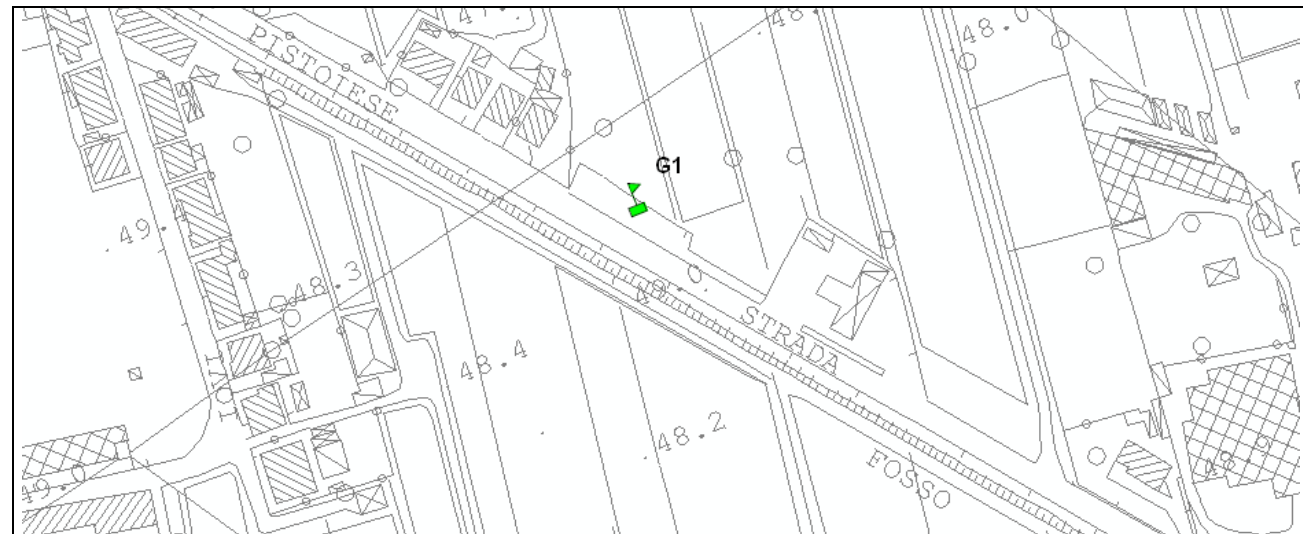


21/12/2010



Misura fonometrica G1

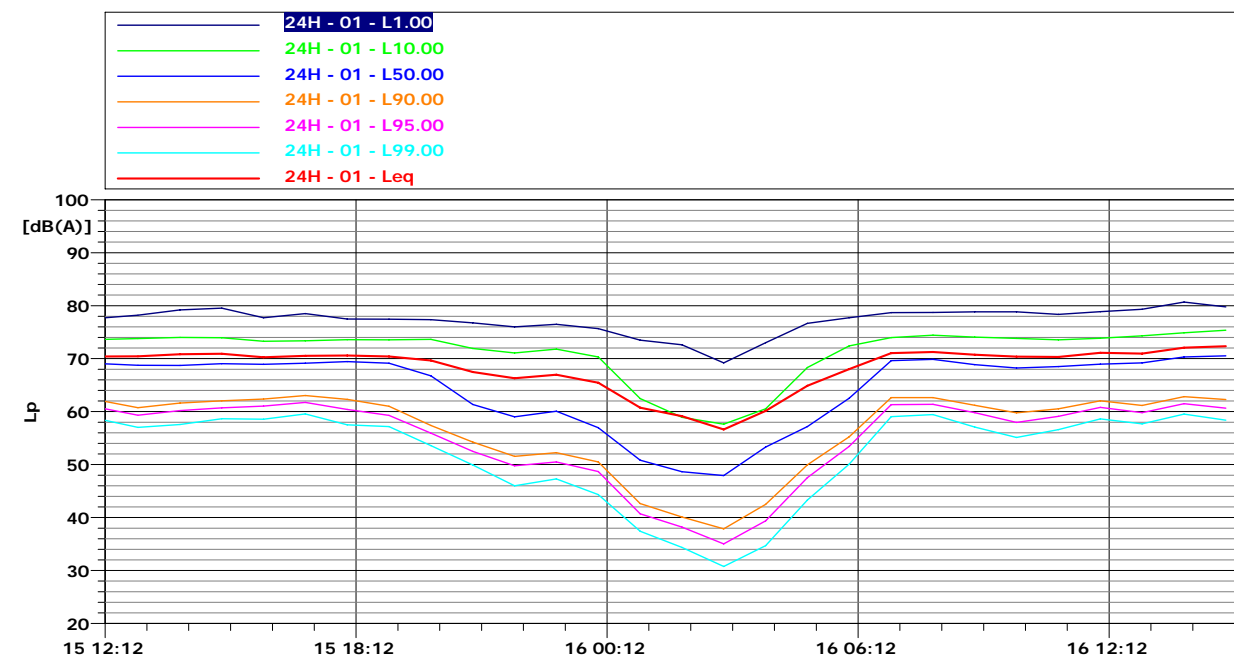
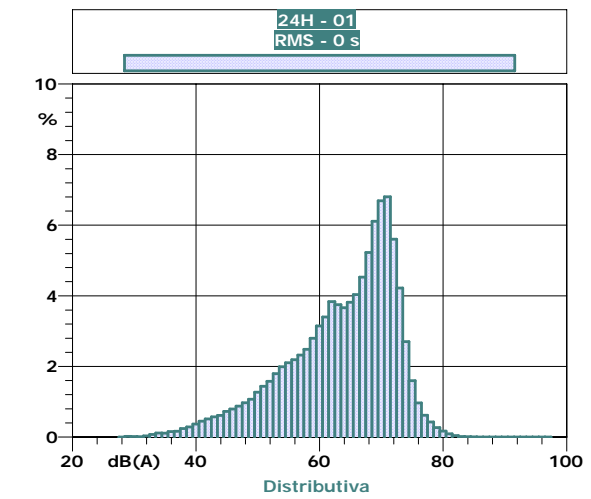
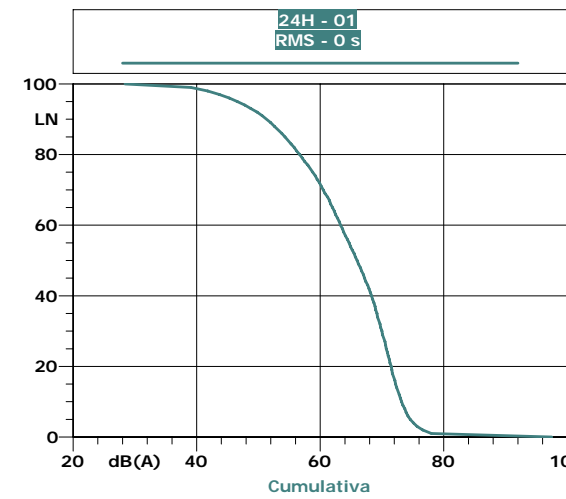
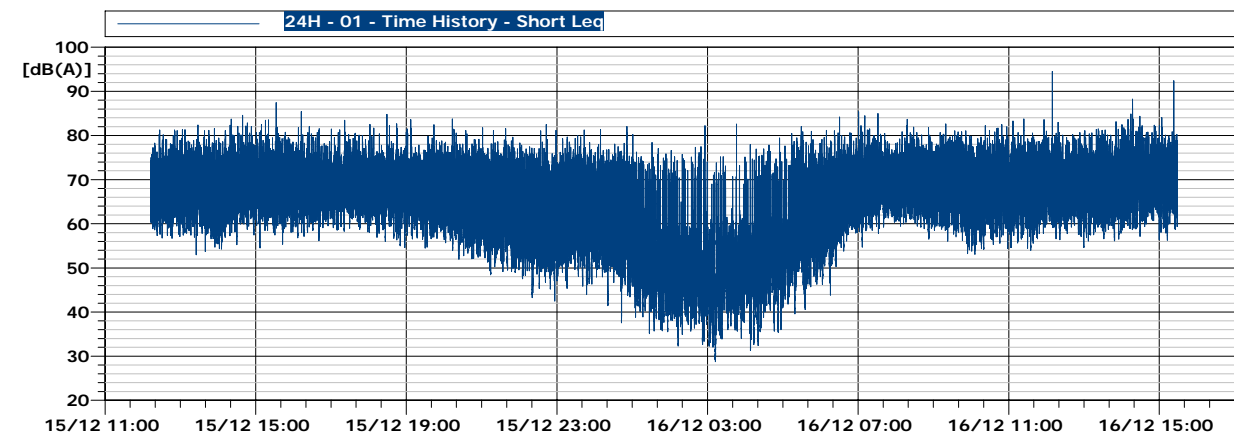
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Pistoia	Inizio	15/12/2010	12:12
Indirizzo	S.R. 66 - Via Fiorentina	Fine	16/12/2010	15:18
Progressiva km	25+030	Fonometro	Larson Davis 824	S. N. A3735
Distanza infrastruttura	6.5 [m]	Tipologia tracciato	Raso	
Nome infrastruttura	S.R. 66 - Via Fiorentina	Tipologia asfalto	Drenante	

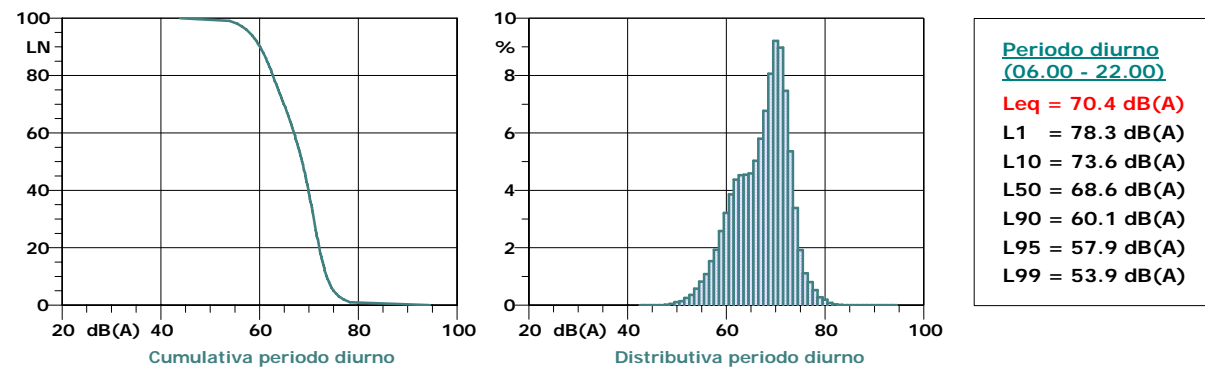
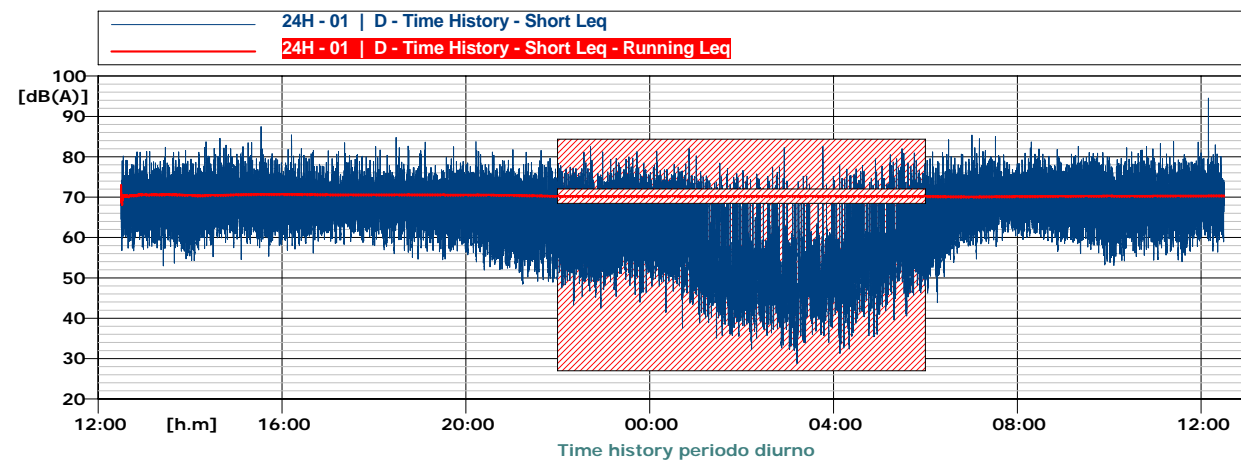


MISURA	PERIODO	LUN	MAR	MER	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 - 22			70.4						[dB(A)]
	Notturno 22 - 06			63.9						
Numero veicoli	Diurno 06 - 22			16727						Leggeri
				950						Pesanti
	Notturno 22 - 06			1316						Leggeri
				30						Pesanti

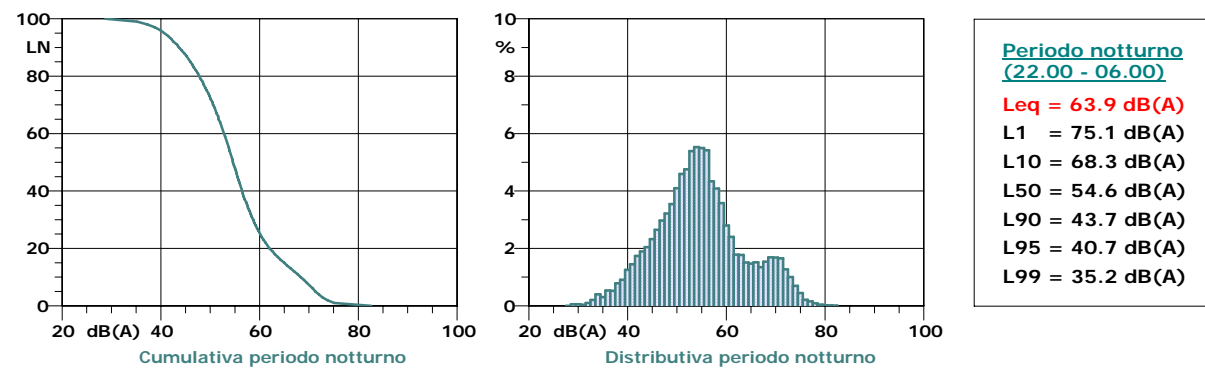
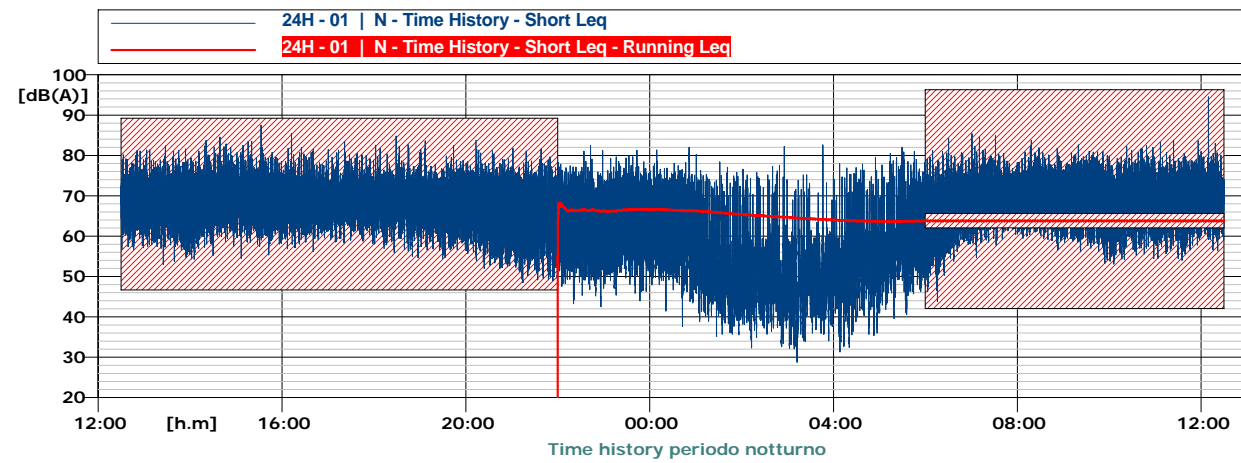
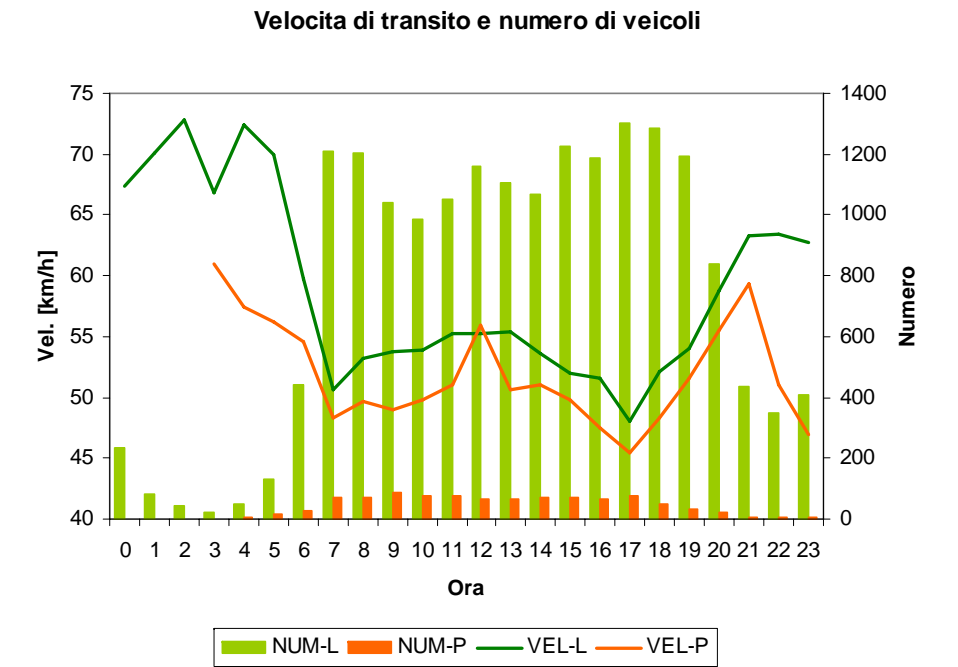
NOTE GENERALI
 Estrazione misura dalle 12:30 del 15/12 alle 12:30 del 16/12

TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	



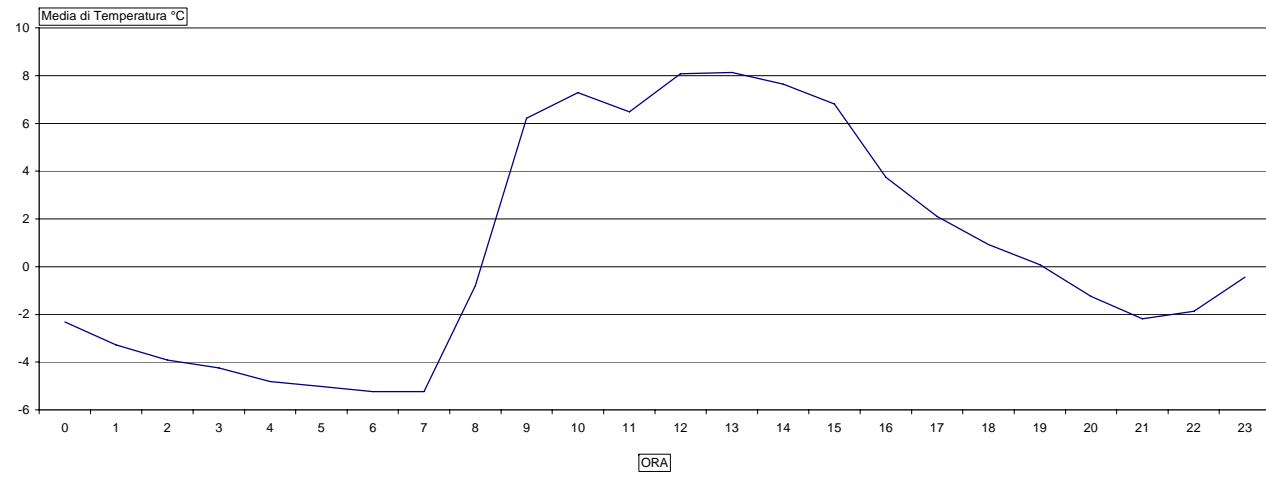


ORARIO	LEGGERI	PESANTI
0	67	40
1	70	-
2	73	-
3	67	61
4	72	58
5	70	56
6	60	55
7	51	48
8	53	50
9	54	49
10	54	50
11	55	51
12	55	56
13	55	51
14	54	51
15	52	50
16	52	48
17	48	45
18	52	48
19	54	52
20	59	56
21	63	59
22	63	51
23	63	47
MEDIA D	54	51
MEDIA N	68	52

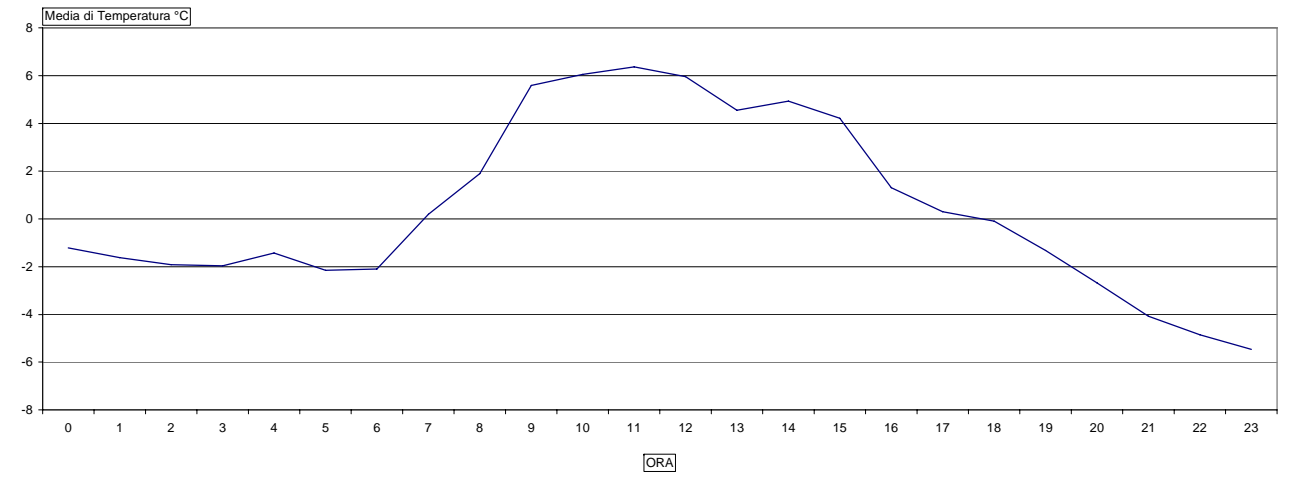


VELOCITA' DI TRANSITO

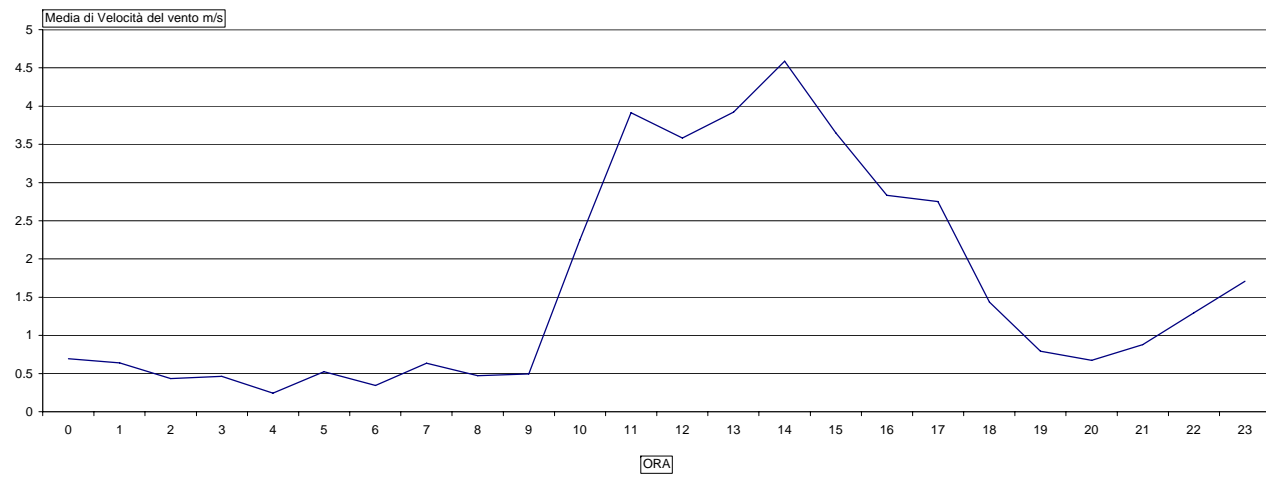
15/12/2010



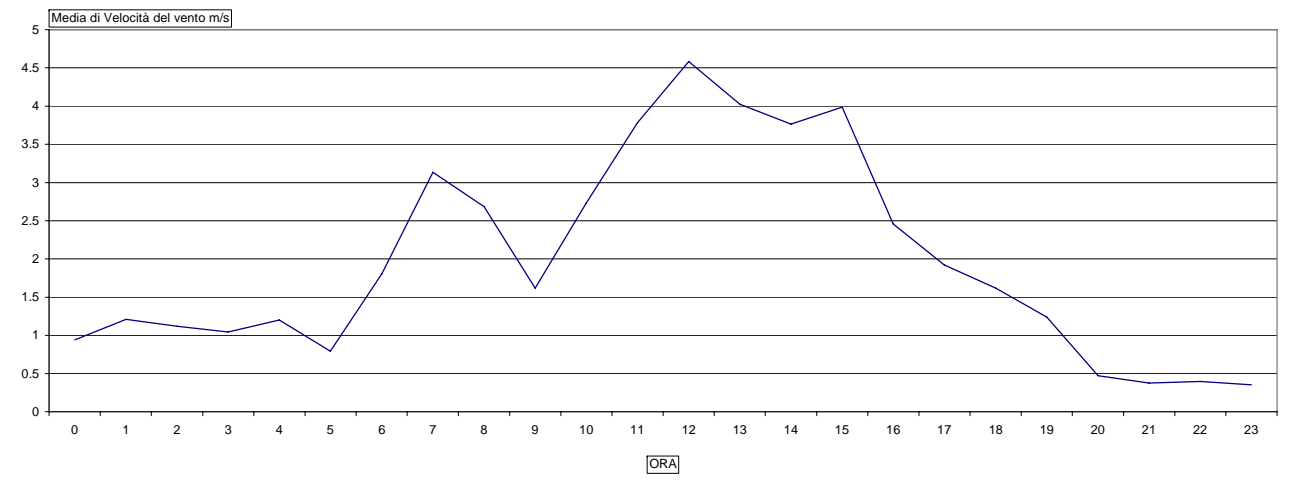
16/12/2010



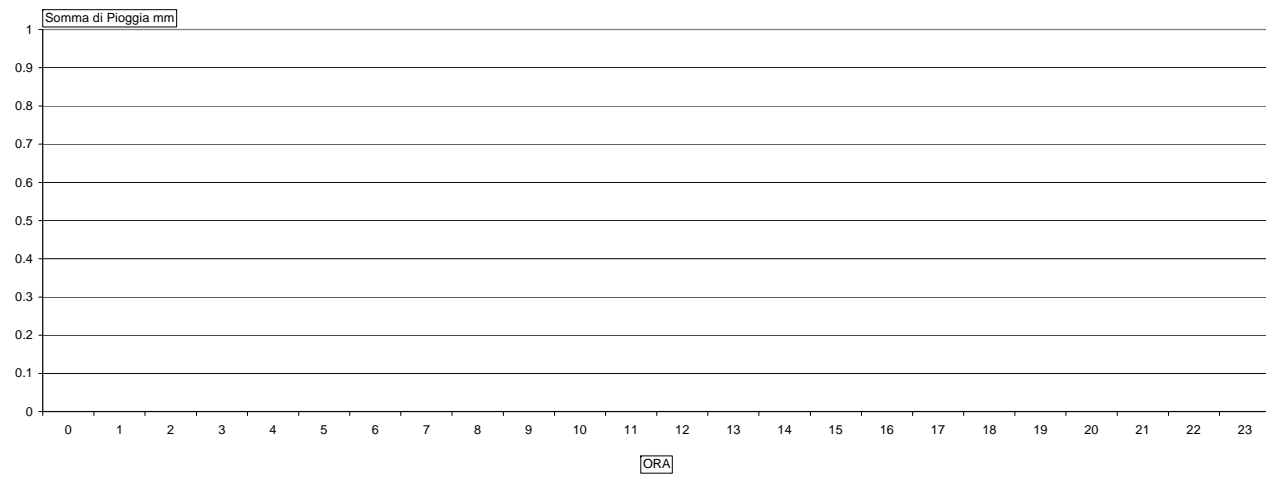
15/12/2010



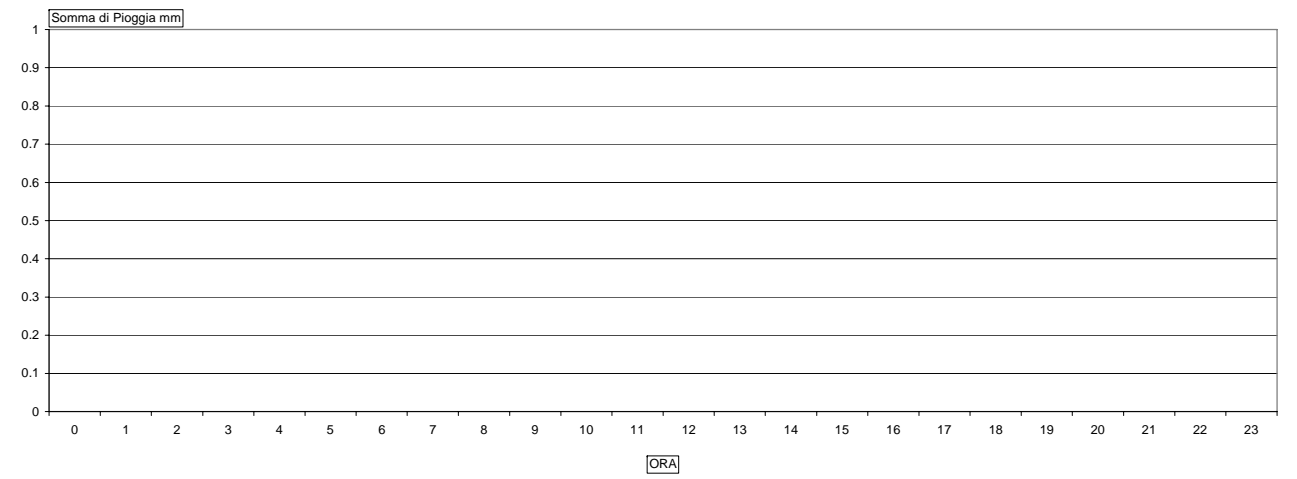
16/12/2010



15/12/2010



16/12/2010



Misura fonometrica G2

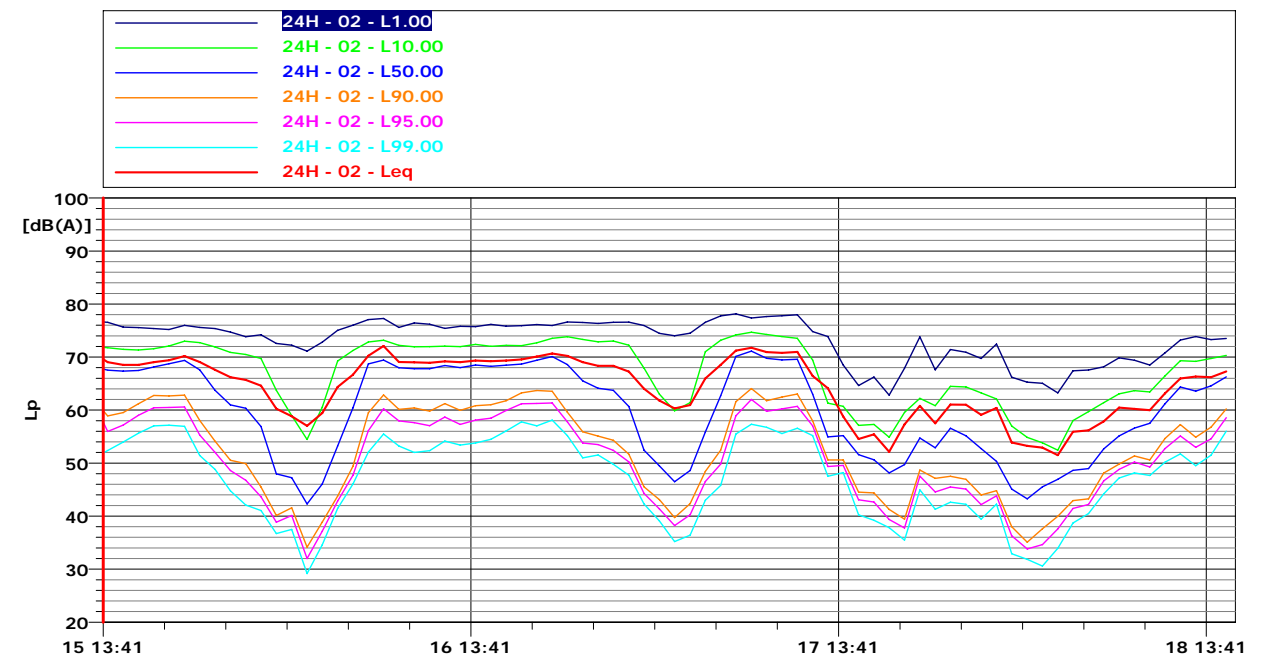
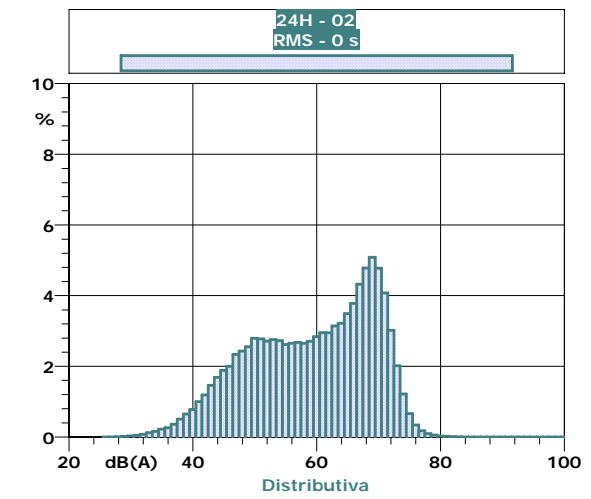
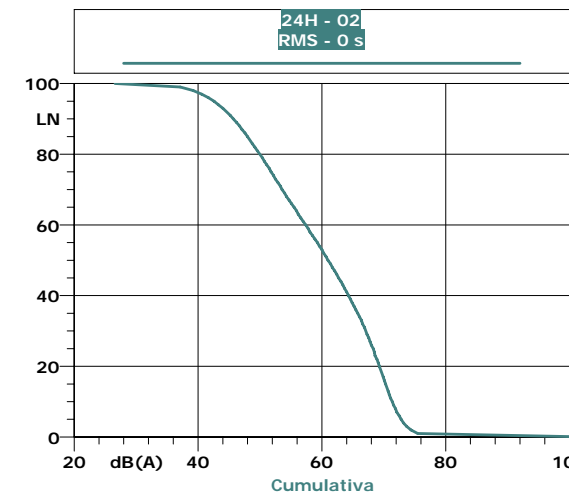
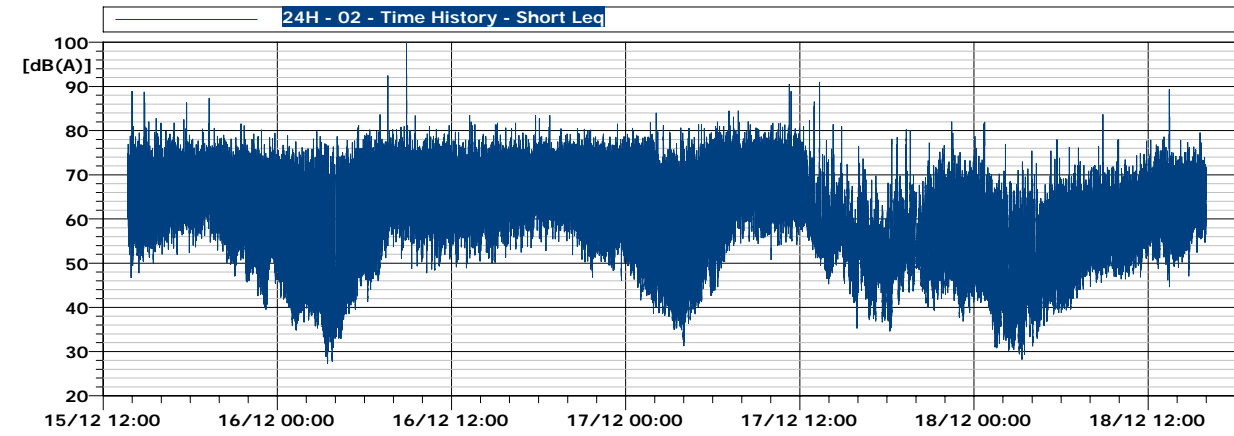
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Agliana (PT)	Inizio	15/12/2010	13:41
Indirizzo	S.P. 6 - Ponte alla trave	Fine	18/12/2010	15:58
Progressiva km	19+330	Fonometro	Larson Davis 824	S. N. A2899
Distanza infrastruttura	8.0 [m]	Tipologia tracciato	Raso	
Nome infrastruttura	S.P. 6 - Ponte alla trave	Tipologia asfalto	Drenante	

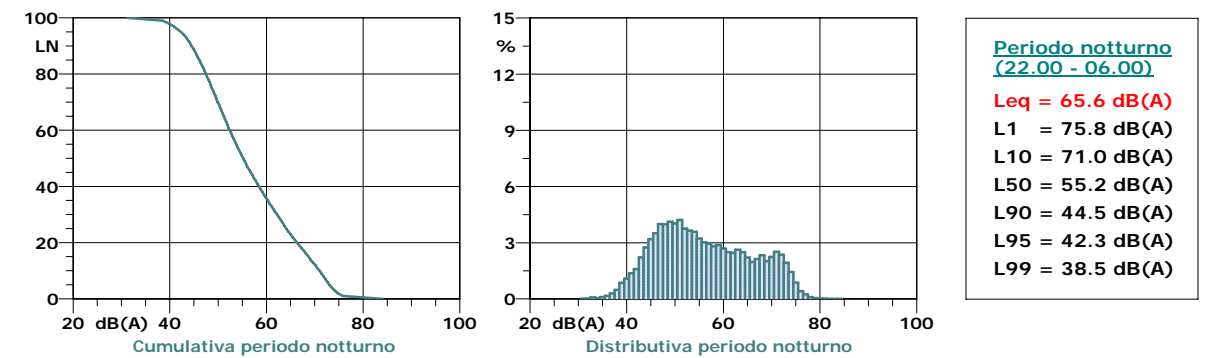
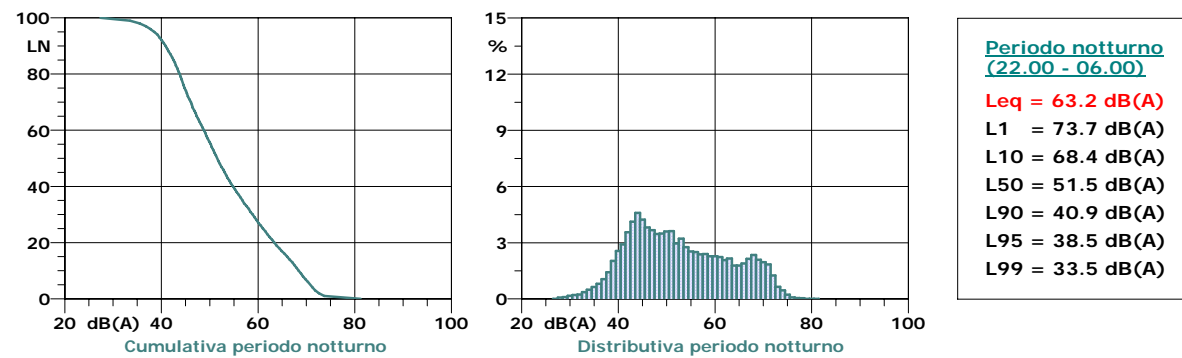
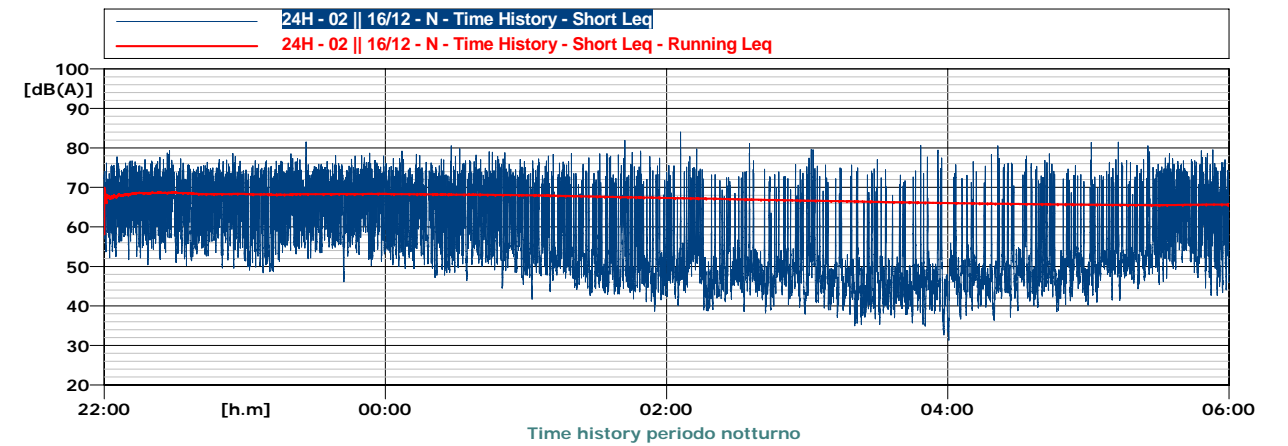
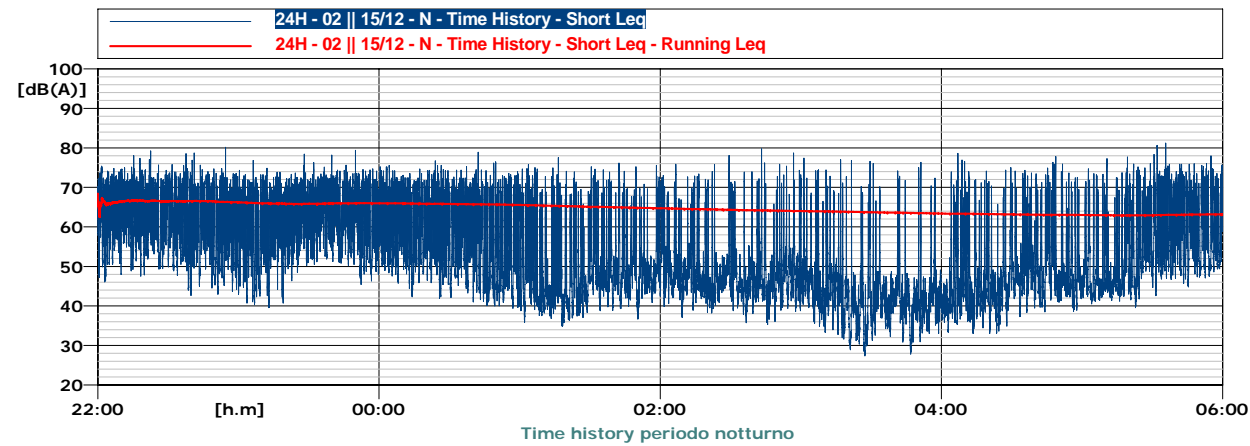
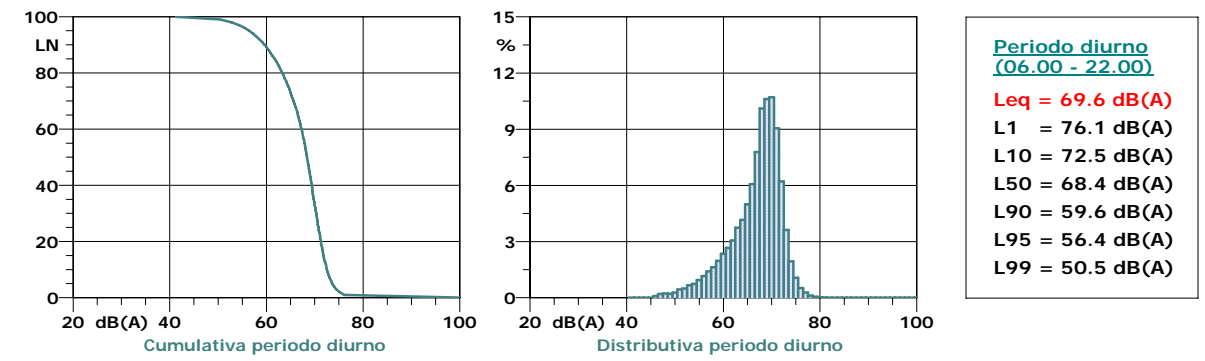
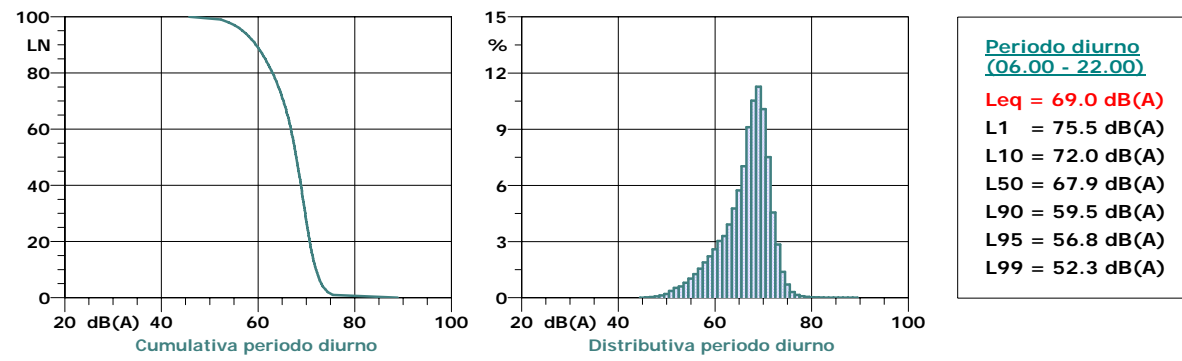
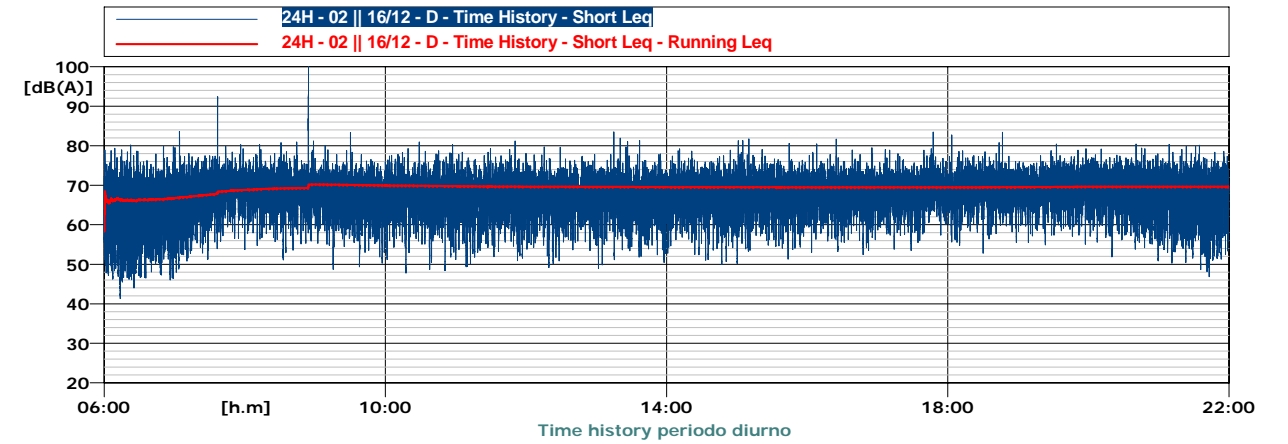
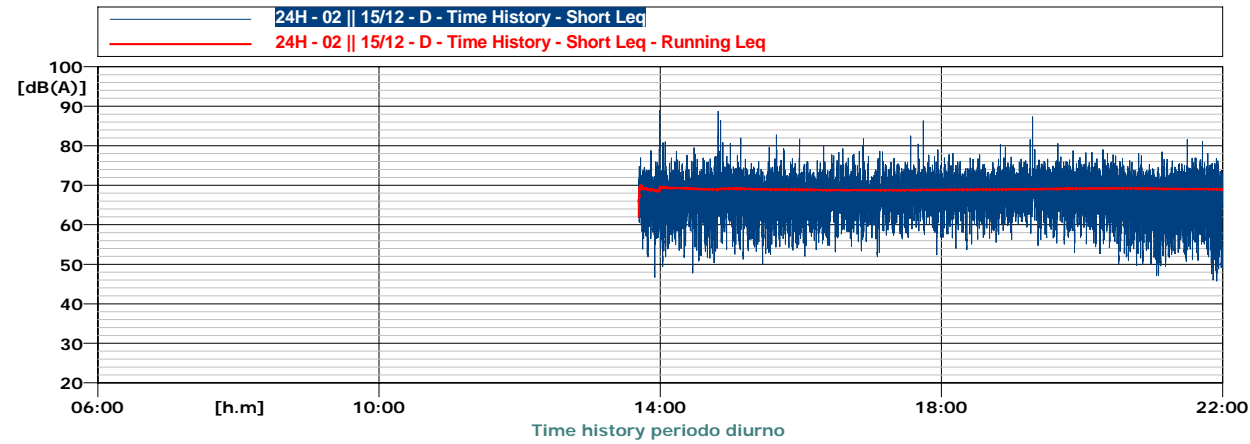


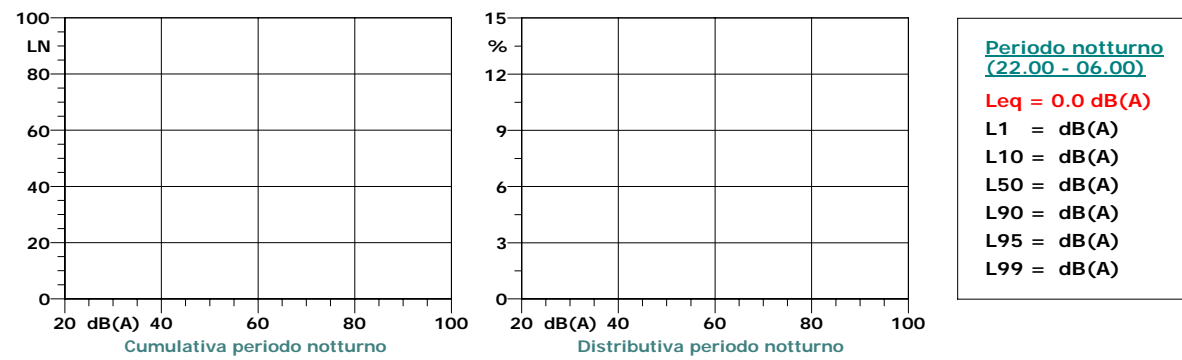
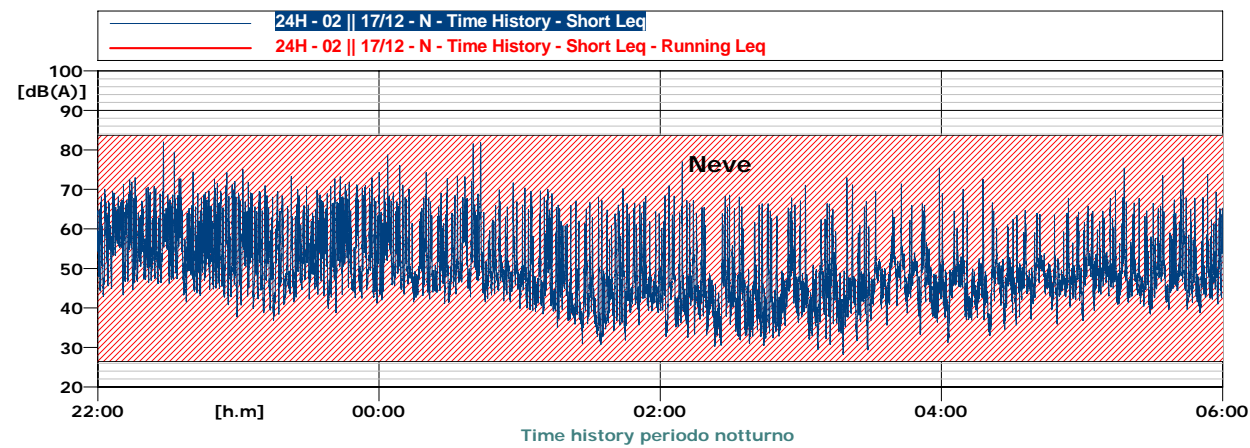
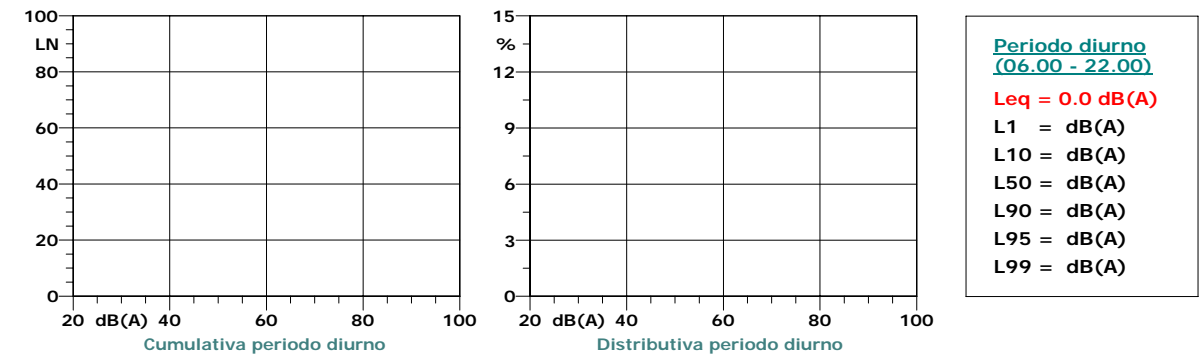
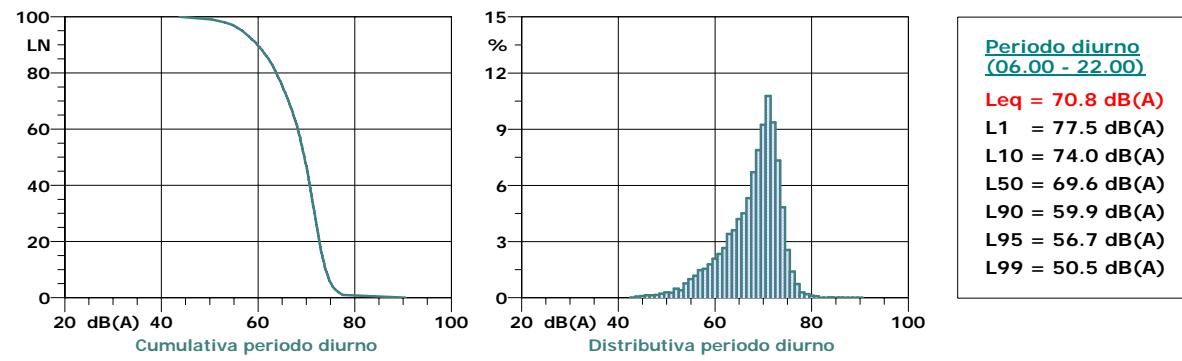
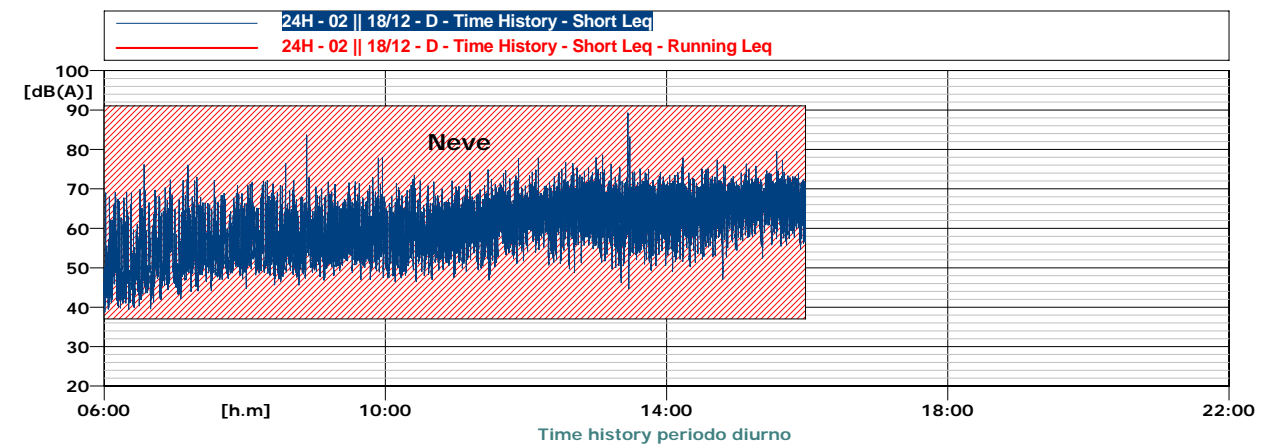
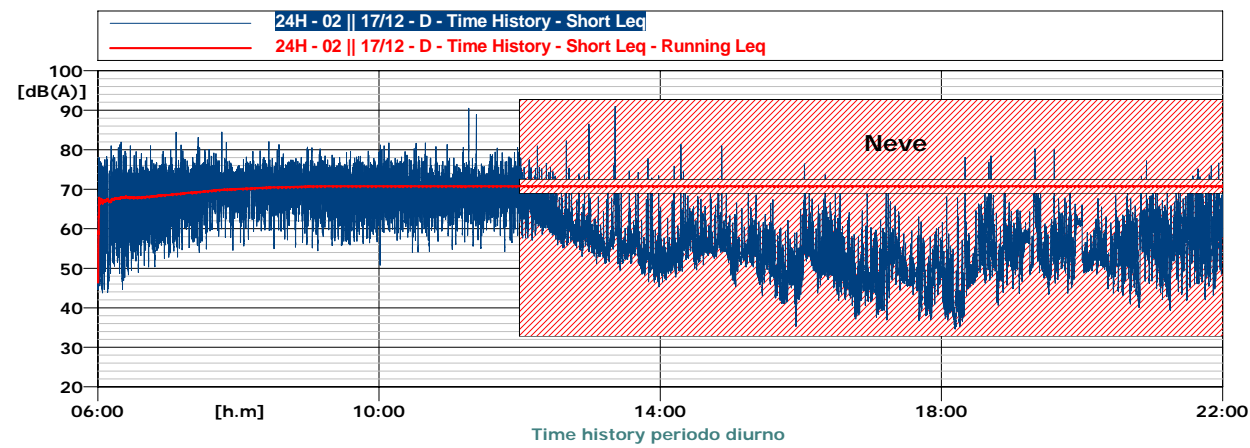
MISURA	PERIODO	LUN	MAR	MER	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 – 22				69.6					[dB(A)]
	Notturmo 22 – 06				65.6					
Numero veicoli	Diurno 06 – 22				20307					Leggeri
	Notturmo 22 – 06				1212					Pesanti
					2117					Leggeri
				69						Pesanti

NOTE
 Estrazione misura dalle 06:00 del 16/12 alle 06:00 del 17/12
 Mascheratura durante condizioni meteo incompatibili (neve, pioggia)

TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	

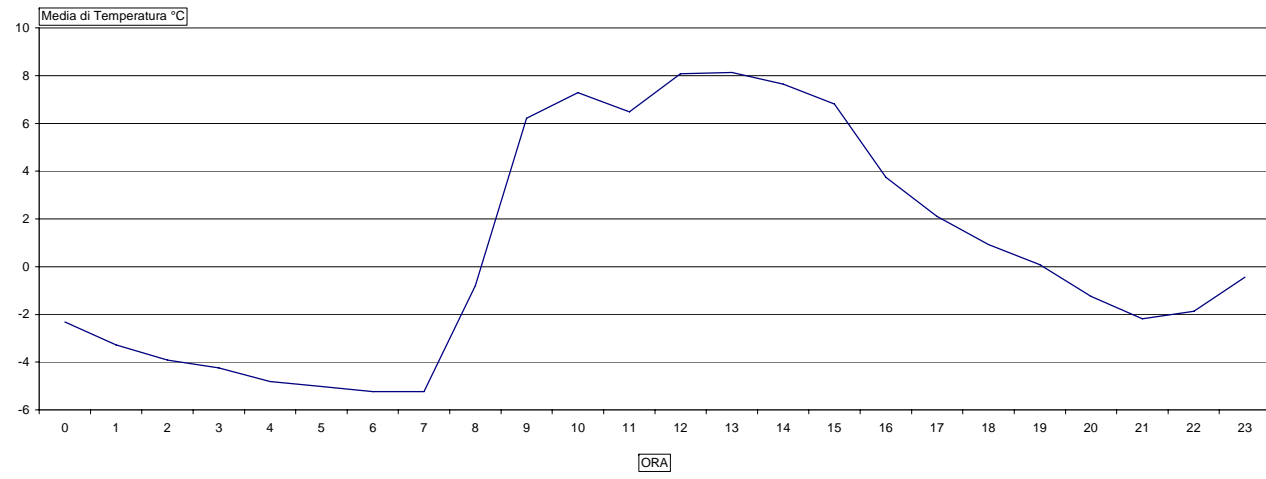




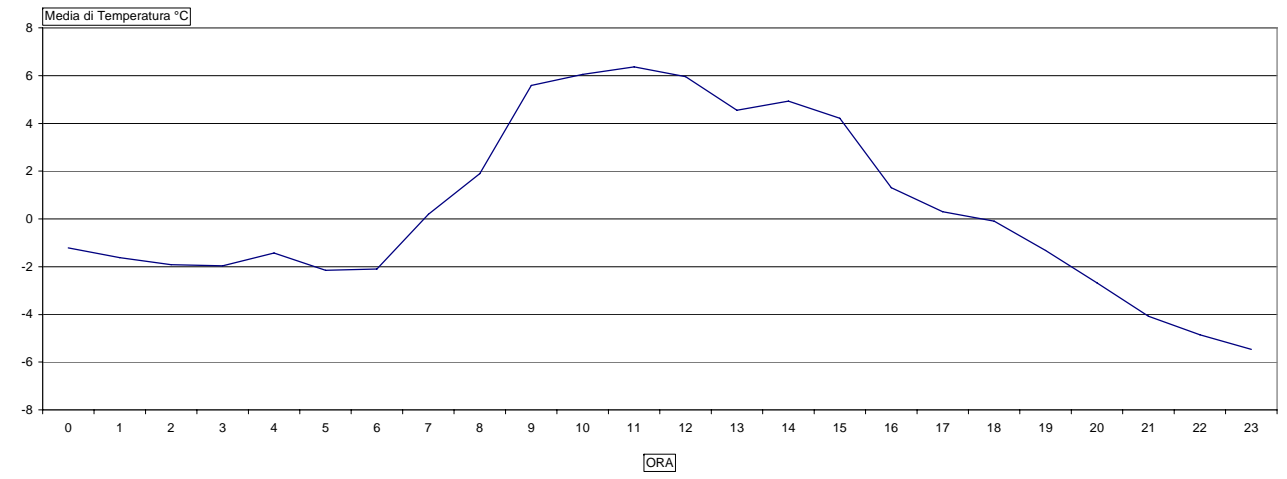


VELOCITA' DI TRANSITO		
ORARIO	LEGGERI	PESANTI
0	63	62
1	67	53
2	64	55
3	70	64
4	70	62
5	66	62
6	58	53
7	50	46
8	50	48
9	51	47
10	50	47
11	46	41
12	23	24
13	45	52
14	53	49
15	52	49
16	51	47
17	49	44
18	49	48
19	53	49
20	57	58
21	60	55
22	59	53
23	61	51
MEDIA D	50	47
MEDIA N	65	58

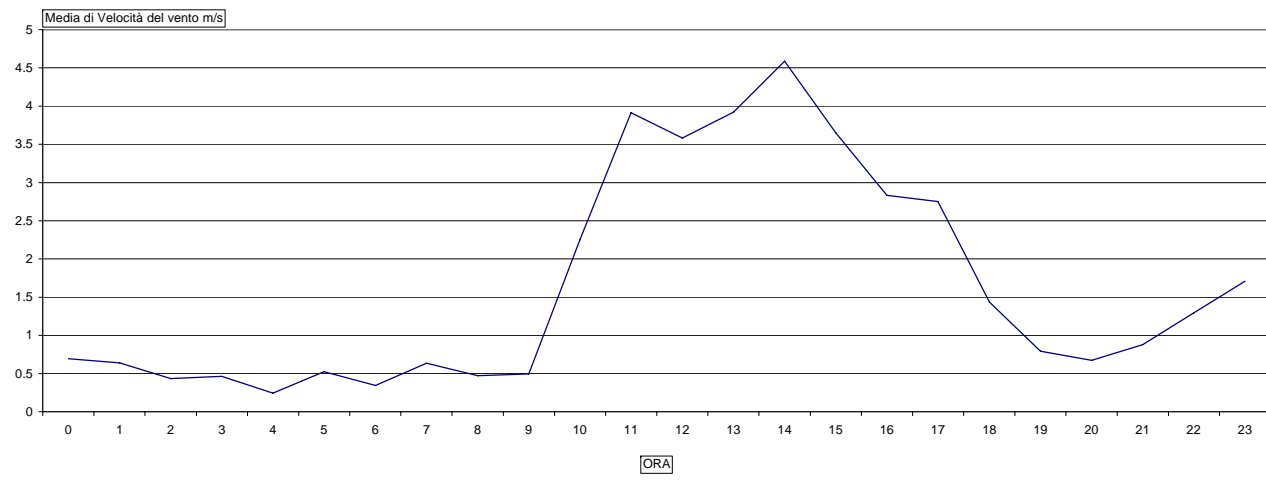
15/12/2010



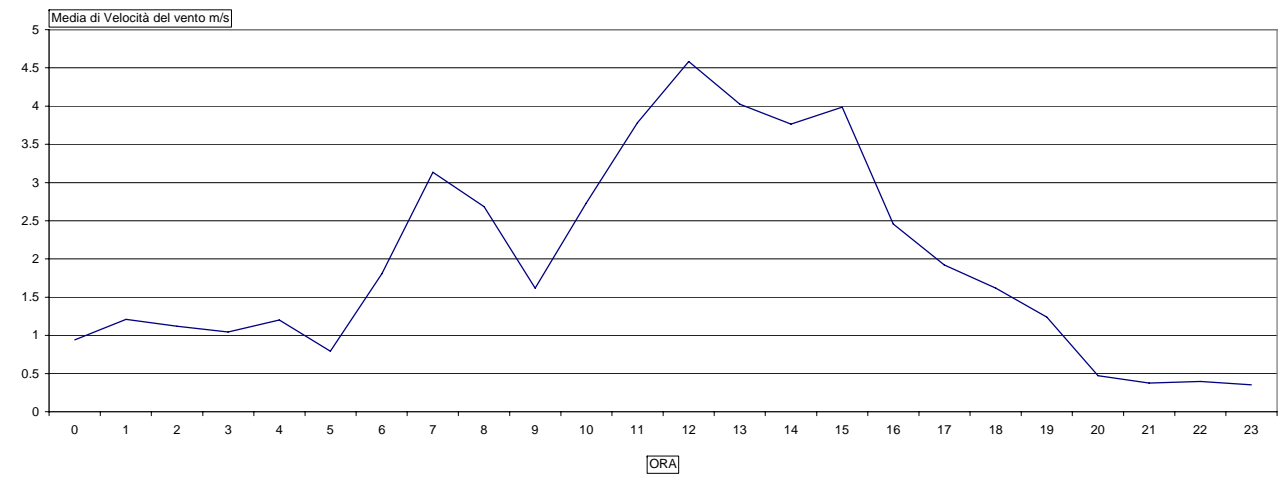
16/12/2010



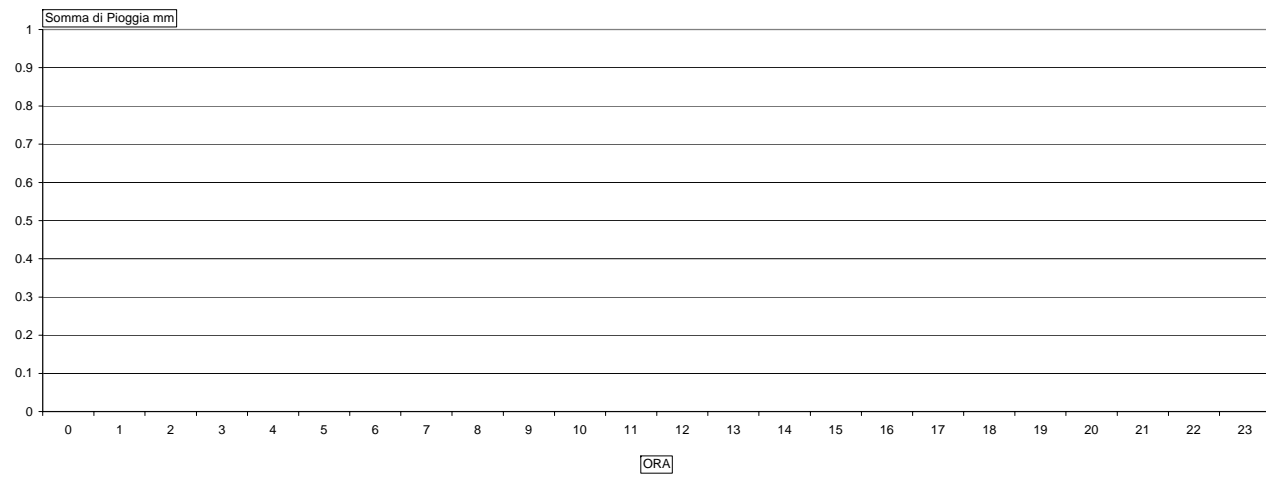
15/12/2010



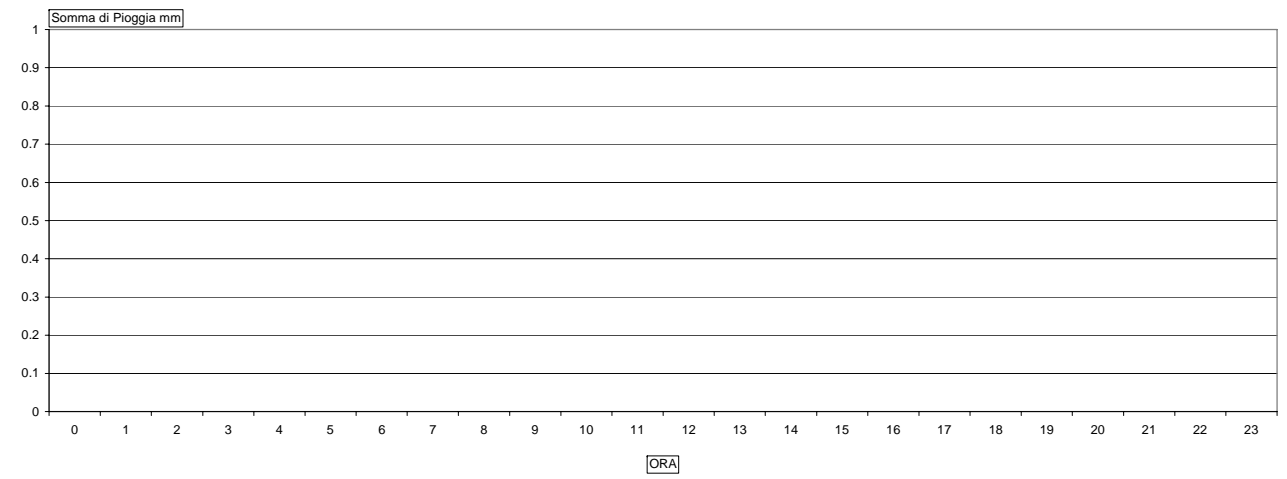
16/12/2010



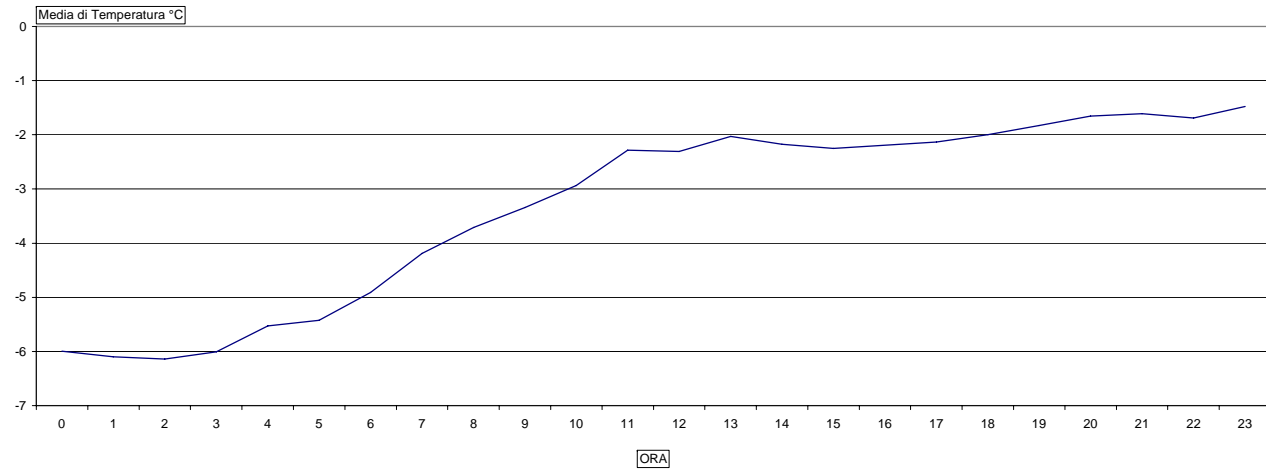
15/12/2010



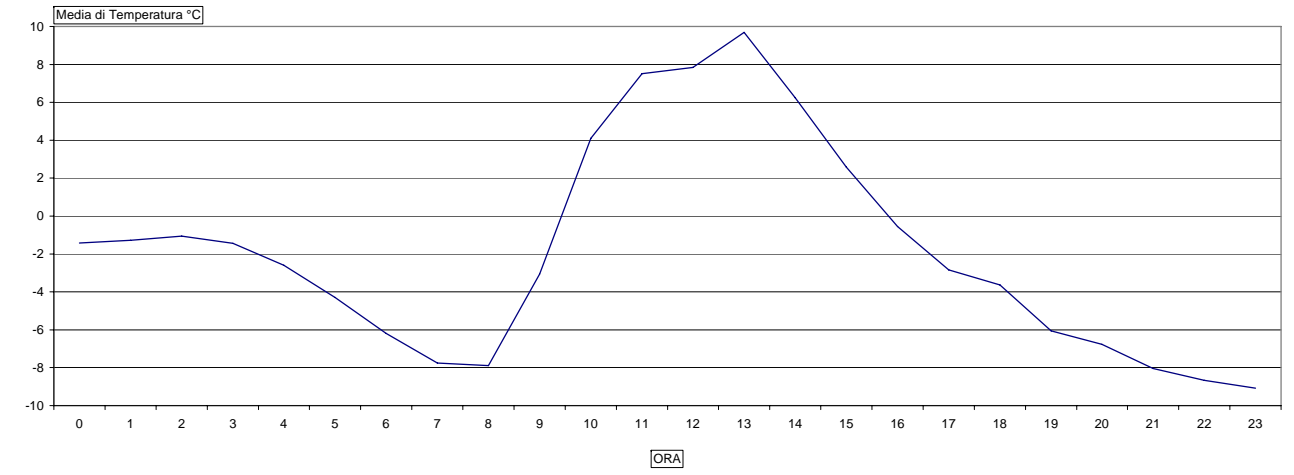
16/12/2010



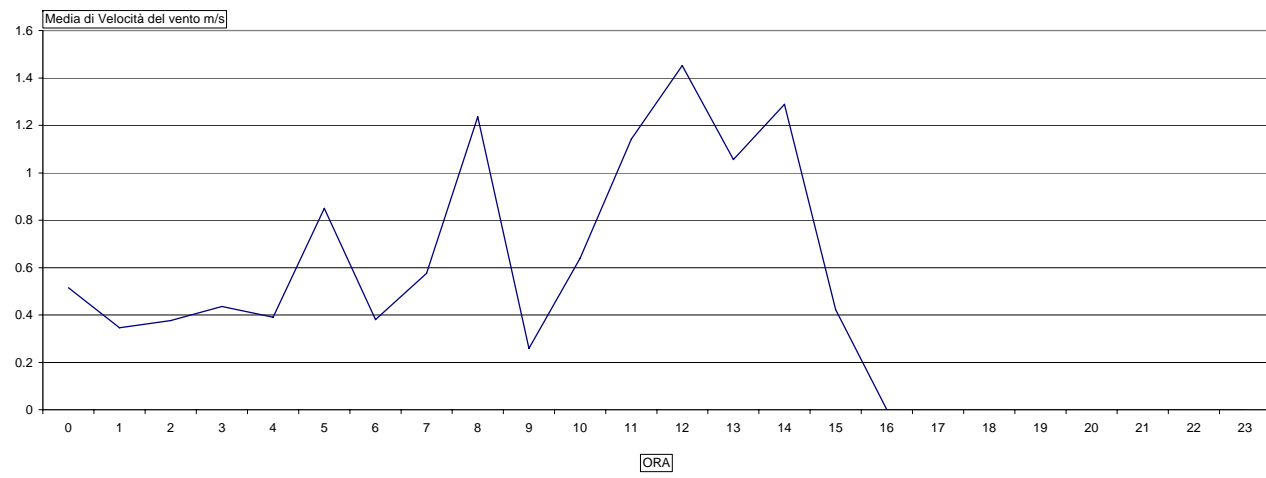
17/12/2010



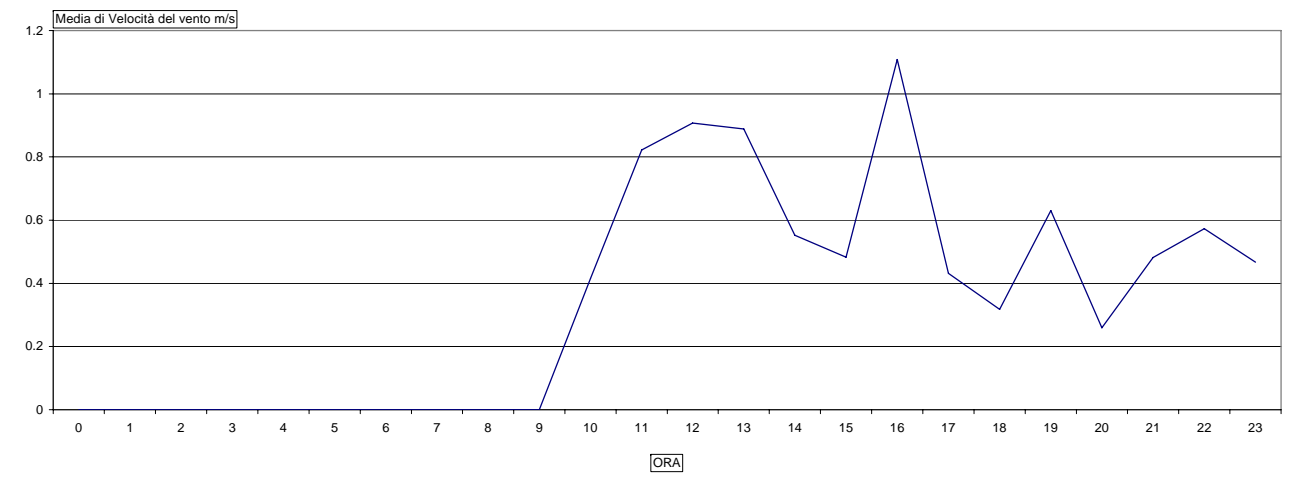
18/12/2010



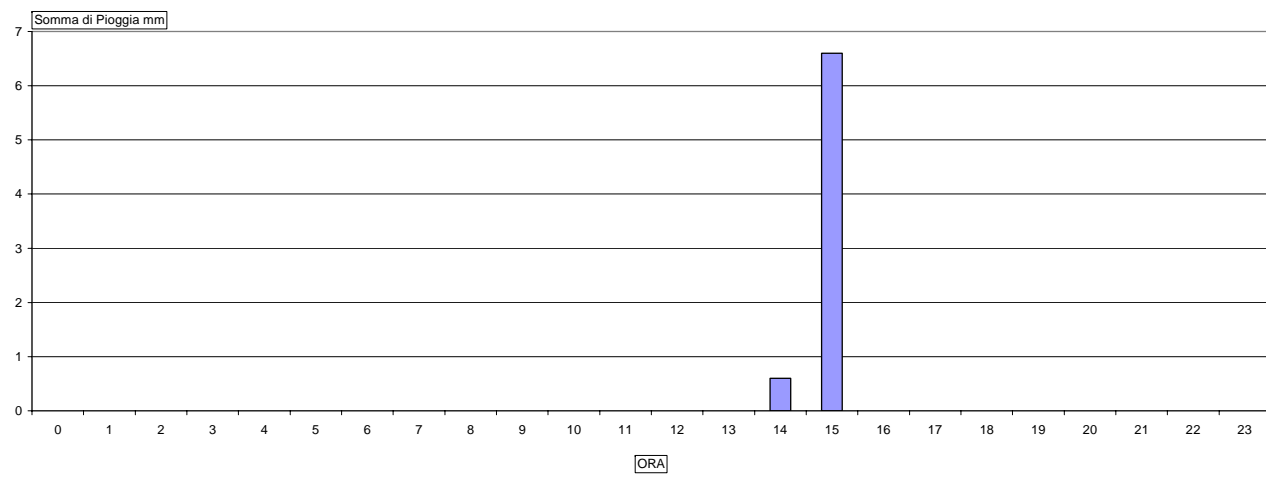
17/12/2010



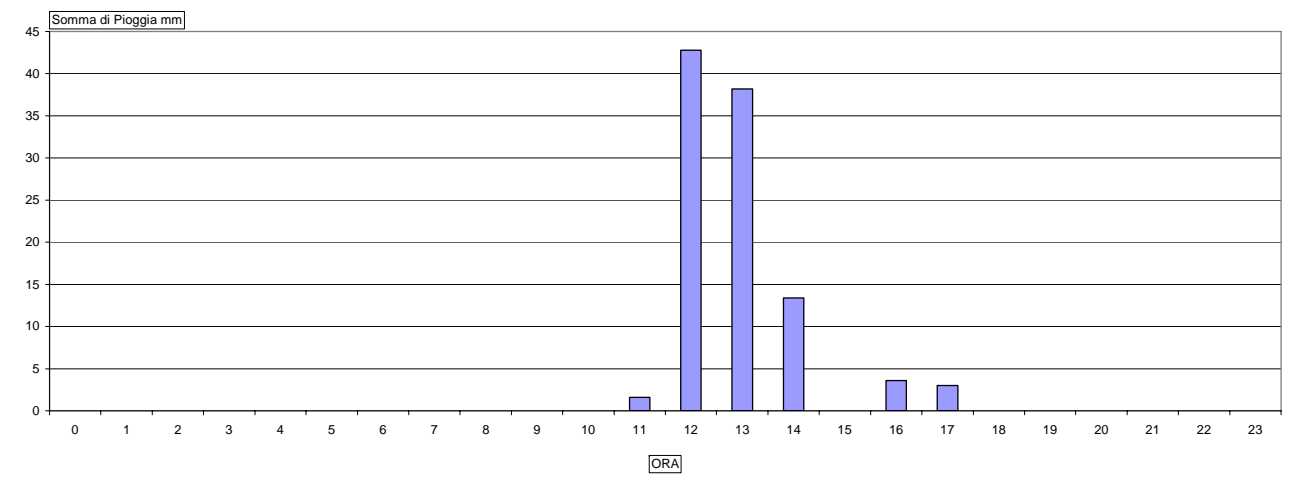
18/12/2010



17/12/2010

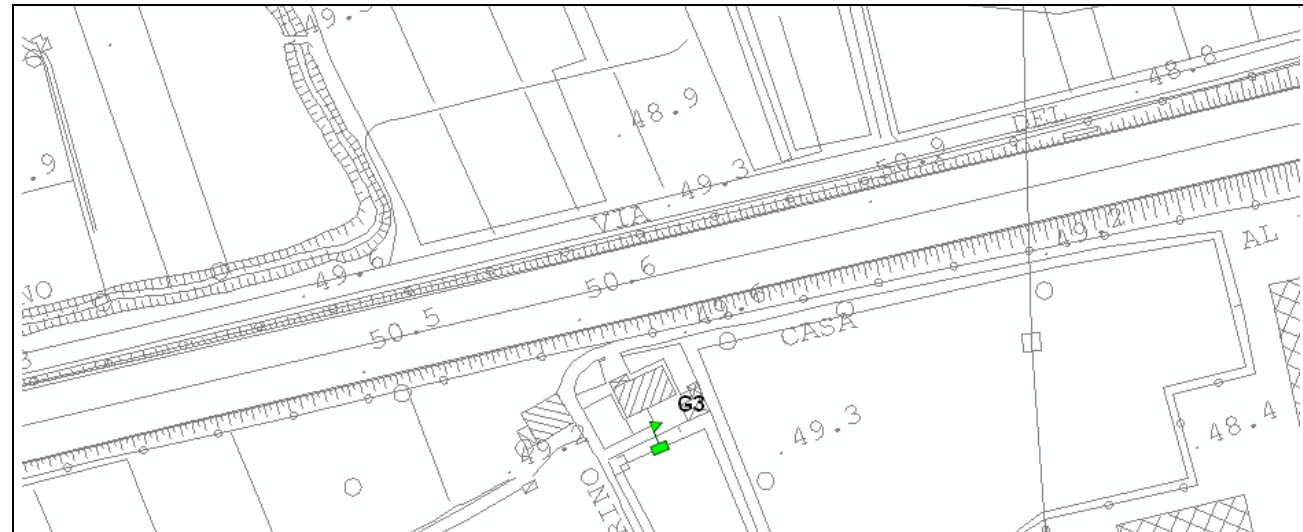


18/12/2010



Misura fonometrica G3

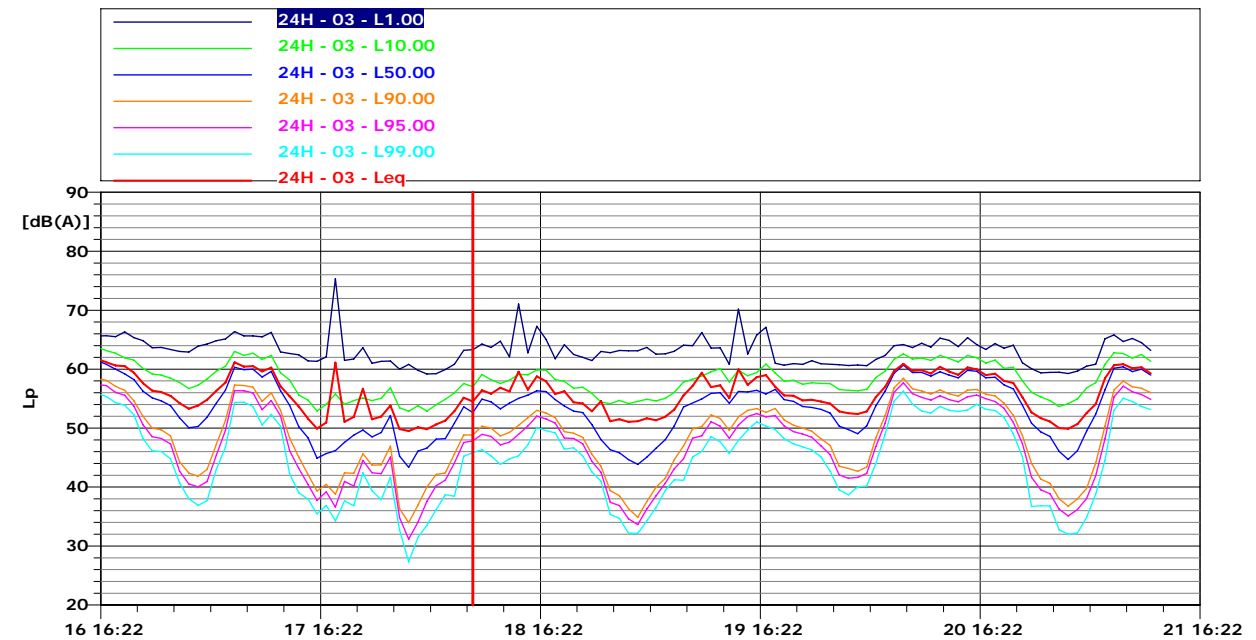
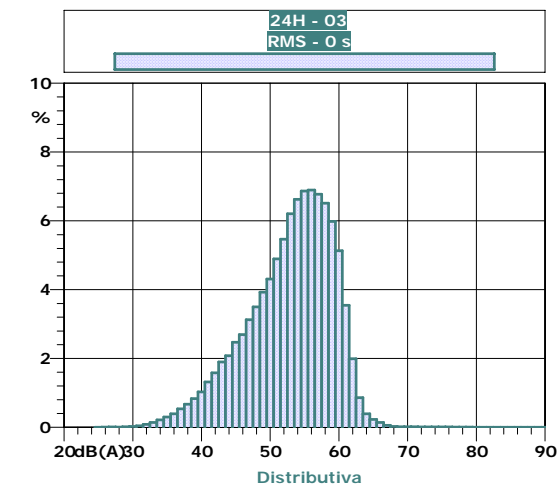
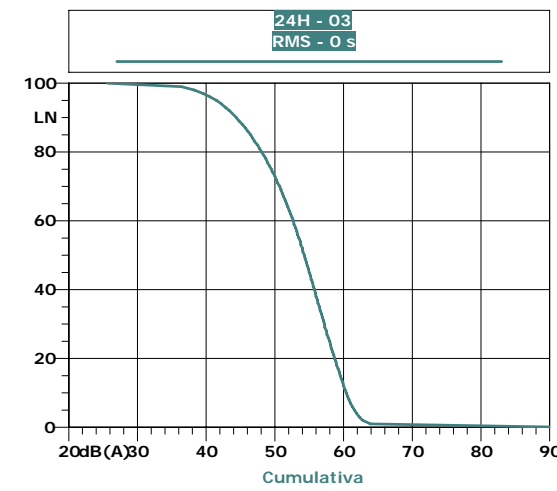
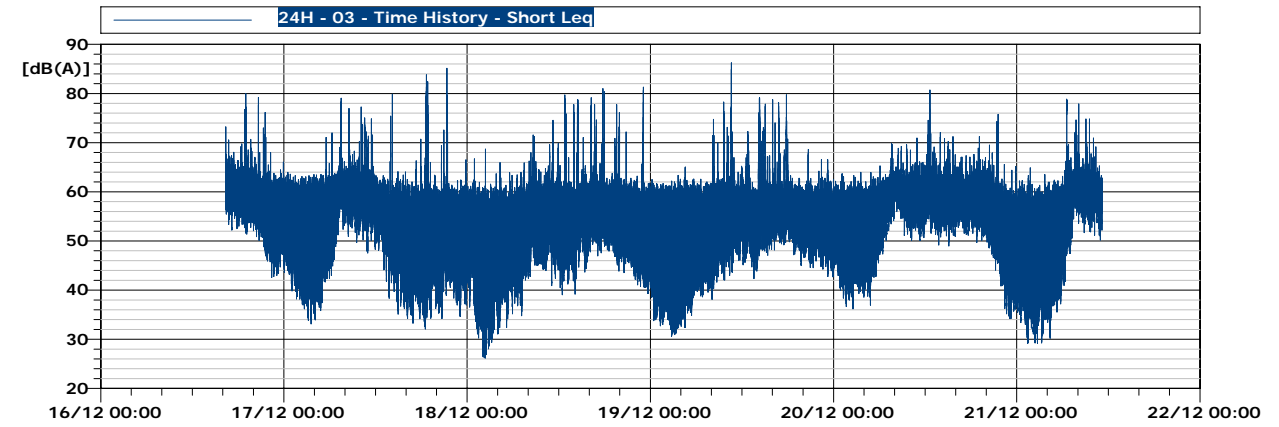
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Pistoia	Inizio	16/12/2010	16:22
Indirizzo	Via San Pierino	Fine	21/12/2010	11:09
Progressiva km	25+600	Fonometro	Larson Davis 824	S. N. A3735
Distanza infrastruttura	40.0 [m]	Tipologia tracciato	Raso	
Nome infrastruttura	Autostrada A11	Tipologia asfalto	Drenante	

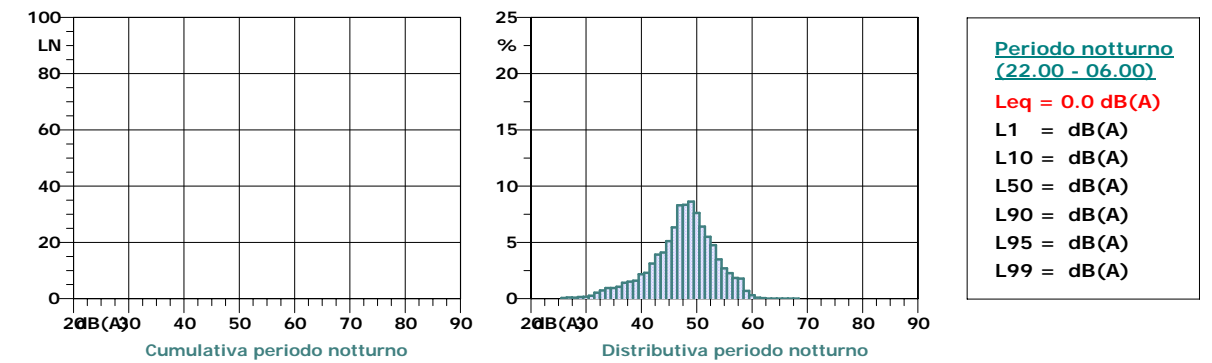
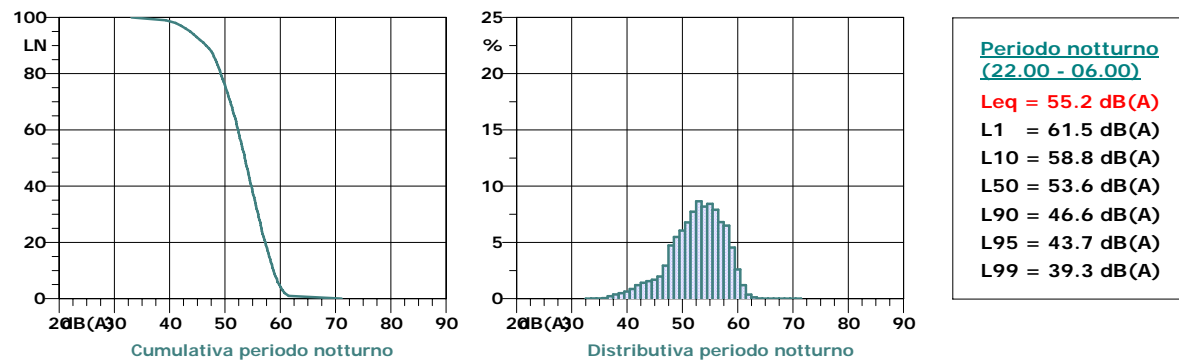
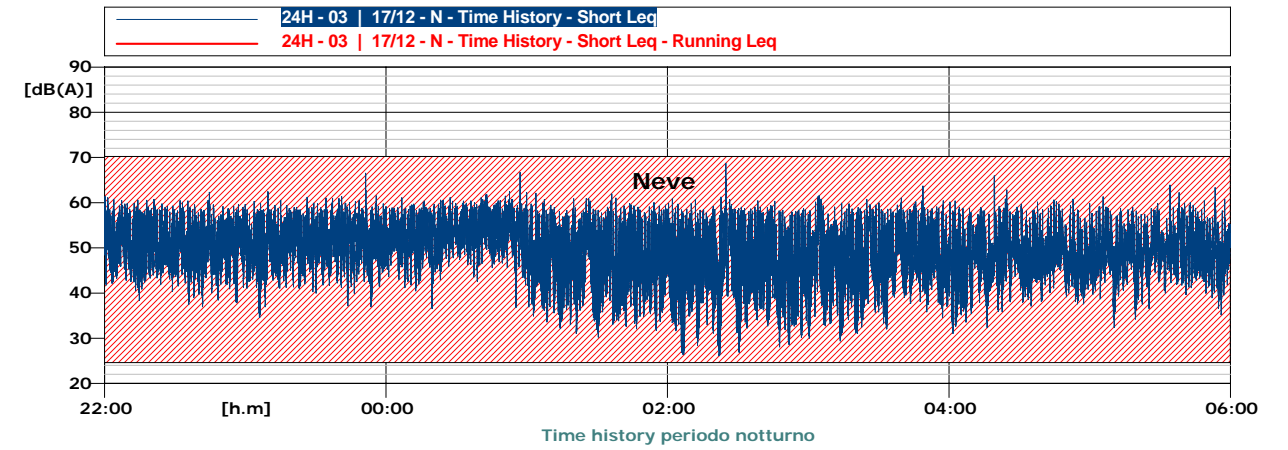
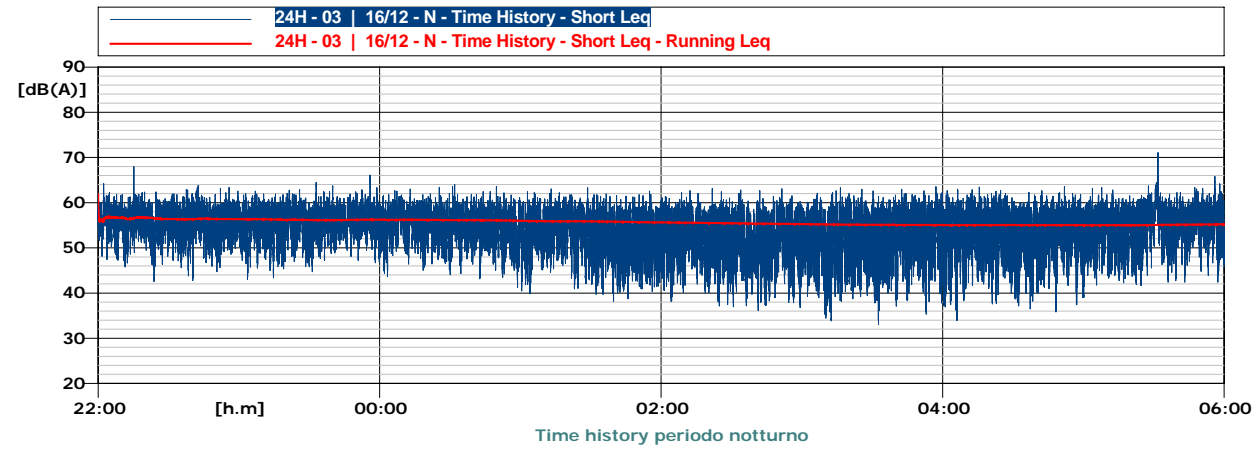
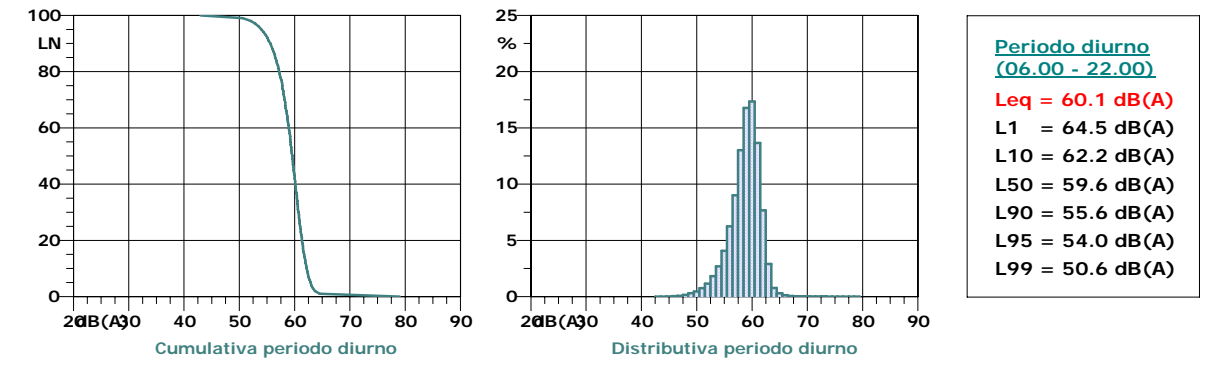
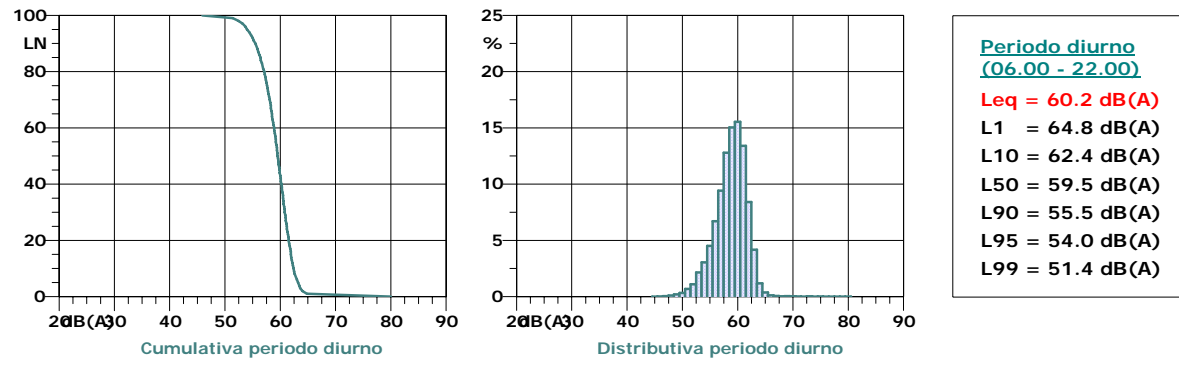
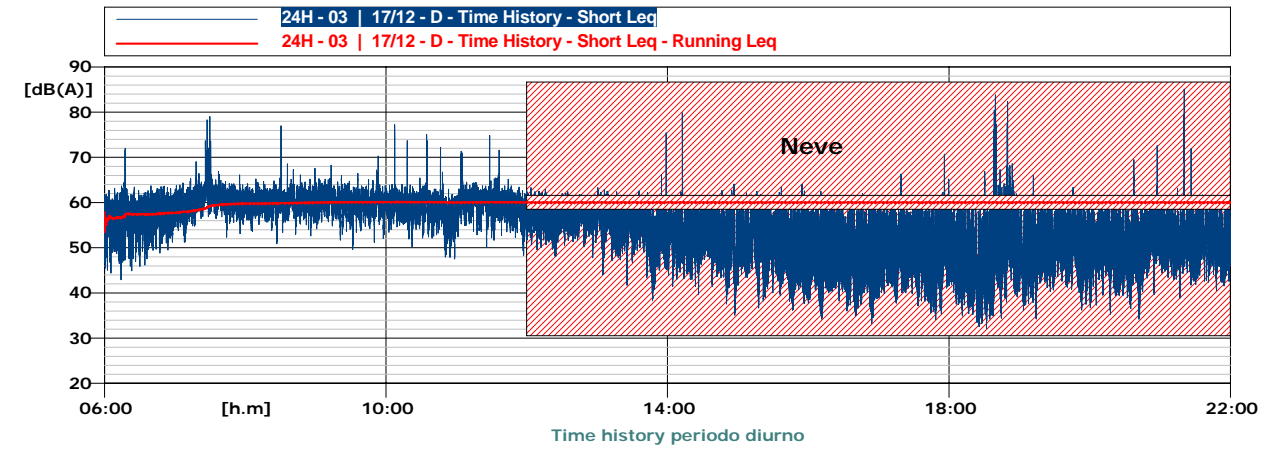
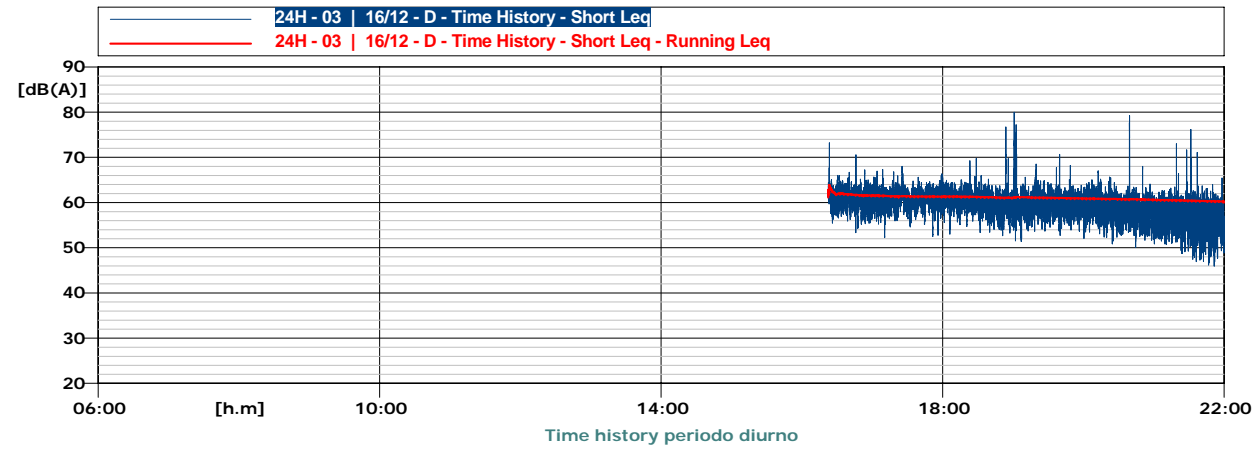


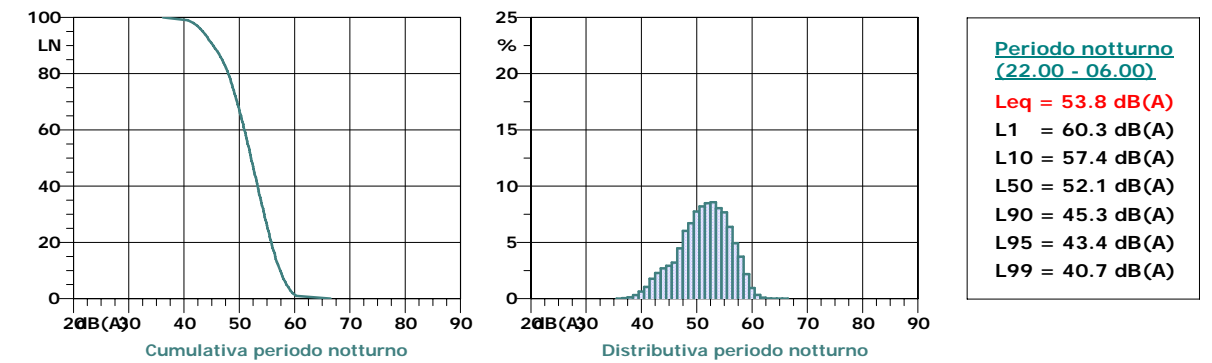
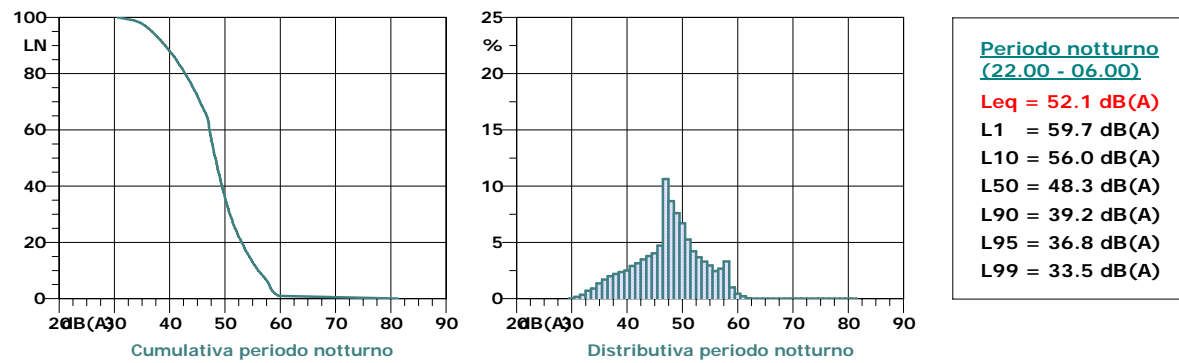
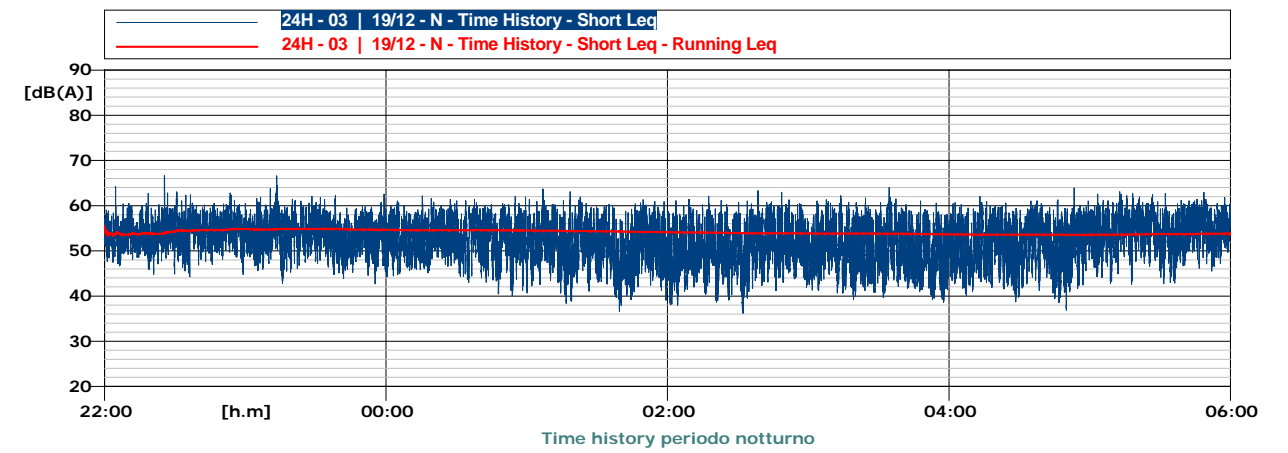
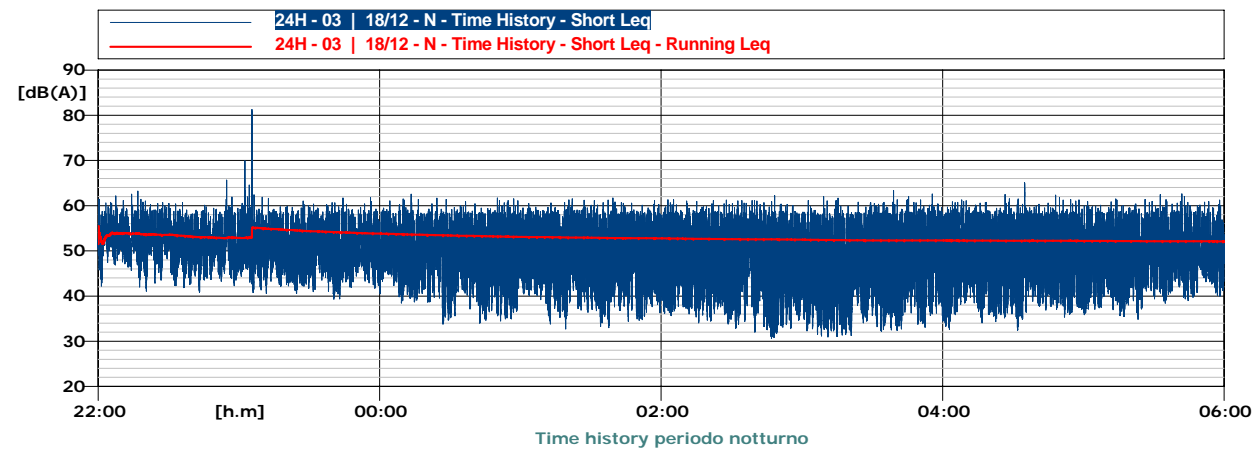
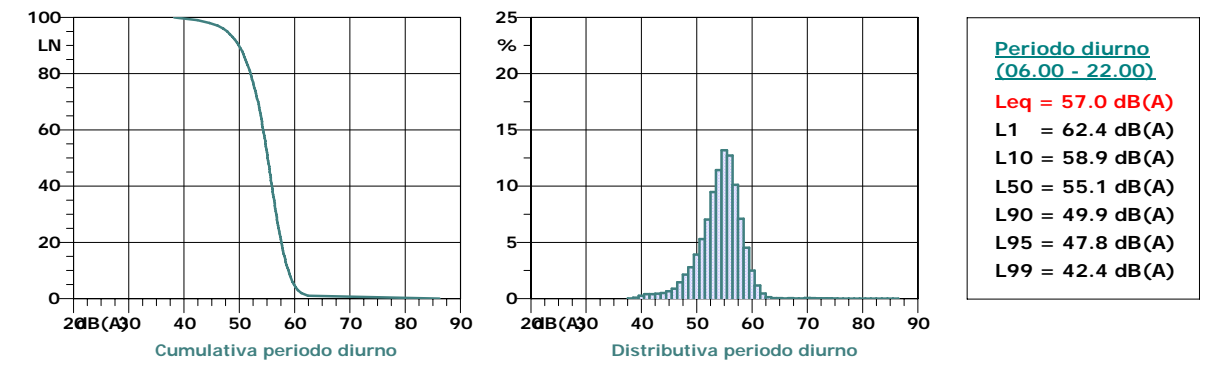
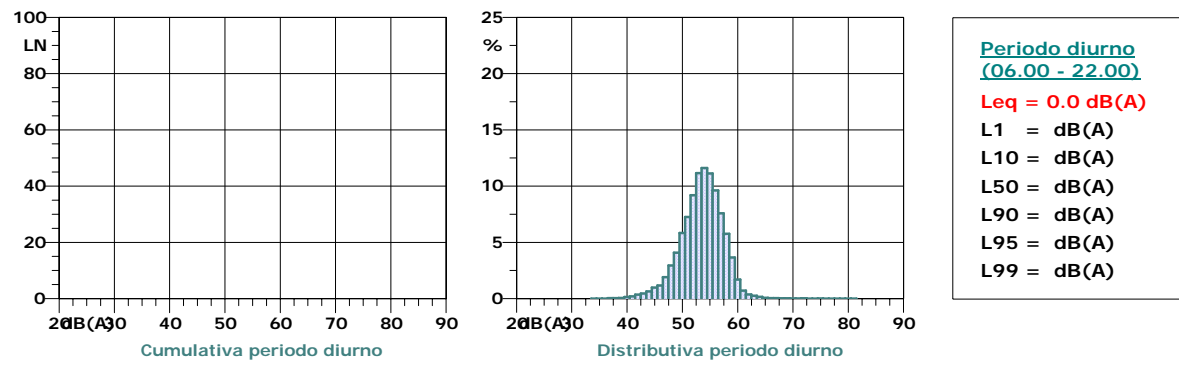
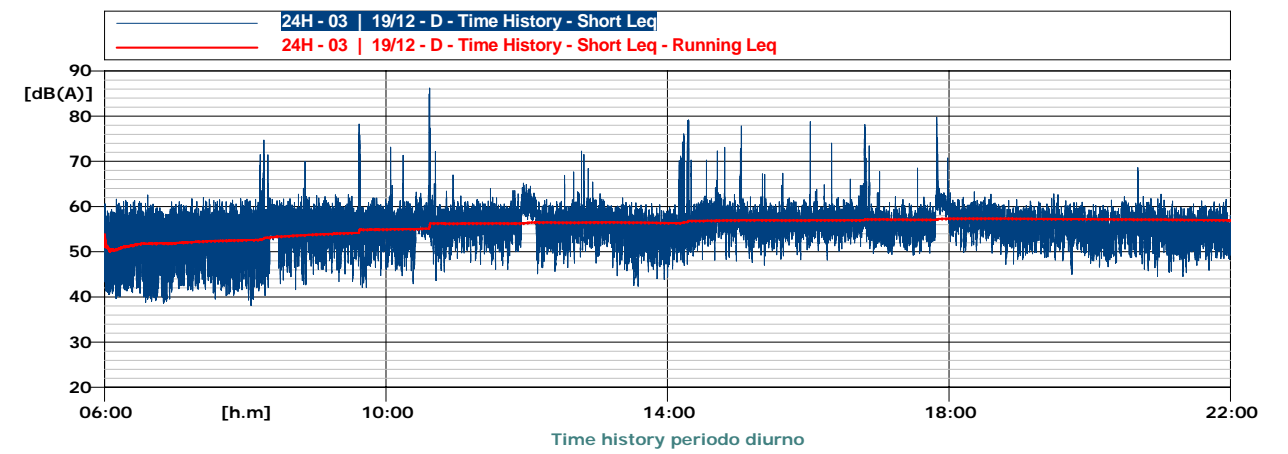
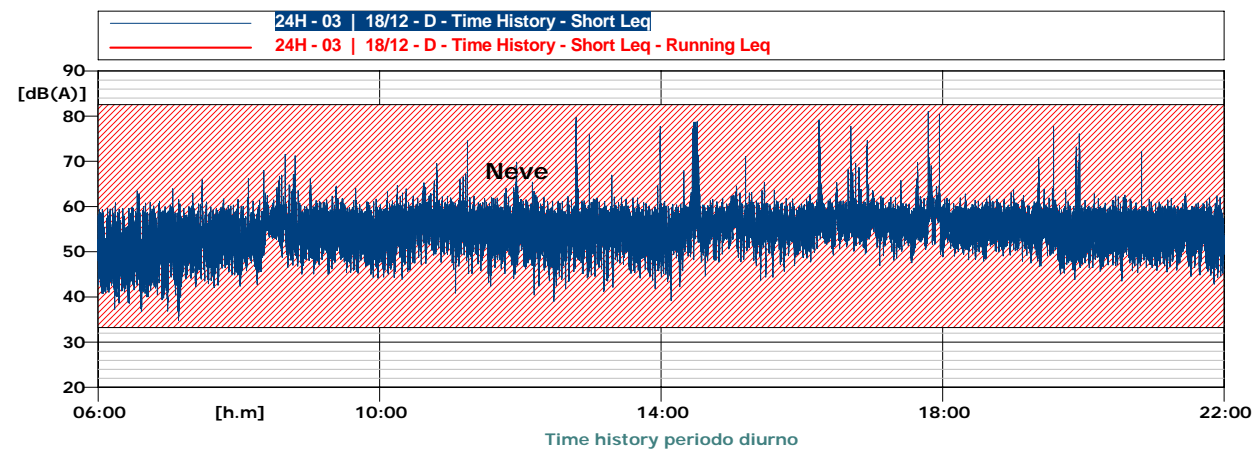
MISURA	PERIODO	LUN	MAR	MER	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 - 22	59.2								[dB(A)]
	Notturmo 22 - 06	51.8								
Numero veicoli	Diurno 06 - 22	n.a.								Leggeri
		n.a.								Pesanti
	Notturmo 22 - 06	n.a.								Leggeri
		n.a.								Pesanti

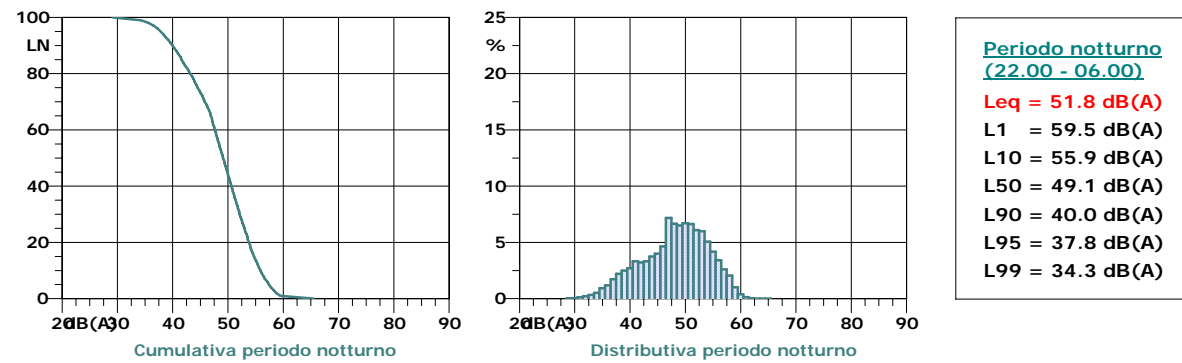
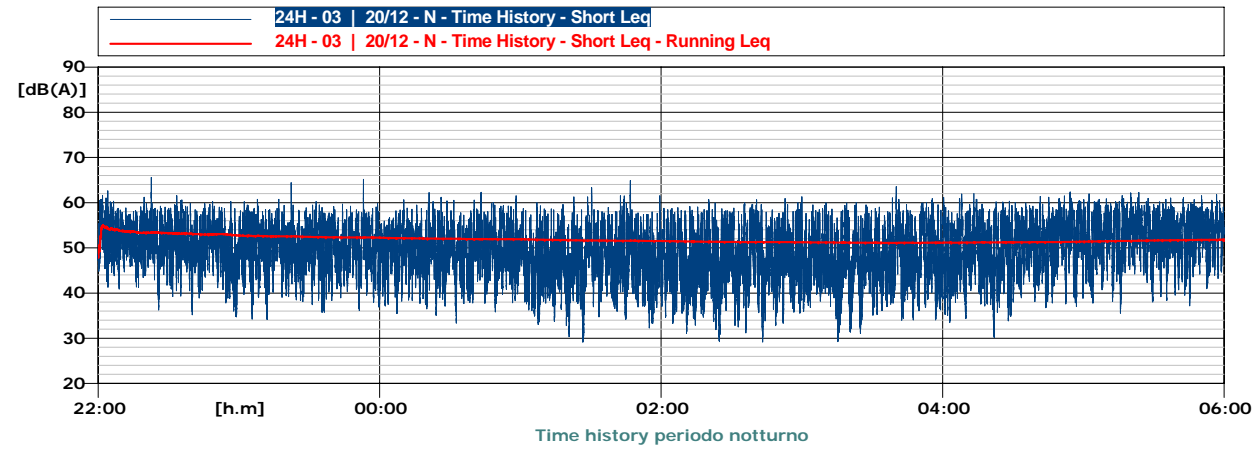
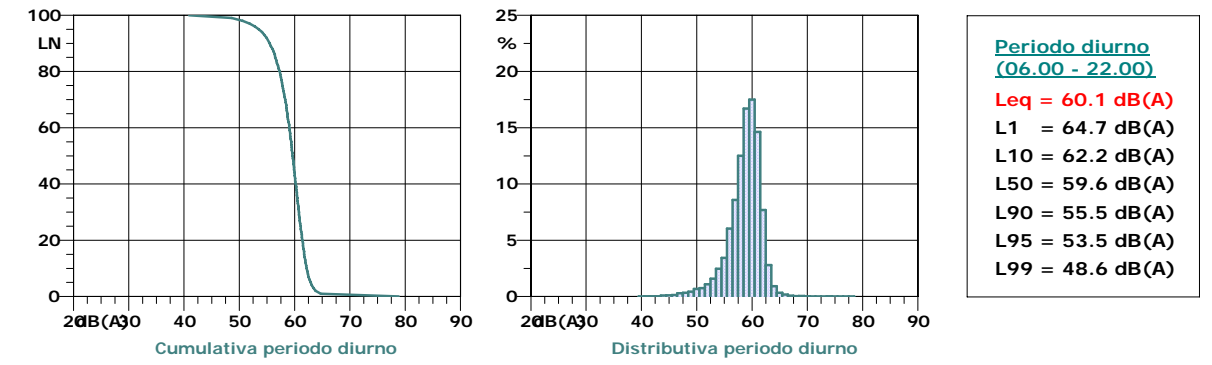
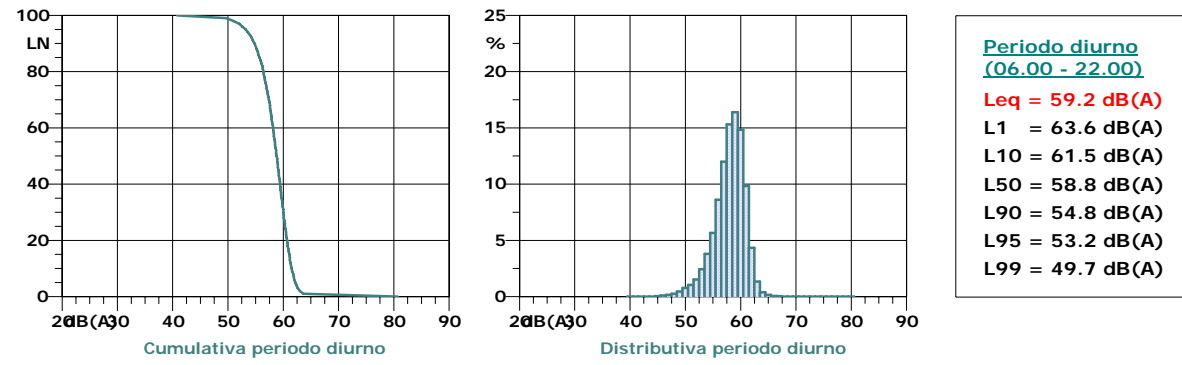
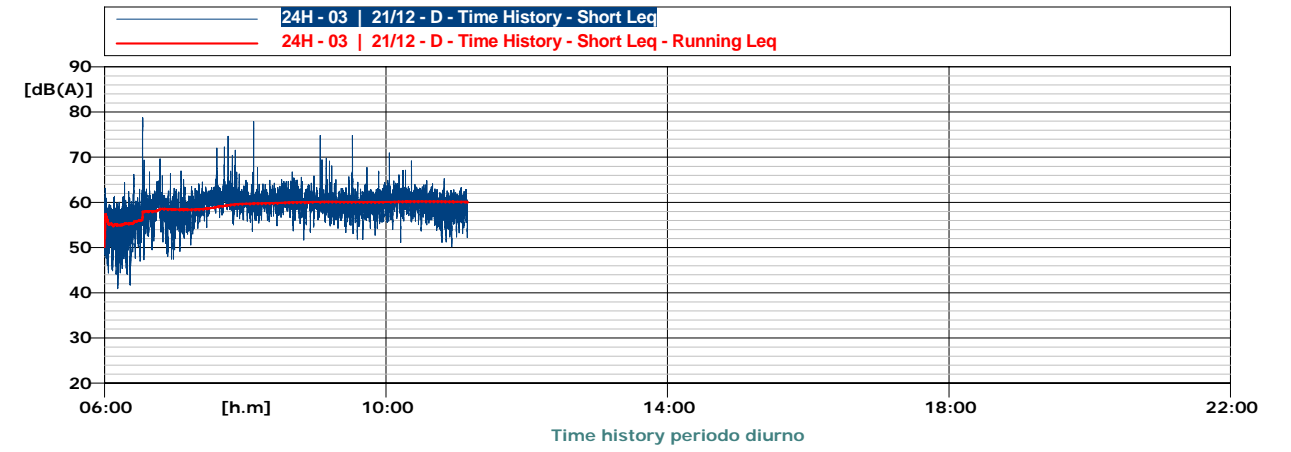
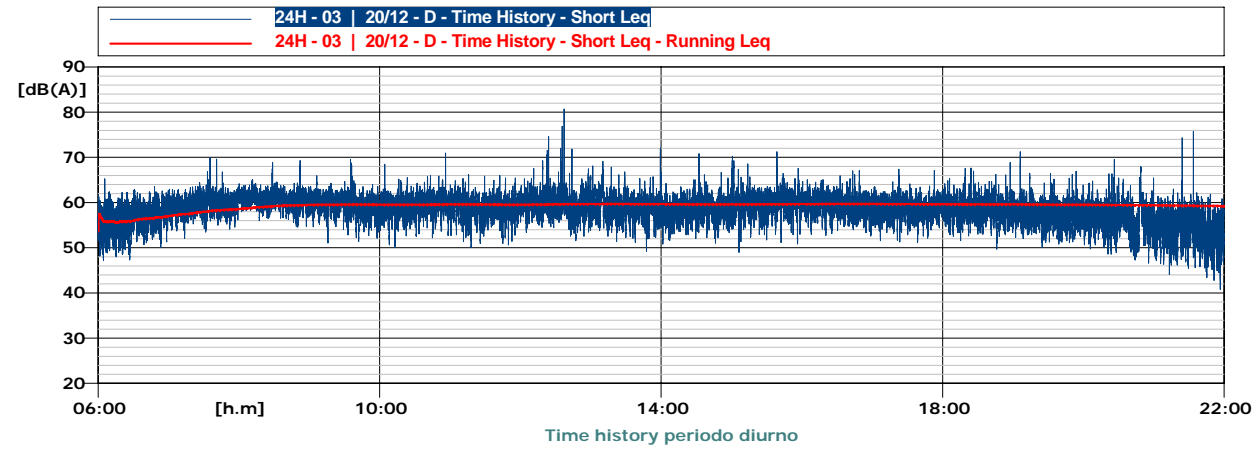
NOTE
 Estrazione misura dalle 06:00 del 20/12 alle 06:00 del 21/12. Rilievo in posizione schermata rispetto ad autostrada, per cantiere. Mascheratura durante condizioni meteo incompatibili (neve, pioggia).

TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>

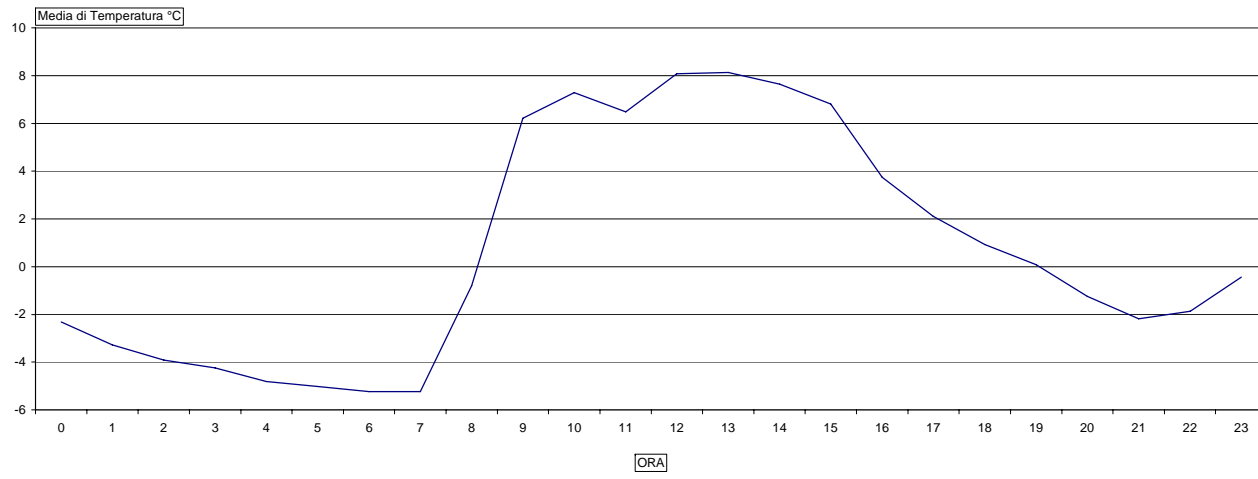




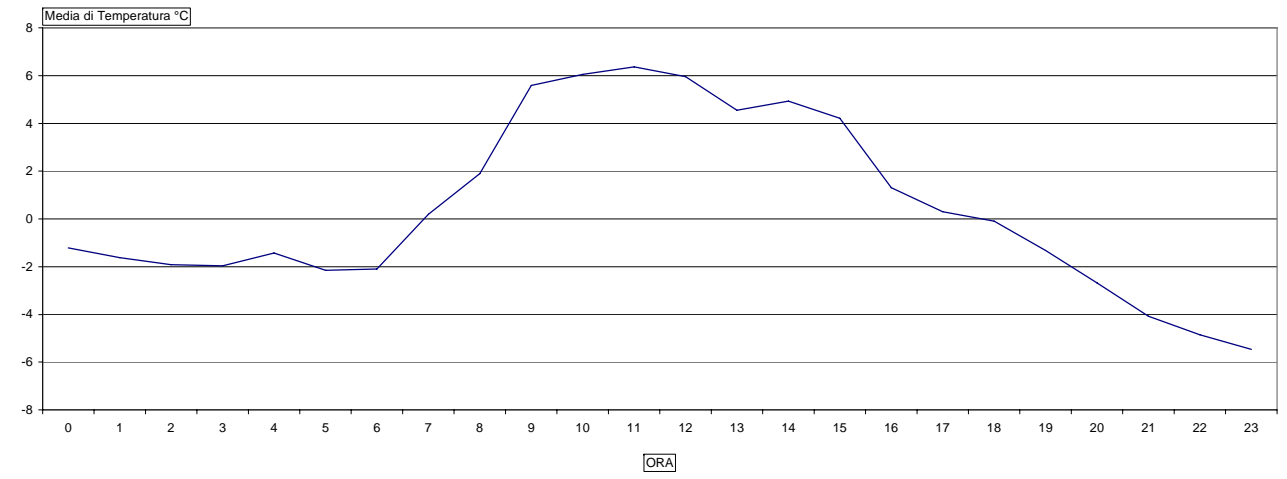




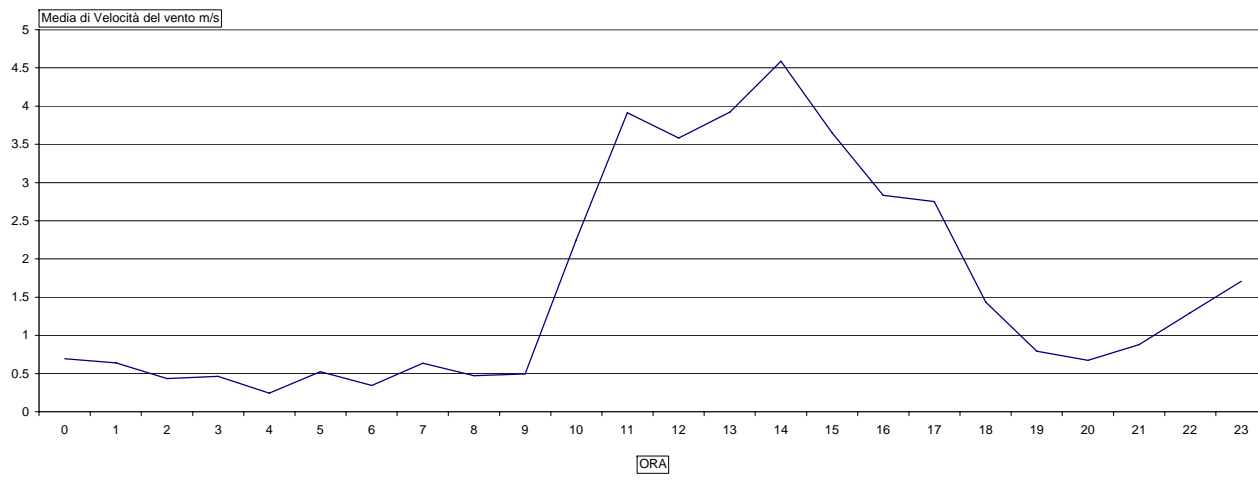
15/12/2010



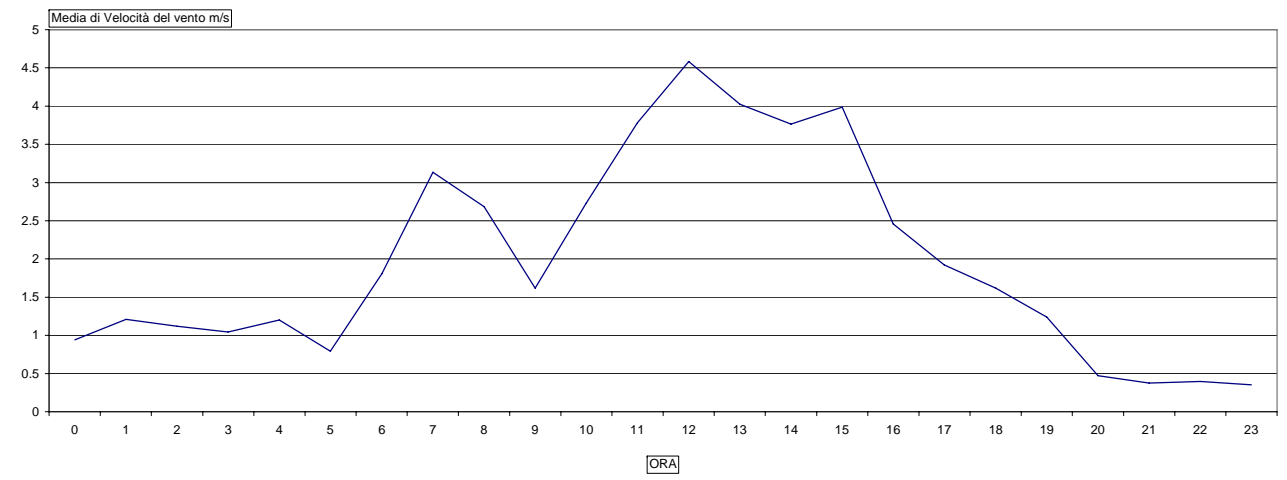
16/12/2010



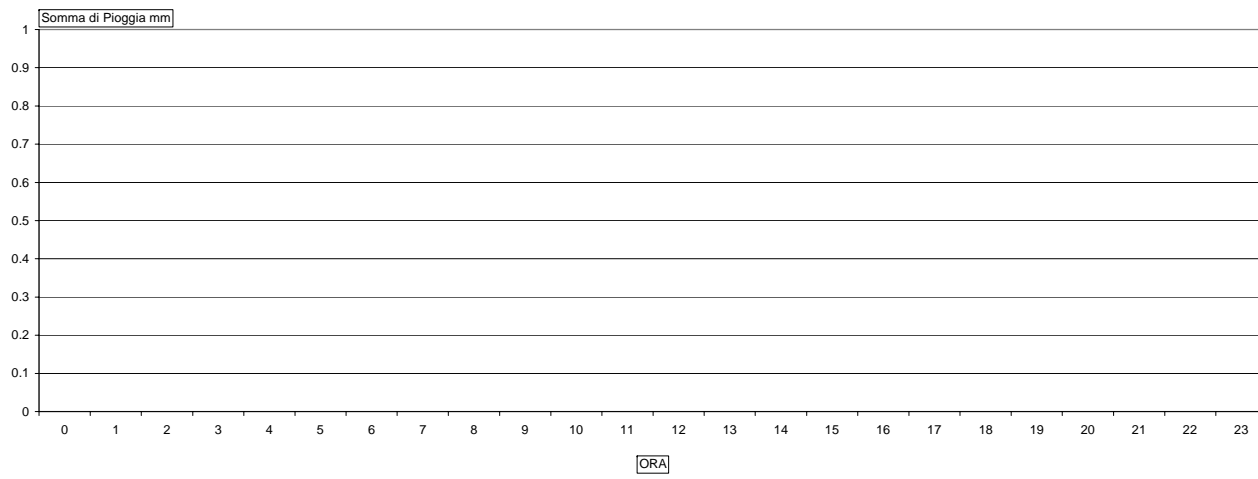
15/12/2010



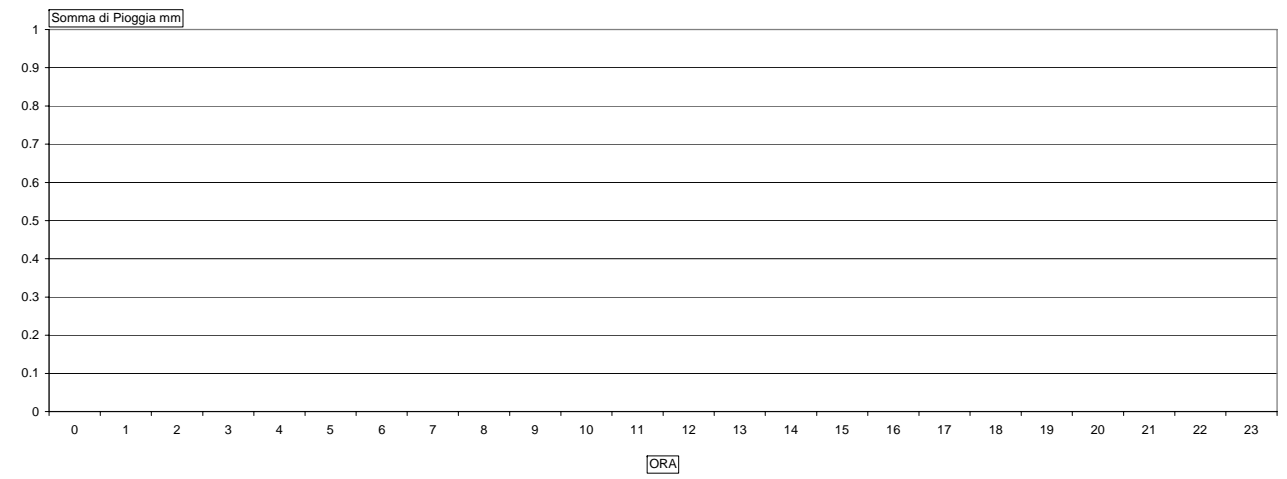
16/12/2010



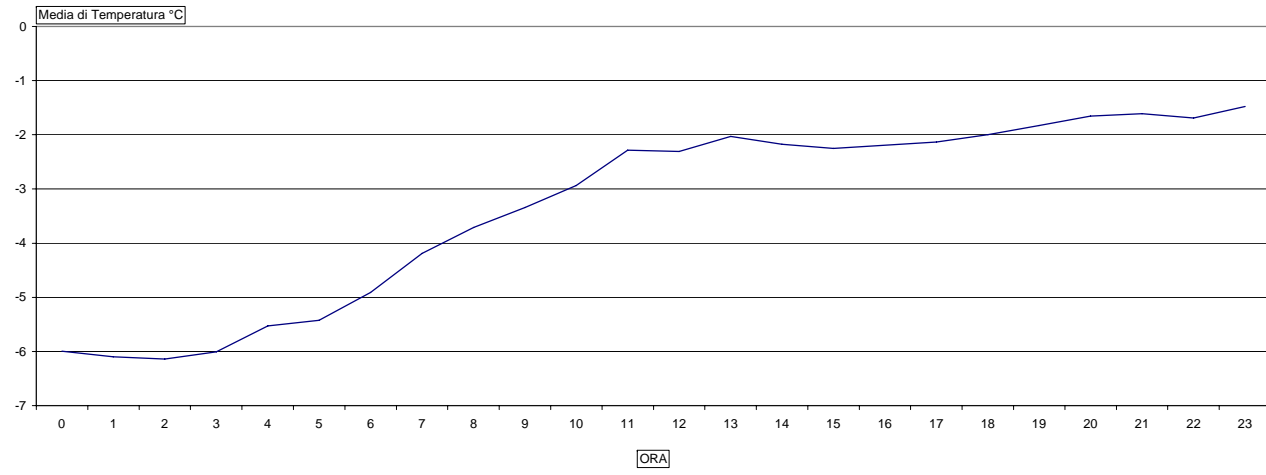
15/12/2010



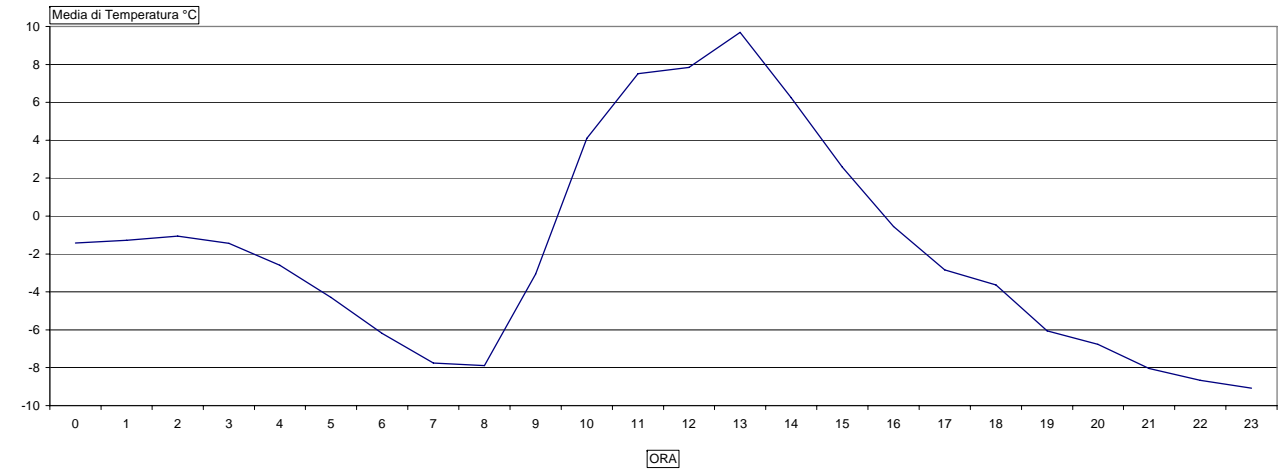
16/12/2010



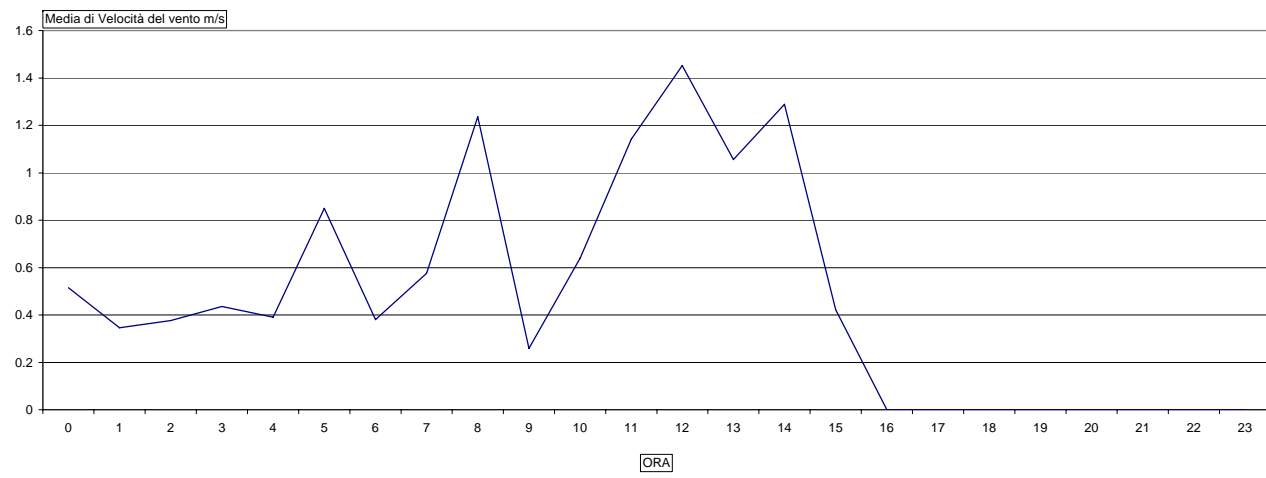
17/12/2010



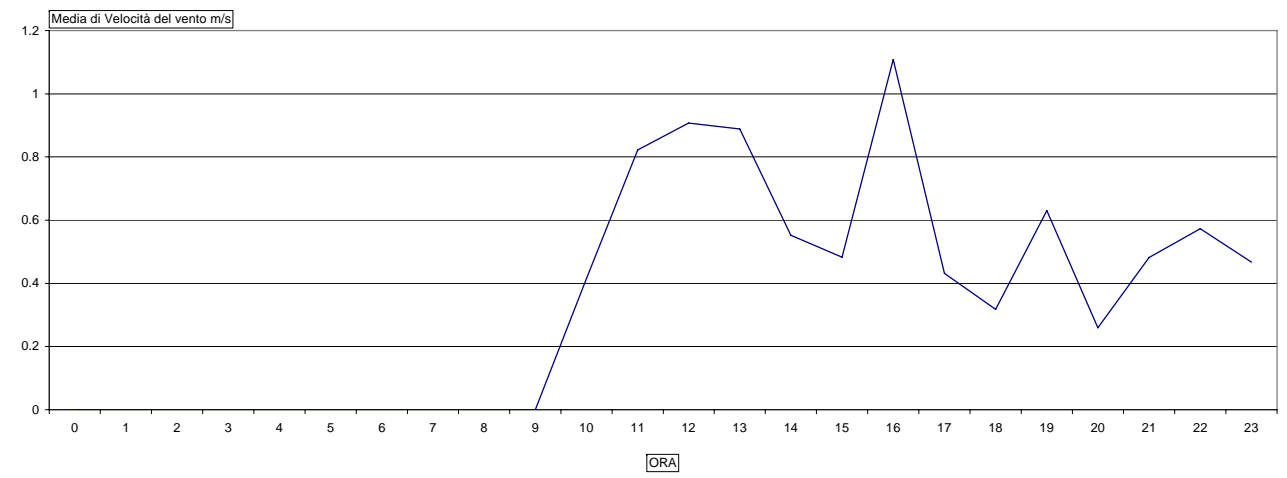
18/12/2010



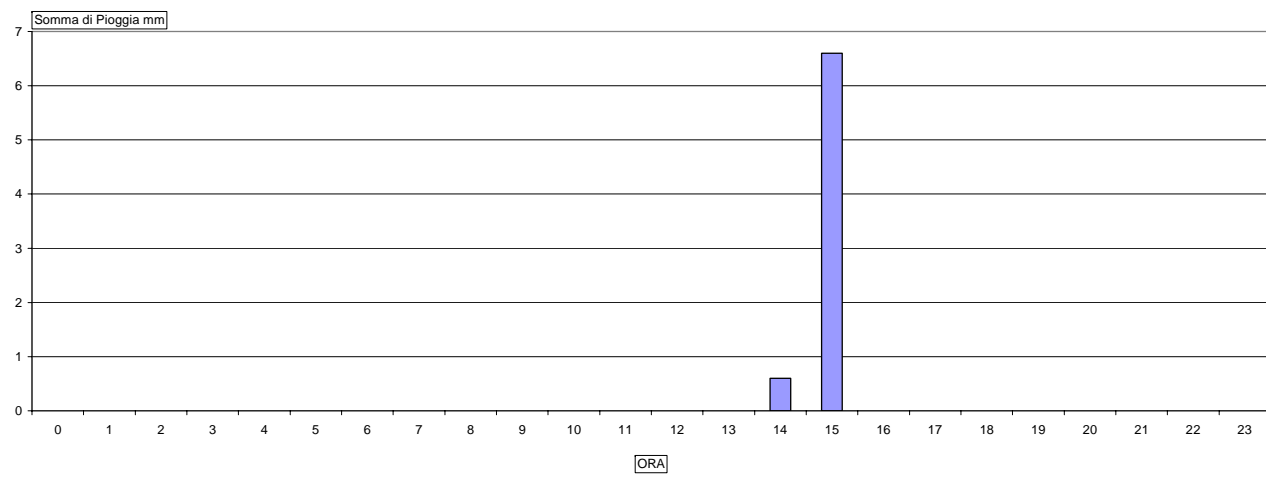
17/12/2010



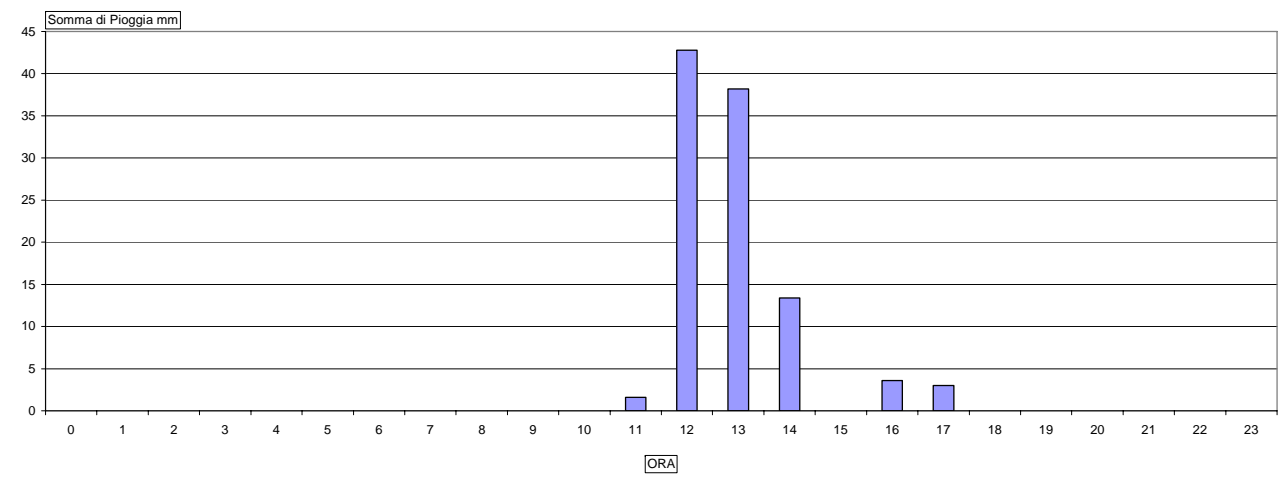
18/12/2010



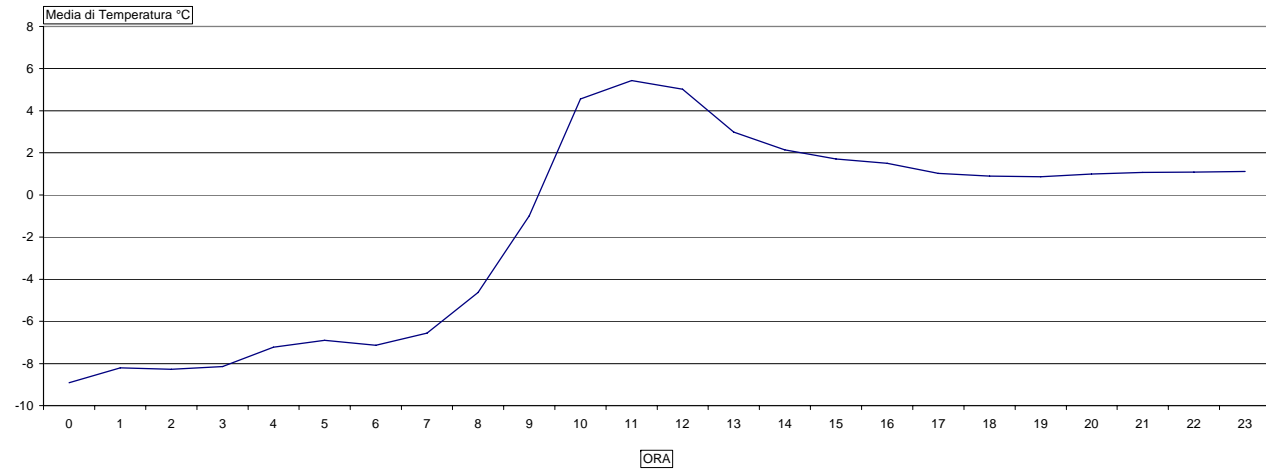
17/12/2010



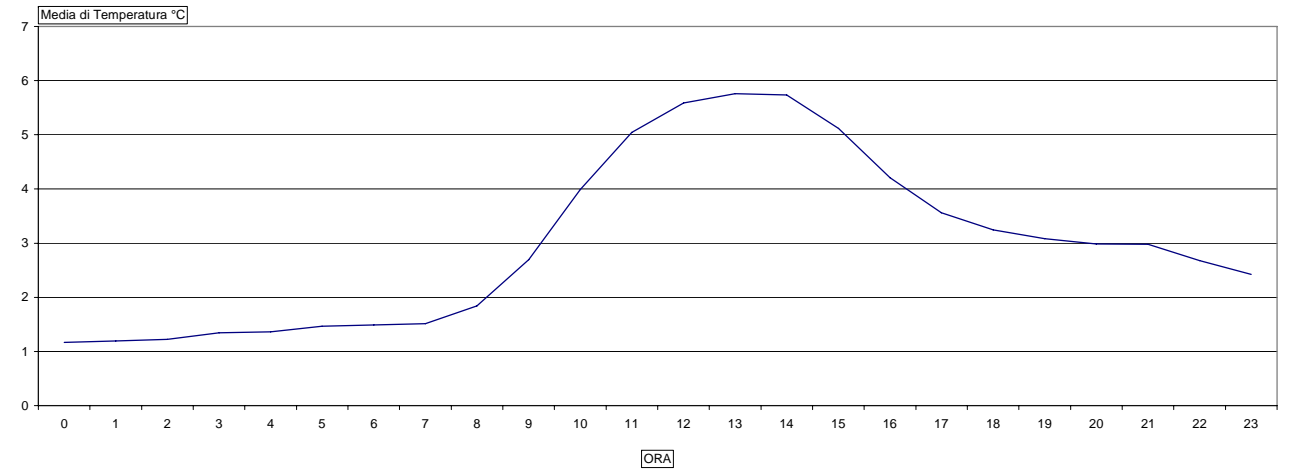
18/12/2010



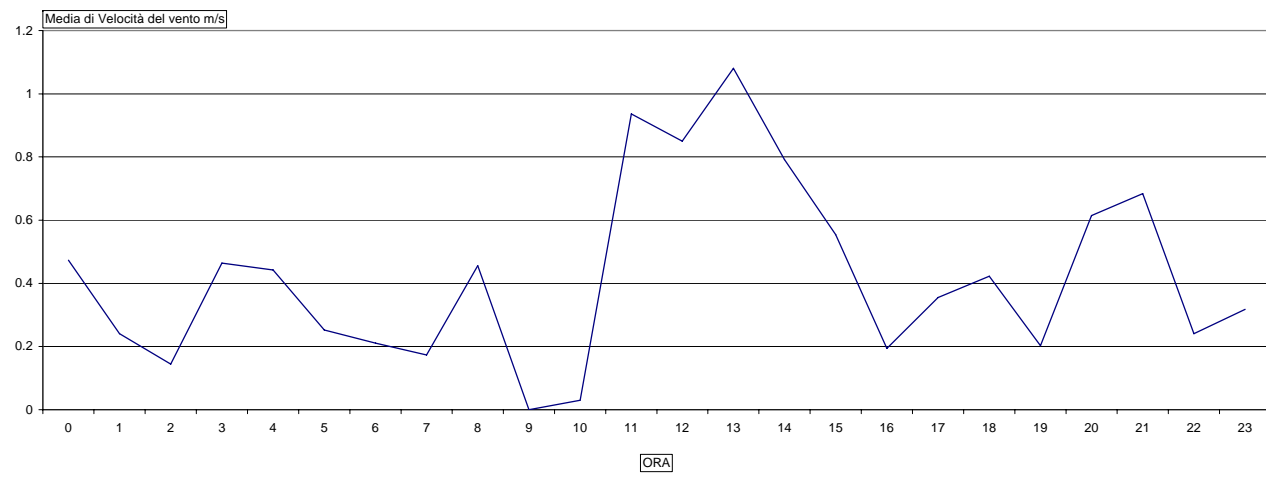
19/12/2010



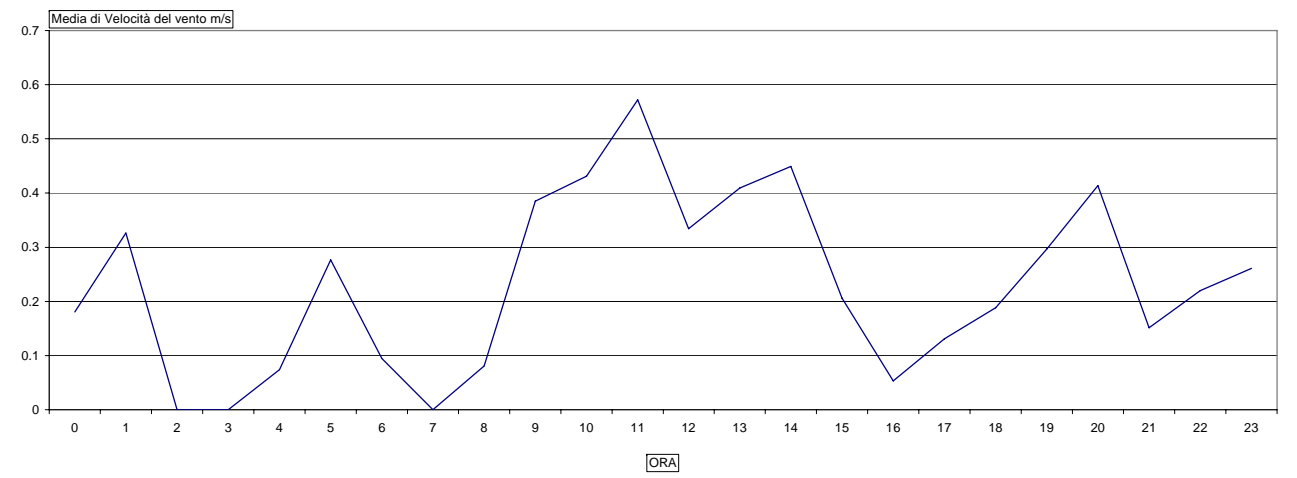
20/12/2010



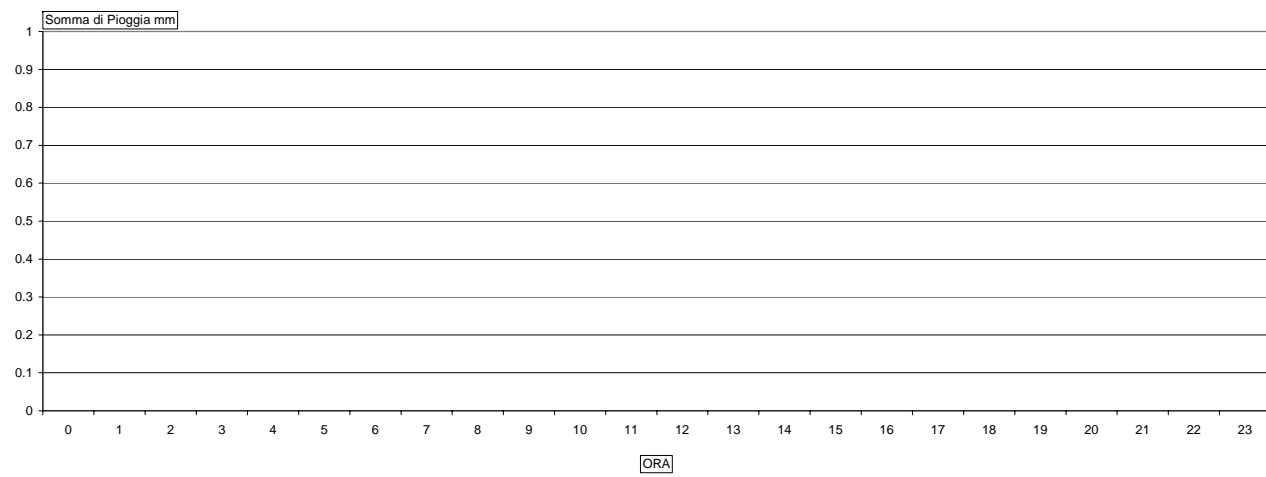
19/12/2010



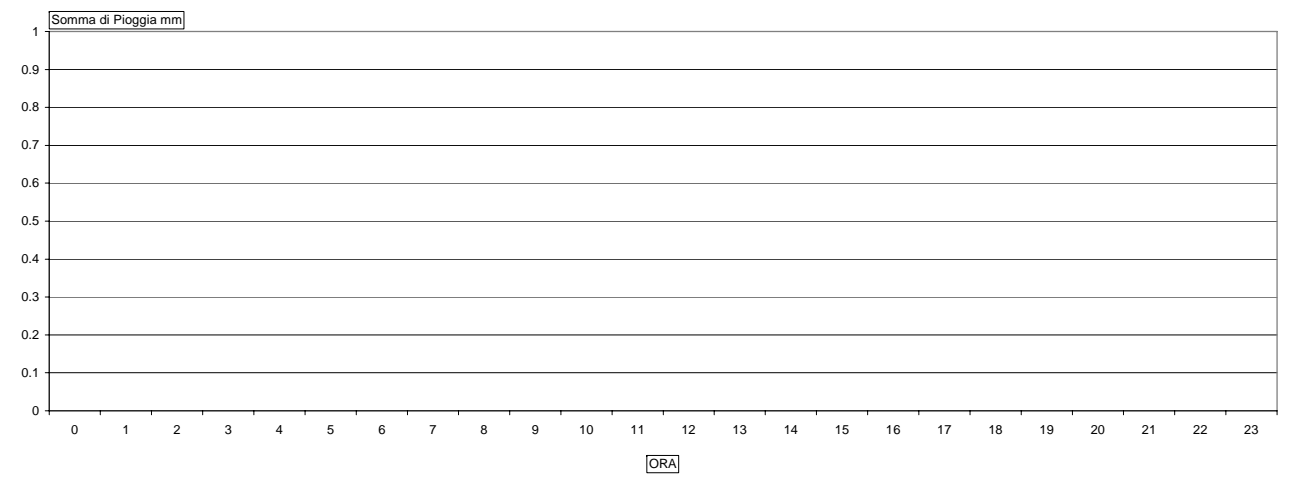
20/12/2010



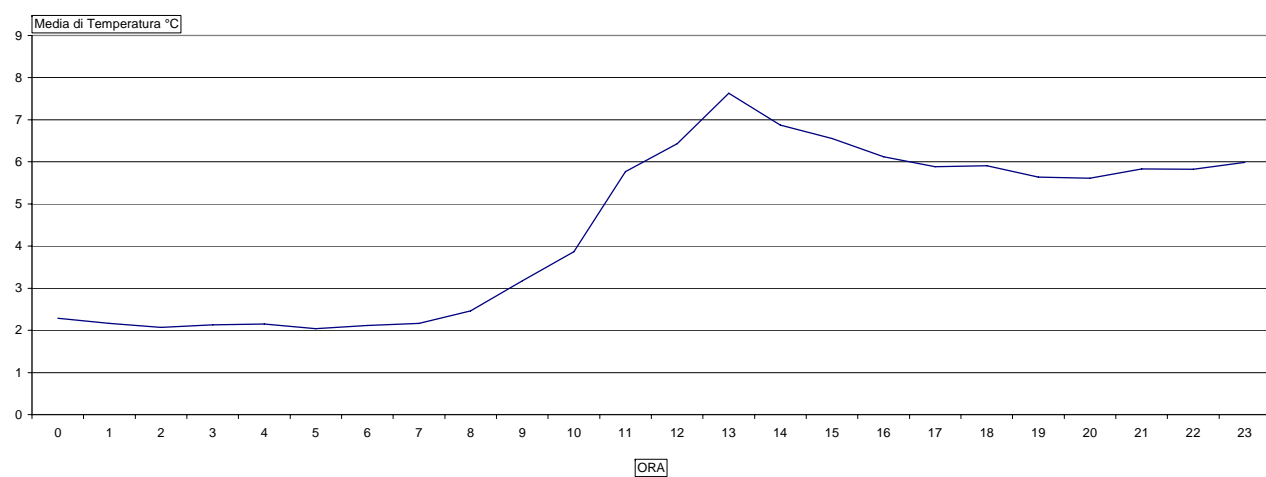
19/12/2010



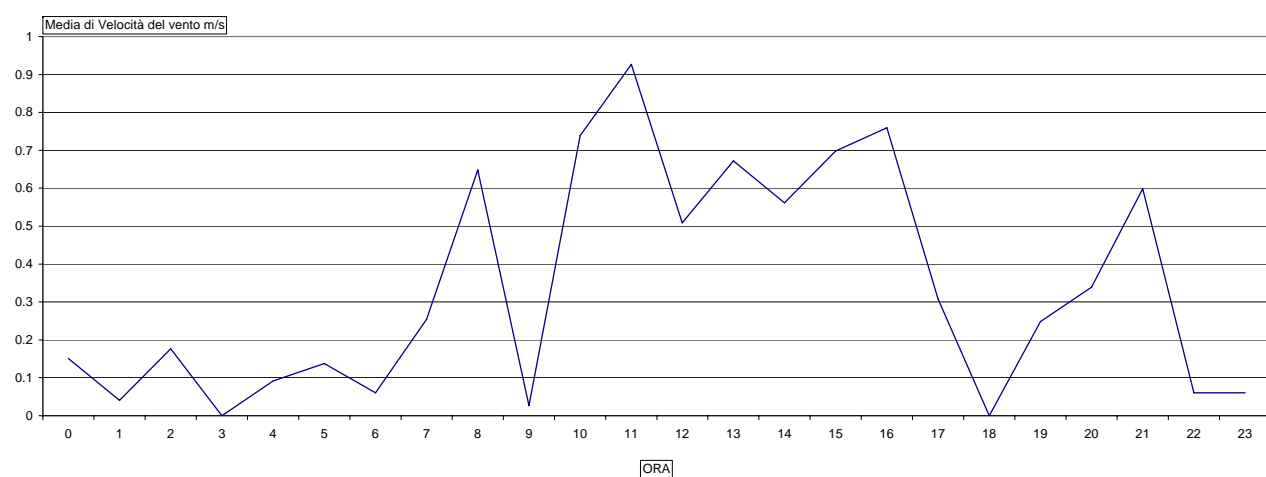
20/12/2010



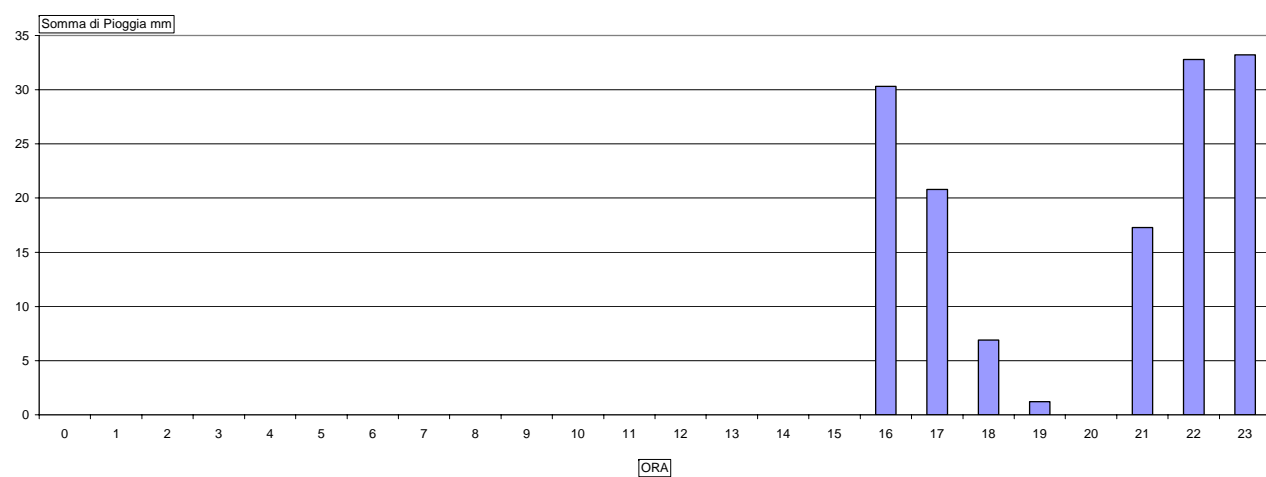
21/12/2010



21/12/2010



21/12/2010



Misura fonometrica G4

LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Firenze	Inizio	29/12/2010	08:10
Indirizzo	Viale degli Astronauti	Fine	31/12/2010	12:09
Progressiva km	-	Fonometro	Larson Davis 824	S. N. A0805
Distanza infrastruttura	2.0 [m]	Tipologia tracciato	Raso	
Nome infrastruttura	Viale degli Astronauti	Tipologia asfalto	Drenante	

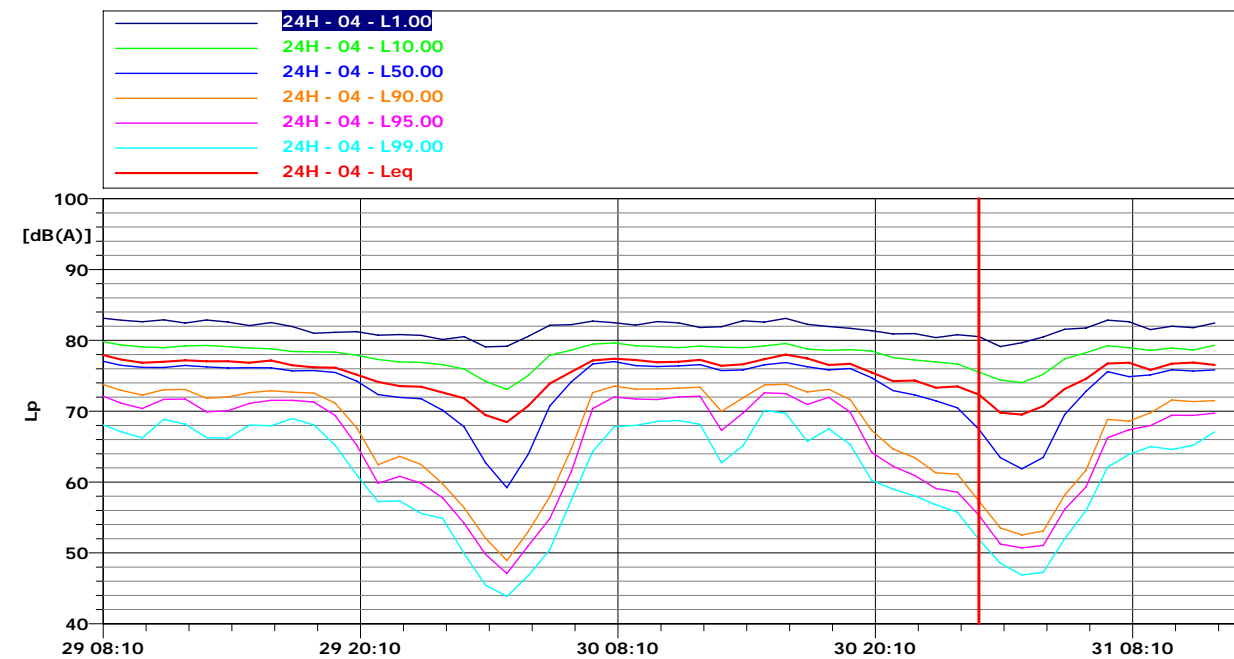
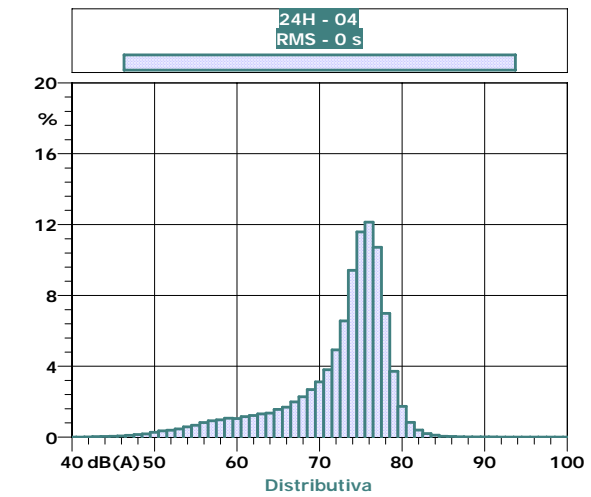
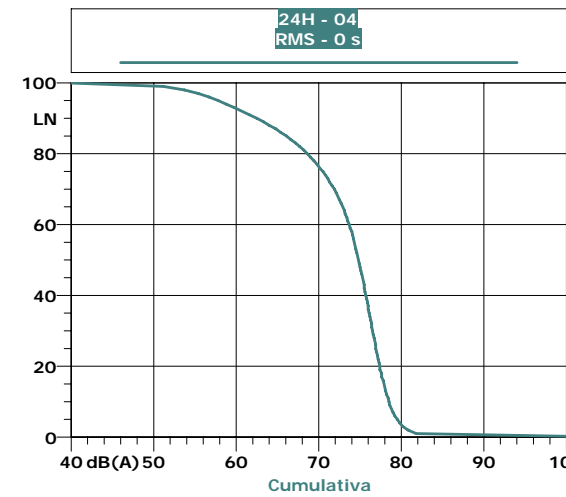
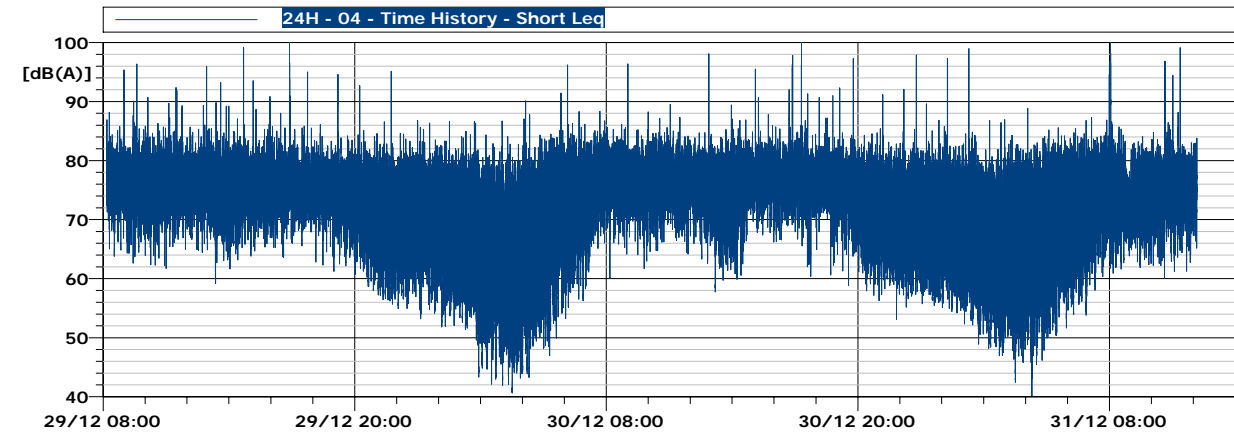


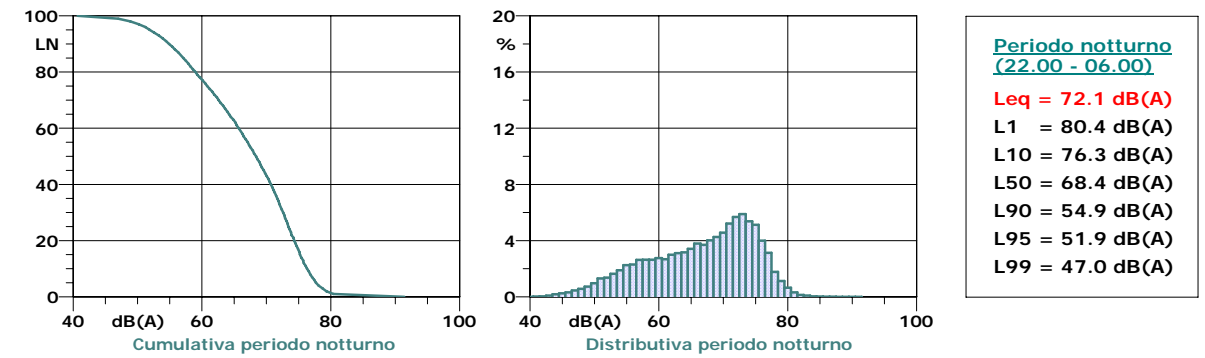
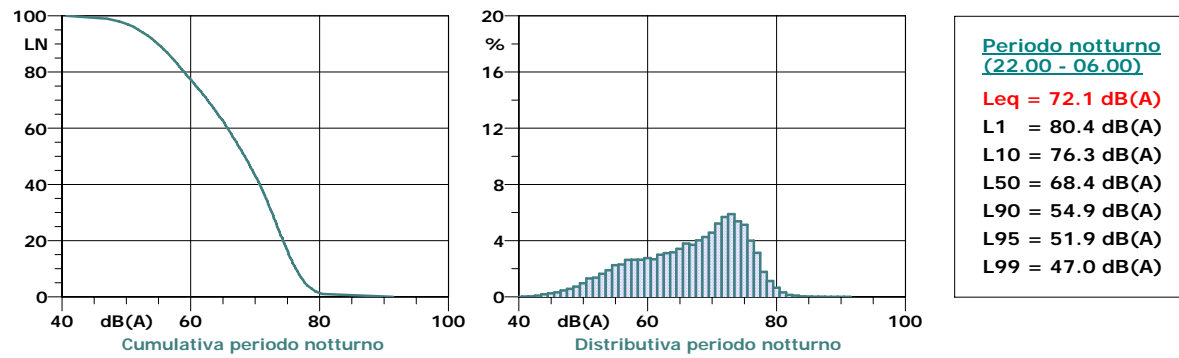
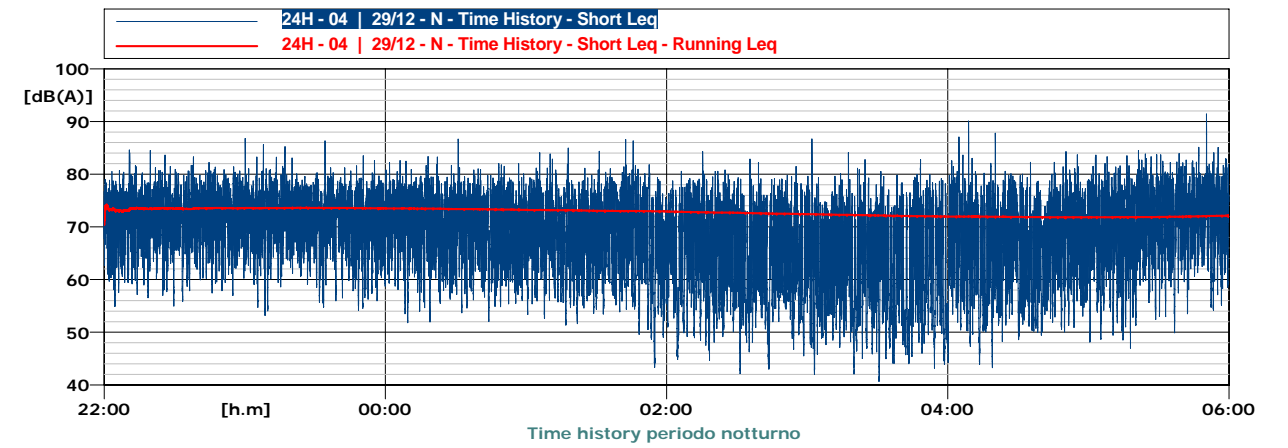
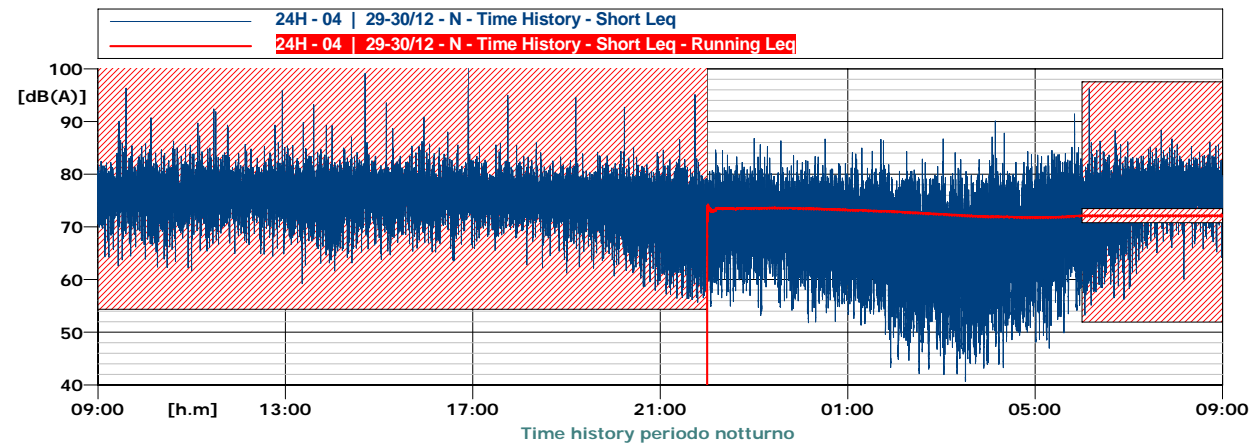
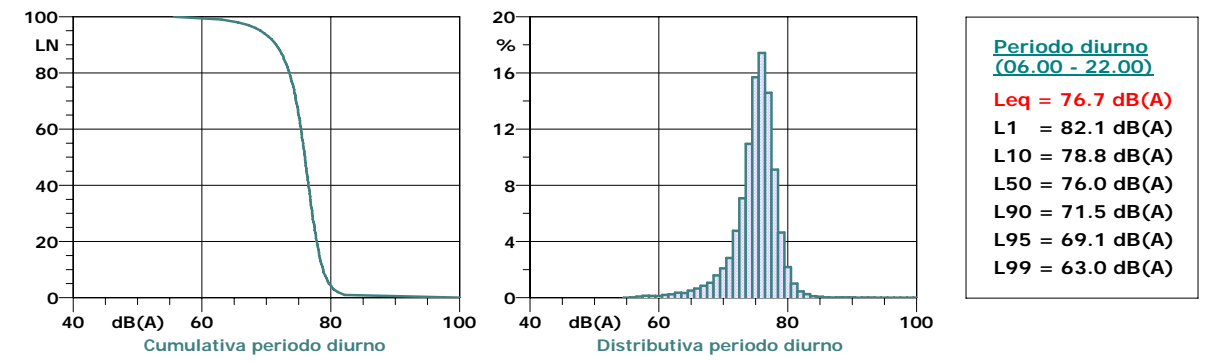
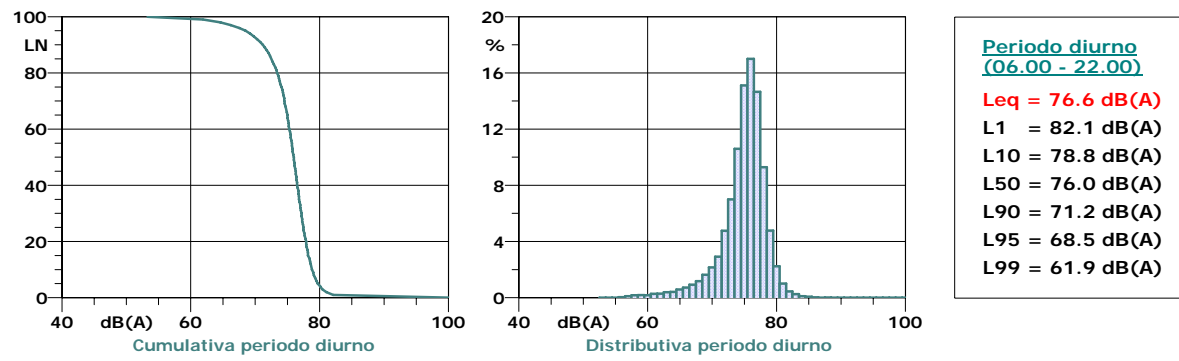
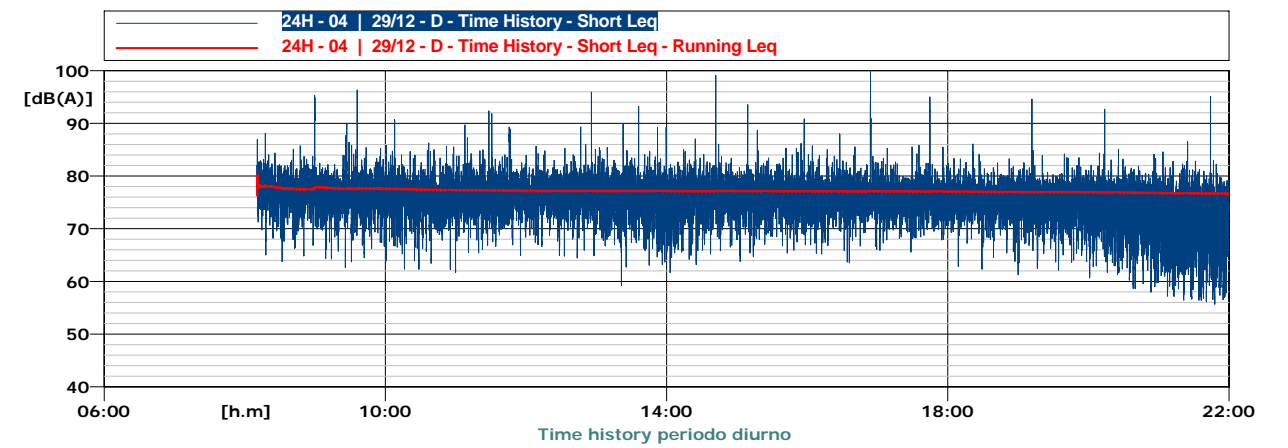
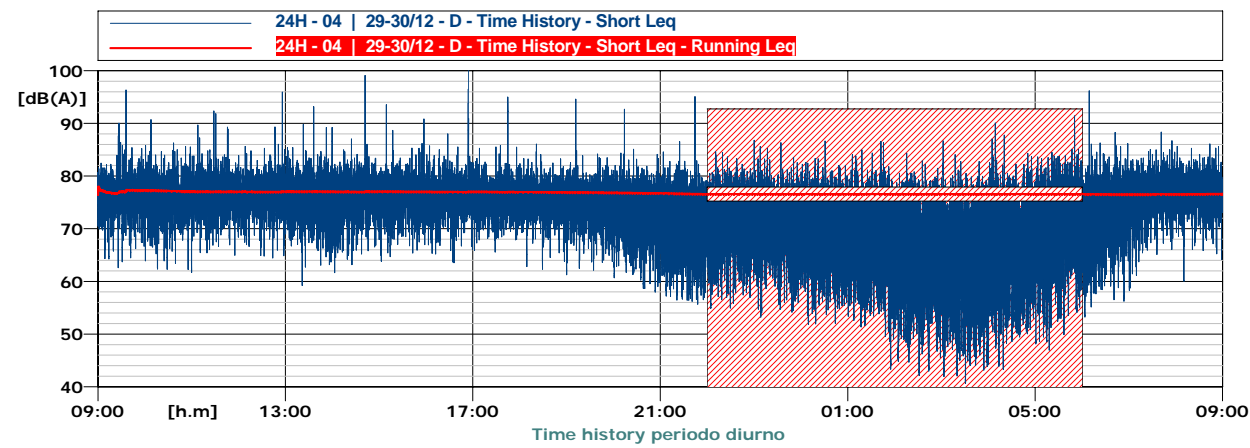
MISURA	PERIODO	LUN	MAR	MER	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 - 22			76.6						[dB(A)]
	Notturmo 22 - 06			72.1						
Numero veicoli	Diurno 06 - 22			33873						Leggeri
				6835						Pesanti
	Notturmo 22 - 06			5414						Leggeri
				607						Pesanti

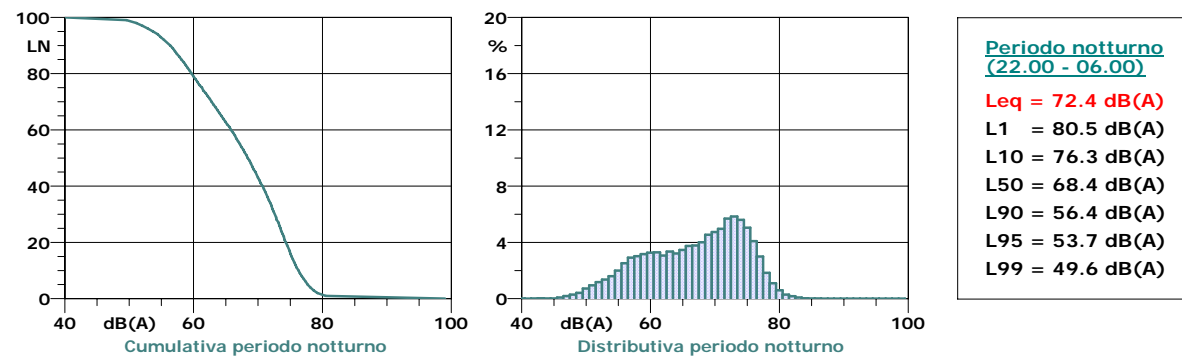
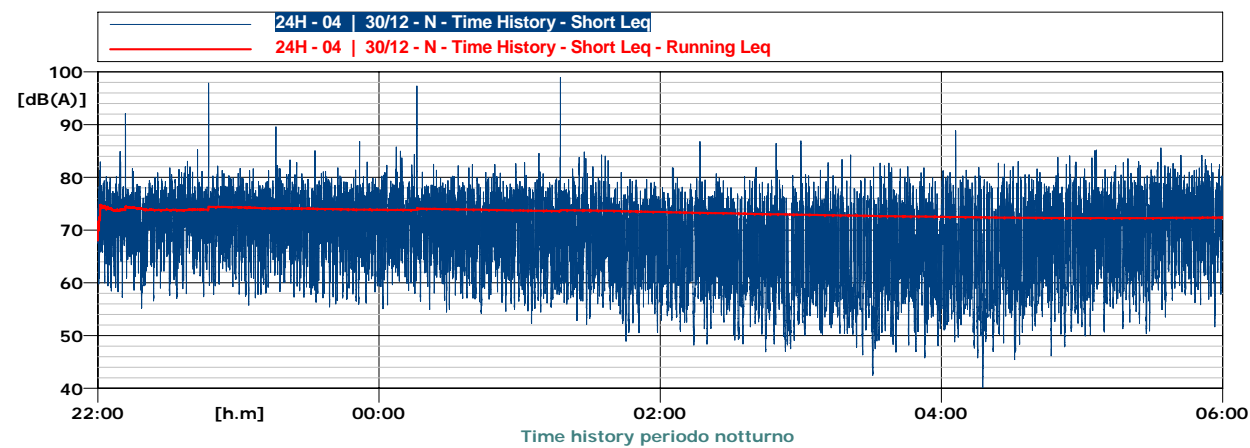
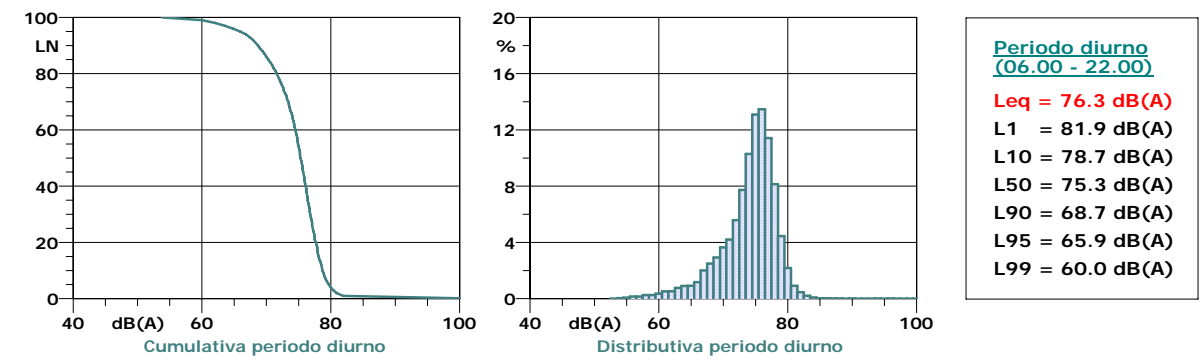
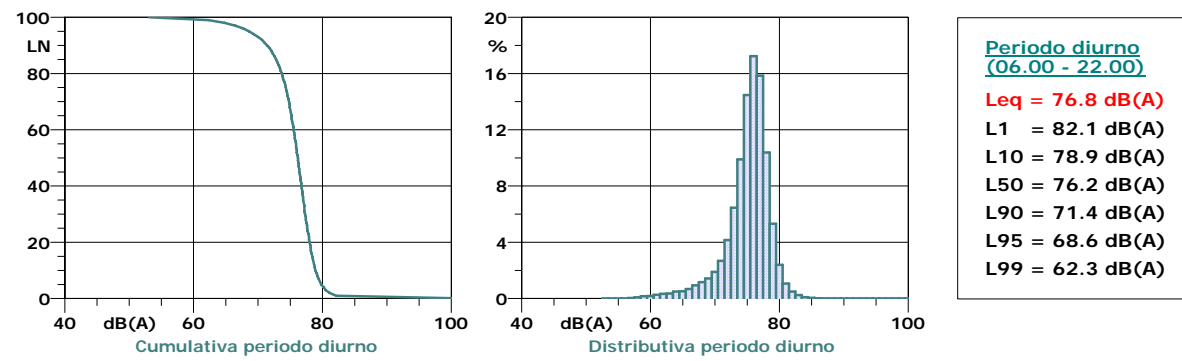
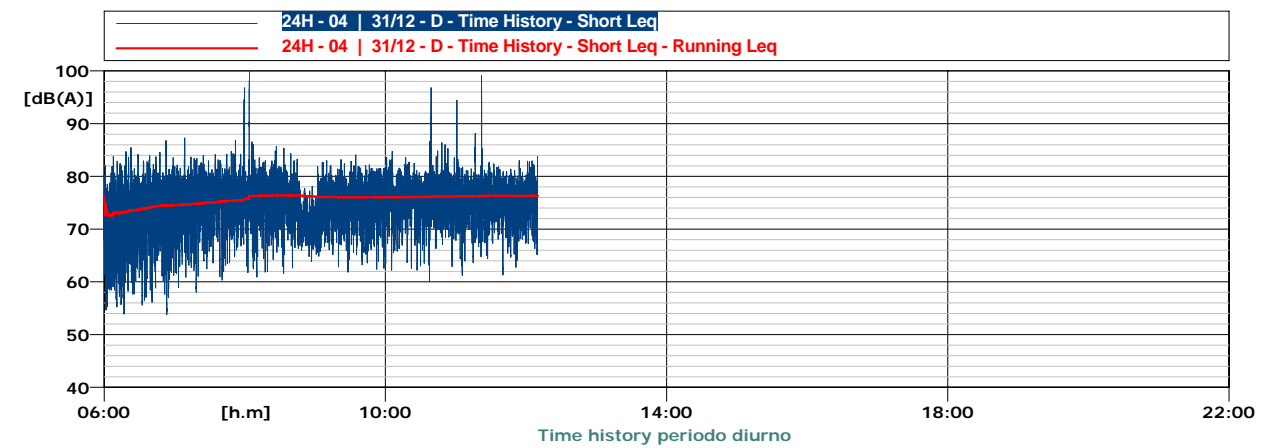
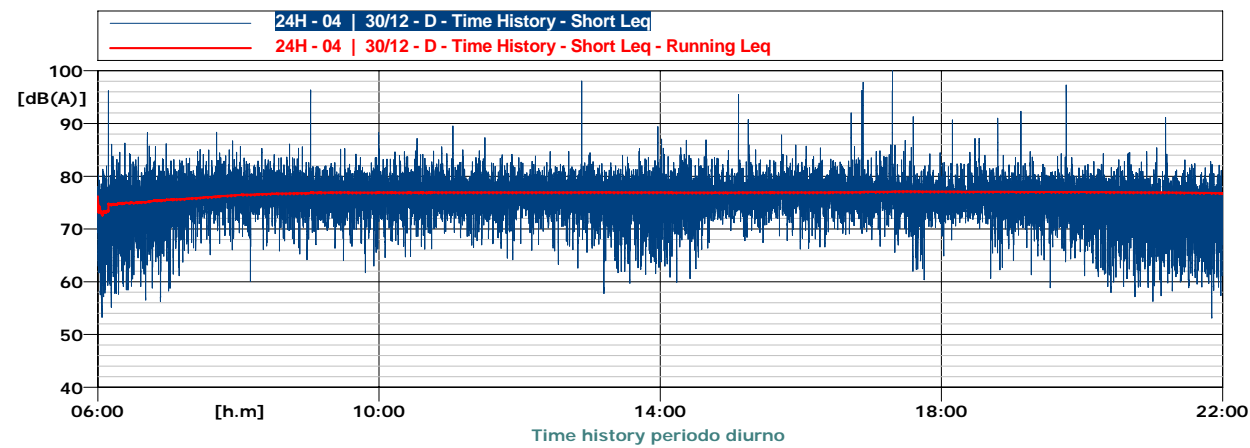
NOTE

Estrazione misura dalle 09:00 del 29/12 alle 09:00 del 30/12
 Strada a senso unico a tre corsie di marcia

TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	



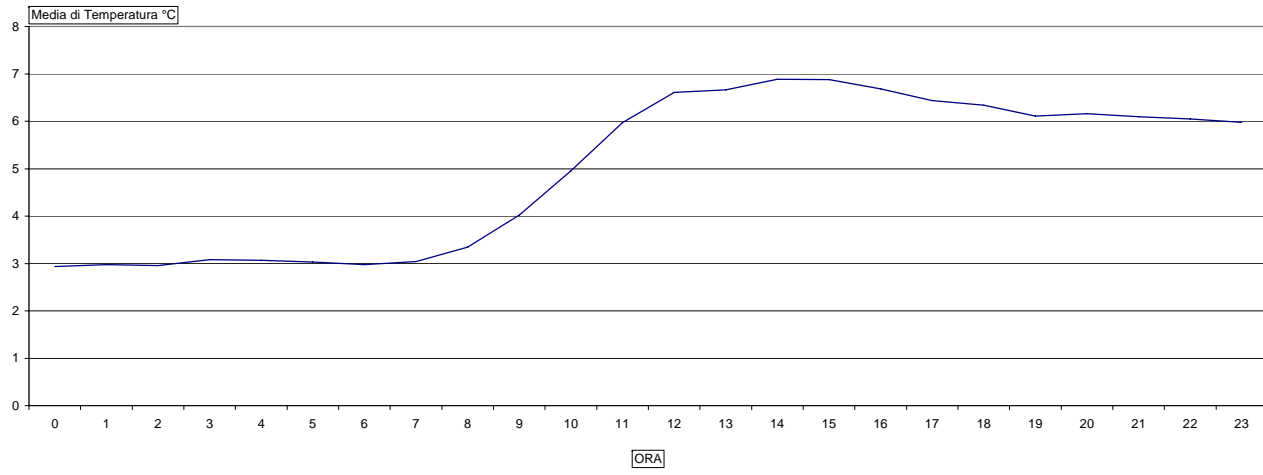




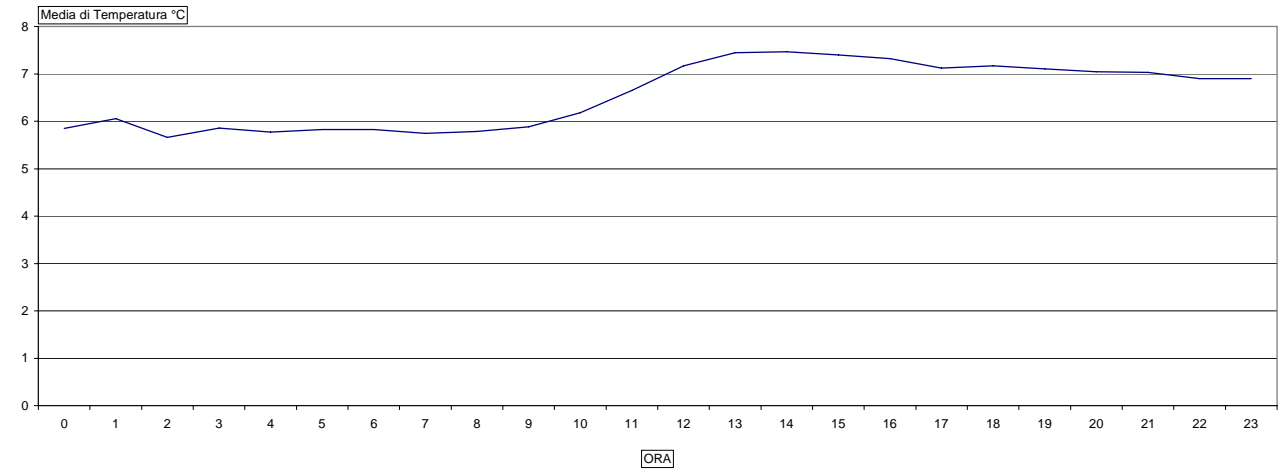
VELOCITA' DI TRANSITO		
ORARIO	LEGGERI	PESANTI
0	60	54
1	61	54
2	62	54
3	61	54
4	61	53
5	62	53
6	60	53
7	56	52
8	55	51
9	55	51
10	54	51
11	54	52
12	55	51
13	56	53
14	55	52
15	54	51
16	53	50
17	51	49
18	53	50
19	54	52
20	58	55
21	60	53
22	59	53
23	59	53
MEDIA D	55	52
MEDIA N	61	54

Velocita di transito e numero di veicoli

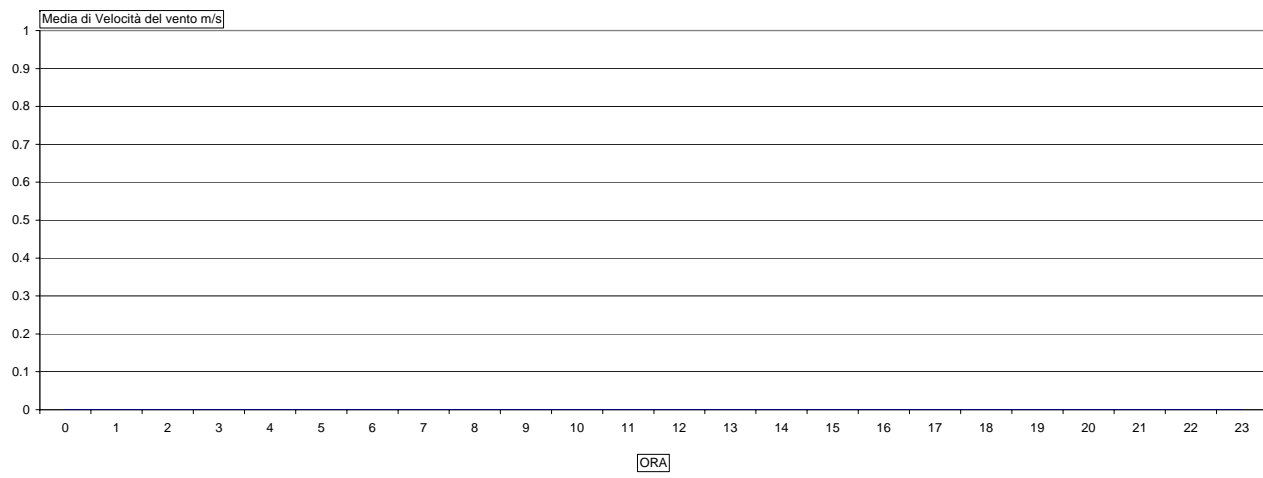
29/12/2010



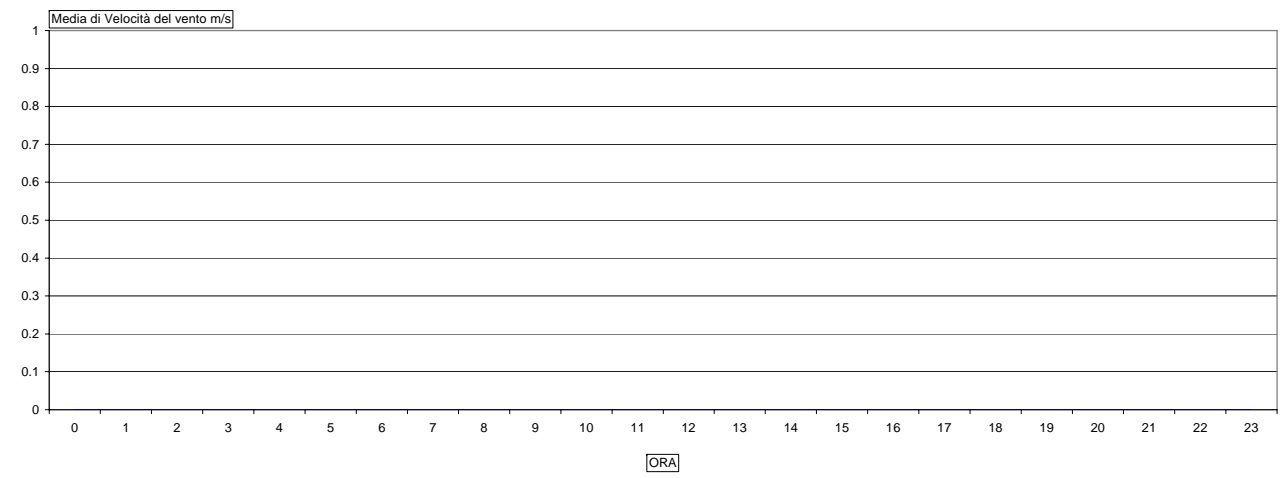
30/12/2010



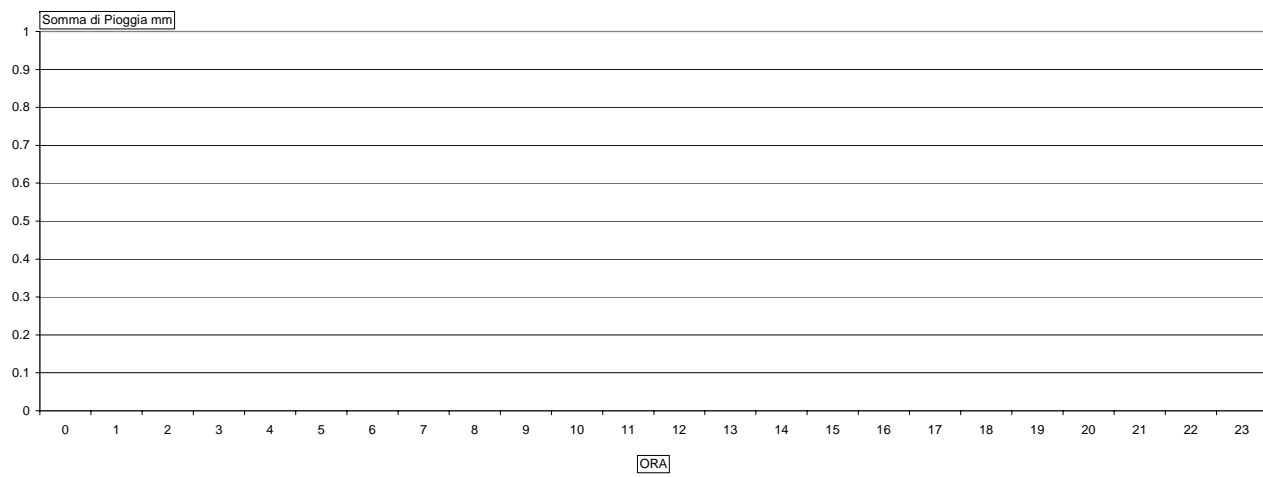
29/12/2010



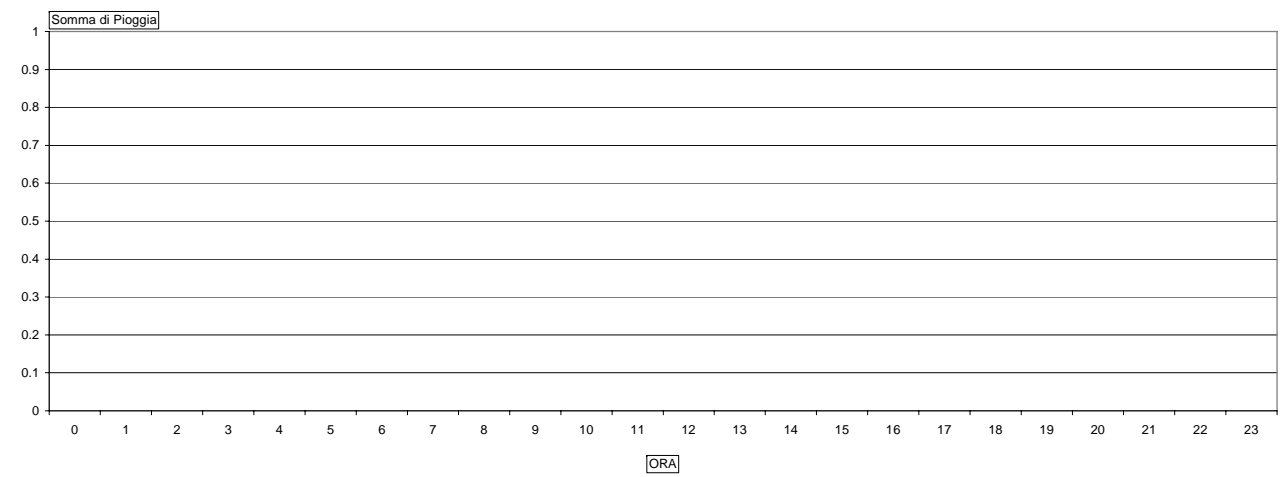
30/12/2010



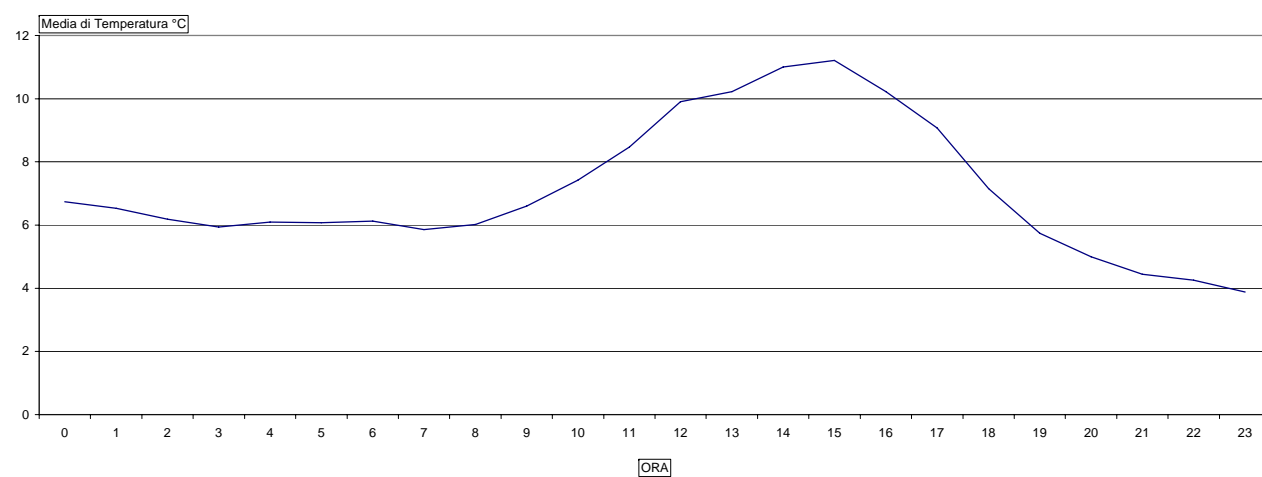
29/12/2010



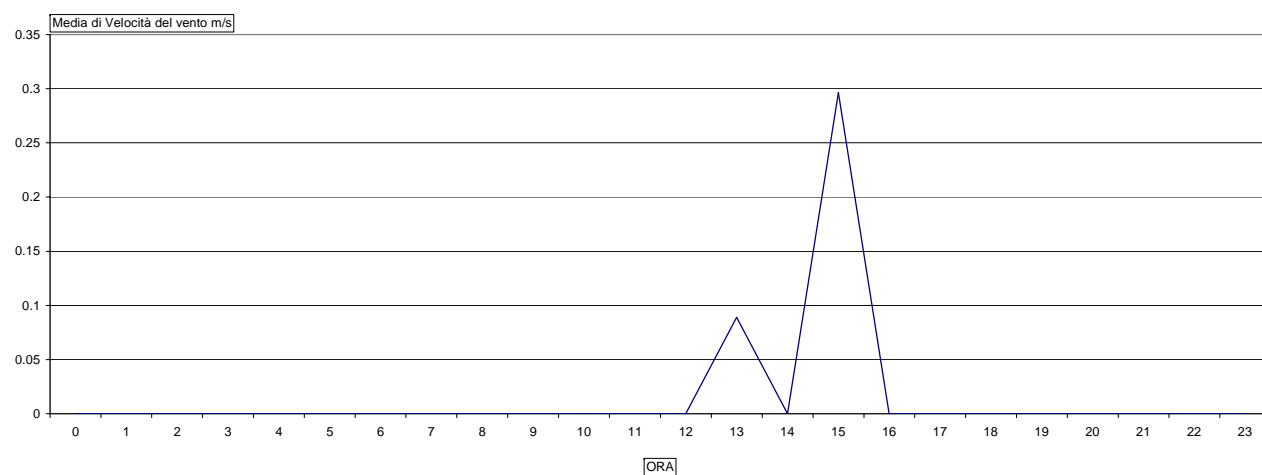
30/12/2010



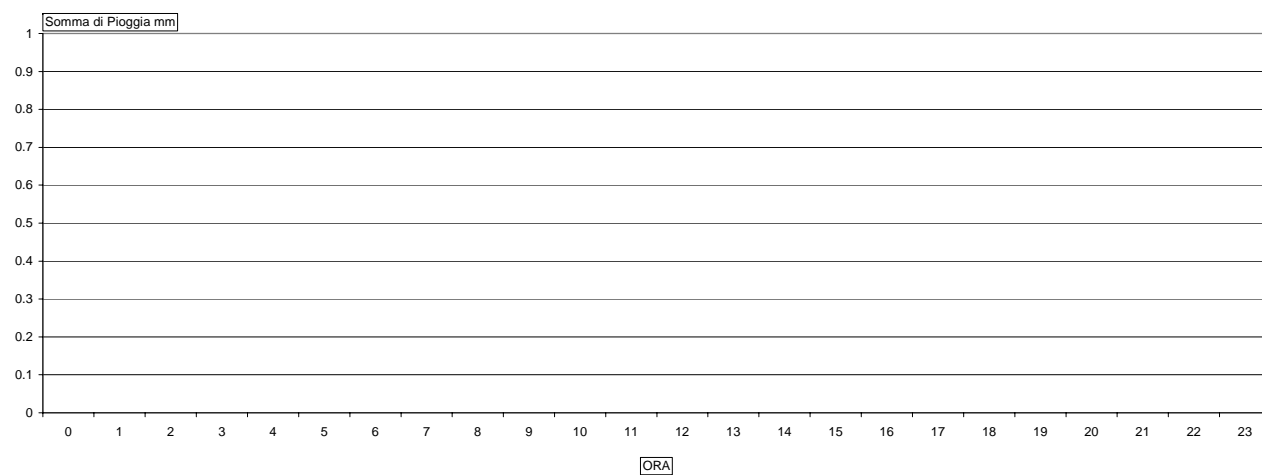
31/12/2010



31/12/2010

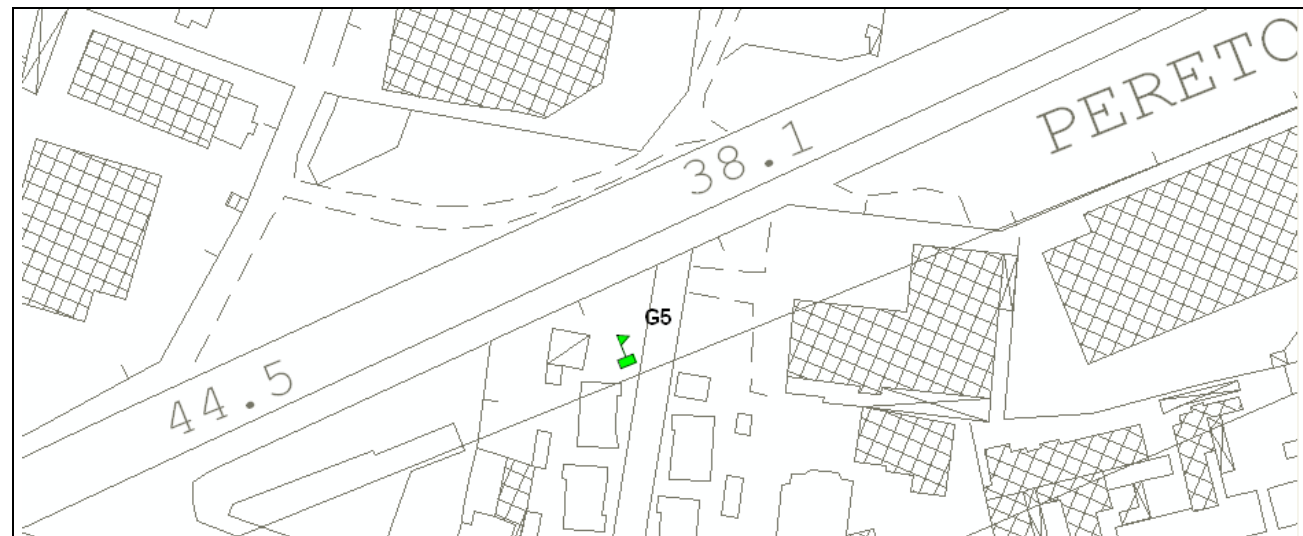


31/12/2010



Misura fonometrica G5

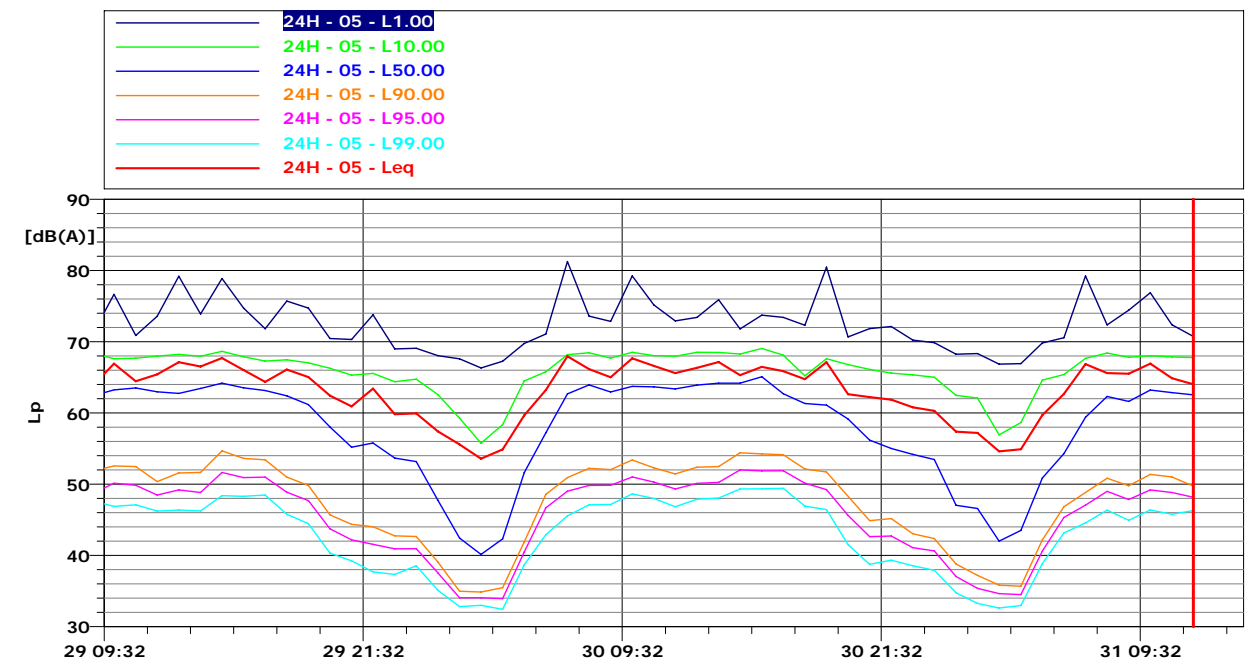
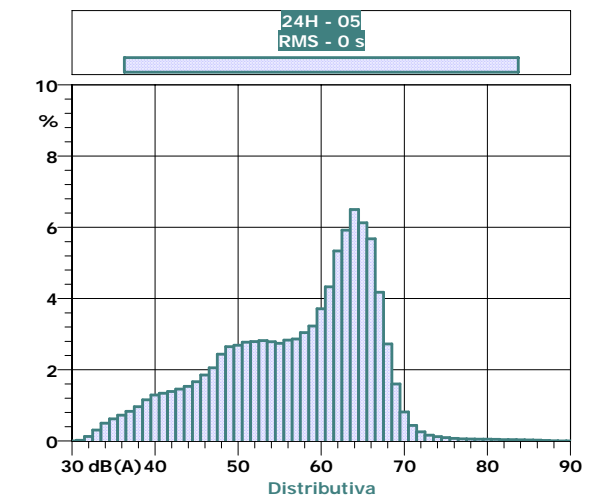
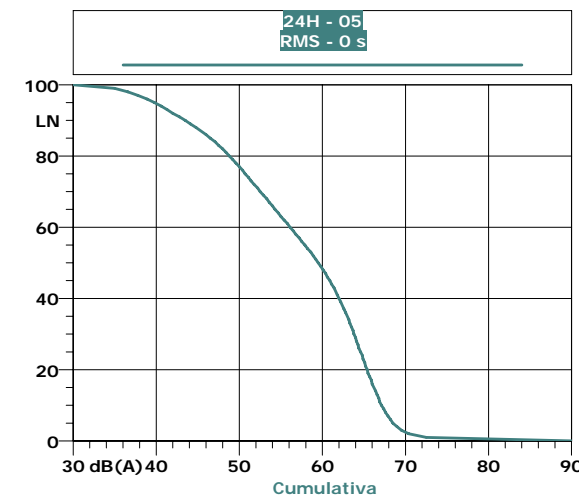
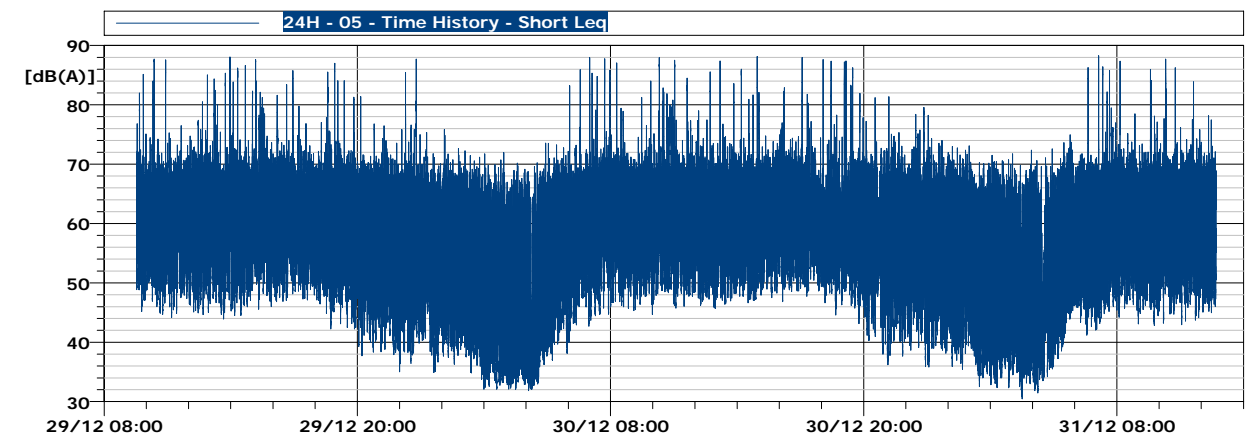
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Firenze	Inizio	29/12/2010	09:32
Indirizzo	Viale Palagio degli Spini, ang. Via Sebastiano del Buono	Fine	31/12/2010	12:41
Progressiva km	0+300	Fonometro	Larson Davis 824	S. N. A0510
Distanza infrastruttura	20 [m]	Tipologia tracciato	Raso	
Nome infrastruttura	Via Palagio degli Spini	Tipologia asfalto	Drenante	

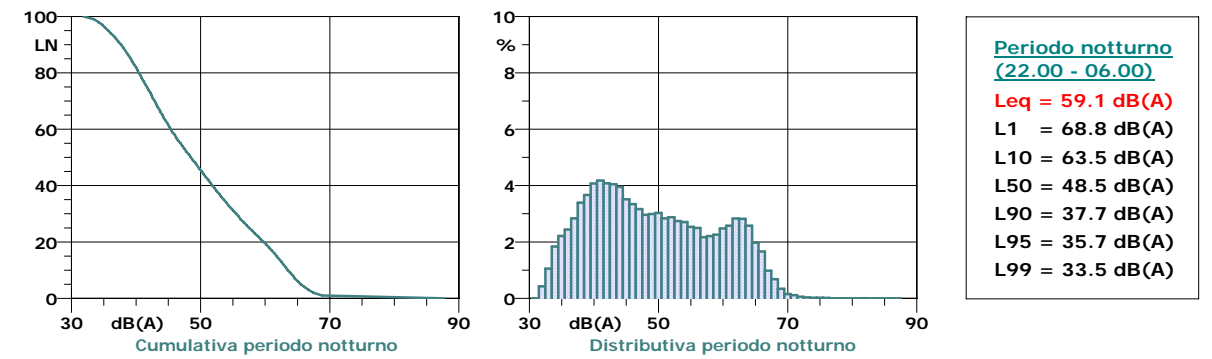
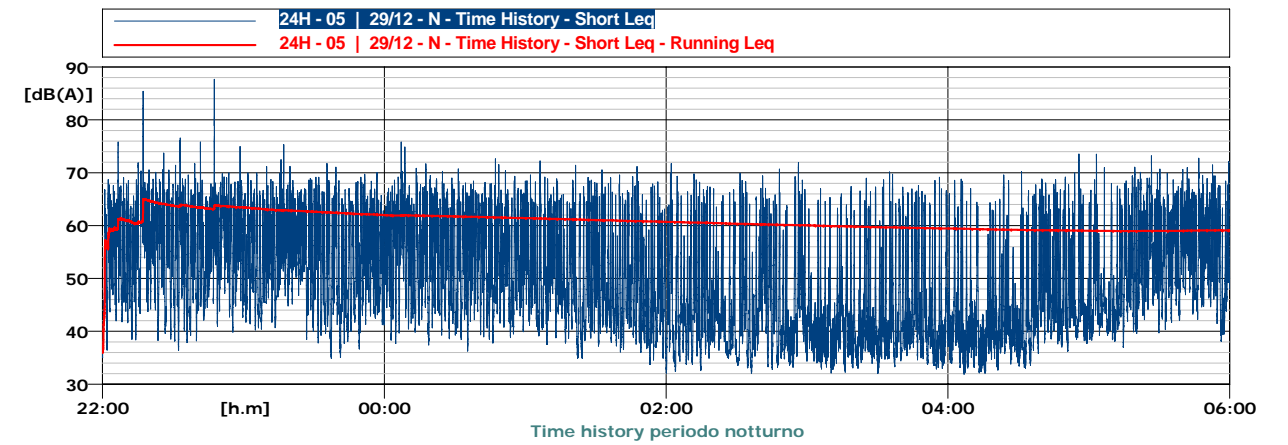
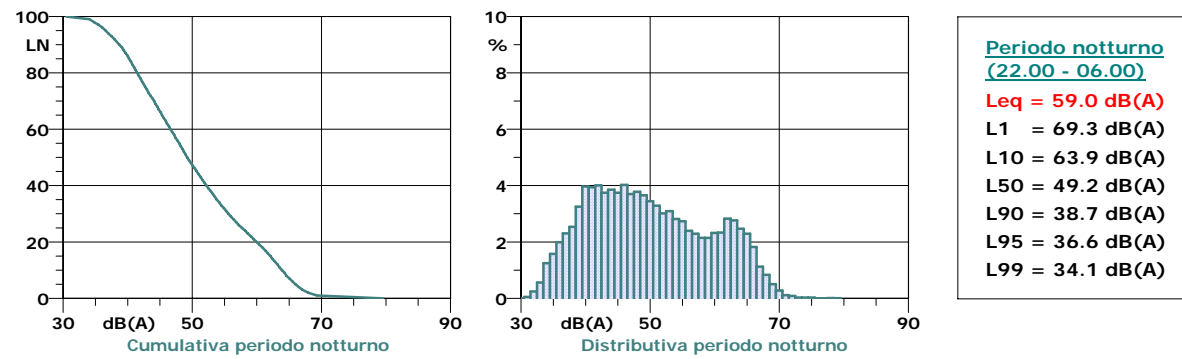
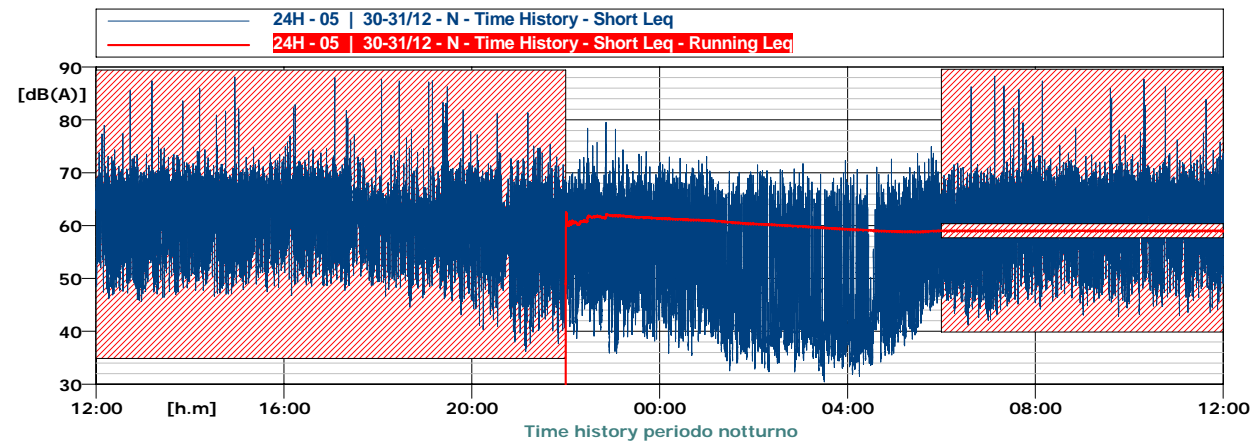
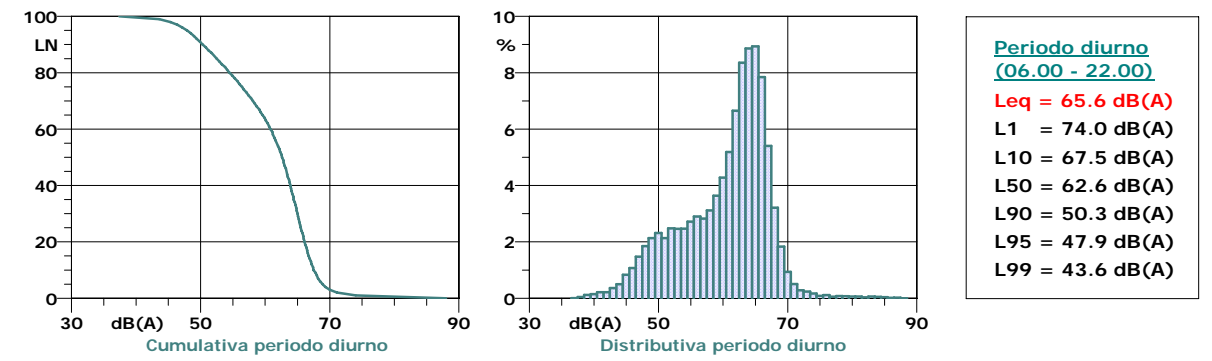
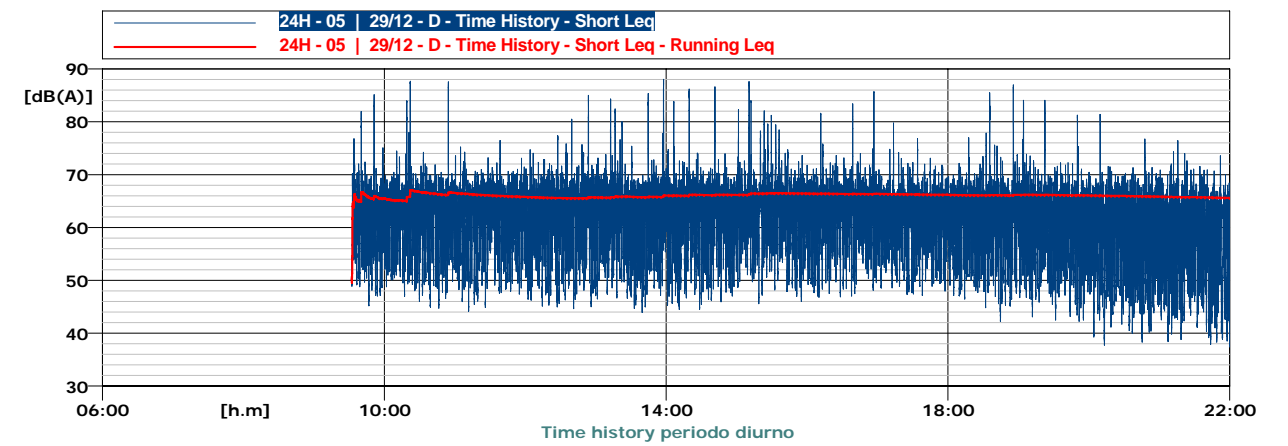
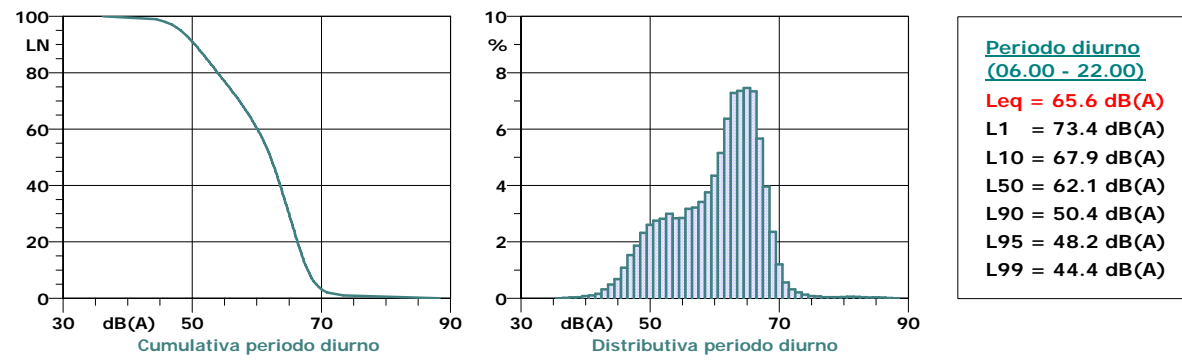
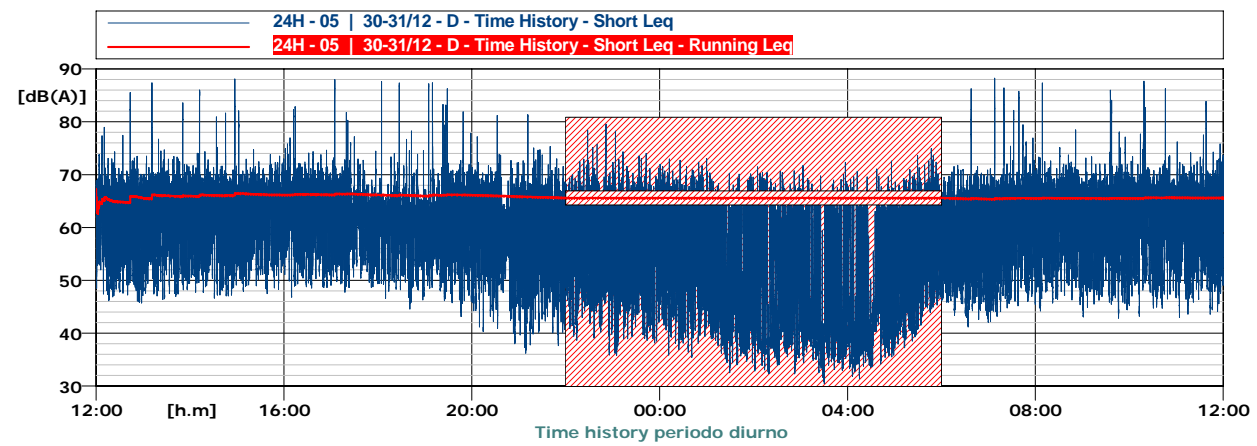


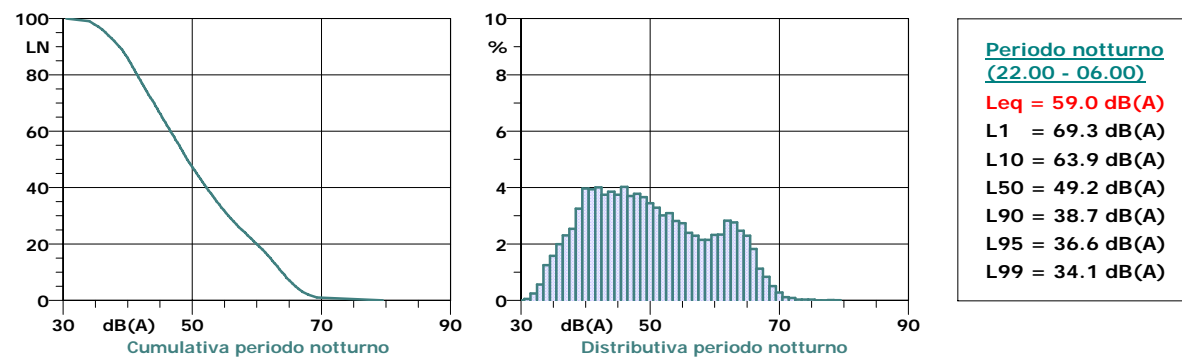
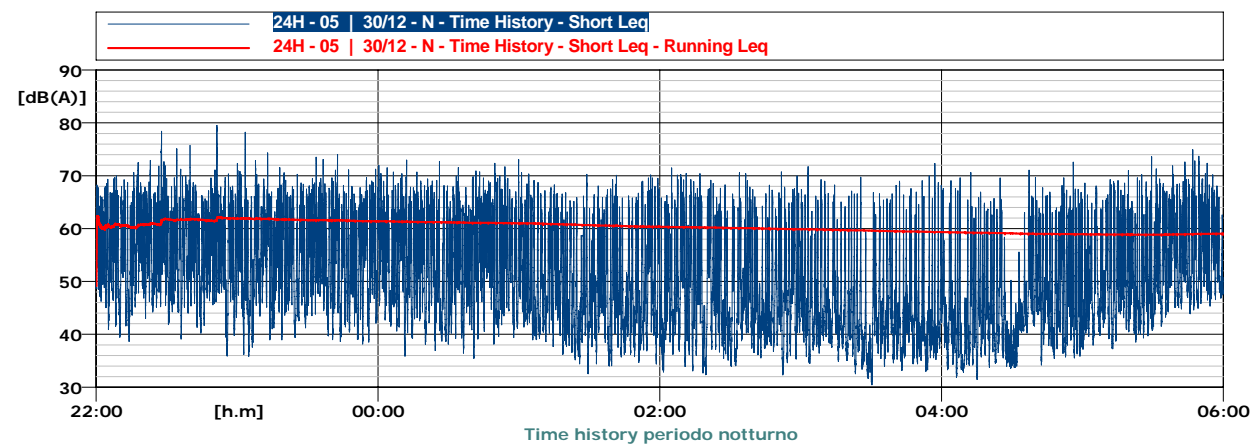
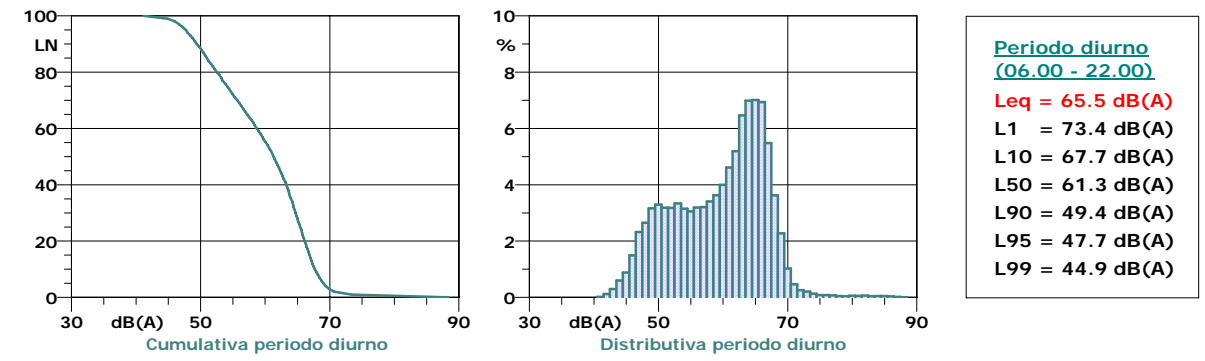
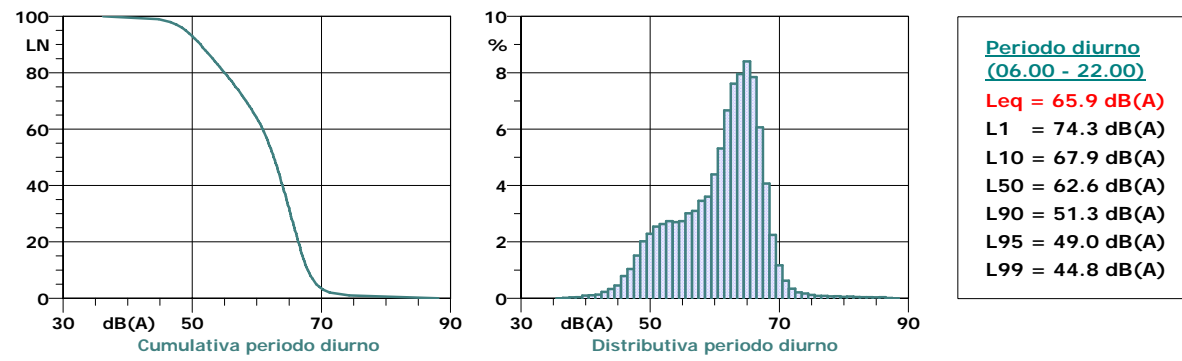
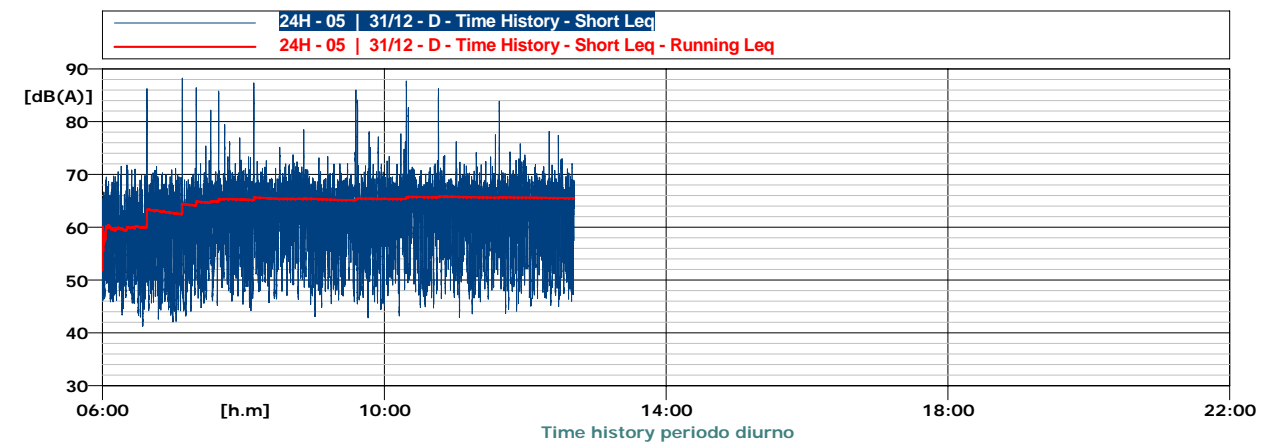
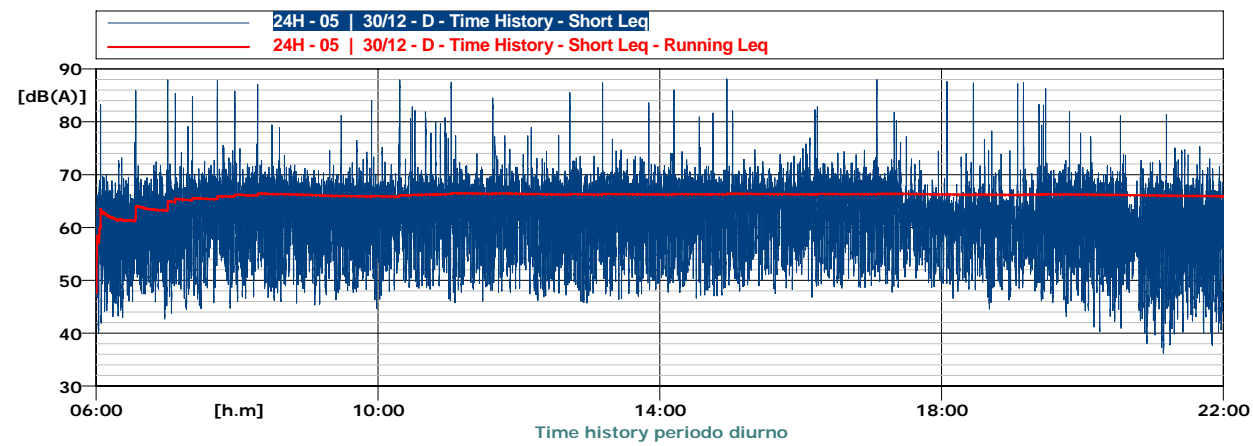
MISURA	PERIODO	LUN	MAR	MER	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 – 22				65.6					[dB(A)]
	Notturmo 22 – 06				59.0					
Numero veicoli	Diurno 06 – 22				14248					Leggeri
					474					Pesanti
	Notturmo 22 – 06				1668					Leggeri
					33					Pesanti

NOTE
 Estrazione misura dalle 12:00 del 30/12 alle 12:00 del 31/12
 Strada a senso unico a due corsie di marcia

TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>

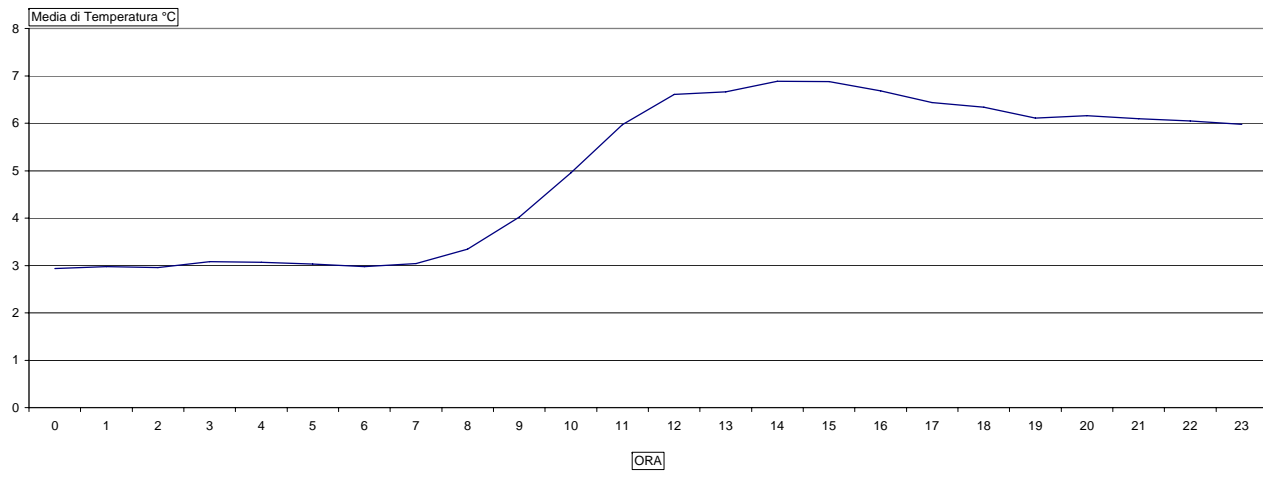




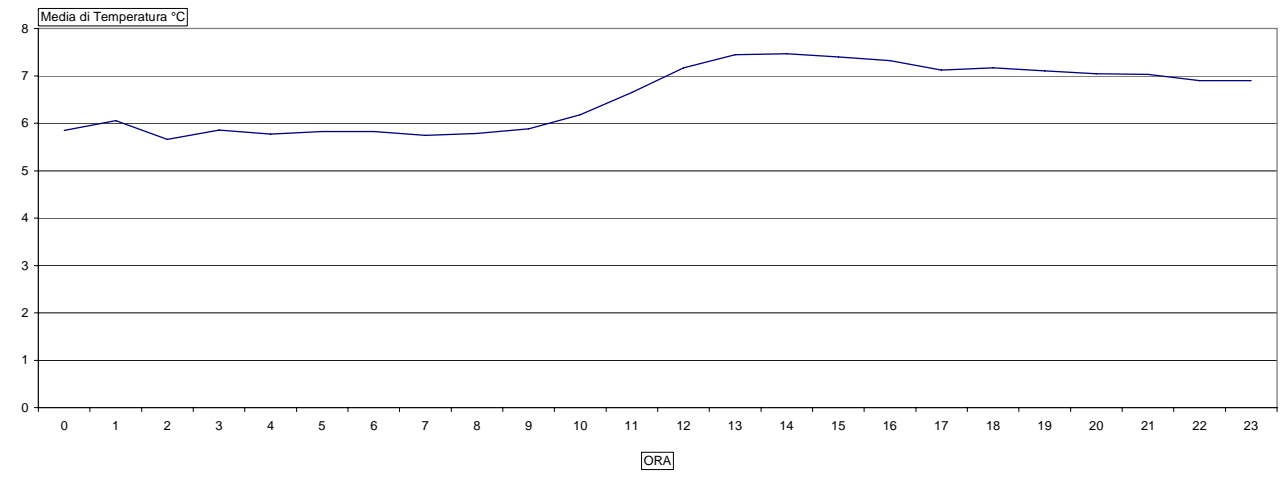


VELOCITA' DI TRANSITO		
ORARIO	LEGGERI	PESANTI
0	73	56
1	76	68
2	78	57
3	75	-
4	78	-
5	78	68
6	76	58
7	73	58
8	72	64
9	69	62
10	68	61
11	70	63
12	68	58
13	69	57
14	67	56
15	61	54
16	62	57
17	54	48
18	50	47
19	62	55
20	69	59
21	72	65
22	73	65
23	72	55
MEDIA D	66	58
MEDIA N	76	61

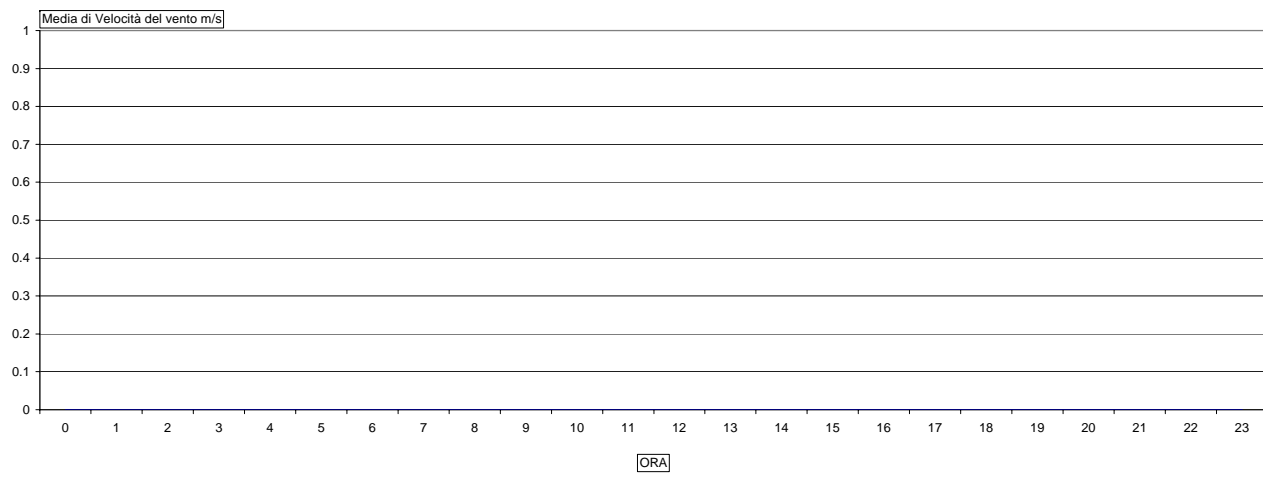
29/12/2010



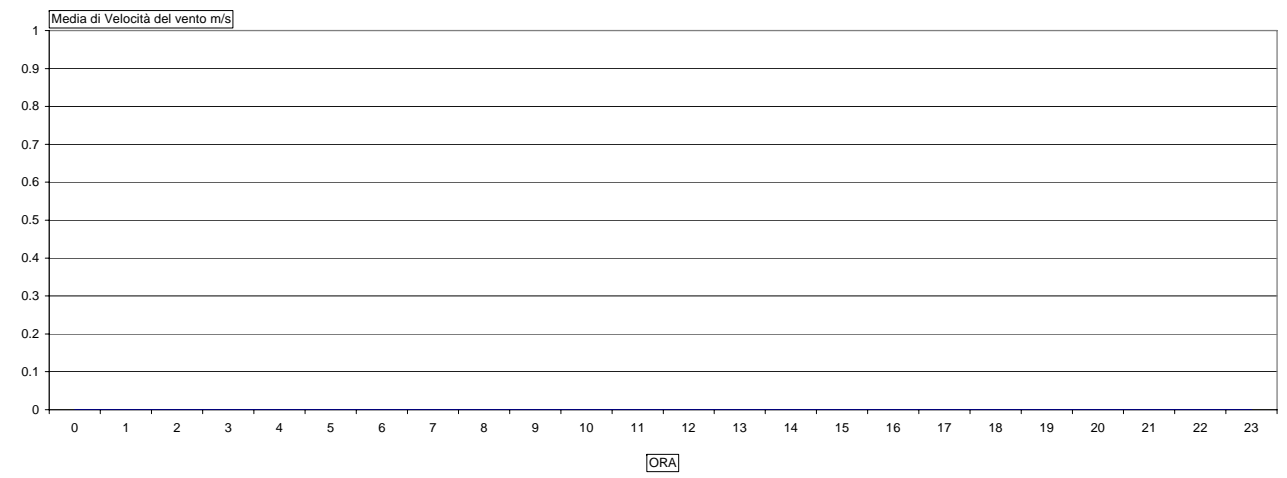
30/12/2010



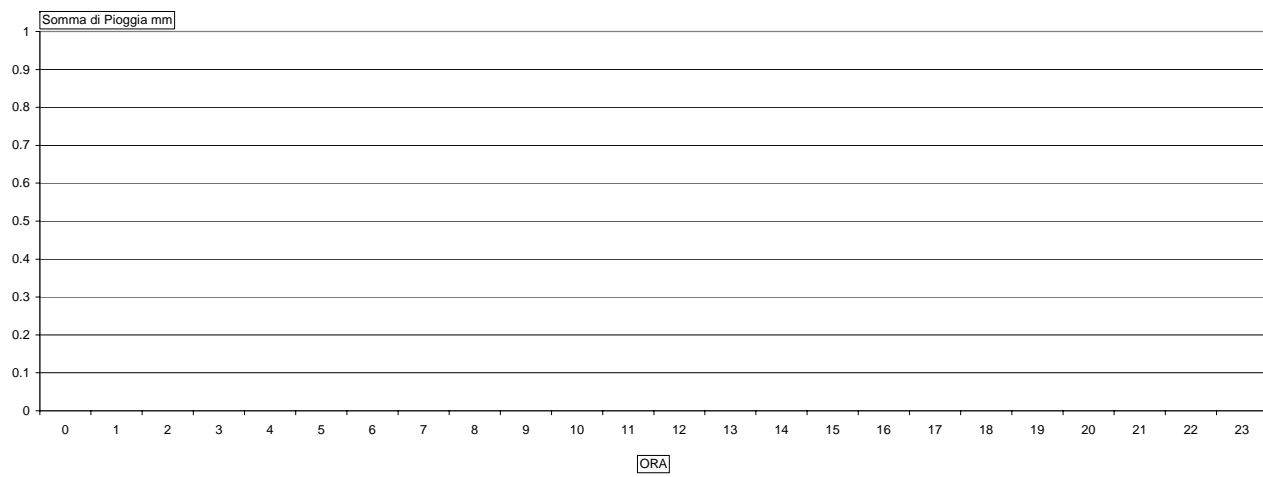
29/12/2010



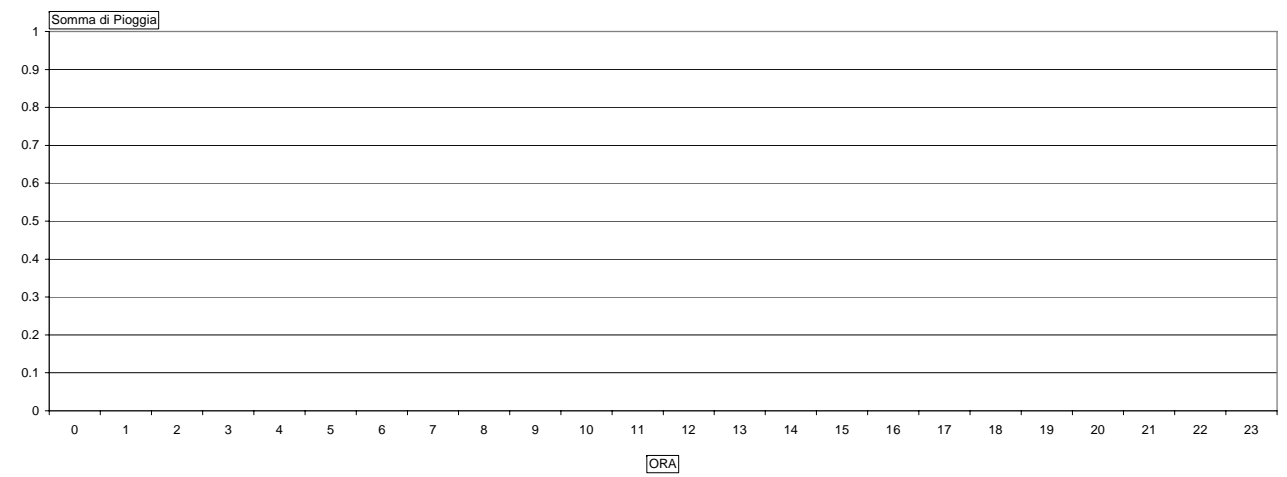
30/12/2010



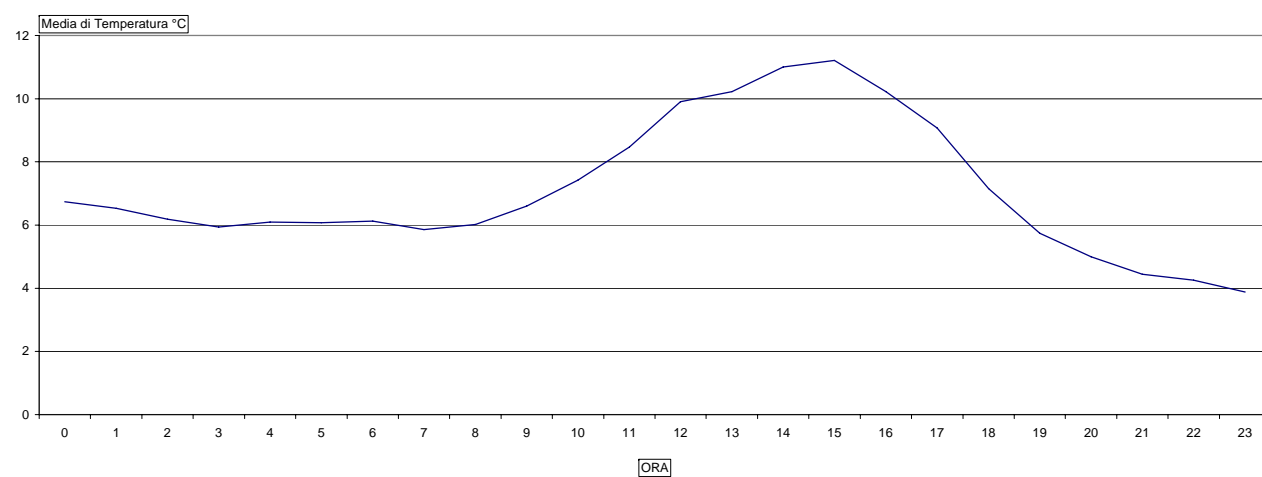
29/12/2010



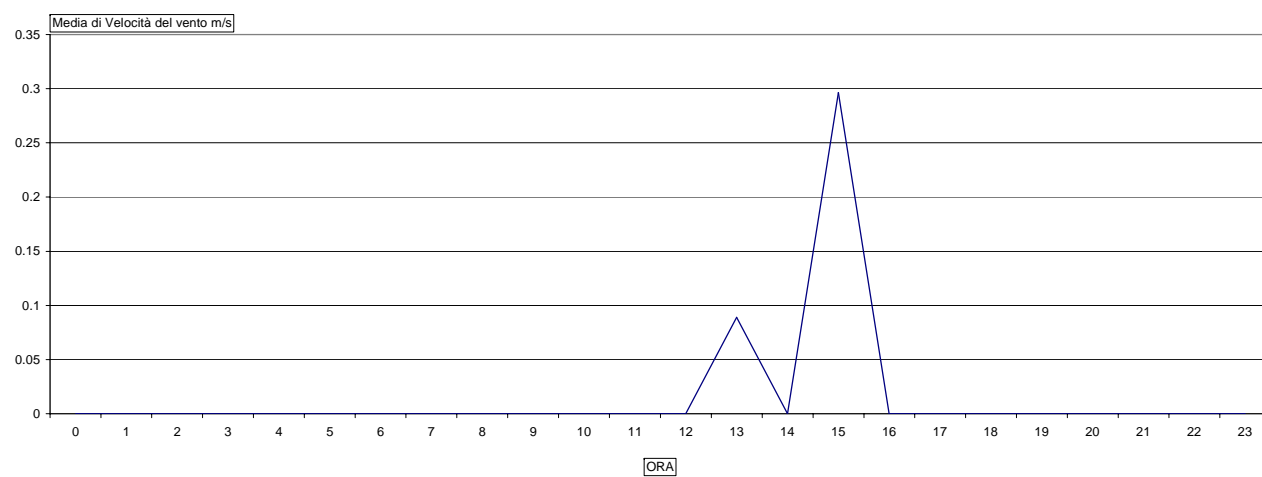
30/12/2010



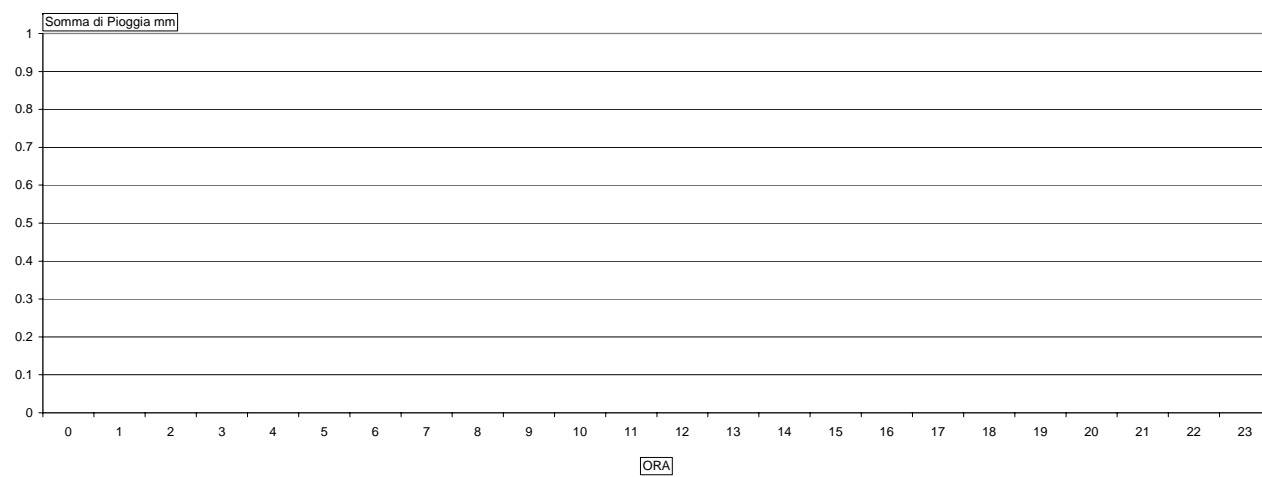
31/12/2010



31/12/2010

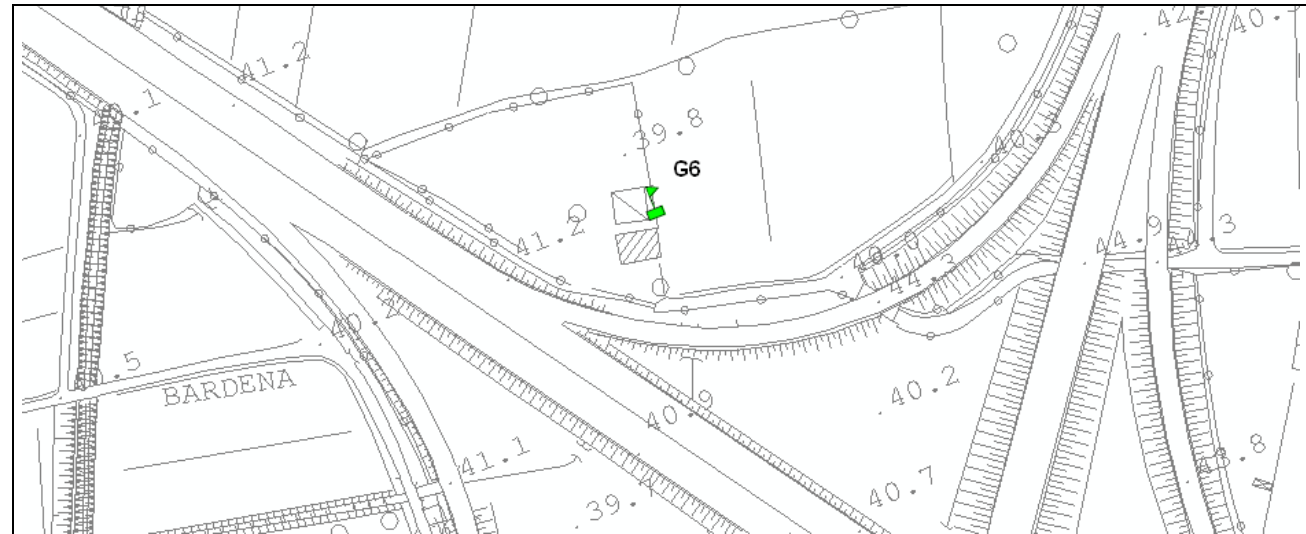


31/12/2010



Misura fonometrica G6

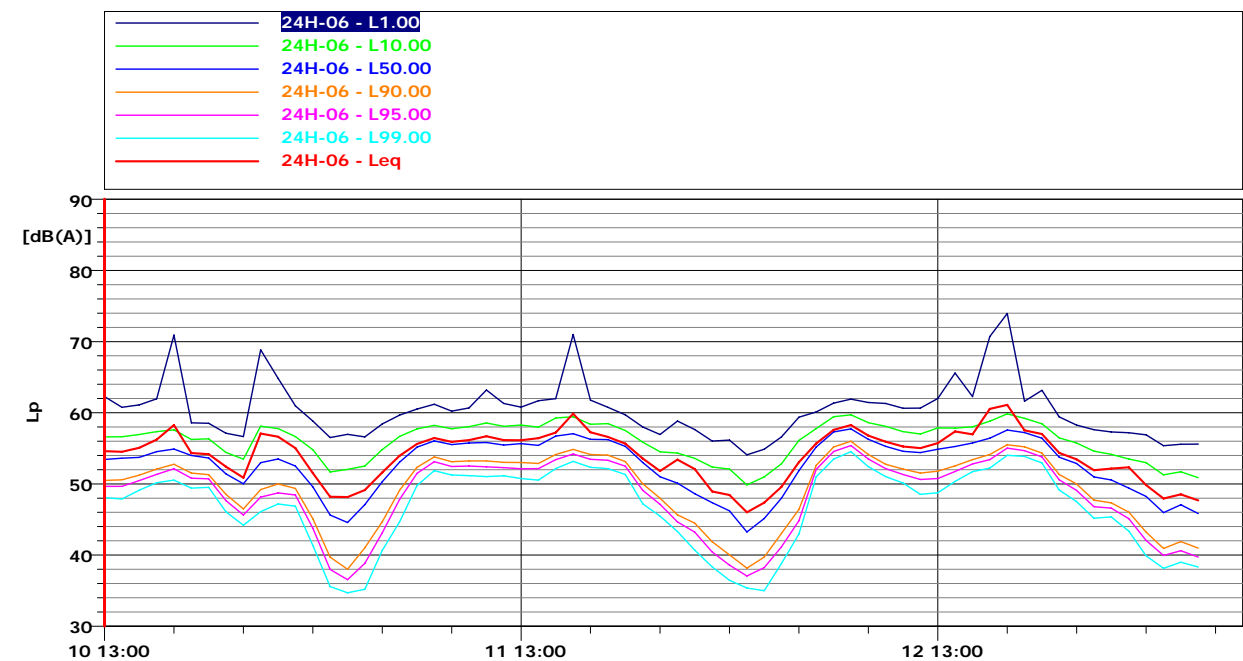
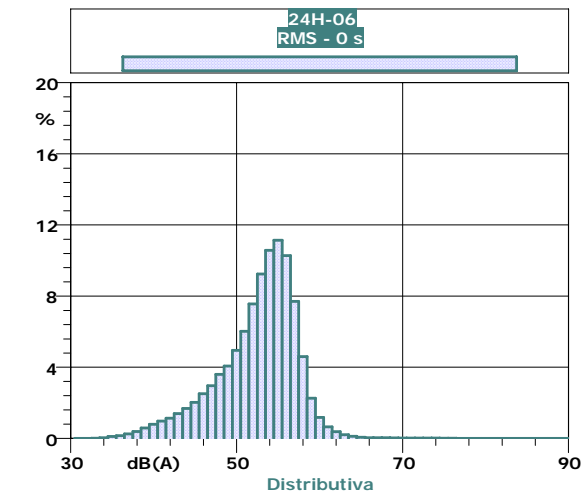
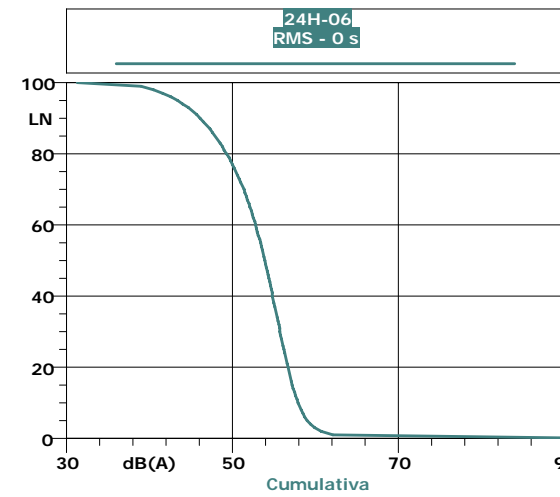
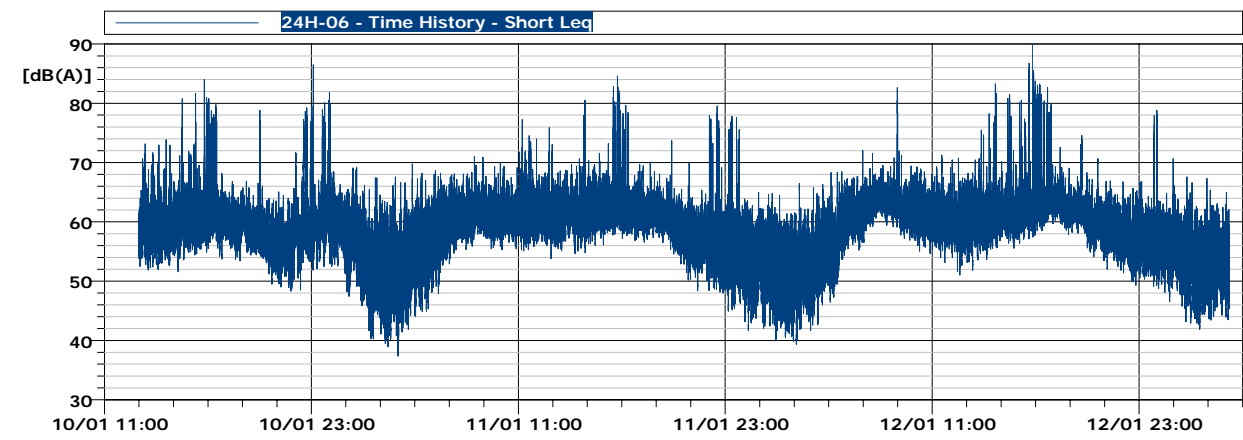
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Prato	Inizio	10/01/2011	13:00
Indirizzo	Via del Trebbio alla Bardena	Fine	13/01/2011	04:14
Progressiva km	17+000	Fonometro	Larson Davis 824	S. N. A2899
Distanza infrastruttura	34.0 [m]	Tipologia tracciato	Rilevato	
Nome infrastruttura	Autostrada A11	Tipologia asfalto	Drenante	

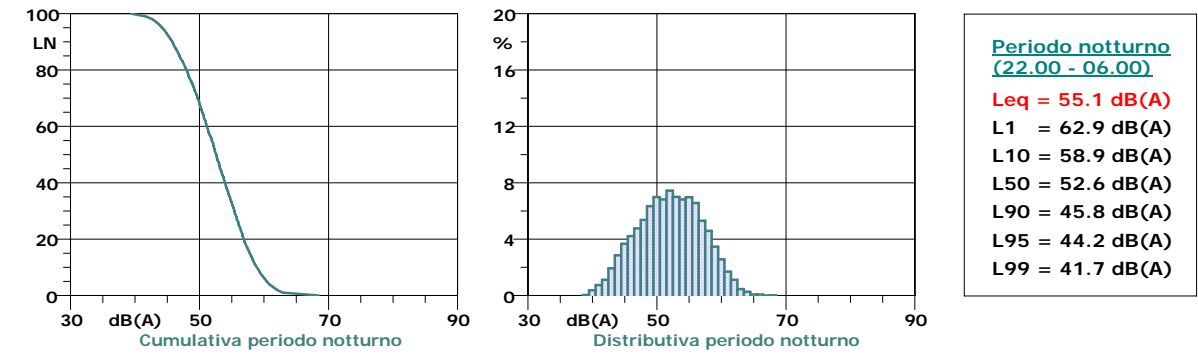
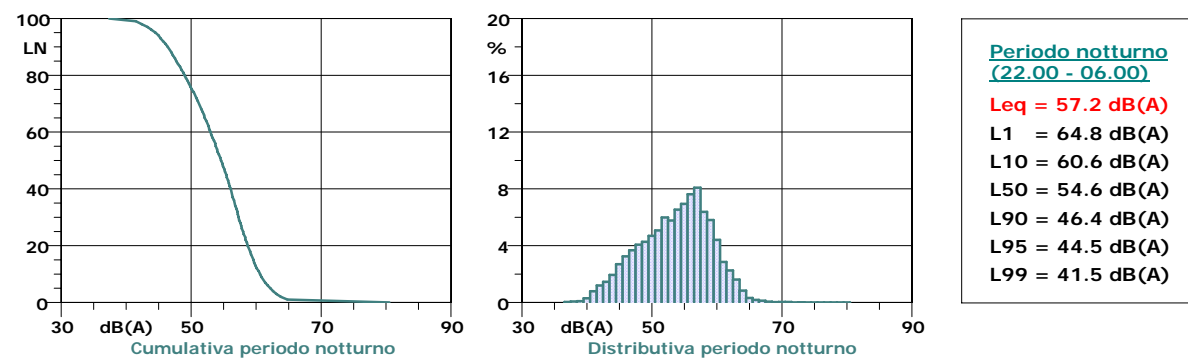
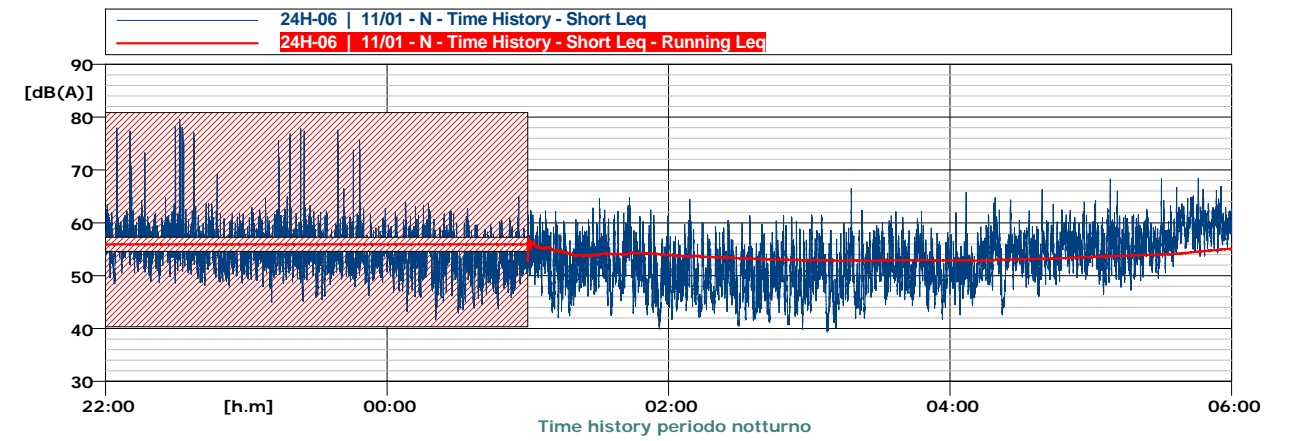
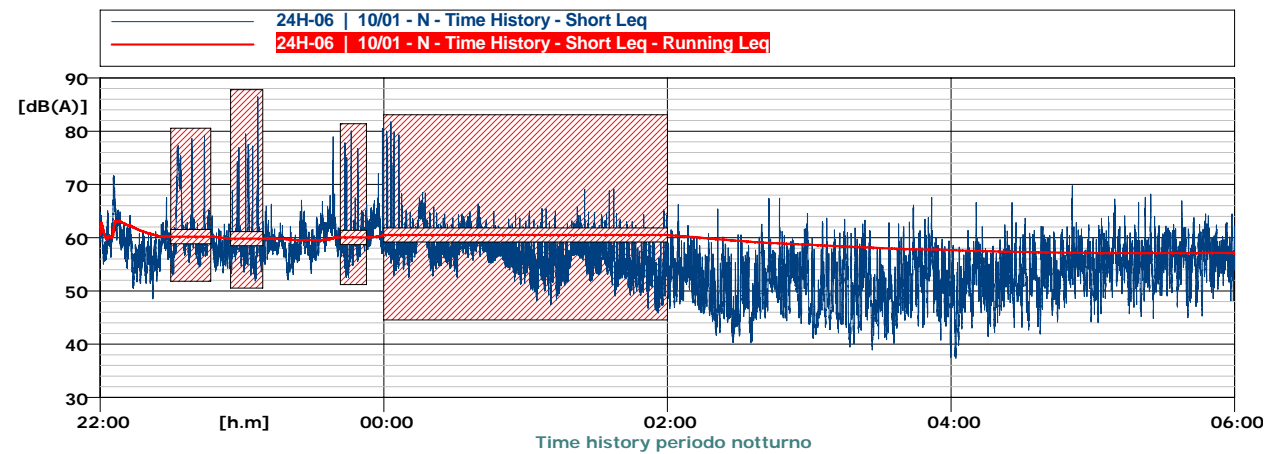
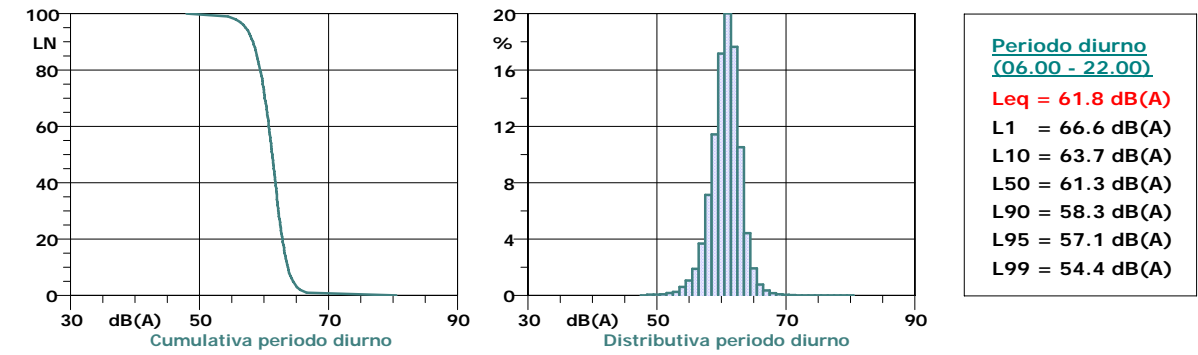
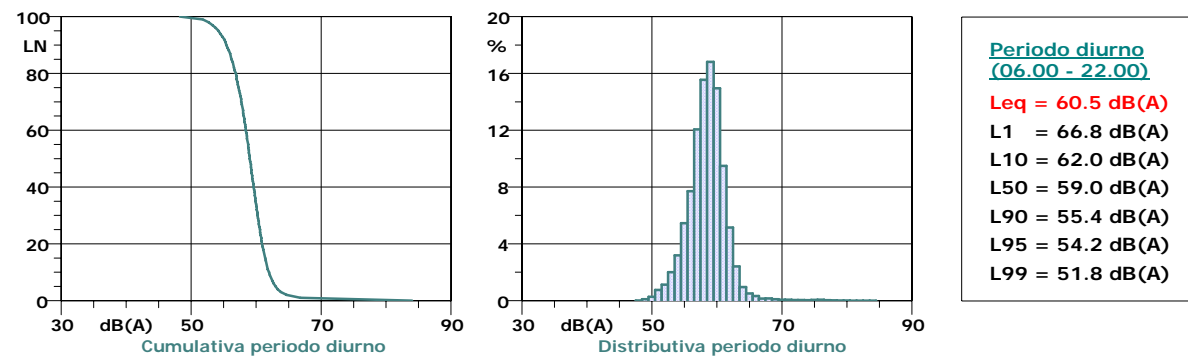
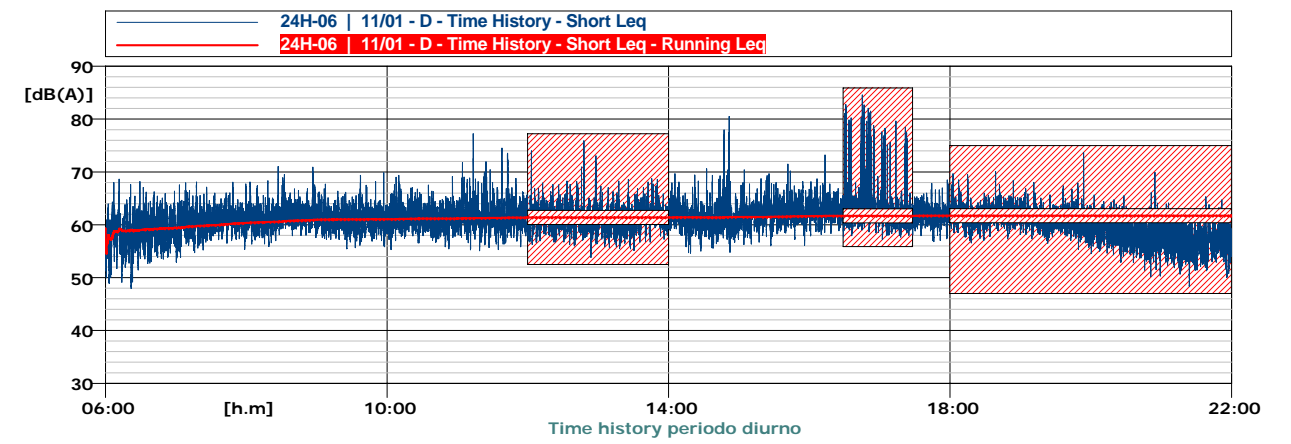
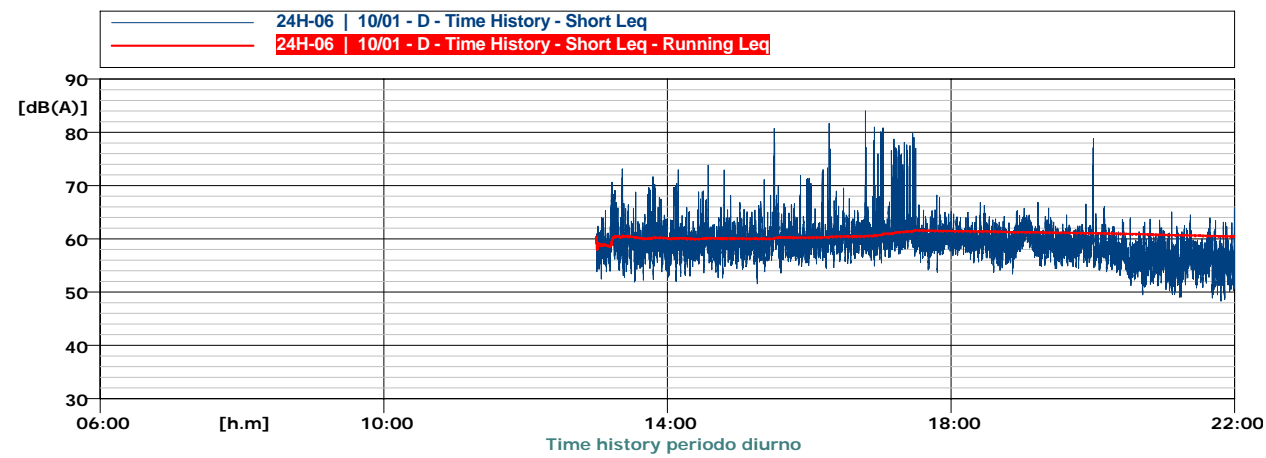


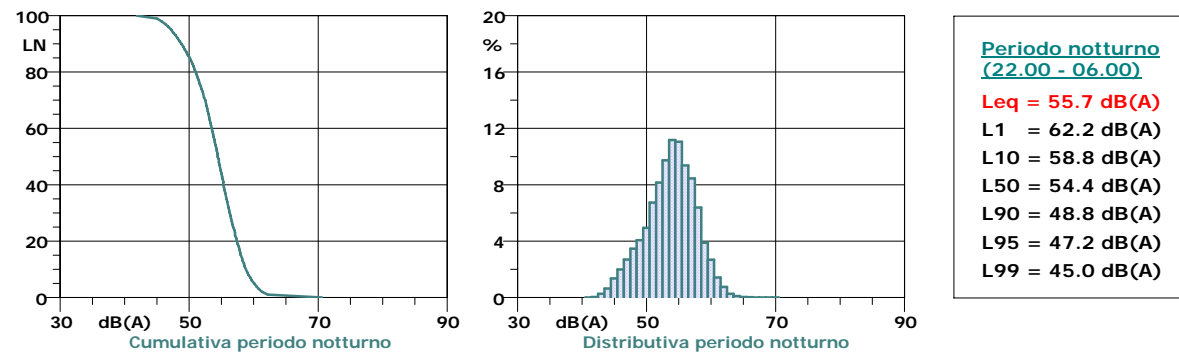
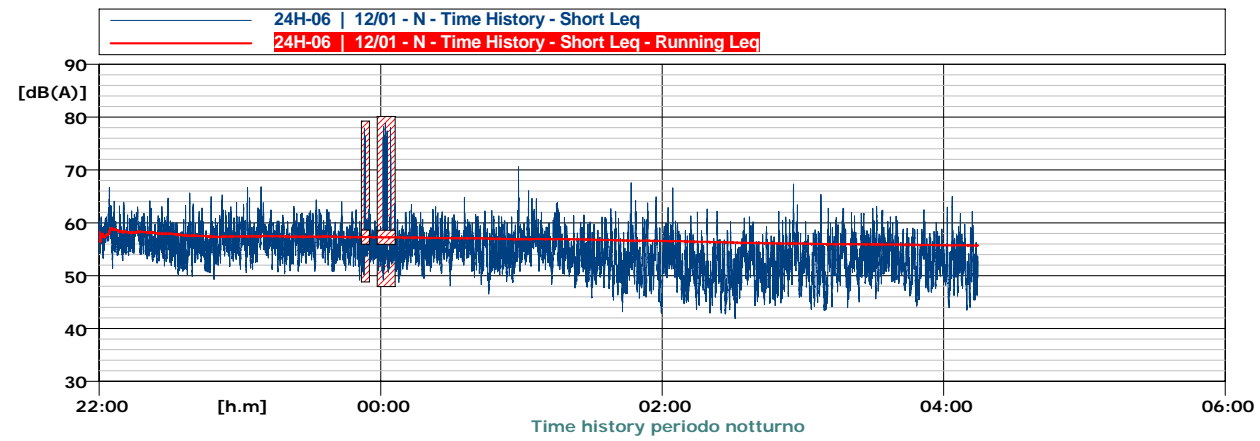
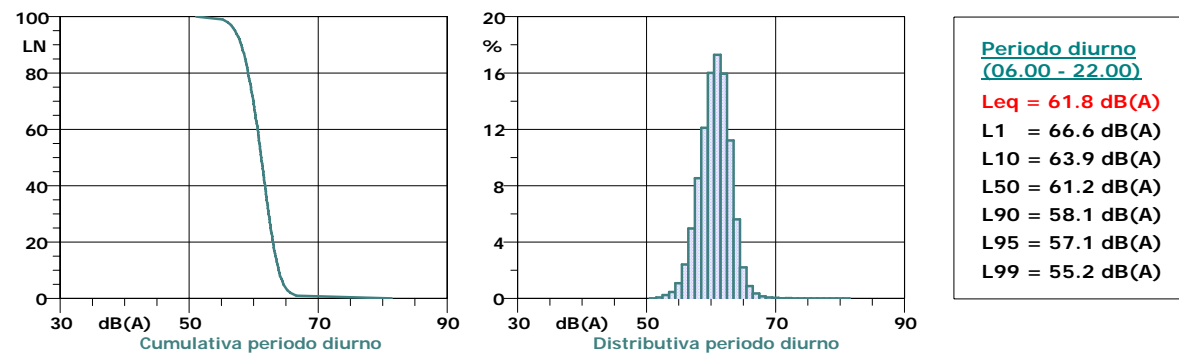
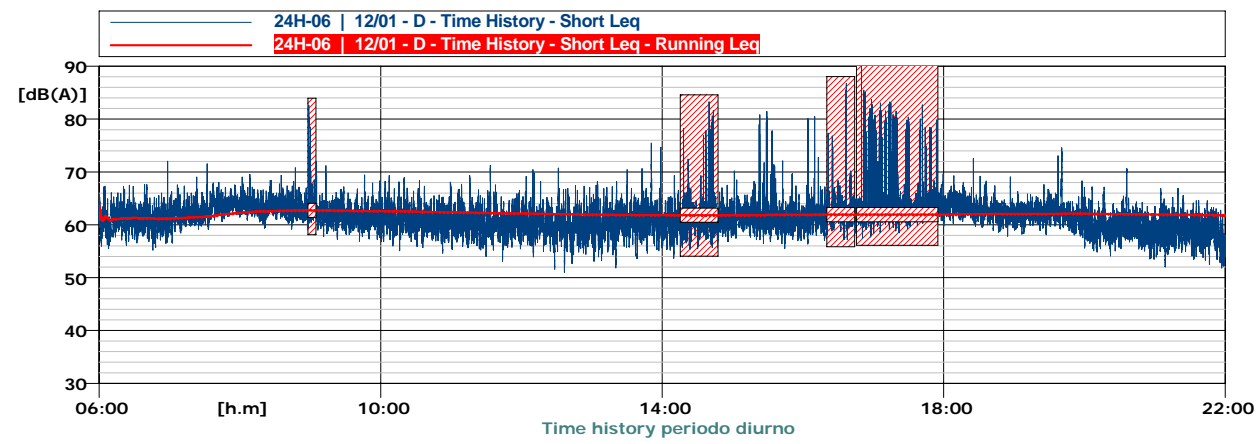
MISURA	PERIODO	LUN 10/01	MAR 11/01	MER 12/01	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 – 22		61.8*	61.8*						[dB(A)]
	Notturmo 22 – 06	57.2*	55.1*							

NOTE GENERALI
 Mascheratura durante condizioni meteo incompatibili (pioggia) o per eventi anomali
 In prossimità di svincolo autostradale. Misura per cantiere.

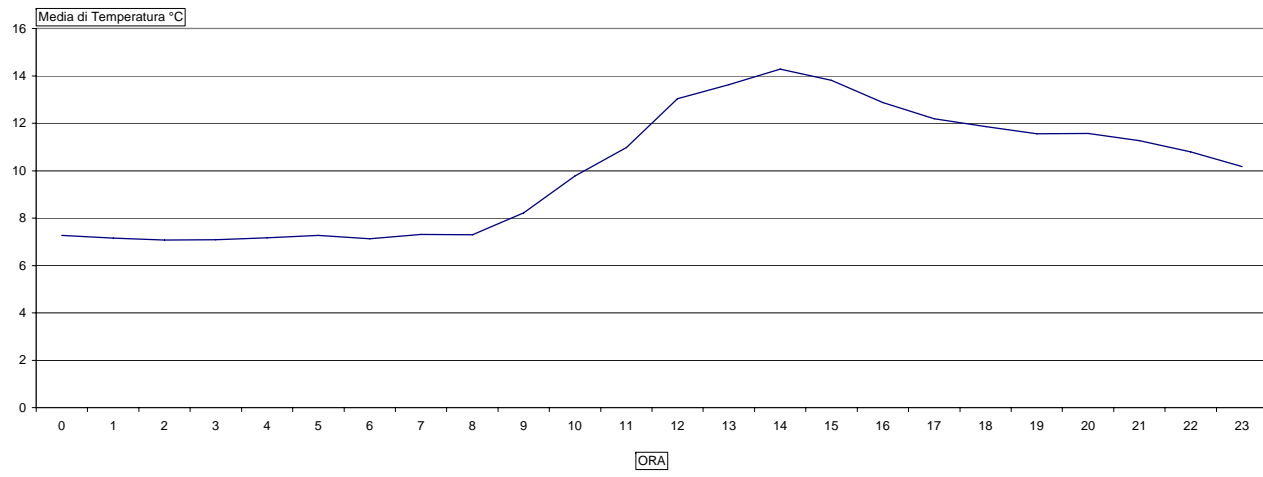
TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>



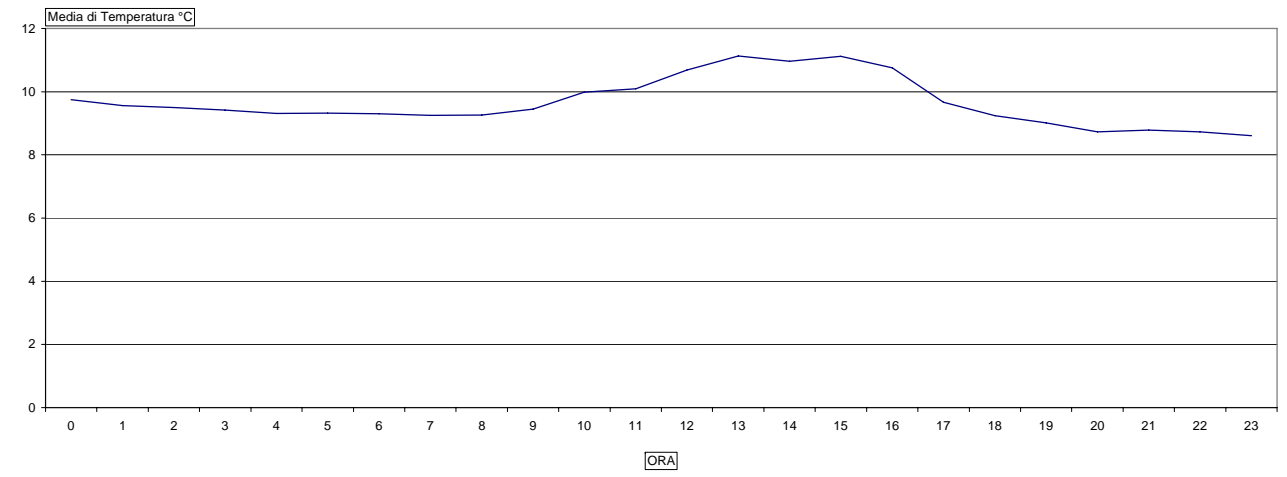




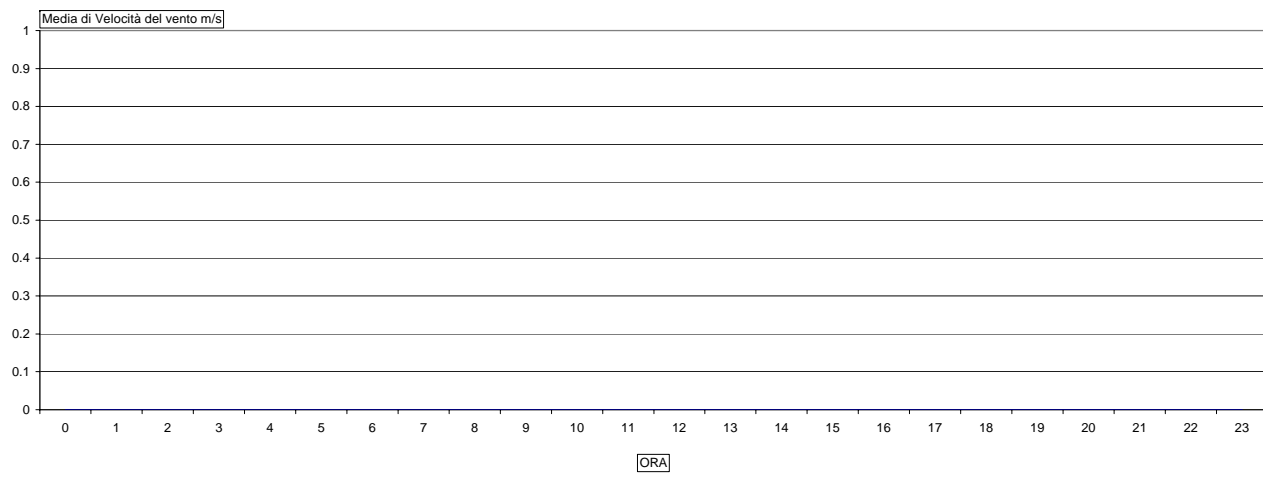
10/01/2011



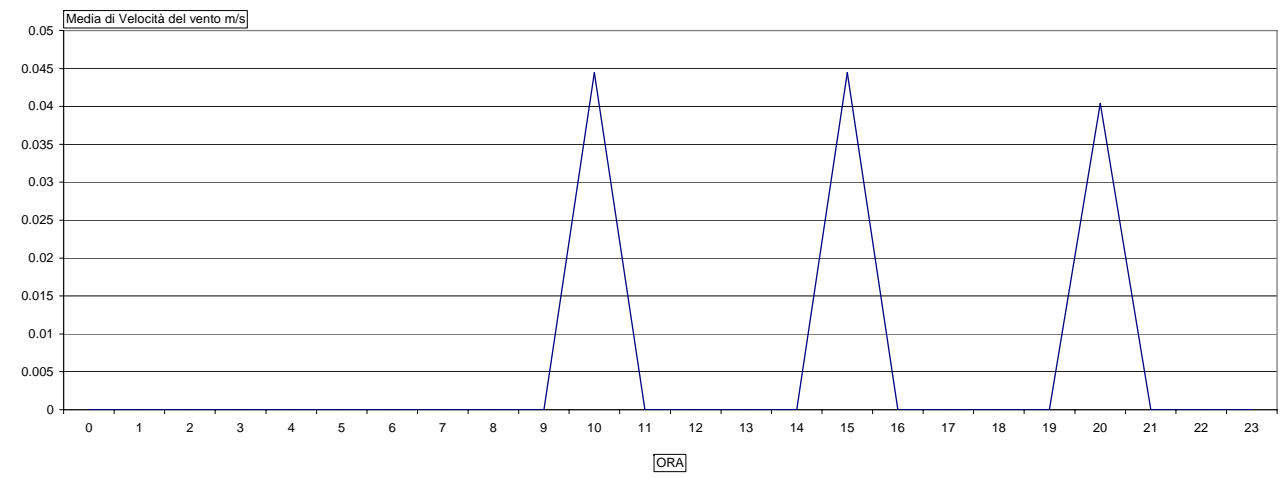
11/01/2011



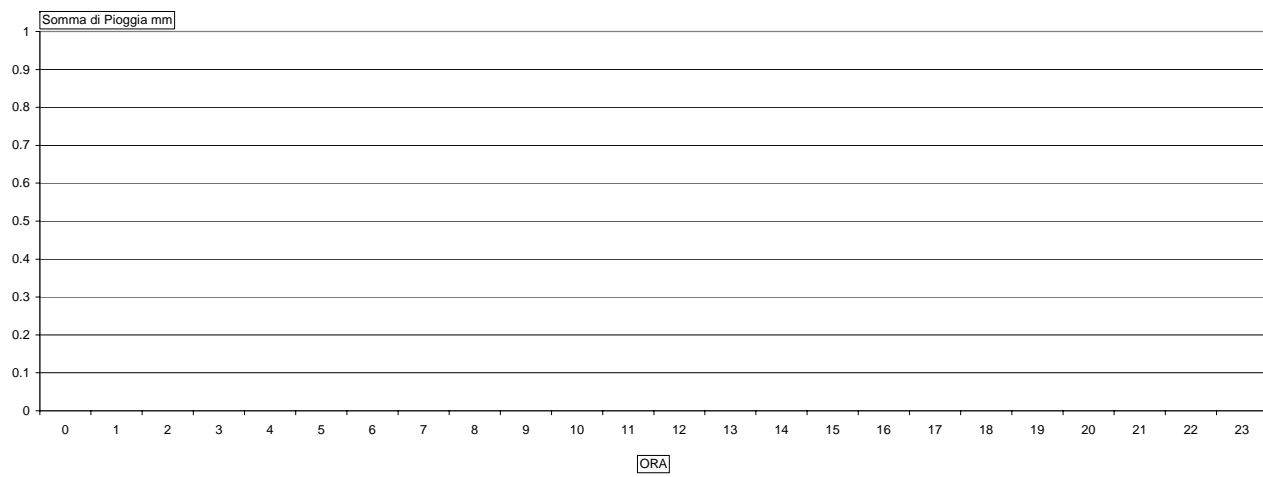
10/01/2011



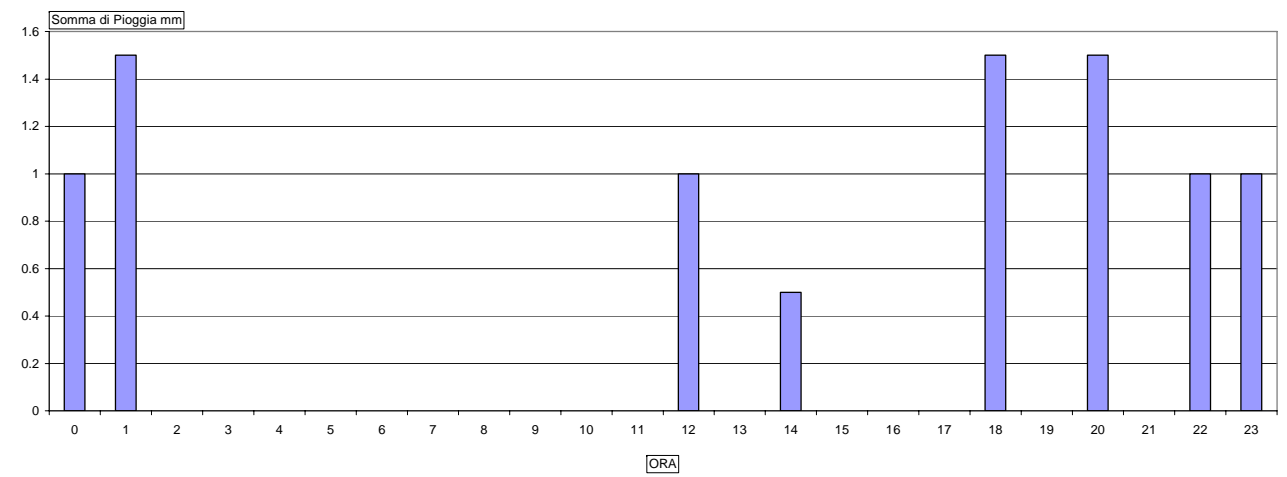
11/01/2011



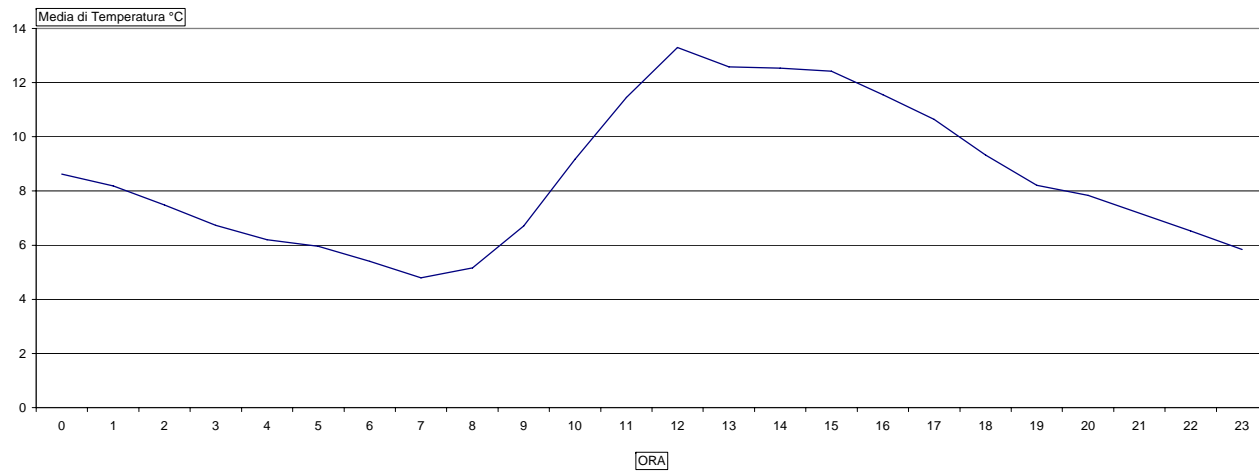
10/01/2011



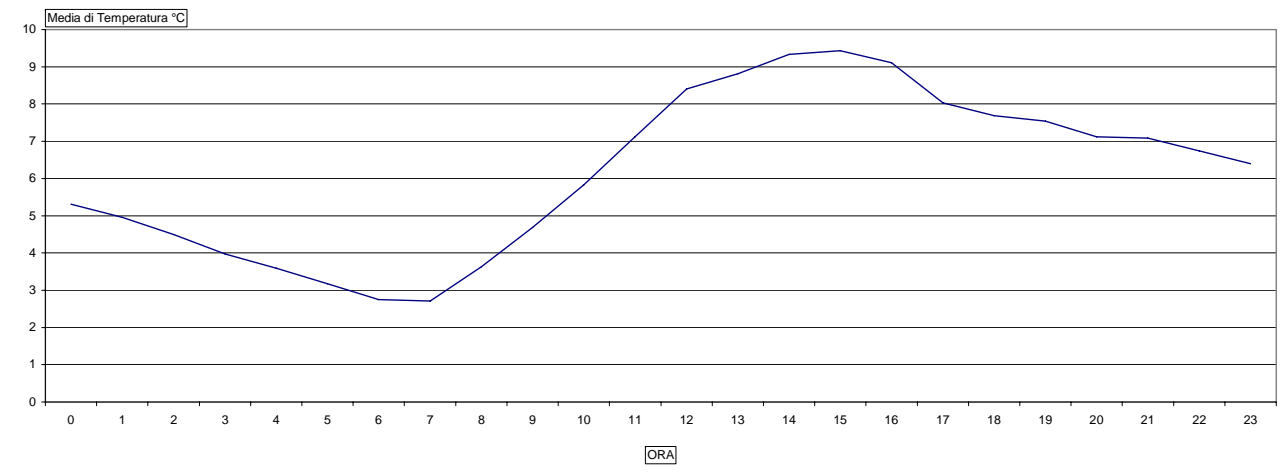
11/01/2011



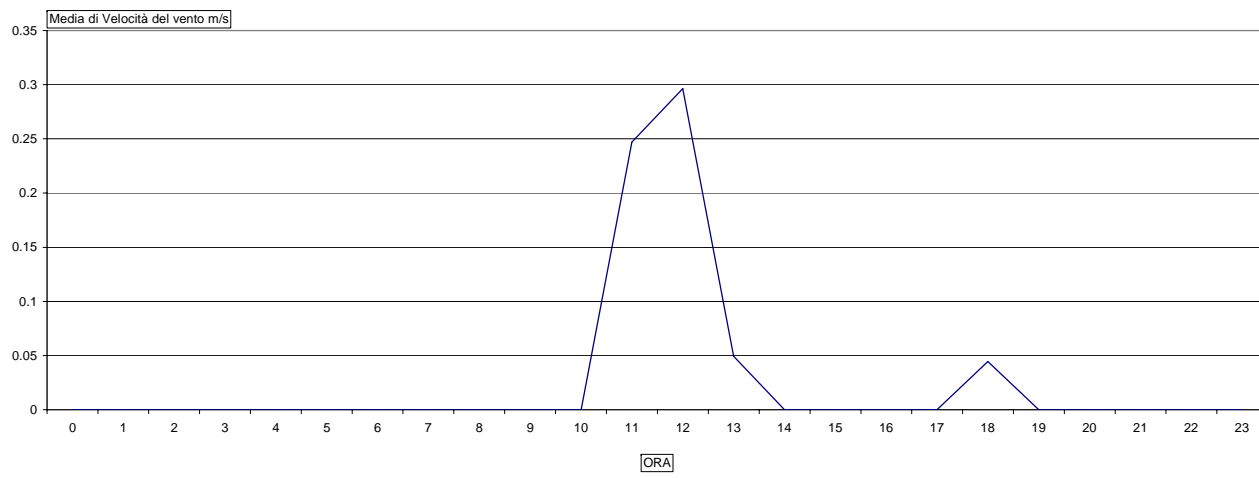
12/01/2011



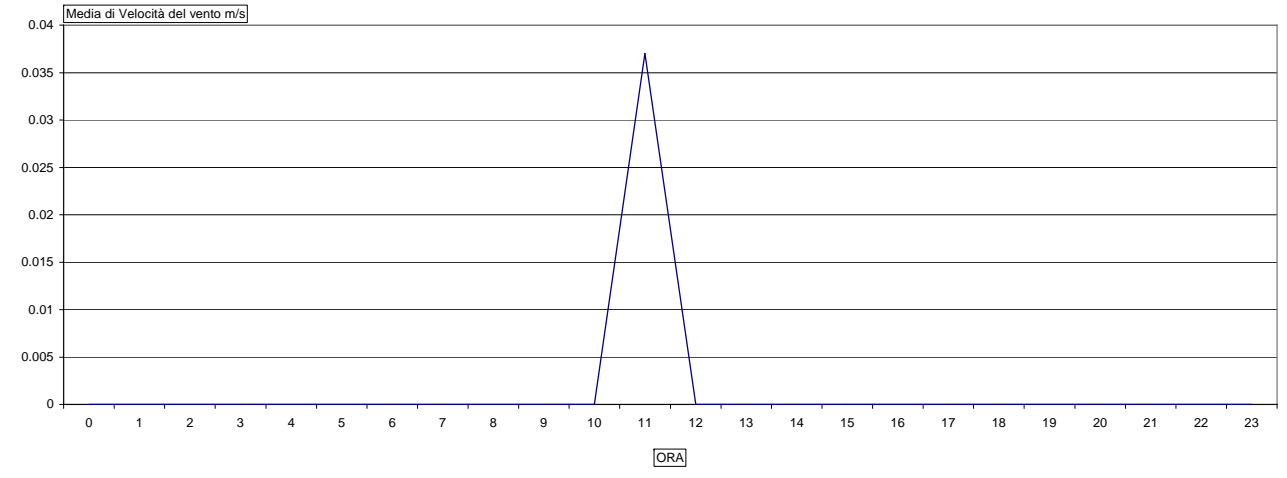
13/01/2011



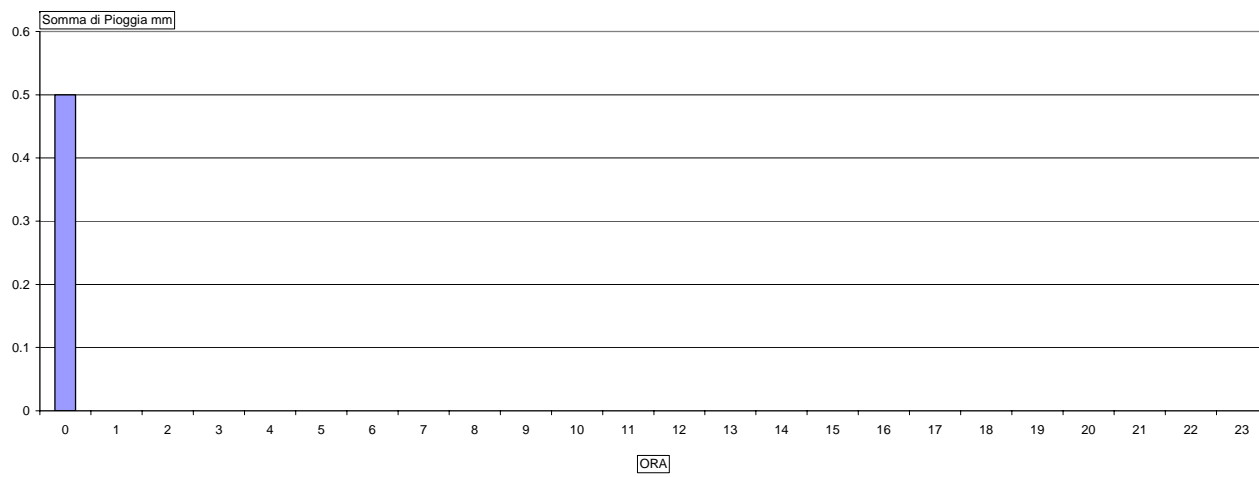
12/01/2011



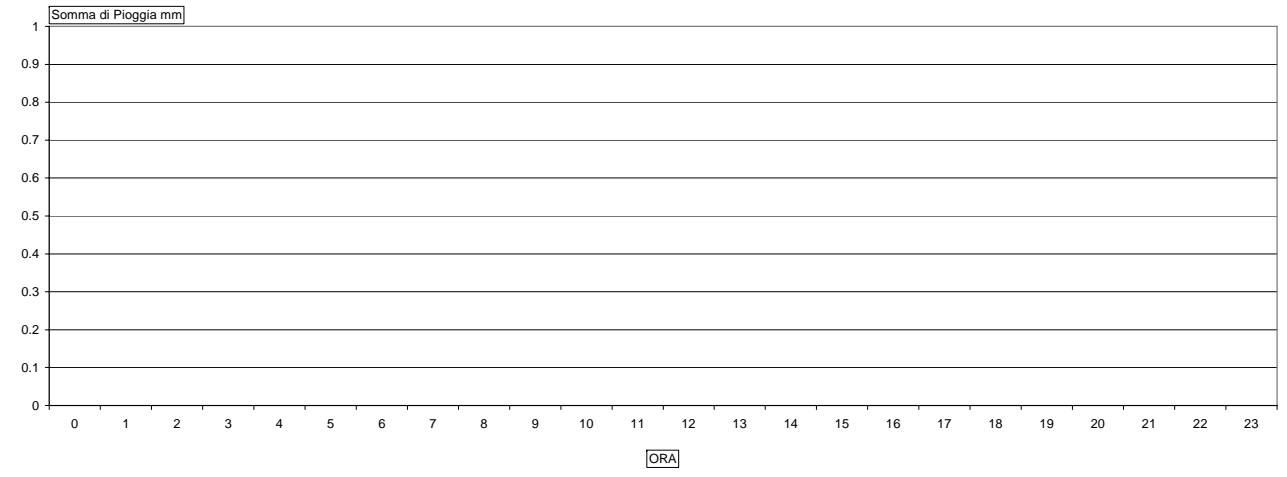
13/01/2011



12/01/2011

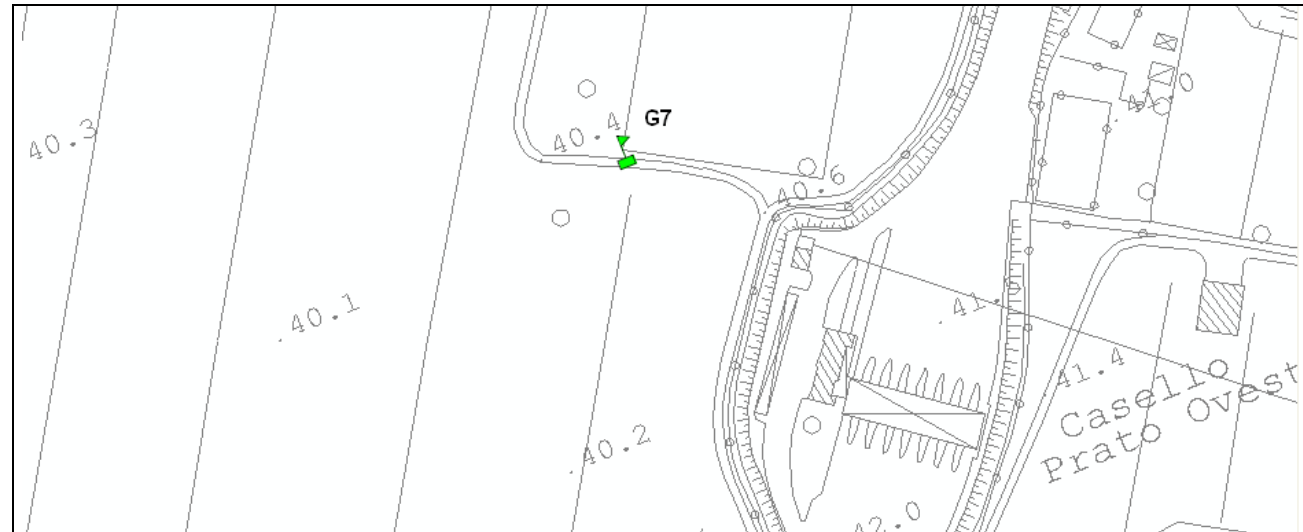


13/01/2011



Misura fonometrica G7

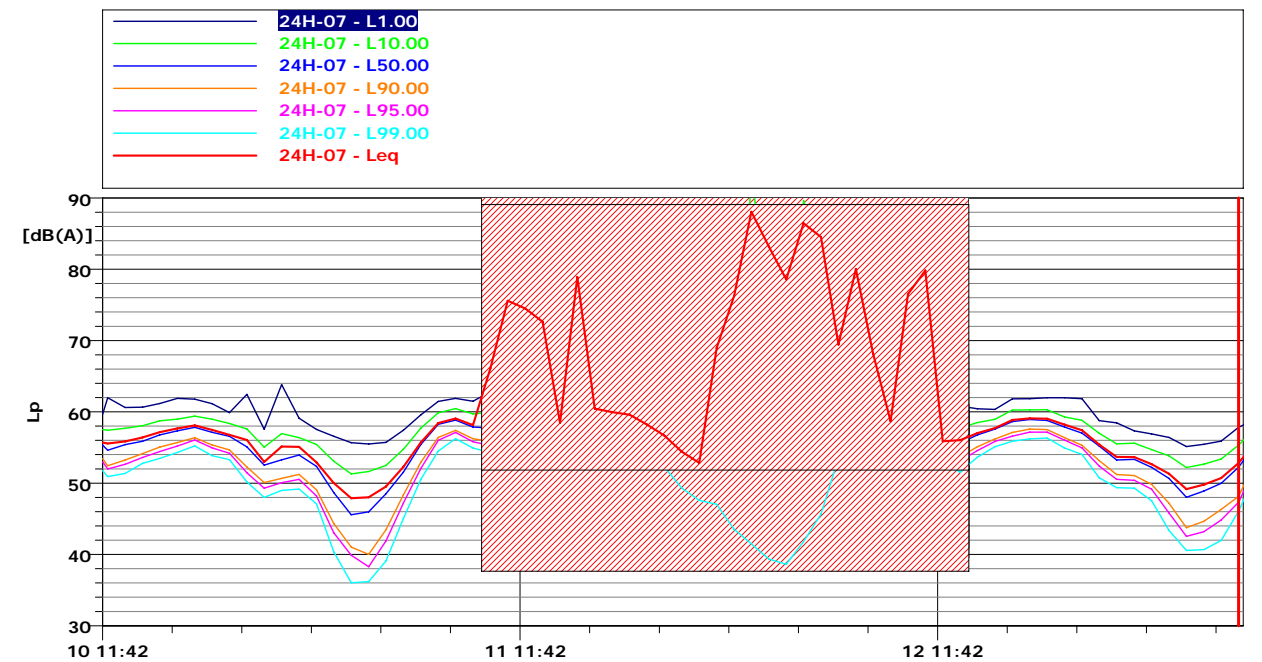
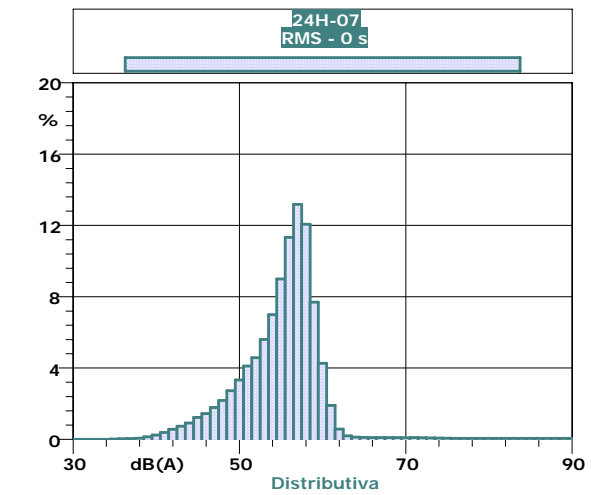
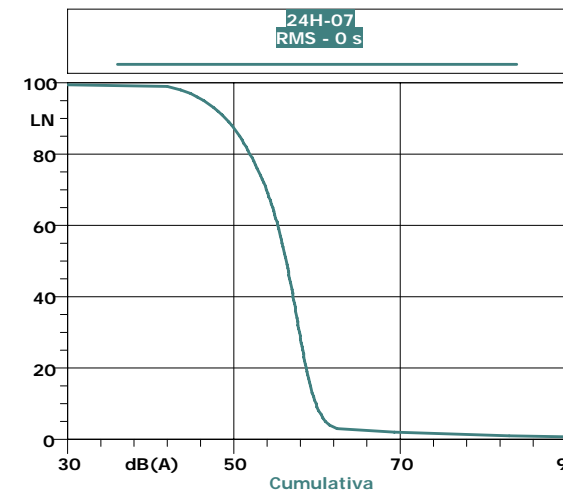
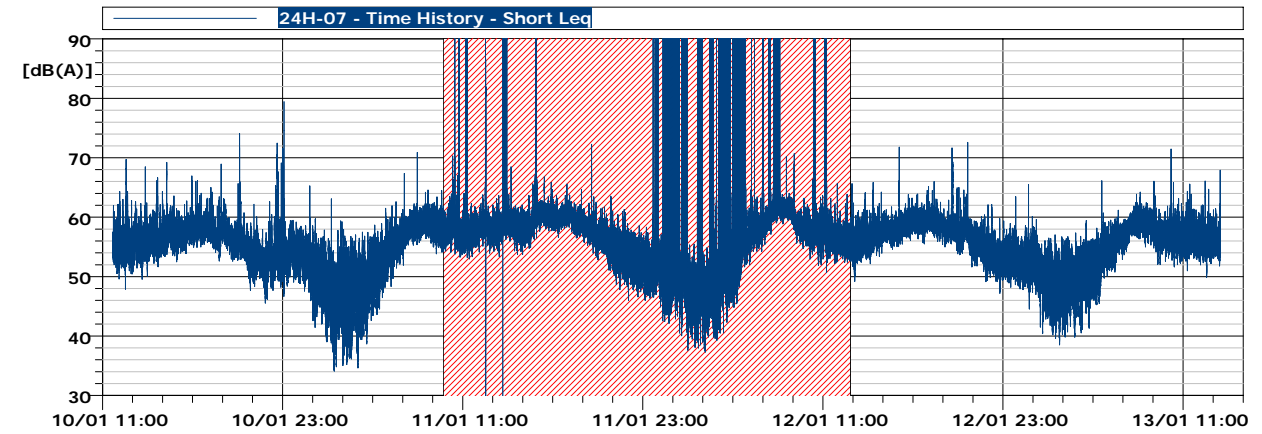
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Prato	Inizio	10/01/2011	11:42
Indirizzo	Via del Trebbio alla Bardena	Fine	13/01/2011	13:29
Progressiva km	17+050	Fonometro	Larson Davis 824	S. N. A3735
Distanza infrastruttura	57.0* [m]	Tipologia tracciato	Rilevato	
Nome infrastruttura	Autostrada A11	Tipologia asfalto	Drenante	

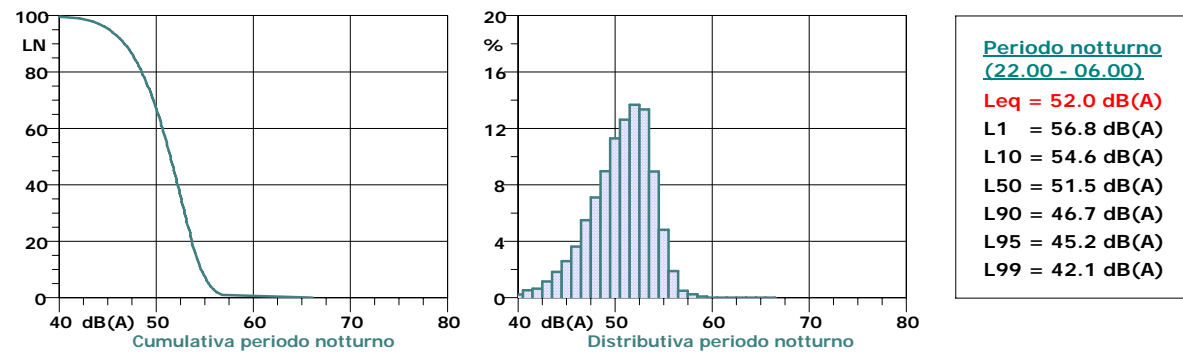
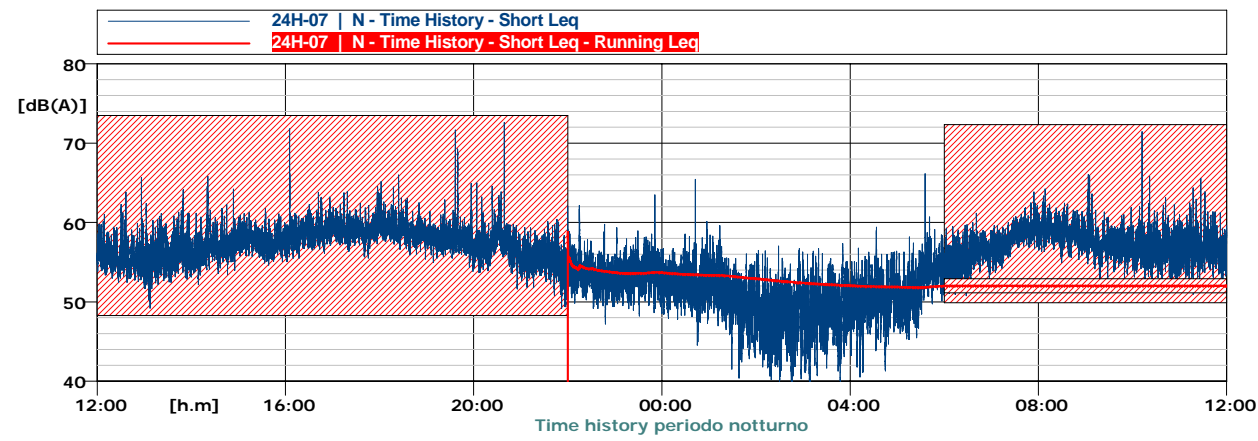
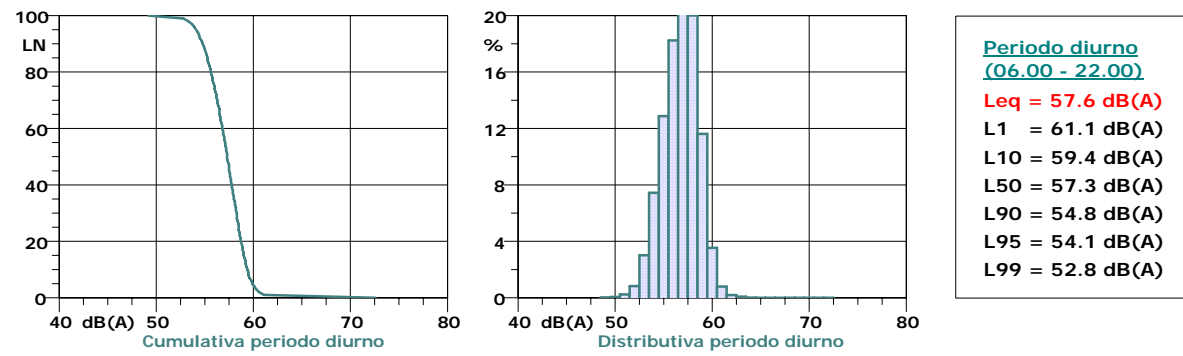
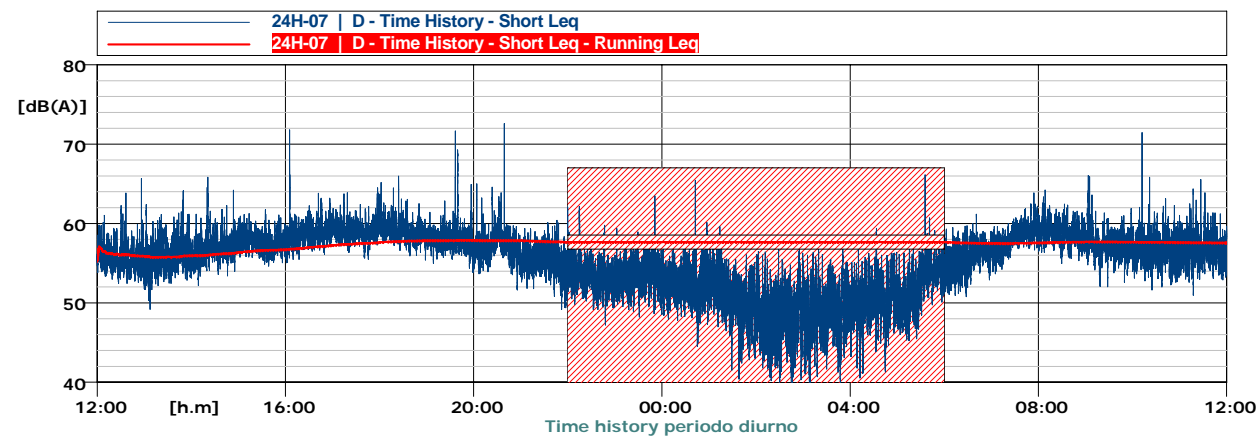


MISURA	PERIODO	LUN	MAR	MER 12/01	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno	06 – 22		57.9						[dB(A)]
	Notturmo	22 – 06		52.0						

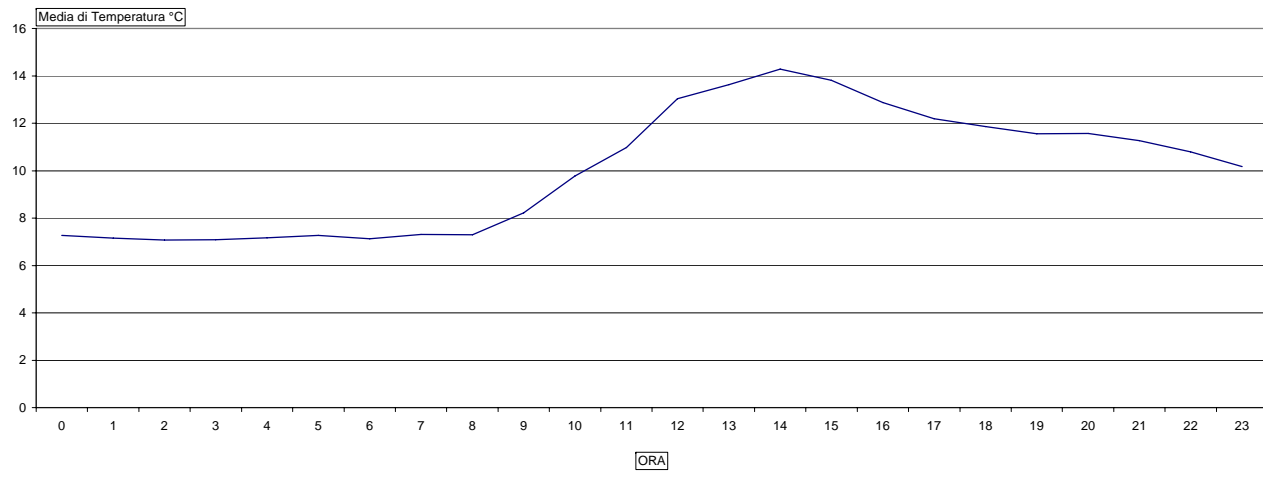
NOTE GENERALI
 Estrazione misura dalle 12:00 del 12/01 alle 12:00 del 13/01
 Mascheratura durante condizioni meteo incompatibili (pioggia) o per eventi anomali
 In prossimità di casello autostradale Prato Ovest. Misura per cantiere.
 *dalla recinzione dell'area autostradale

TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>

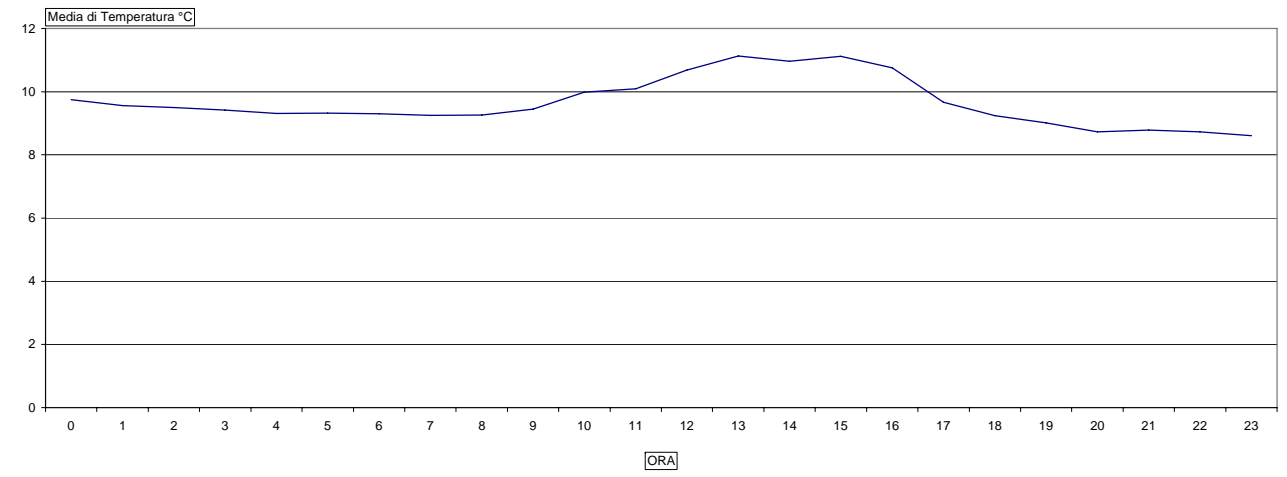




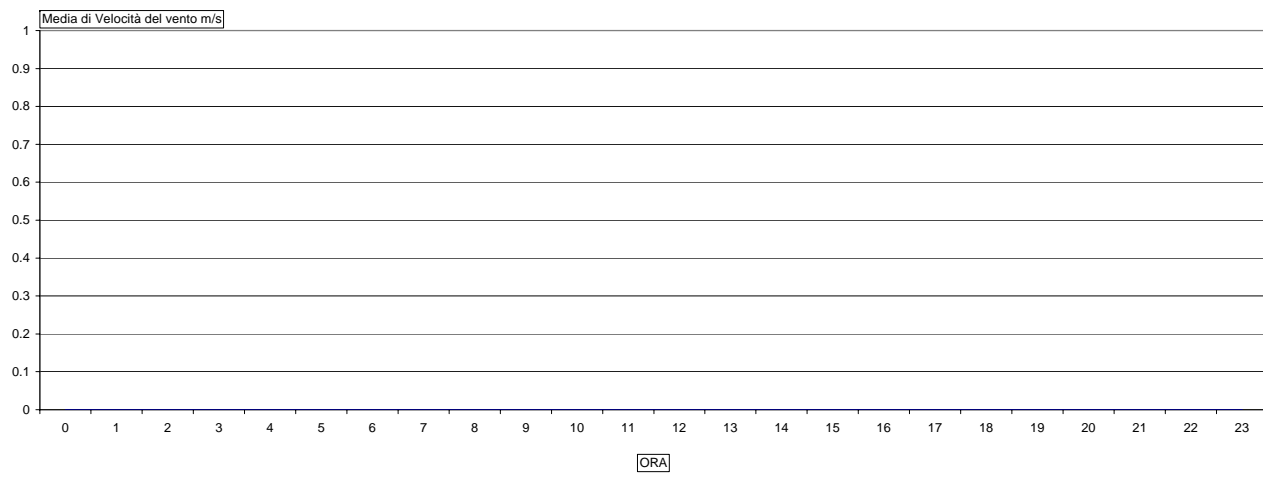
10/01/2011



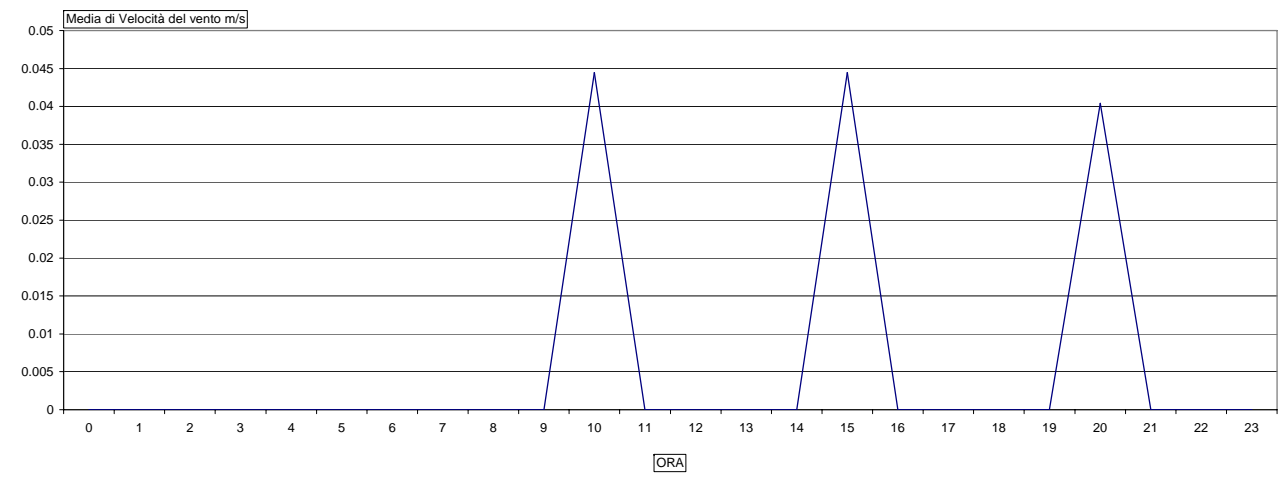
11/01/2011



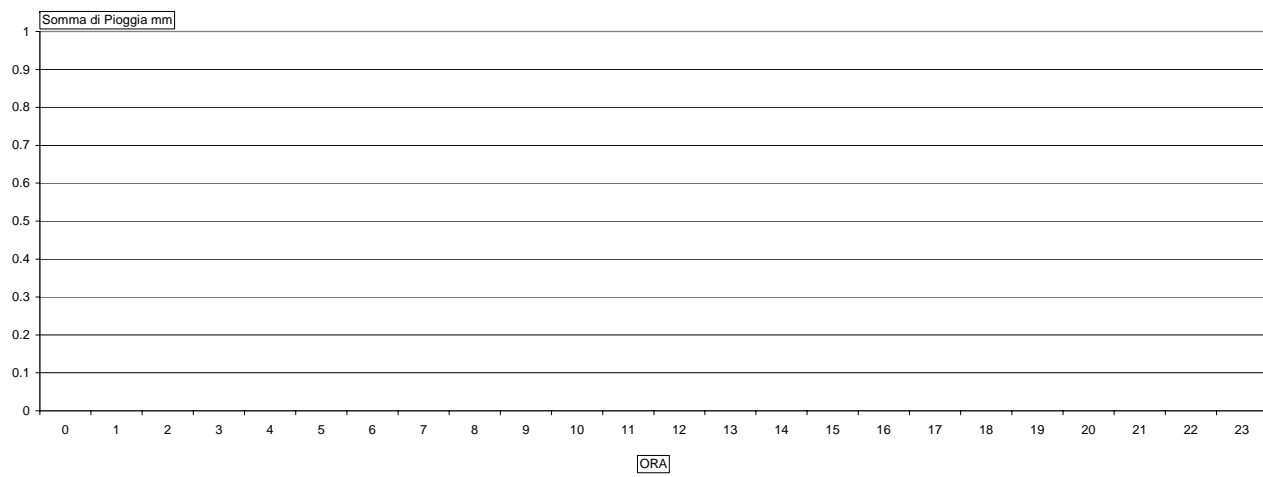
10/01/2011



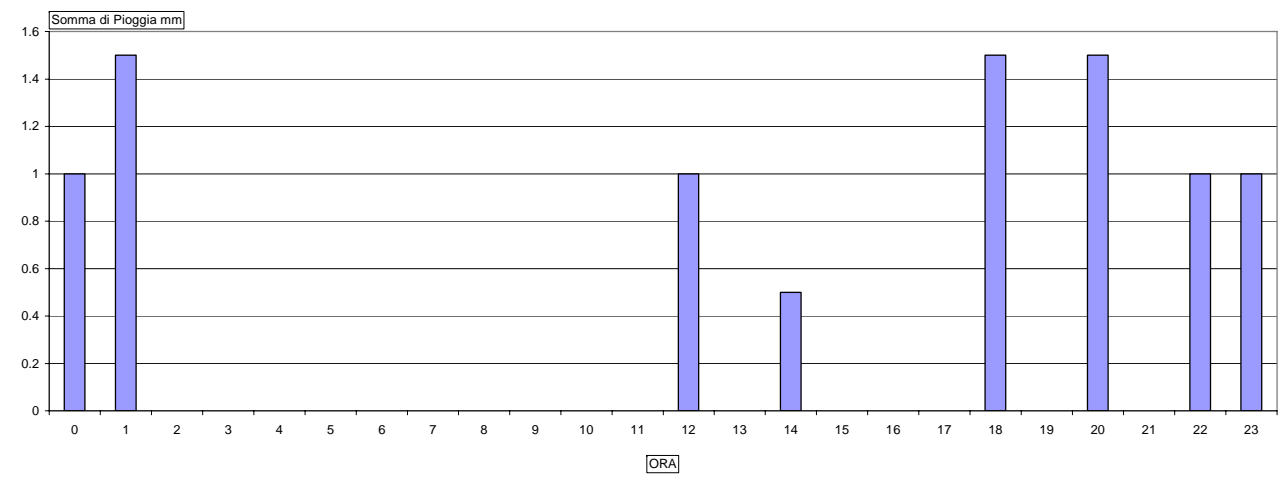
11/01/2011



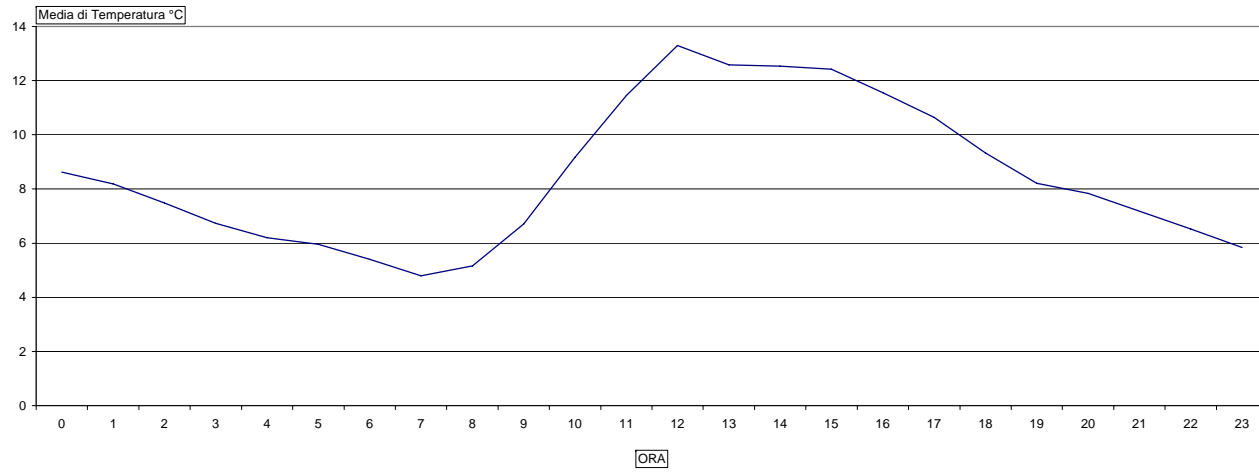
10/01/2011



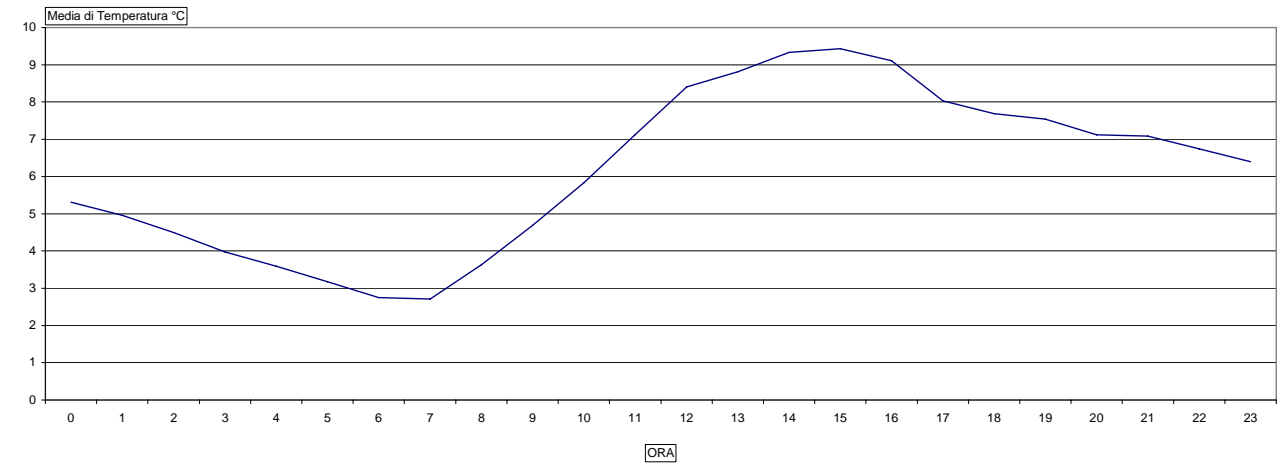
11/01/2011



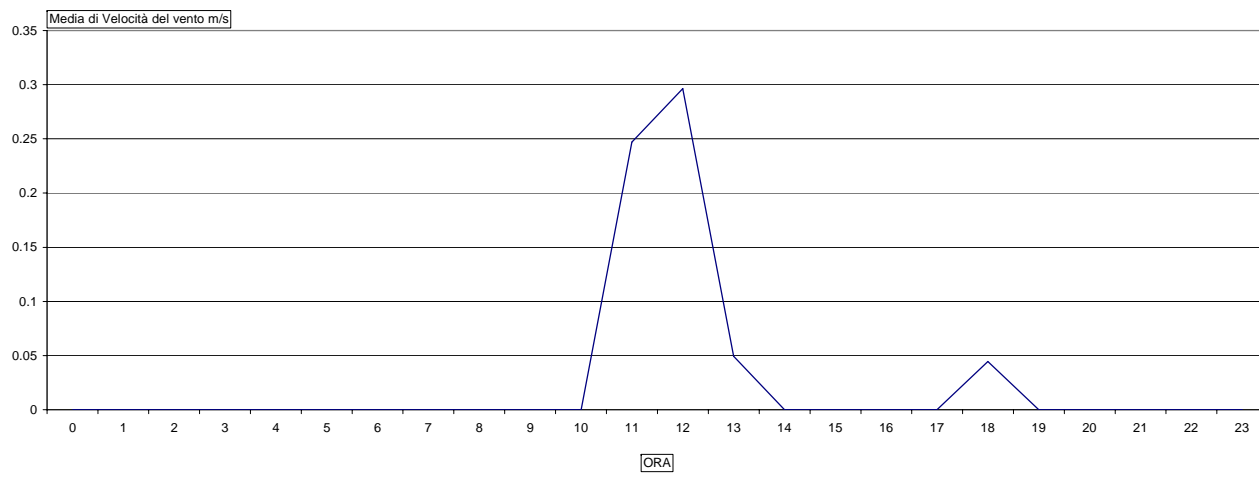
12/01/2011



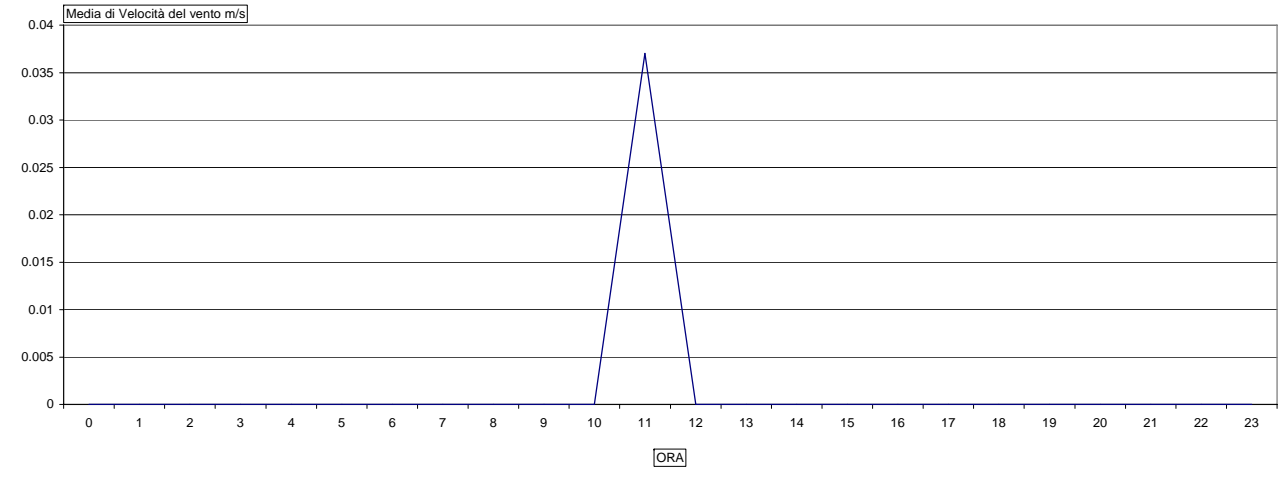
13/01/2011



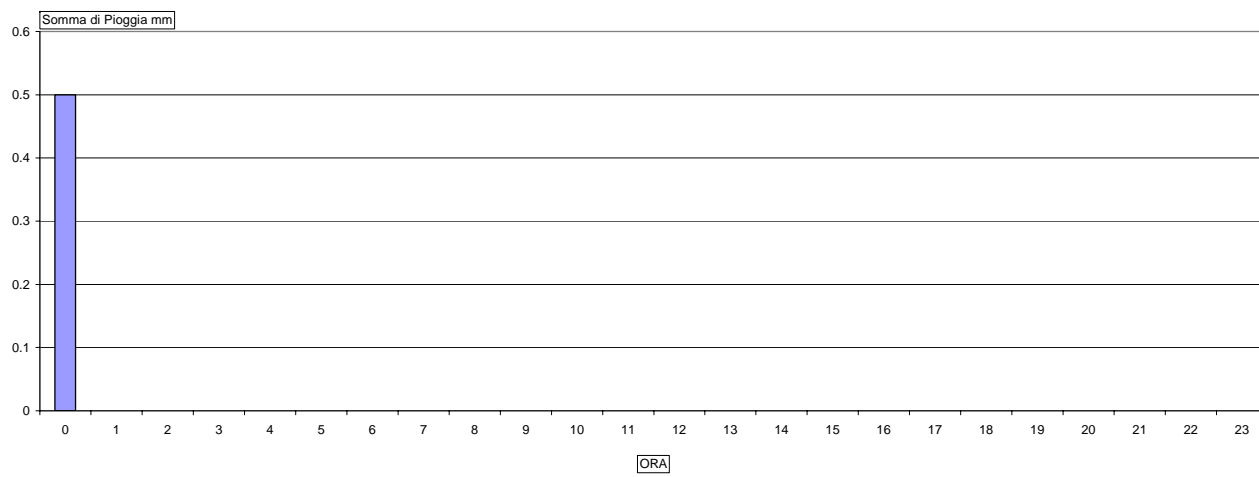
12/01/2011



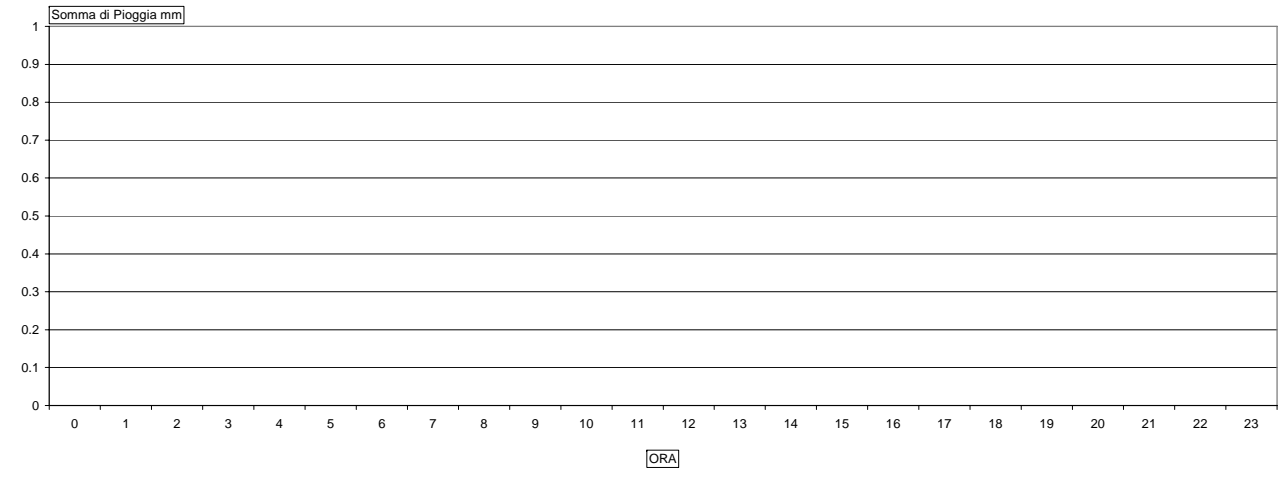
13/01/2011



12/01/2011

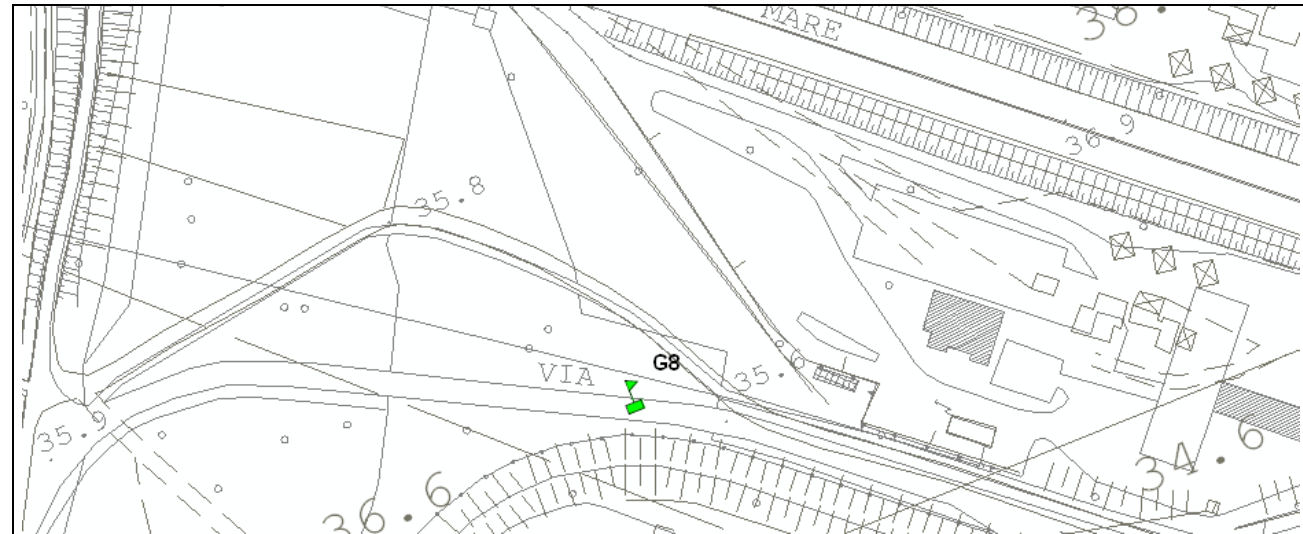


13/01/2011



Misura fonometrica G8

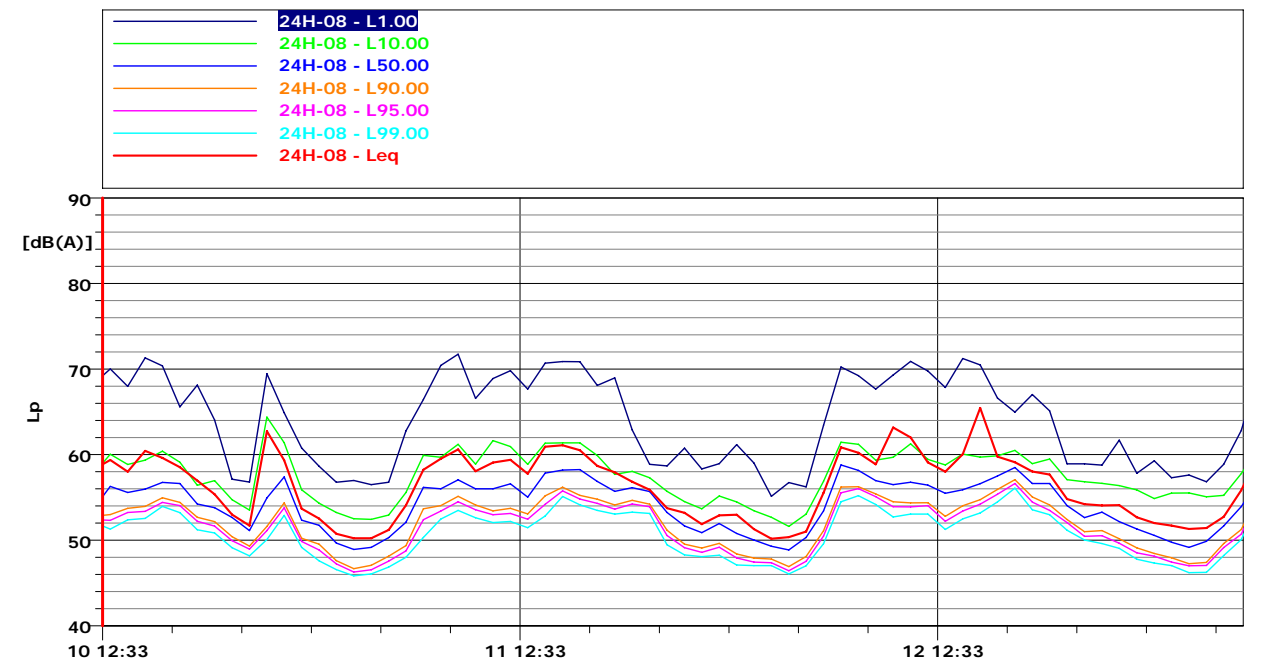
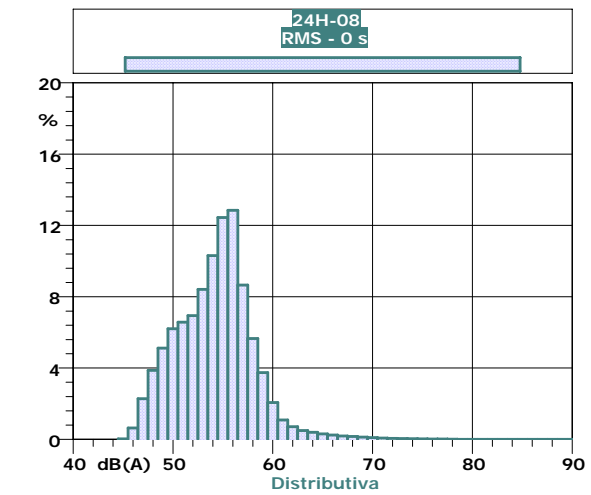
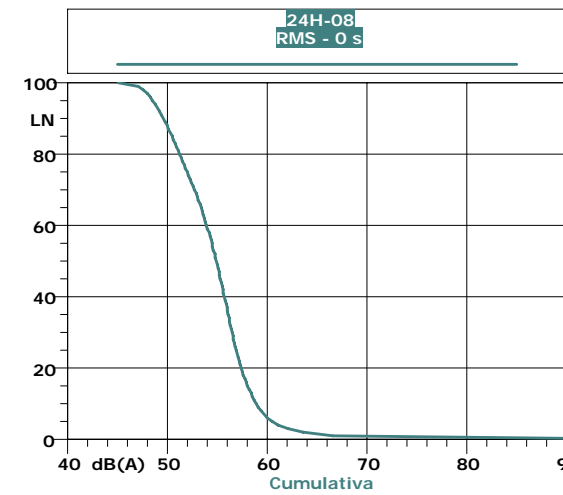
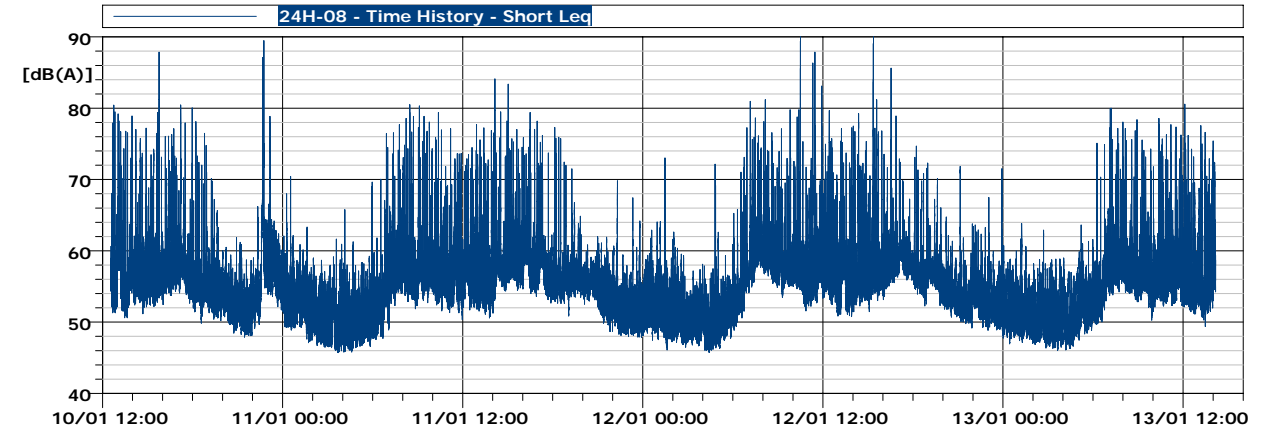
LOCALIZZAZIONE		DETTAGLI MISURA		
Comune	Sesto Fiorentino (FI)	Inizio	10/01/2011	12:33
Indirizzo	Via del Pantano	Fine	13/01/2011	14:09
Progressiva km	3+130	Fonometro	Larson Davis 824	S. N. A3737
Distanza infrastruttura	110 [m]	Tipologia tracciato	Rilevato	
Nome infrastruttura	Autostrada A11	Tipologia asfalto	Drenante	

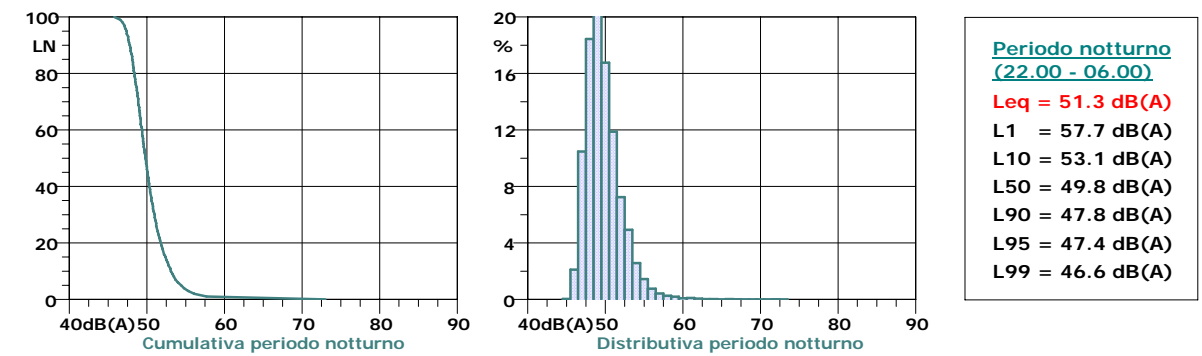
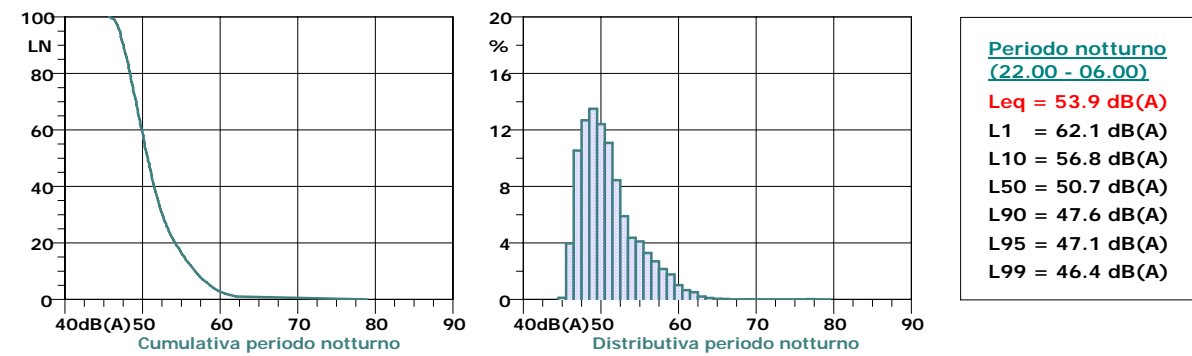
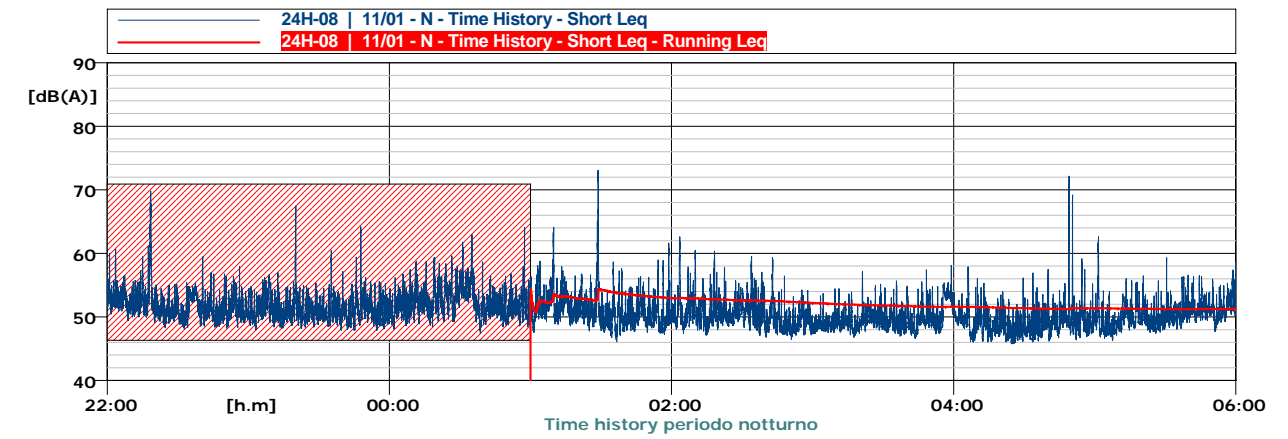
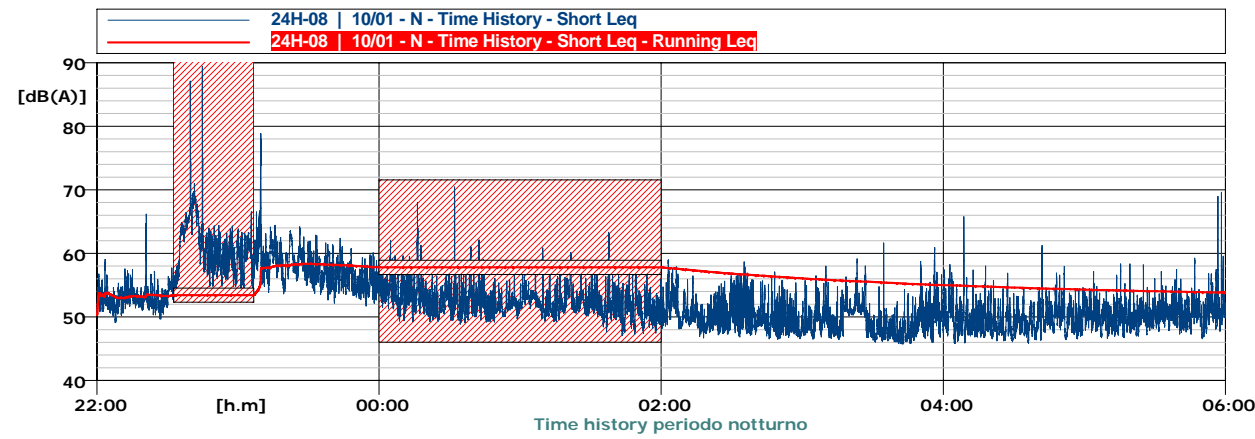
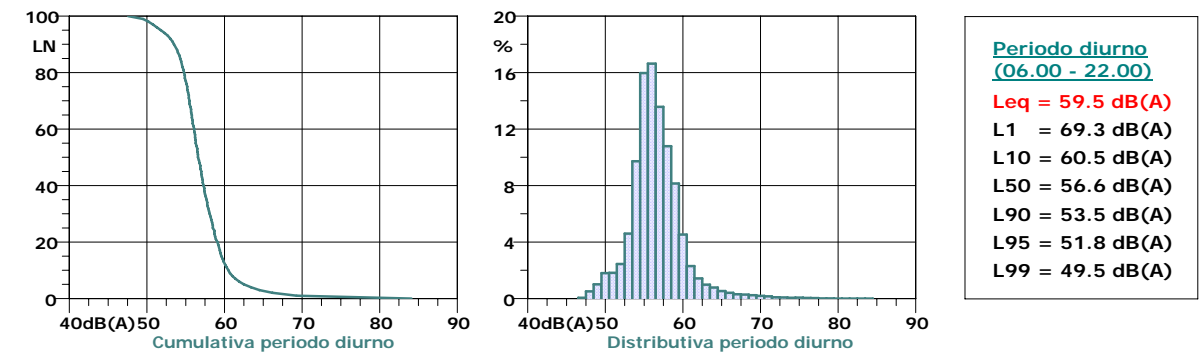
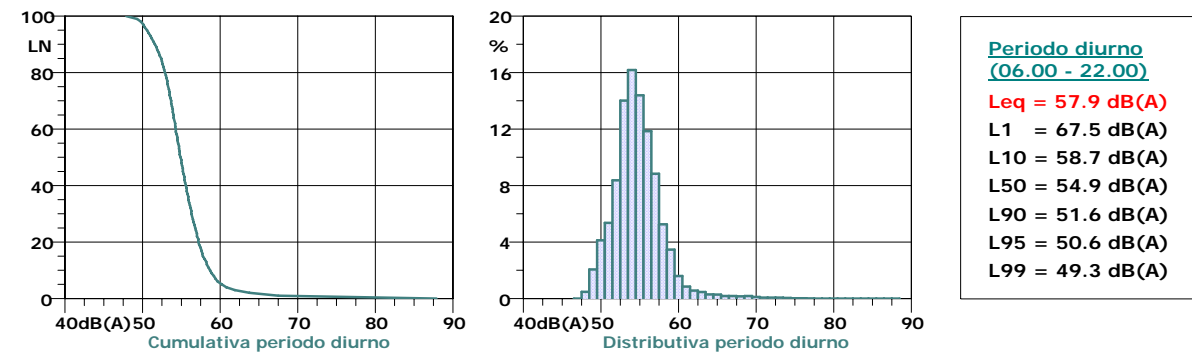
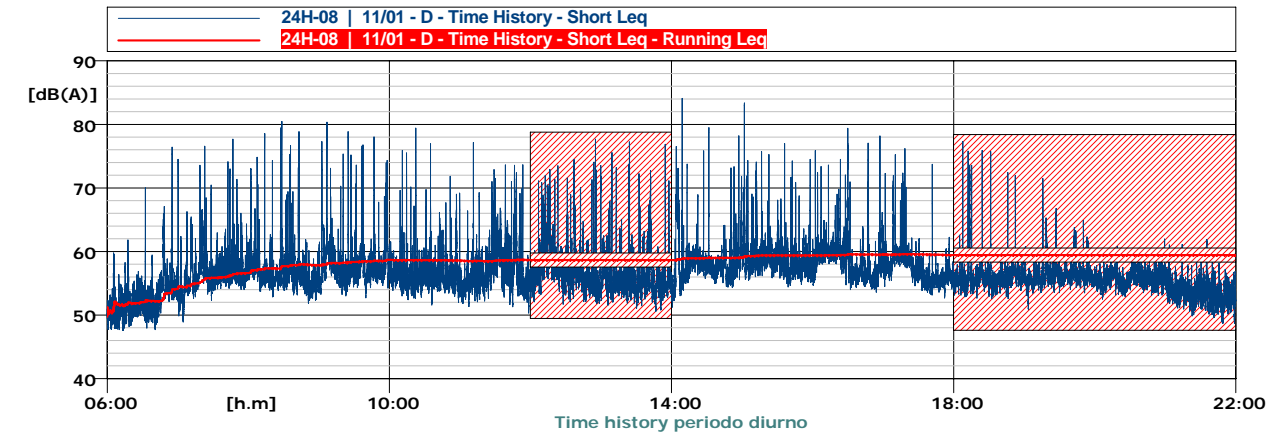
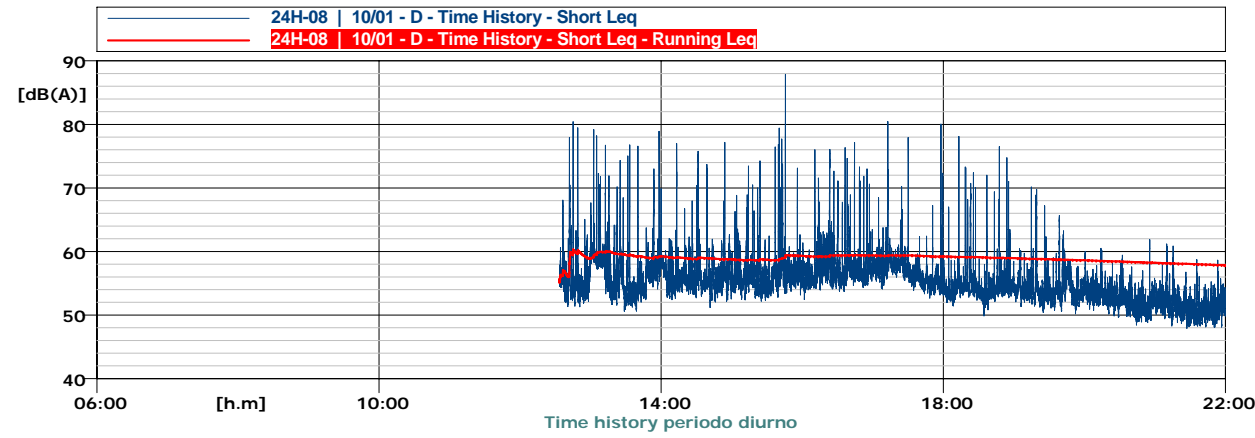


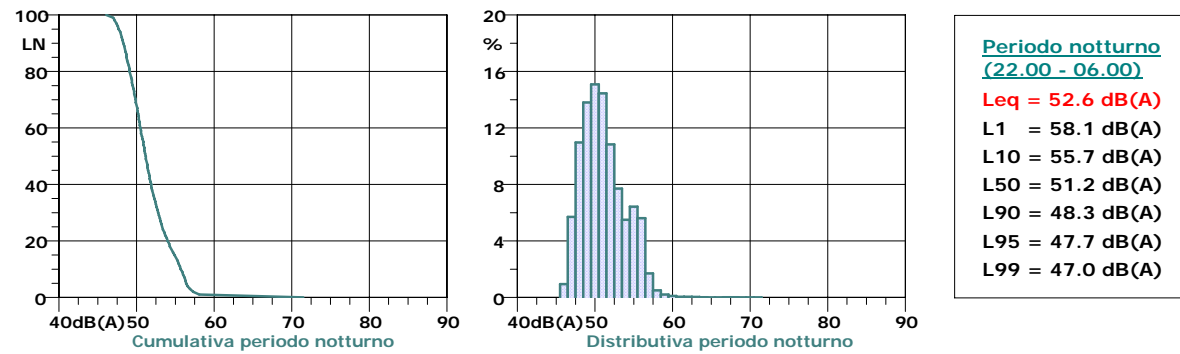
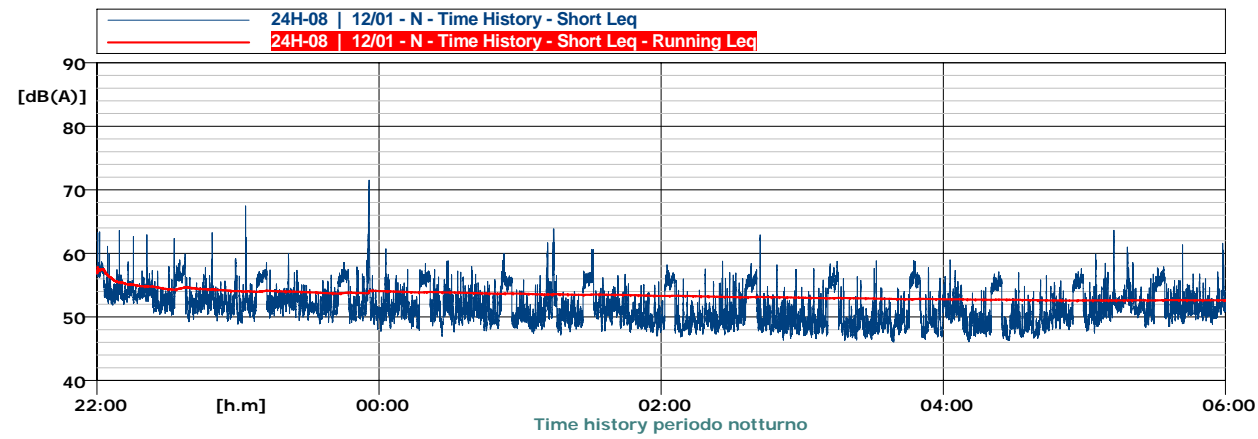
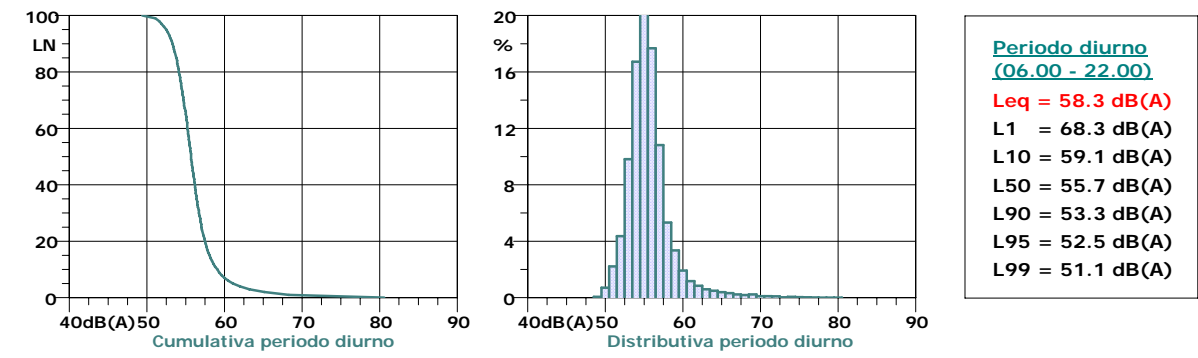
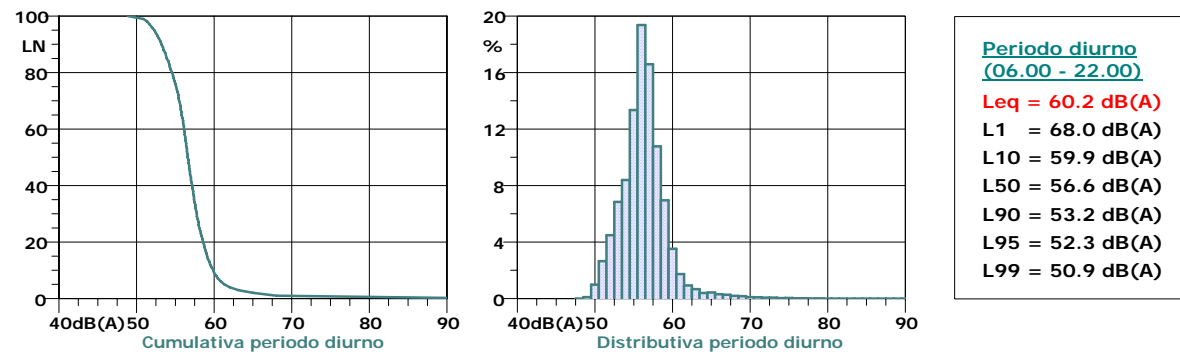
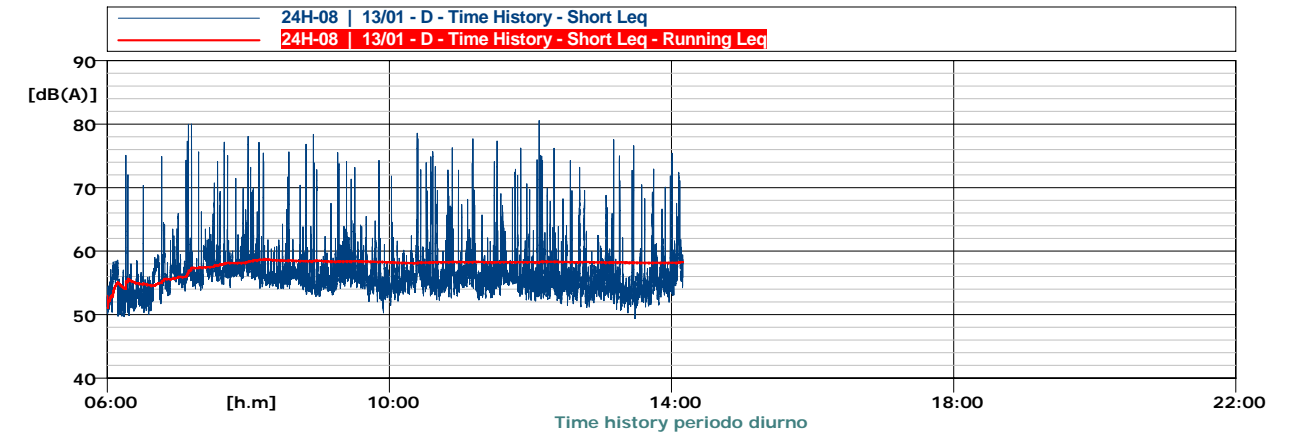
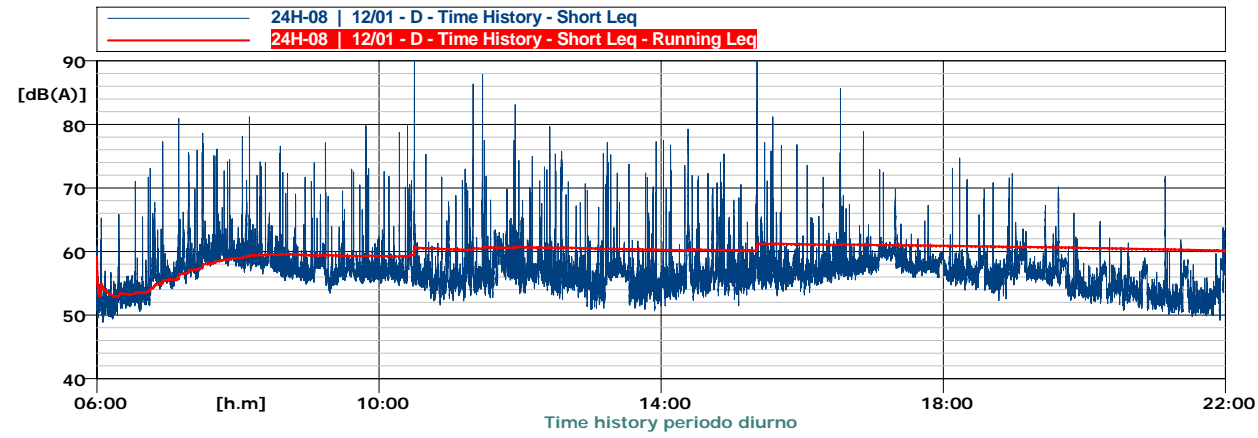
MISURA	PERIODO	LUN 10/01	MAR 11/01	MER 12/01	GIO	VEN	SAB	DOM	MEDIA	
Livelli sonori	Diurno 06 - 22		59.5*	60.2						[dB(A)]
	Notturmo 22 - 06	53.9*	51.3*	52.6						

NOTE GENERALI
 Mascheratura durante condizioni meteo incompatibili (pioggia)
 In prossimità di area di servizio Peretola. Misura per Cantiere.

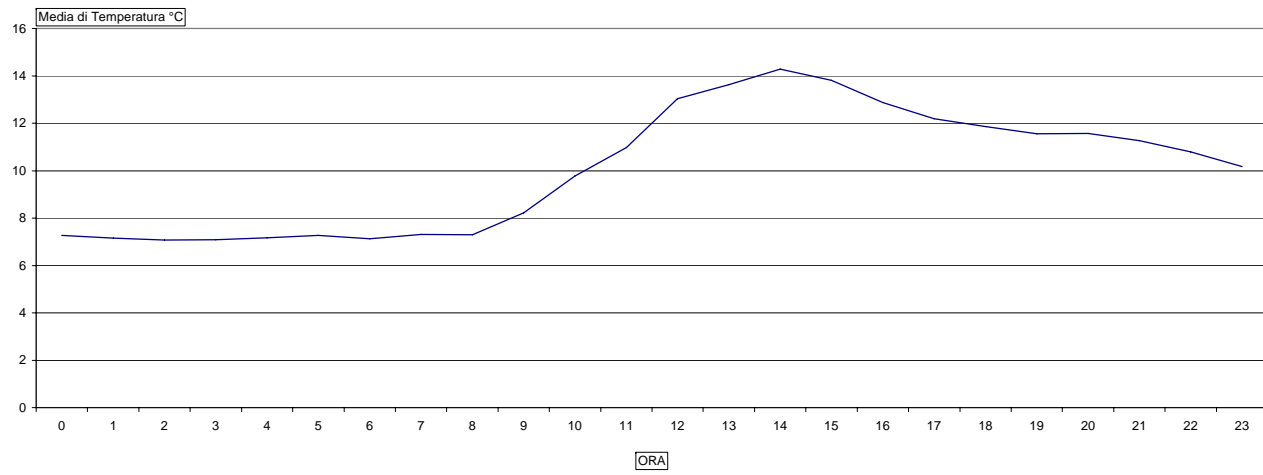
TECNICO COMPETENTE IN ACUSTICA	FIRMA
Bernardo Ziliotto	<i>Bernardo Ziliotto</i>



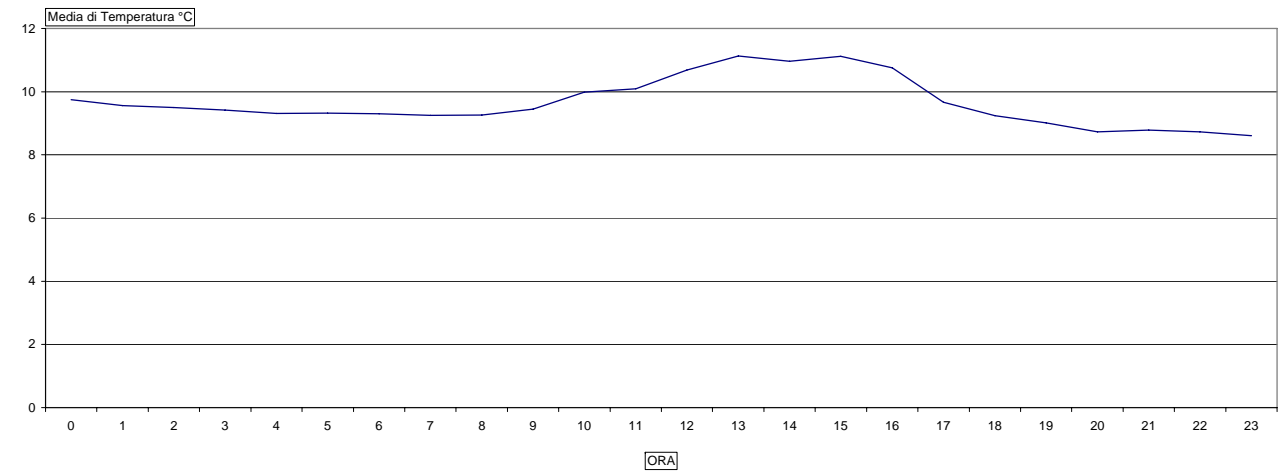




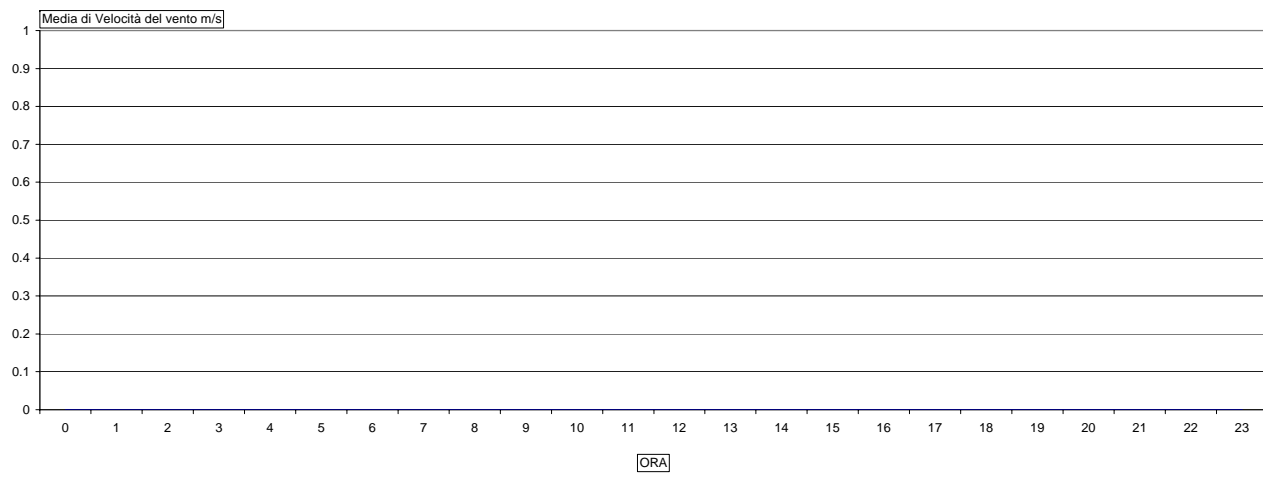
10/01/2011



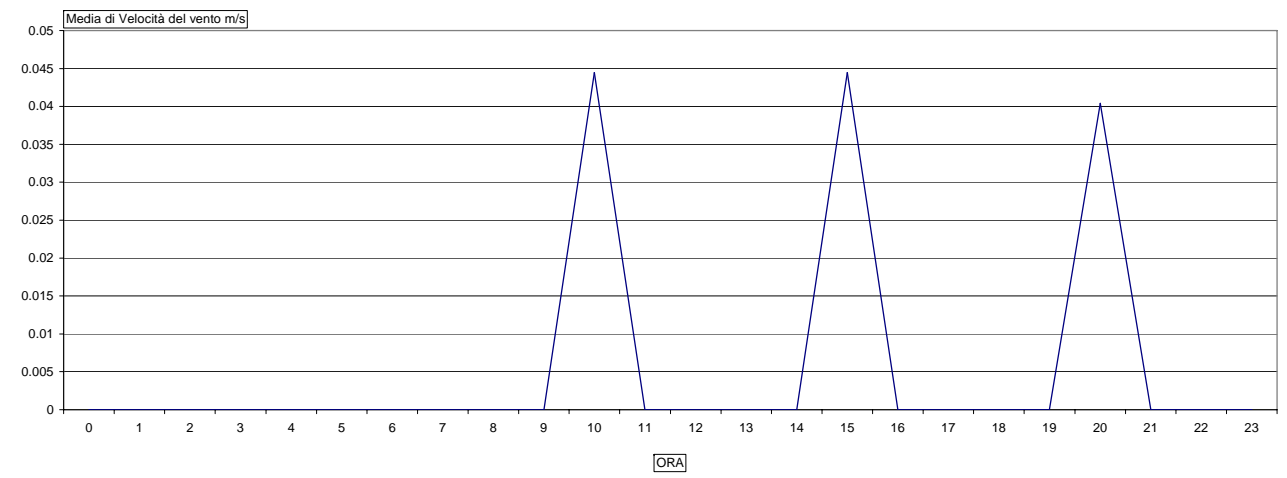
11/01/2011



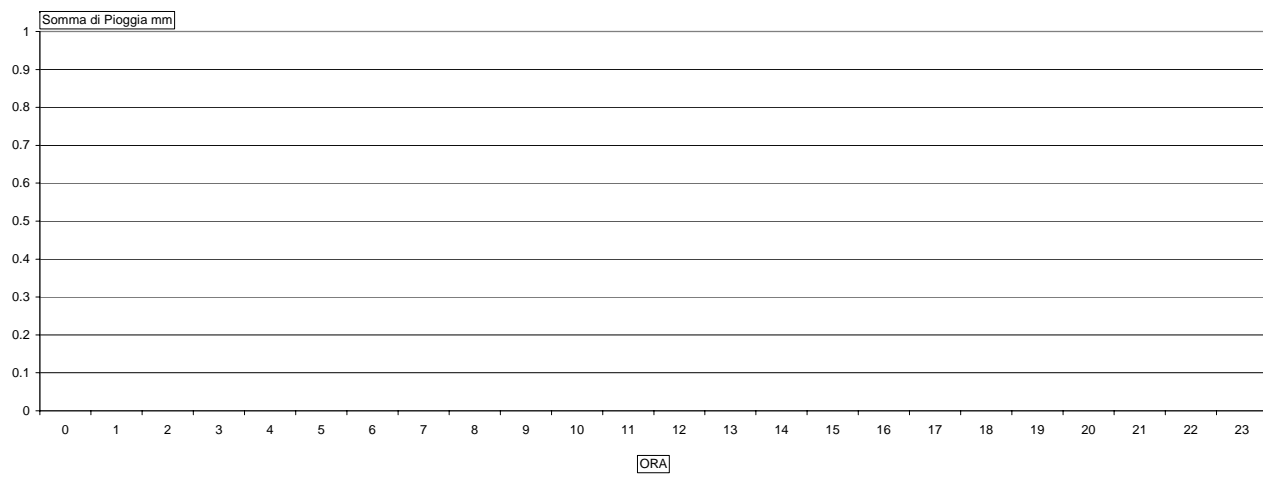
10/01/2011



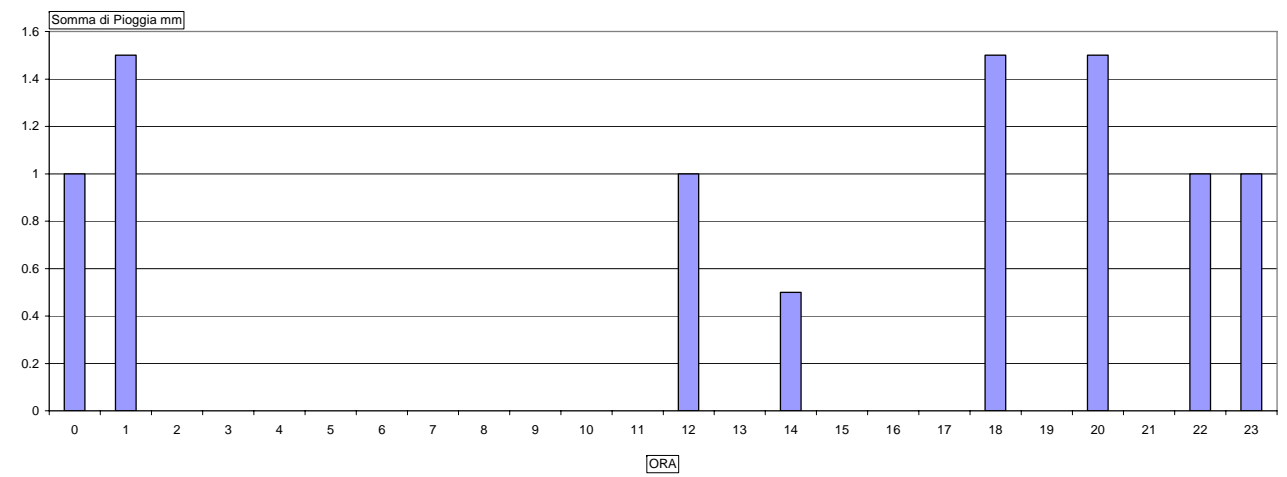
11/01/2011



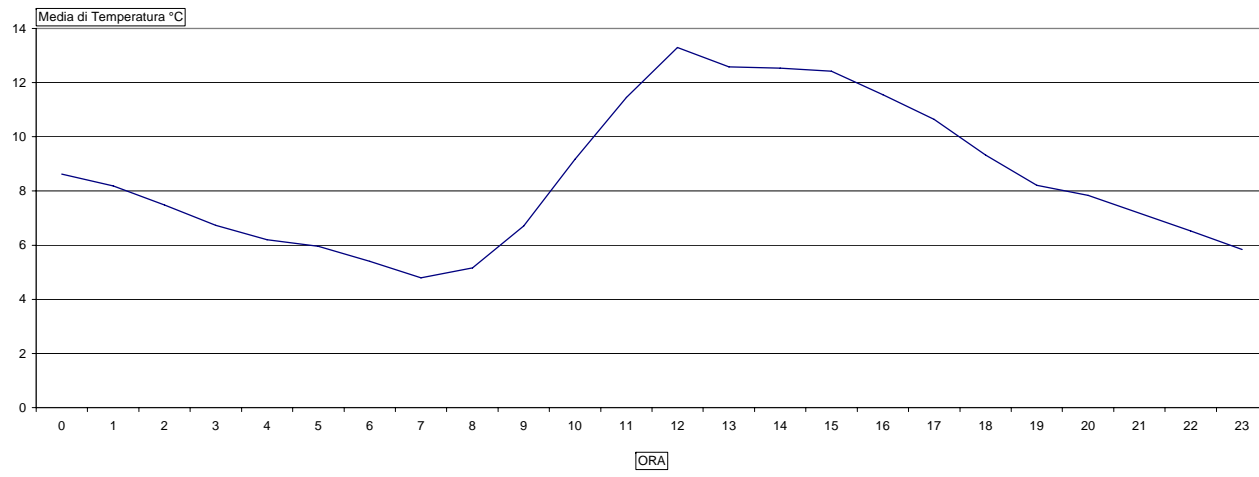
10/01/2011



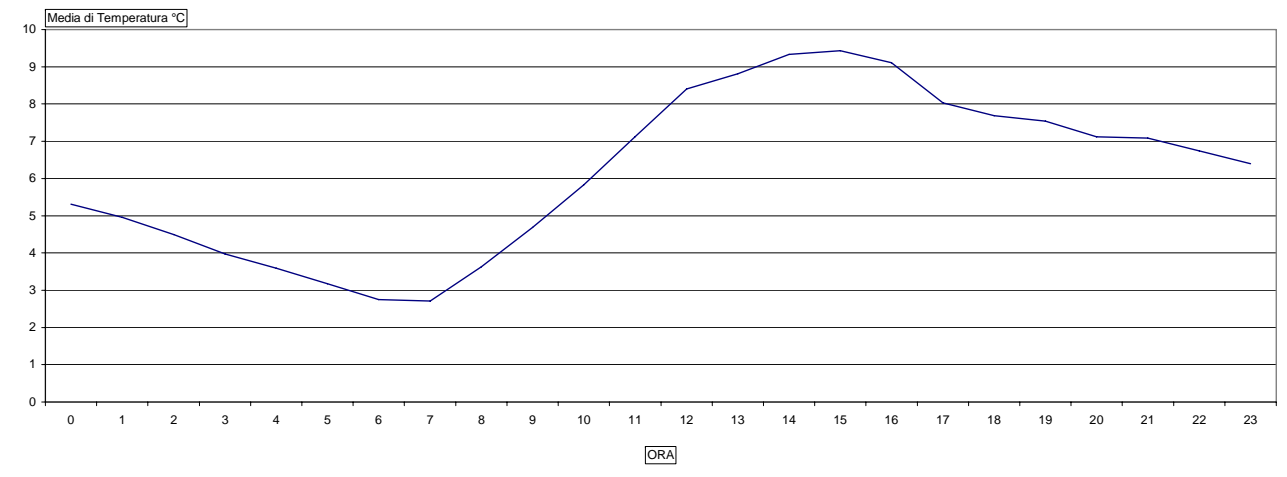
11/01/2011



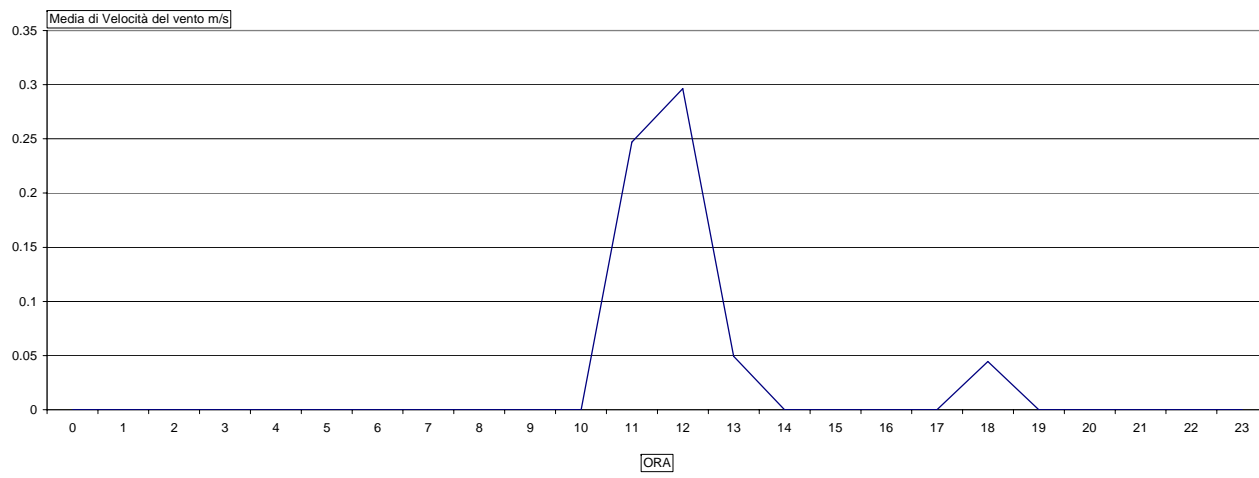
12/01/2011



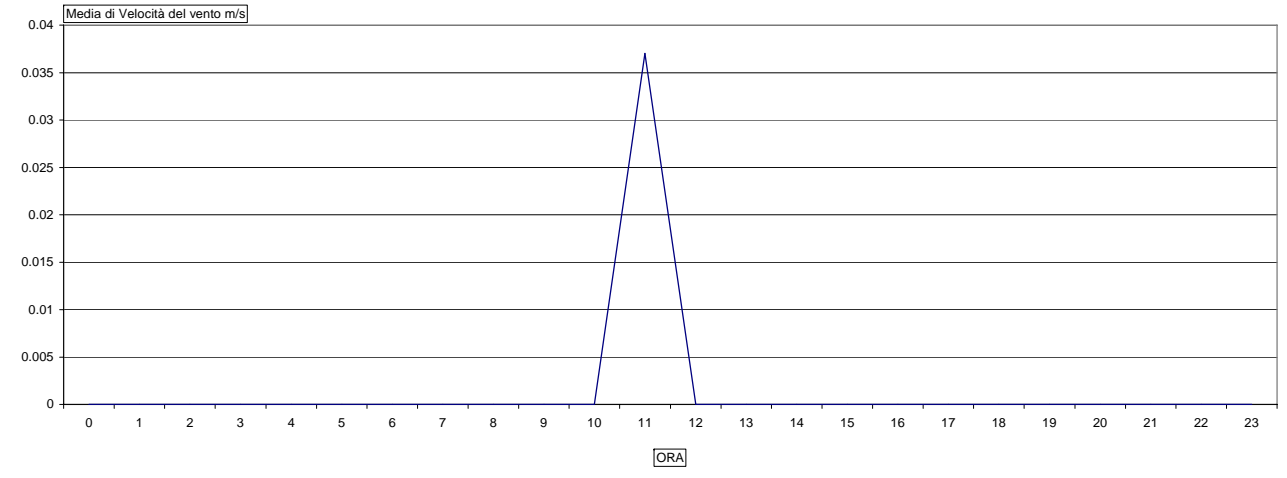
13/01/2011



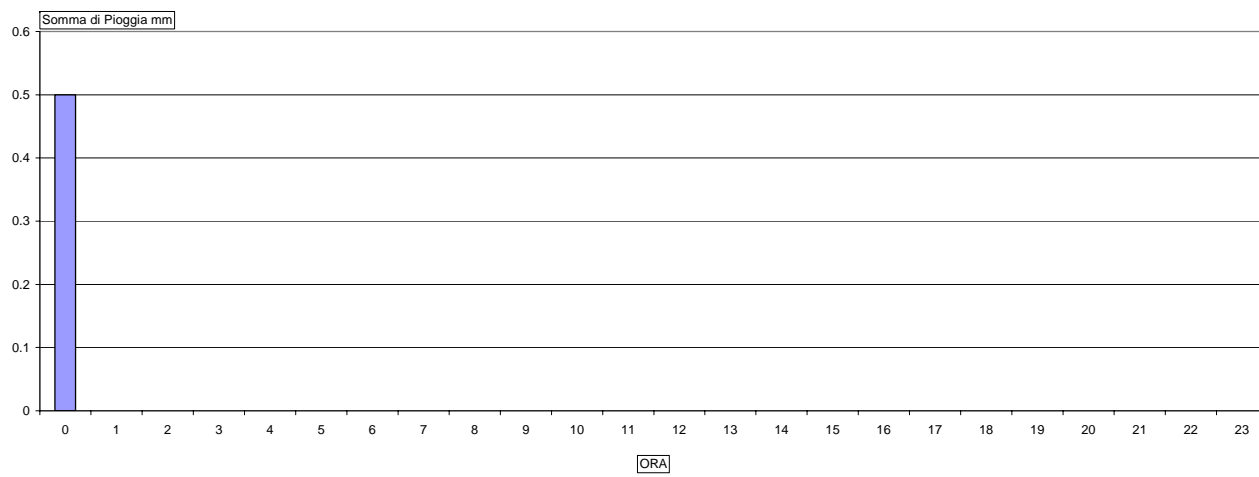
12/01/2011



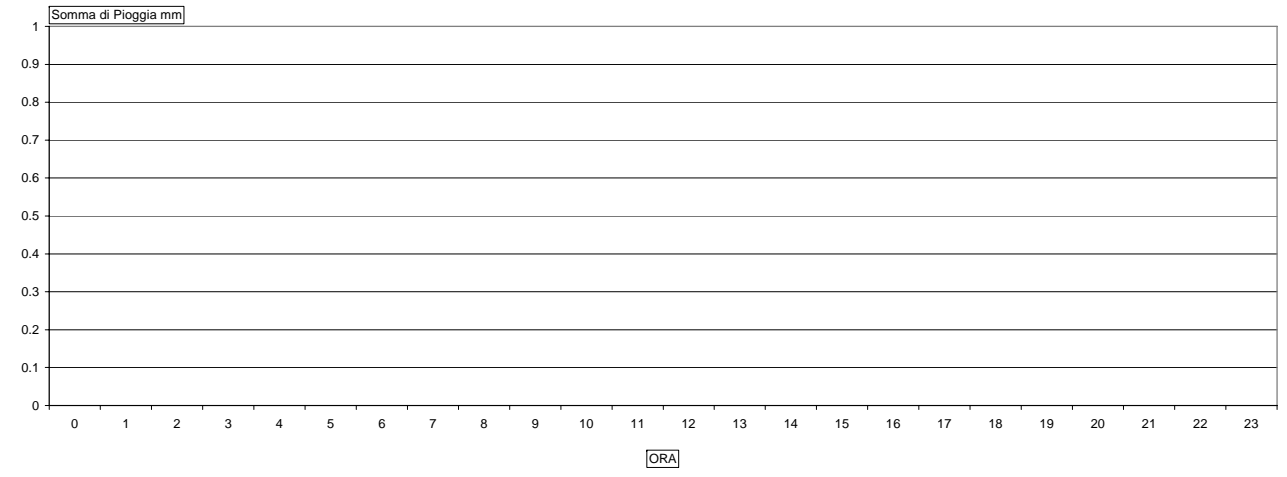
13/01/2011



12/01/2011



13/01/2011



Misura fonometrica R1

LOCALIZZAZIONE DELL'EDIFICIO		DATI CARATTERISTICI DELL'EDIFICIO ESAMINATO	
Comune	Campi Bisenzio (FI)	Tipologia	Residenziale
Indirizzo	Via del Pantano	Stato di conservazione	Medio
Progressiva km	07+350	Numero di piani	2
Distanza infrastruttura	30 [m]	Fascia	A



UBICAZIONE AMBIENTE INDAGATO



NOTE GENERALI

Codice ricettore: 07016

TECNICO COMPETENTE IN ACUSTICA

Bernardo Ziliotto

FIRMA

AMBIENTE INDAGATO		INFISSI	
Tipologia	Camera da letto	Tipologia infissi	legno
Piano	1	Tipologia vetro	doppio
		Stato degli infissi	buono

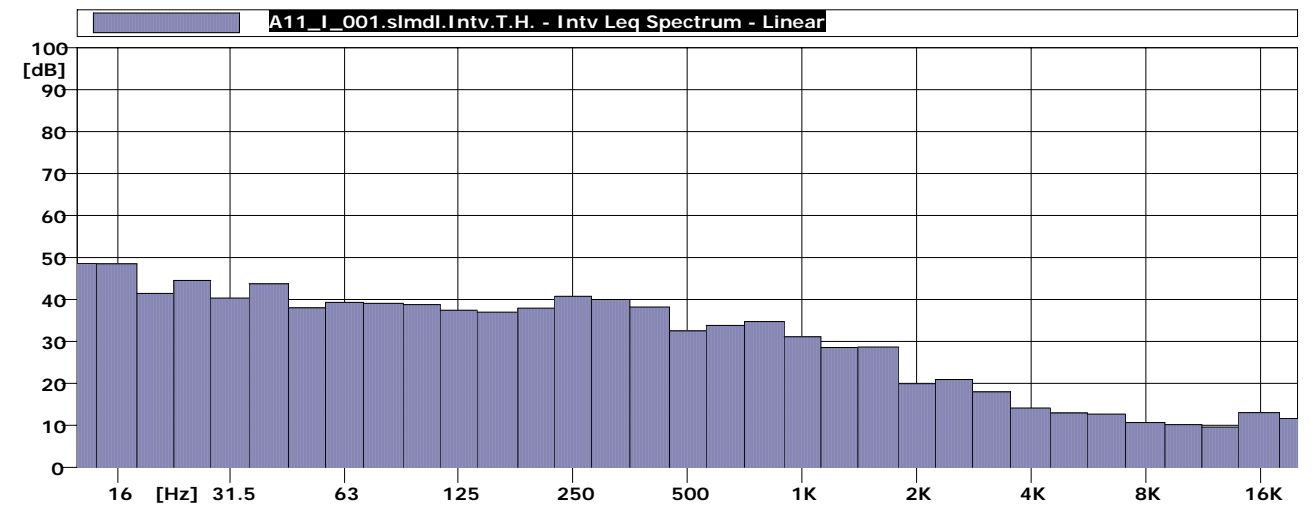
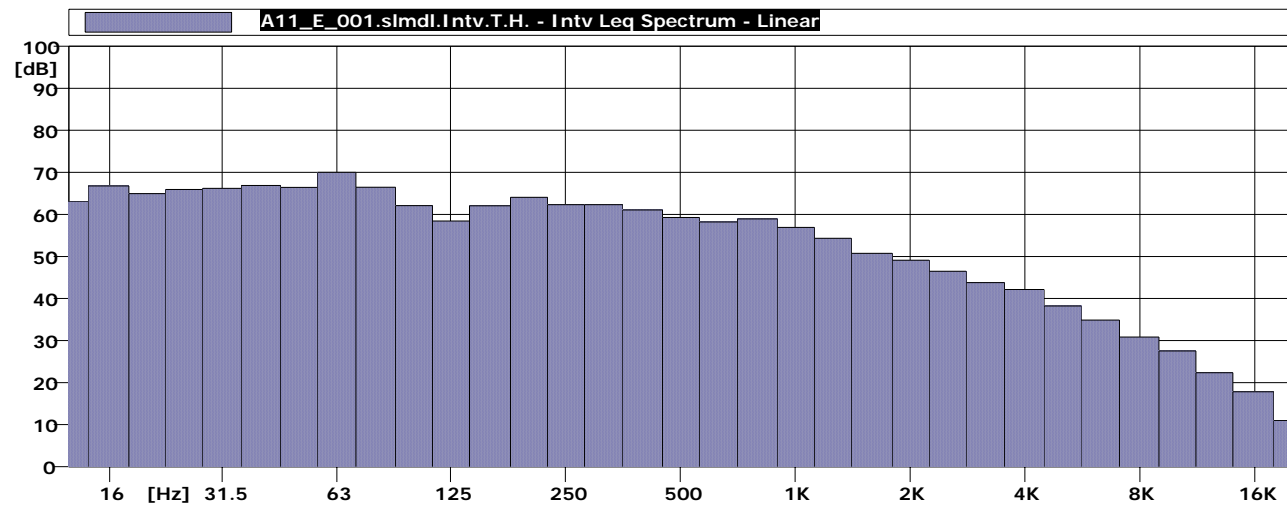
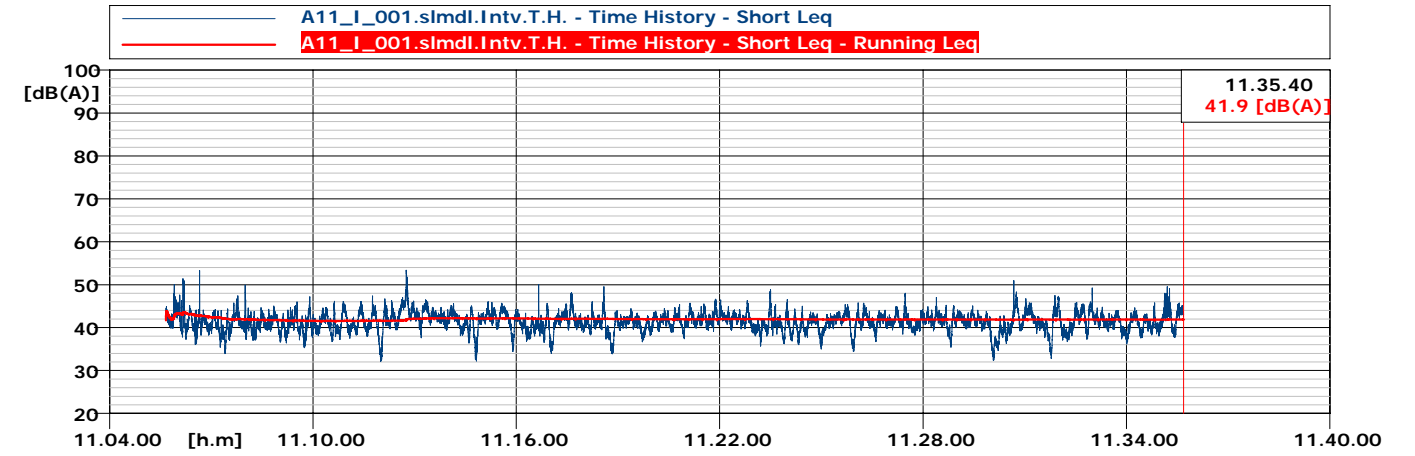
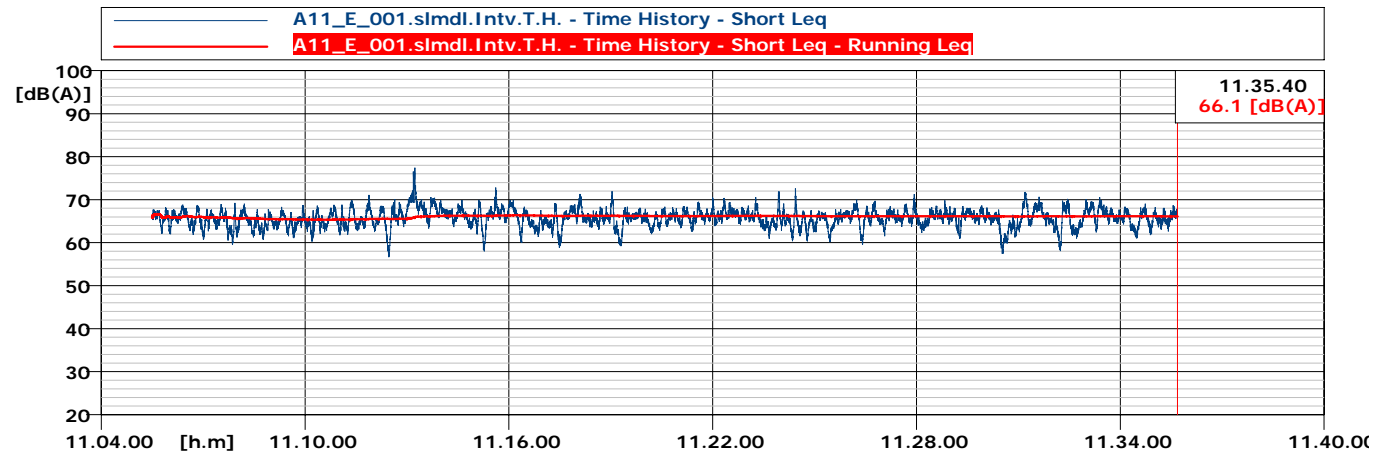
RILIEVI ESEGUITI

Data	Fonometro	S.N.	Quota da p.c.	Ambiente
13/12/2010	Larson Davis 824	A3737	4.0 [m]	esterno
	Larson Davis 824	A3735	1.5 [m]	interno



Livello	Codice misura	Ambiente	L _{eq}	[dB(A)]
ambientale	R1_E	esterno	66.1	[dB(A)]
ambientale	R1_I	interno	41.9	[dB(A)]

NOTE



Misura fonometrica R2

LOCALIZZAZIONE DELL'EDIFICIO		DATI CARATTERISTICI DELL'EDIFICIO ESAMINATO	
Comune	Agliaia (PT)	Tipologia	Residenziale
Indirizzo	Via Ferrucci	Stato di conservazione	Buono
Progressiva km	19+021	Numero di piani	2
Distanza infrastruttura	27 [m]	Fascia	A



UBICAZIONE AMBIENTE INDAGATO



NOTE GENERALI

Codice ricettore: 19001

TECNICO COMPETENTE IN ACUSTICA

Bernardo Ziliotto

FIRMA

AMBIENTE INDAGATO		INFISSI	
Tipologia	Camera da letto	Tipologia infissi	legno
Piano	1	Tipologia vetro	vetrocamera
		Stato degli infissi	ottimo

RILIEVI ESEGUITI

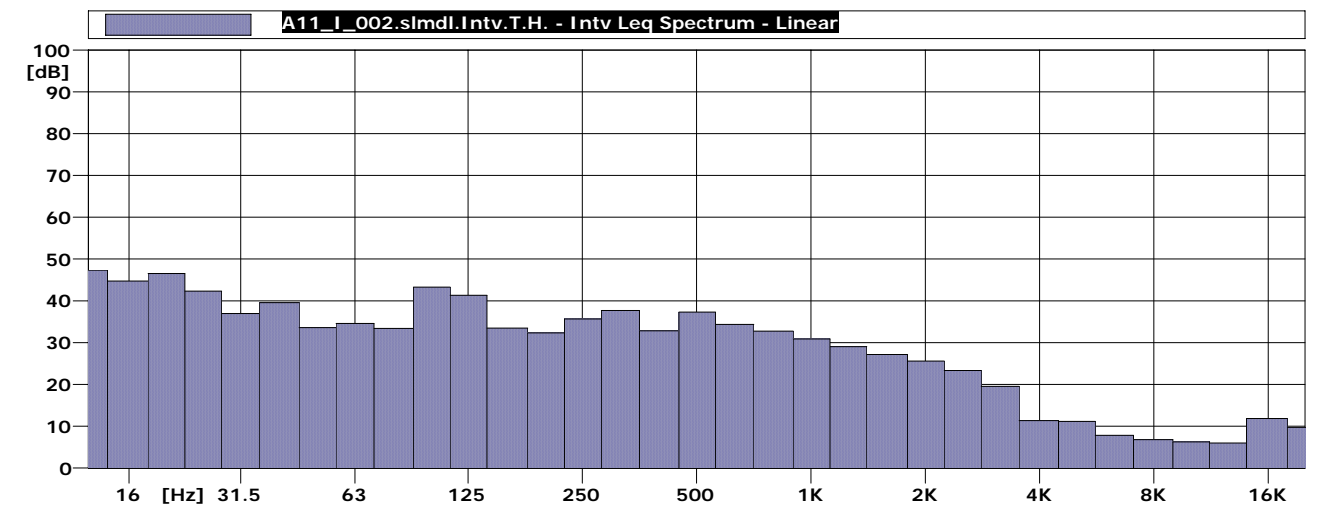
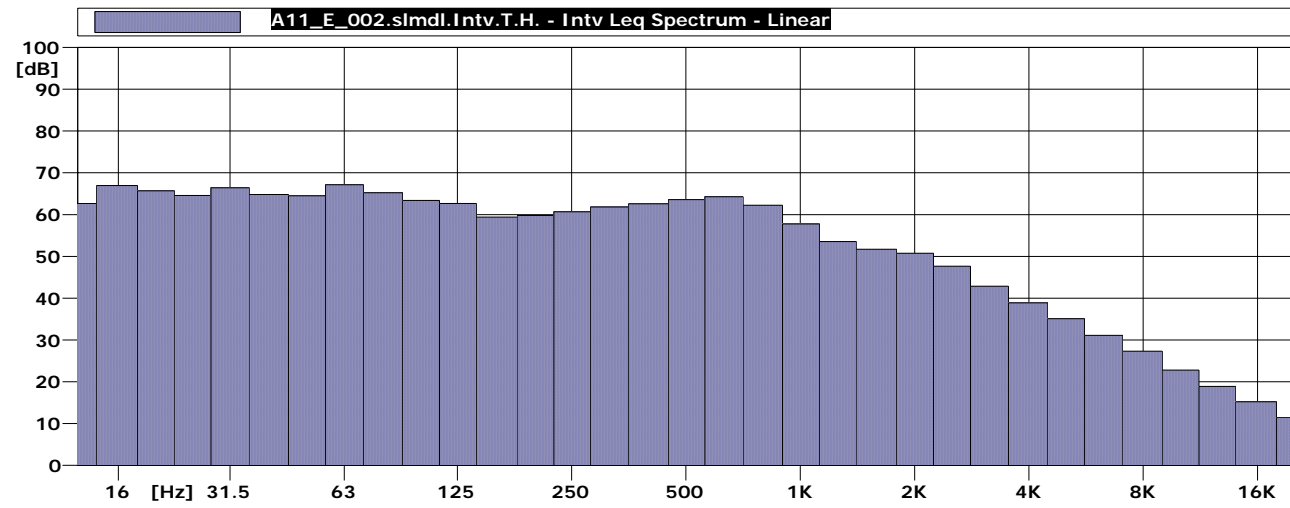
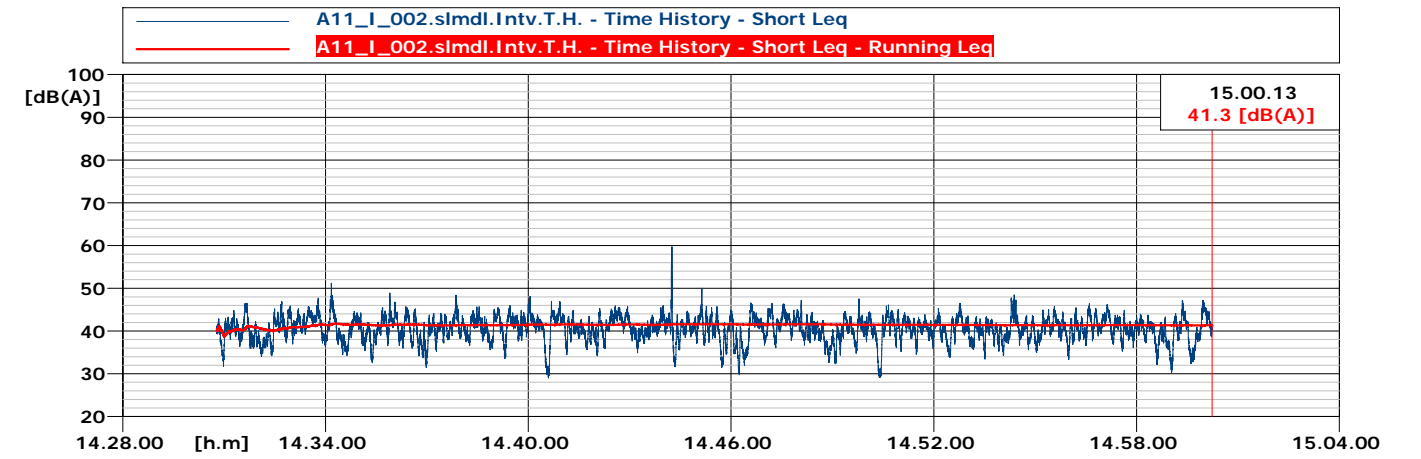
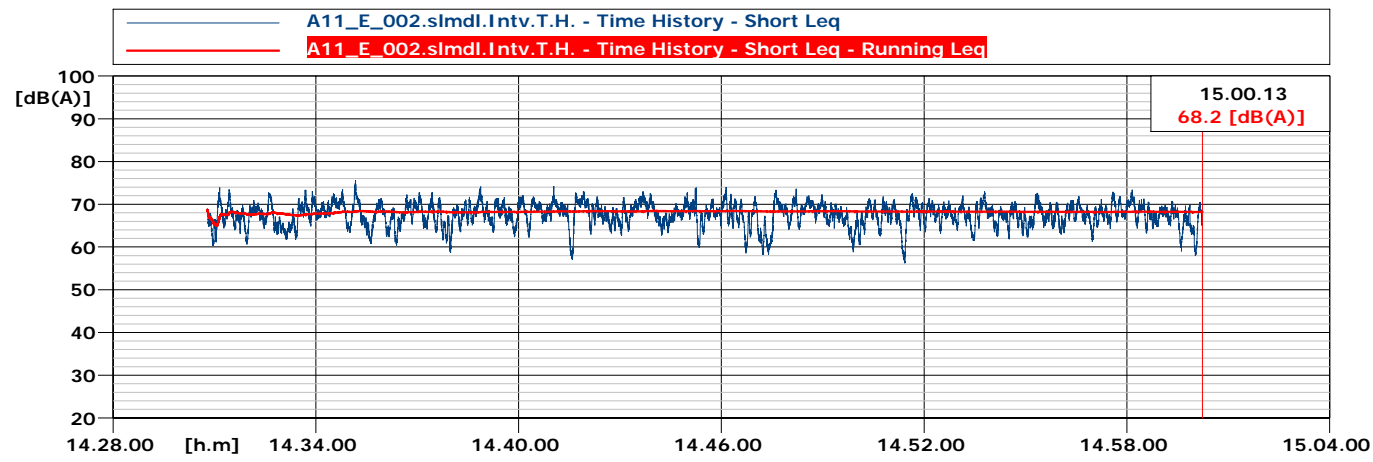
Data	Fonometro	S.N.	Quota da p.c.	Ambiente
13/12/2010	Larson Davis 824	A3737	4.0 [m]	esterno
	Larson Davis 824	A3735	1.5 [m]	interno



Livello	Codice misura	Ambiente	L _{eq}
ambientale	R2_E	esterno	68.2 [dB(A)]
ambientale	R2_I	interno	41.3 [dB(A)]

NOTE

Ambiente indagato molto piccolo. Diversi rumori provenienti dallo stesso appartamento.

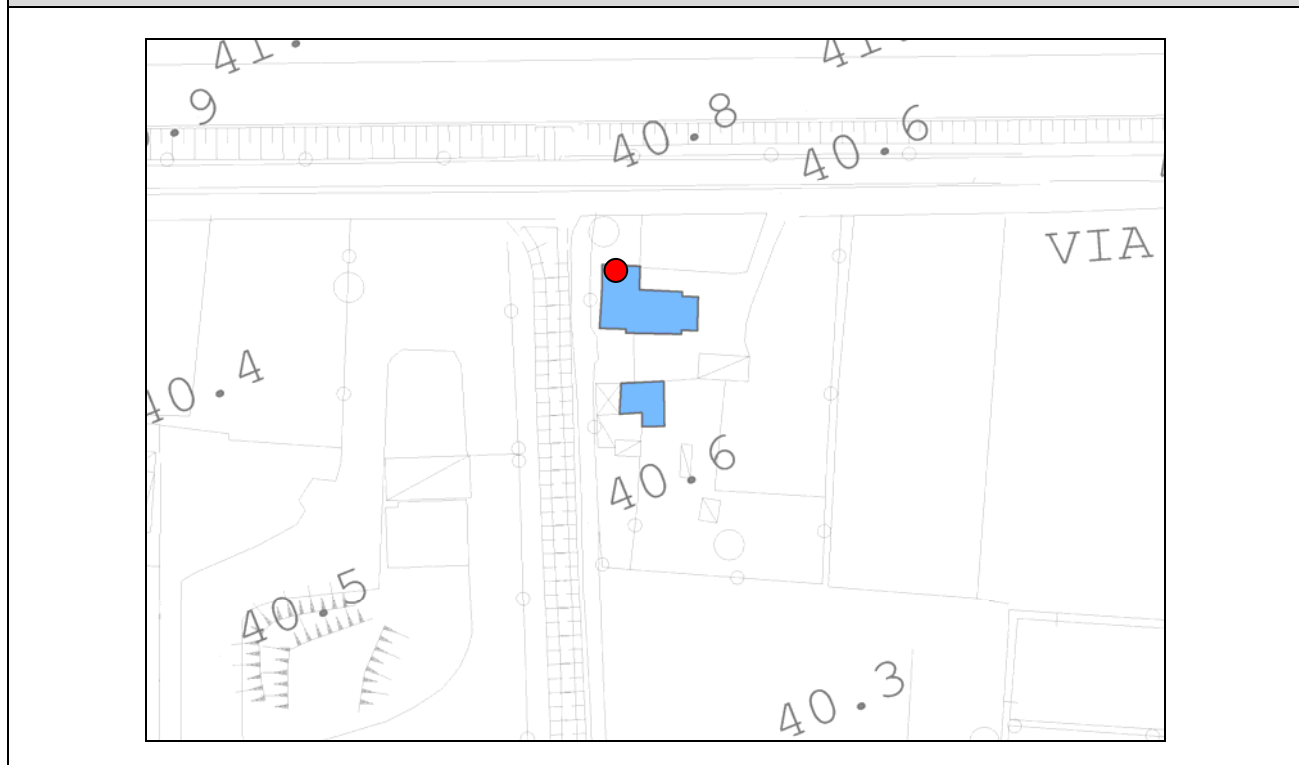


Misura fonometrica R3

LOCALIZZAZIONE DELL'EDIFICIO		DATI CARATTERISTICI DELL'EDIFICIO ESAMINATO	
Comune	Agliaia (PT)	Tipologia	Residenziale
Indirizzo	Via Agna	Stato di conservazione	Buono
Progressiva km	19+610	Numero di piani	2
Distanza infrastruttura	20 [m]	Fascia	A



UBICAZIONE AMBIENTE INDAGATO



NOTE GENERALI

Codice ricevitore: 19037

TECNICO COMPETENTE IN ACUSTICA

Bernardo Ziliotto

FIRMA

AMBIENTE INDAGATO		INFISSI	
Tipologia	Soggiorno	Tipologia infissi	alluminio
Piano	T	Tipologia vetro	semplice smerigliato
		Stato degli infissi	buono

RILIEVI ESEGUITI

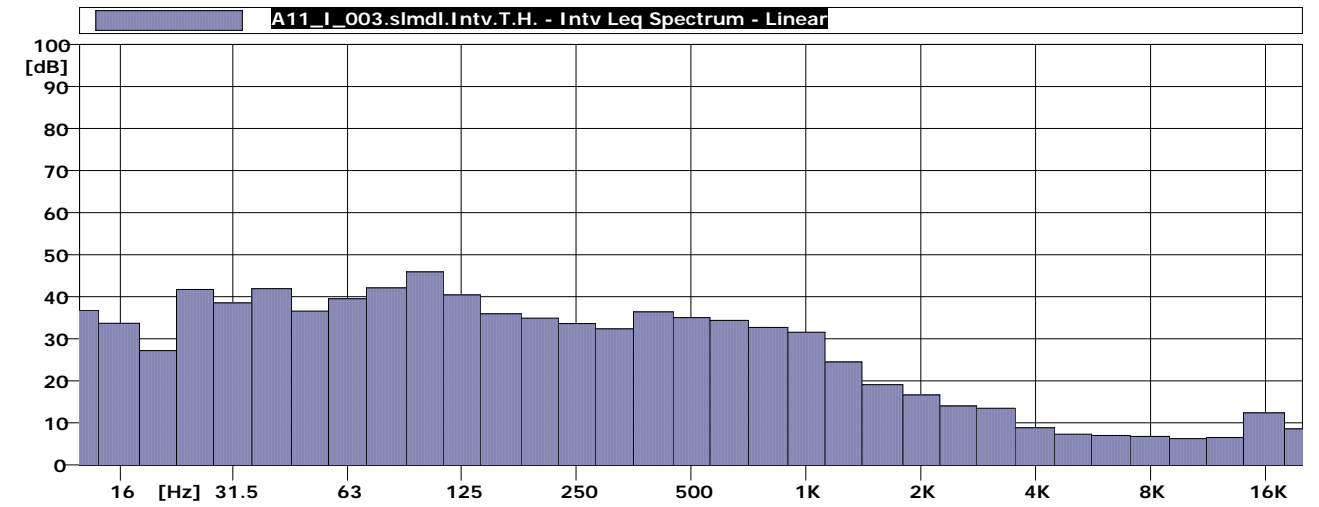
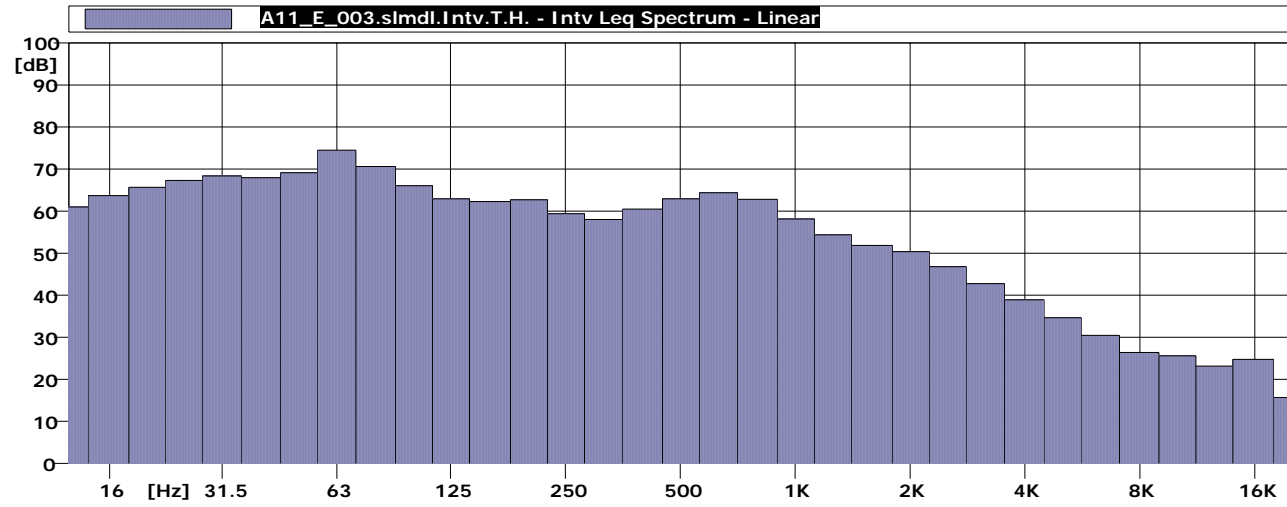
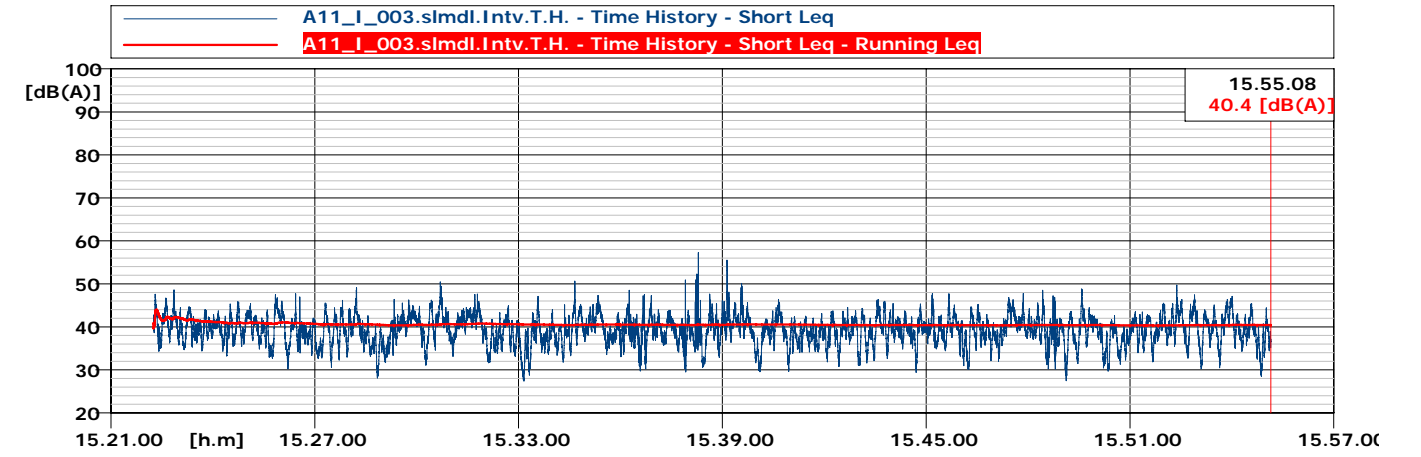
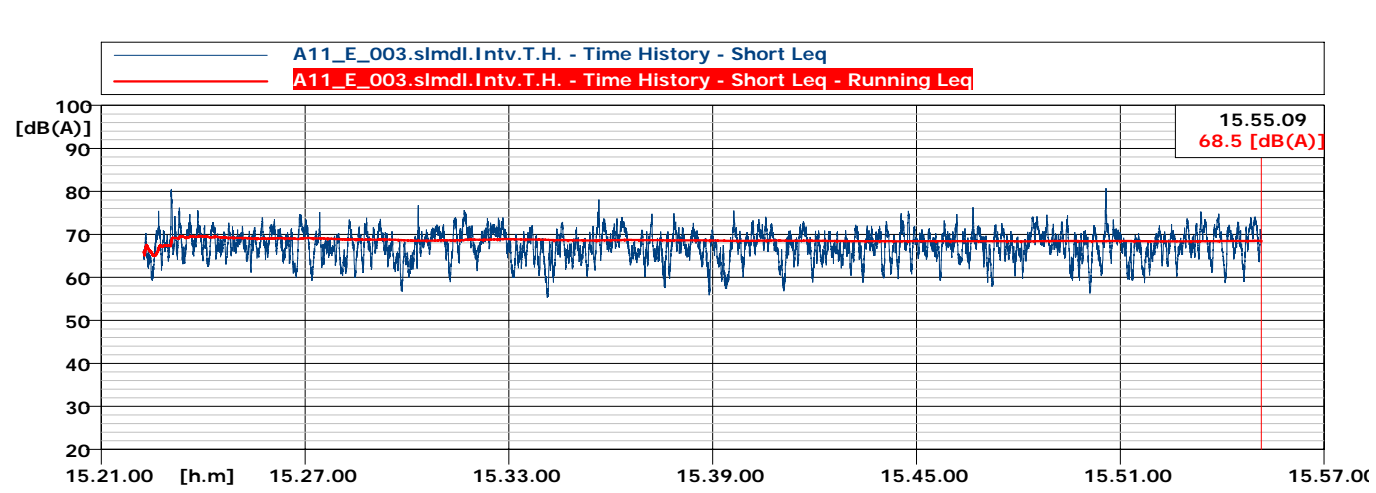
Data	Fonometro	S.N.	Quota da p.c.	Ambiente
13/12/2010	Larson Davis 824	A3737	1.5 [m]	esterno
	Larson Davis 824	A3735	1.5 [m]	interno



Livello	Codice misura	Ambiente	L _{eq}	[dB(A)]
ambientale	R3_E	esterno	68.5	[dB(A)]
ambientale	R3_I	interno	40.4	[dB(A)]

NOTE

Abbaio di un cane.

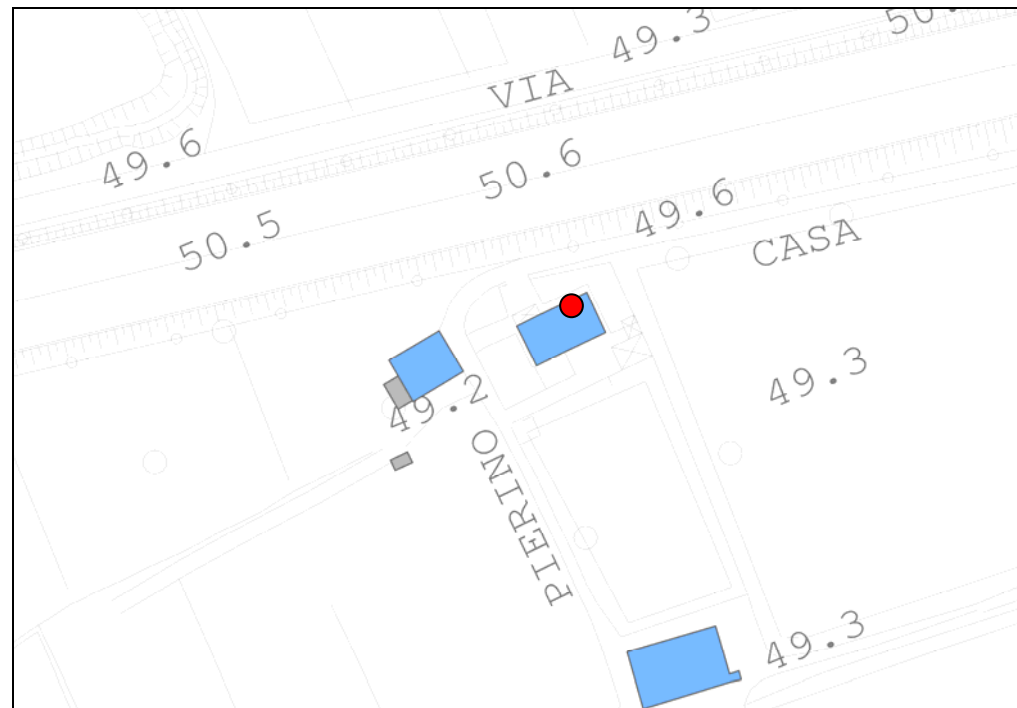


Misura fonometrica R4

LOCALIZZAZIONE DELL'EDIFICIO		DATI CARATTERISTICI DELL'EDIFICIO ESAMINATO	
Comune	Pistoia	Tipologia	Residenziale
Indirizzo	Via Casa del Vescovo	Stato di conservazione	Buono
Progressiva km	25+600	Numero di piani	2
Distanza infrastruttura	20 [m]	Fascia	A



UBICAZIONE AMBIENTE INDAGATO



NOTE GENERALI

Codice ricevitore: 25064

TECNICO COMPETENTE IN ACUSTICA

Bernardo Ziliotto

FIRMA

AMBIENTE INDAGATO		INFISSI	
Tipologia	Camera da letto	Tipologia infissi	legno
Piano	1	Tipologia vetro	vetrocamera
		Stato degli infissi	buono

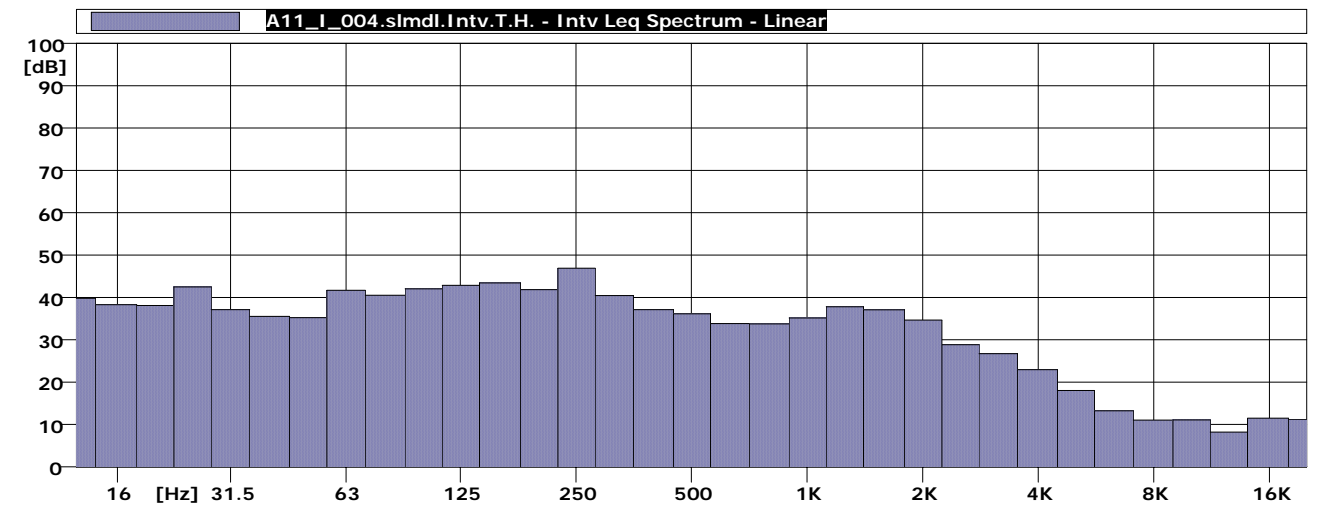
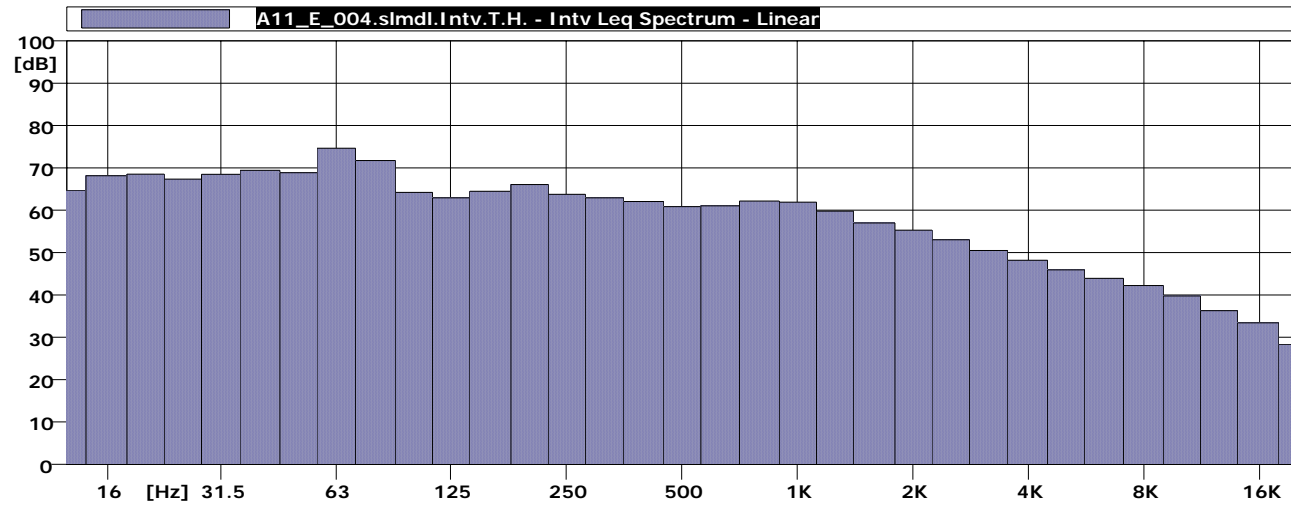
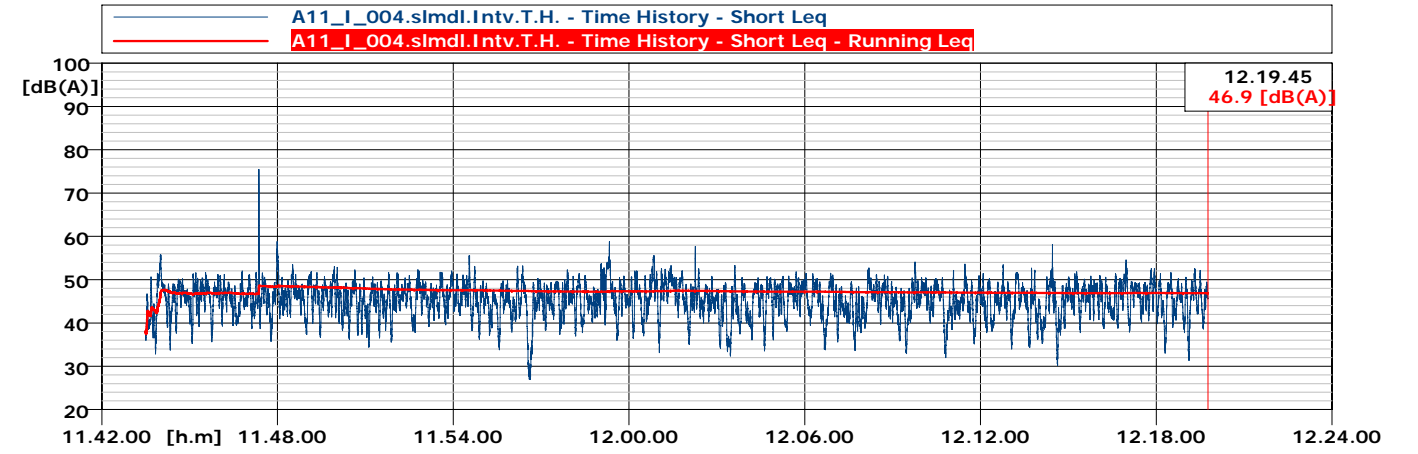
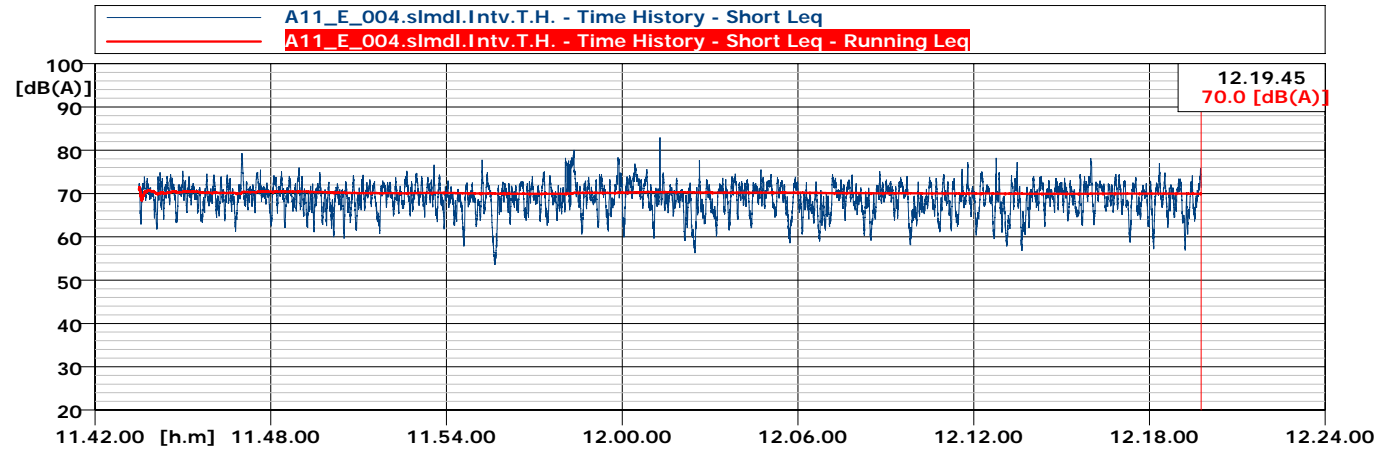
RILIEVI ESEGUITI

Data	Fonometro	S.N.	Quota da p.c.	Ambiente
21/12/2010	Larson Davis 824	A3735	4.0 [m]	esterno
	Larson Davis 824	A0805	1.5 [m]	interno



Livello	Codice misura	Ambiente	L _{eq}	[dB(A)]
ambientale	R4_E	esterno	70.0	[dB(A)]
ambientale	R4_I	interno	46.9	[dB(A)]

NOTE



R3 - MISURE DI 7 GIORNI CON POSTAZIONE FISSA										
Punto R3	Ricettore / Indirizzo Via Bevaria – Agliana (Pistoia)									
Descrizione del ricettore										
Zona rurale costituita da alcuni edifici isolati ubicati parallelamente al tracciato autostradale dell'A11 e da alcuni edifici a carattere industriale e vivaistico.										
Caratterizzazione del ricettore - Zonizzazione acustica e limiti di immissione diurni / notturni										
<input type="checkbox"/> ex L.447/95 e DPCM 14/11/97 <input type="checkbox"/> ex art. 2 DPCM 01/03/91 <input type="checkbox"/> ipotizzata / non deliberata <input type="checkbox"/> Aree protette 50 / 40 dB(A) <input type="checkbox"/> Aree residenziali 55 / 45 dB(A) <input type="checkbox"/> Aree miste 60 / 50 dB(A) <input type="checkbox"/> Aree di intensa attività umana 65 / 55 dB(A) <input type="checkbox"/> Aree prevalentemente industriali. 70 / 60 dB(A) <input type="checkbox"/> Aree esclusivamente industriali... 70 / 70 dB(A)			<input type="checkbox"/> ex art. 6 DPCM 01/03/91 <input type="checkbox"/> Classe A 65 / 55 dB(A) <input type="checkbox"/> Classe B 60 / 50 dB(A) <input type="checkbox"/> Esclus. industriale 70 / 70 dB(A) <input type="checkbox"/> Territorio nazionale 70 / 60 dB(A)							
			<input type="checkbox"/> ex art. 11 DPR 142/04 <input type="checkbox"/> Ricettore sensibile 50 / 40 dB(A) <input type="checkbox"/> Fascia A 70 / 60 dB(A) <input type="checkbox"/> Fascia B 65 / 55 dB(A)							
Caratterizzazione delle sorgenti di rumore										
<i>Tipologia:</i> <input checked="" type="checkbox"/> traffico stradale: A11,viabilità locale <input type="checkbox"/> traffico ferroviario: <input type="checkbox"/> cantiere: <input checked="" type="checkbox"/> altro: avifauna,cani										
<i>Descrizione:</i> La sorgente di rumore principale è costituita dal flusso veicolare continuo lungo l'A11 a cui si associa lo scarso transito veicolare lungo la viabilità locale. Possibili inoltre componenti di origine naturale (cani,avifauna).										
Strumentazione adottata										
Catena di misura in Classe I costituita da: Fonometro integratore Larson-Davis 831 S.N.1557 Preamplificatore Larson-Davis PRM831 S.N. 012179, Microfono PCB 377B02 S.N. 107725 calibratore Larson-Davis CAL200 S.N. 6260, Software di analisi: NWWin ver. 2.0.5 Postazione microfonica a 25 m dal tracciato autostradale, microfono a 4 m di altezza dal p.c.					Impostazioni eccedenze: Livello: dBA Durata min.: s					
Sintesi misure										
	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT		
LAeq 6-22h (giorno) [dBA]	71.4	71.5	71.5	71.5	71.2	70.1	70.9	71.2		
Laeq 22-6h (notte) [dBA]	65.4	65.8	65.5	65.9	66.2	66.8	66.2	66.0		
Tecnico competente										
Data	Nome e cognome				Firma e timbro					
30/11/09	Dott. F. Siliquini									

Punto	Ricettore / Indirizzo							
R3	Via Bevaria – Agliana (Pistoia)							
RISULTATI MISURE - Periodo DIURNO (6÷22h)								
Parametri	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT
Data	26/10	27/10	28/10	29/10	30/10	31/10	01/11	26/10-01/11
Note	-	-	-	-	-	-	-	-
LAeq,TM [dBA]	71.4	71.5	71.5	71.6	71.2	70.1	70.9	71.2
L1 [dBA]	73.5	73.9	73.6	73.8	73.4	72.6	73.0	73.6
L5 [dBA]	73.0	73.1	73.1	73.1	72.8	71.8	72.5	72.9
L10 [dBA]	72.7	72.8	72.8	72.8	72.5	71.5	72.1	72.6
L50 [dBA]	71.4	71.6	71.5	71.7	71.3	70.3	70.9	71.2
L90 [dBA]	69.1	69.0	69.2	69.3	68.9	66.6	69.2	68.8
L95 [dBA]	67.8	68.0	68.3	68.5	68.2	64.5	68.6	67.7
L99 [dBA]	66.1	66.4	66.7	66.8	66.4	62.2	67.5	64.8
Limax [dBA]	-	-	-	-	-	-	-	-
Lfmax [dBA]	87.5	92.0	94.9	95.5	88.1	92.2	94.2	95.5
Lsmax [dBA]	-	-	-	-	-	-	-	-
Ki [dBA]	0	0	0	0	0	0	0	0
KT [dBA]	0	0	0	0	0	0	0	0
KB [dBA]	0	0	0	0	0	0	0	0
LAeq,TRC [dBA]	71.4	71.5	71.5	71.5	71.2	70.1	70.9	71.2
Note:								
(1) Mascheramento evento anomalo								
Il periodo di osservazione è stato caratterizzato da condizioni meteorologiche conformi ai registri di validità delle misure di rumore.								
La misura è iniziata alle ore 13.00 del giorno 26/10/09								
I dati traffico saranno forniti dalla società Autostrade per l'Italia S.p.a. ed inseriti nelle revisione 01								
Sorgente stradale: Autostrada A11								
	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT
Veic. Leggeri / h	-	-	-	-	-	-	-	-
Veic. Pesanti / h	-	-	-	-	-	-	-	-
Motocicli / h	-	-	-	-	-	-	-	-
Parametri meteorologici								
	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT
Condizioni cielo	-	-	-	-	-	-	-	-
Temperatura med (°C)	-	-	-	-	-	-	-	-
Umidità relativa med (%)	-	-	-	-	-	-	-	-
Velocità vento med (m/s)	-	-	-	-	-	-	-	-
Direzione vento med (°N)	-	-	-	-	-	-	-	-

Punto R3	Ricettore / Indirizzo Via Bevaria – Agliana (Pistoia)							
RISULTATI MISURE - Periodo NOTTURNO (22÷6h)								
Parametri	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT
Data	26/10	27/10	28/10	29/10	30/10	31/10	01/11	26/10-01/11
Note	-	-	-	-	-	-	-	-
LAeq,TM [dBA]	65.4	65.8	65.5	65.9	66.2	66.8	66.2	66.0
L1 [dBA]	69.4	69.6	69.7	69.8	69.6	69.8	70.1	69.8
L5 [dBA]	68.4	68.5	68.8	69.0	68.7	69.2	69.1	68.9
L10 [dBA]	67.8	68.0	68.2	68.2	68.2	68.7	68.7	68.3
L50 [dBA]	64.9	65.4	65.1	65.7	66.0	66.6	65.5	65.7
L90 [dBA]	61.2	61.5	60.4	60.9	63.2	63.8	60.7	61.6
L95 [dBA]	59.0	60.4	58.2	59.0	62.4	62.7	58.5	59.6
L99 [dBA]	53.8	57.2	52.2	54.2	60.3	60.8	52.4	55.1
L _{imax} [dBA]	-	-	-	-	-	-	-	-
L _{Fmax} [dBA]	85.6	83.4	82.1	81.9	85.7	87.6	99.5	99.5
L _{smax} [dBA]	-	-	-	-	-	-	-	-
K _I [dBA]	0	0	0	0	0	0	0	0
K _T [dBA]	0	0	0	0	0	0	0	0
K _B [dBA]	0	0	0	0	0	0	0	0
LAeq,TRC [dBA]	65.4	65.8	65.5	65.9	66.2	66.8	66.2	66.0
Note:								
Il periodo di osservazione è stato caratterizzato da condizioni meteorologiche conformi ai registri di validità delle misure di rumore.								
La misura è iniziata alle ore 13.00 del giorno 26/10/09								
I dati traffico saranno forniti dalla società Autostrade per l'Italia S.p.a. ed inseriti nelle revisione 01								
Sorgente stradale: Autostrada A11								
	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT
Veic. Leggeri / h	-	-	-	-	-	-	-	-
Veic. Pesanti / h	-	-	-	-	-	-	-	-
Motocicli / h	-	-	-	-	-	-	-	-
Parametri meteorologici								
	Lun	Mar	Mer	Gio	Ven	Sab	Dom	SETT
Condizioni cielo	-	-	-	-	-	-	-	-
Temperatura med (°C)	-	-	-	-	-	-	-	-
Umidità relativa med (%)	-	-	-	-	-	-	-	-
Velocità vento med (m/s)	-	-	-	-	-	-	-	-
Direzione vento med (°N)	-	-	-	-	-	-	-	-

Punto R3	Ricettore / Indirizzo Via Bevaria – Agliana (Pistoia)
Foto 1	
Foto 2	

Punto
R3 Ricettore / Indirizzo
Via Bevaria – Agliana (Pistoia)

Foto 3



Localizzazione planimetrica



COMPONENTE RUMORE E VIBRAZIONI

ALLEGATO 3: INDAGINI VIBRAZIONALI

I CAMPAGNA

V1 - VALUTAZIONE DEL DISTURBO NEGLI EDIFICI							
Punto VIB001		Ricettore / Indirizzo Sig. Franchini – Via Calderara, 5 – Firenze (FI)					
Descrizione del ricettore							
Edificio residenziale ad 1 piano f.t., stabilmente abitato, ubicato all'inizio di via Calderara in affaccio alla rampa di uscita del viadotto dell'Indiano.							
Caratterizzazione del ricettore							
<i>Tipologia vibrazioni (UNI 9614 / 3.1):</i>				<i>Sensibilità umana e livelli limite (UNI 9614):</i>			
<input type="checkbox"/> stazionarie				<input type="checkbox"/> Area critica 71 dB			
<input checked="" type="checkbox"/> transitorie				<input checked="" type="checkbox"/> Abitazione 74 dB			
<input type="checkbox"/> impulsive (N = -)				<input type="checkbox"/> Uffici 83 dB			
				<input type="checkbox"/> Fabbrica 89 dB			
Caratterizzazione della sorgente di vibrazione							
<i>Tipologia:</i> <input checked="" type="checkbox"/> traffico stradale: Viadotto dell'Indiano, viabilità locale							
<input type="checkbox"/> traffico ferroviario:							
<input type="checkbox"/> cantiere:							
<i>Descrizione:</i> La sorgente di vibrazioni predominante è costituita dai transiti continui lungo la rampa di uscita del viadotto dell' Indiano, che corre a circa 10 m dal ricettore, a cui si associano gli scarsi transiti veicolari lungo la viabilità locale.							
Strumentazione adottata							
<i>Catena di misura in Classe I costituita da:</i> Analizzatore Larson-Davis 2900B S.N. 1057, Accelerometri PCB393A03 S.N. 10072/10582 Calibratore: PCB 394M26 S.N. P3065, Software di analisi: NWWin ver. 2.0.5							
Sintesi misure (caso più critico per ciascun asse)							
Misura	Data	Ora	Postazione	Asse	Lw [dB]	Llim [dB]	Conforme UNI 9614
1	01/03/11	9.21	Primo solaio	Z	50.6	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
2	01/03/11	9.23	Primo solaio	Y	49.4	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
Tecnico responsabile delle misure							
Data	Nome e cognome			Firma e timbro			
31/03/11							

Punto VIB001	Ricettore / Indirizzo Sig. Franchini – Via Calderara, 5 – Firenze (FI)
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Risultati misure / Postazione primo solaio

L'accelerometro è stato posizionato a centro stanza nel ripostiglio al piano terra.

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note
1	01/03/11	9.21	Z	0.34	50.6	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
1	01/03/11	9.21	X	0.29	49.3	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	9.23	Z	0.33	50.4	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	9.23	Y	0.30	49.4	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-

Risultati misure / Postazione ultimo solaio

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note

Note

Punto VIB001	Ricettore / Indirizzo Sig. Franchini – Via Calderara, 5 – Firenze (FI)
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Fotografia



Localizzazione planimetrica



V1 - VALUTAZIONE DEL DISTURBO NEGLI EDIFICI							
Punto VIB002	Ricettore / Indirizzo Sig. Ciulli – Via di Fibbiana, 1 – loc. Capalle – Campi Bisenzio (FI)						
Descrizione del ricettore							
Edificio residenziale ad 1 piano f.t., stabilmente abitato, ubicato in posizione isolata alla fine di via di Fibbiana a circa 5 mt dal tracciato autostradale dell'A11, che corre in leggero rilevato.							
Caratterizzazione del ricettore							
<i>Tipologia vibrazioni (UNI 9614 / 3.1):</i>				<i>Sensibilità umana e livelli limite (UNI 9614):</i>			
<input type="checkbox"/> stazionarie				<input type="checkbox"/> Area critica 71 dB			
<input checked="" type="checkbox"/> transitorie				<input checked="" type="checkbox"/> Abitazione 74 dB			
<input type="checkbox"/> impulsive (N = -)				<input type="checkbox"/> Uffici 83 dB			
				<input type="checkbox"/> Fabbrica 89 dB			
Caratterizzazione della sorgente di vibrazione							
<i>Tipologia:</i> <input checked="" type="checkbox"/> traffico stradale: Autostrada A11							
<input type="checkbox"/> traffico ferroviario:							
<input type="checkbox"/> cantiere:							
<i>Descrizione:</i> La sorgente di vibrazioni predominante è costituita dai transiti continui lungo il tracciato autostradale dell' A11.							
Strumentazione adottata							
<i>Catena di misura in Classe I costituita da:</i> Analizzatore Larson-Davis 2900B S.N. 1057, Accelerometri PCB393A03 S.N. 10072/10582 Calibratore: PCB 394M26 S.N. P3065, Software di analisi: NWWin ver. 2.0.5							
Sintesi misure (caso più critico per ciascun asse)							
Misura	Data	Ora	Postazione	Asse	Lw [dB]	Llim [dB]	Conforme UNI 9614
1	01/03/11	09.59	Primo solaio	Z	80.2	74.0	<input type="checkbox"/> SI <input checked="" type="checkbox"/> NO
1	01/03/11	09.59	Primo solaio	Y	56.2	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
Tecnico responsabile delle misure							
Data	Nome e cognome			Firma e timbro			
31/03/11							

Punto VIB002	Ricettore / Indirizzo Sig. Ciulli – Via di Fibbiana, 1 – loc. Capalle – Campi Bisenzio (FI)
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Risultati misure / Postazione primo solaio

L'accelerometro è stato posizionato a centro stanza nella cucina al piano terra.

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note
1	01/03/11	09.59	Z	10.22	80.2	74.0	<input type="checkbox"/> SI <input checked="" type="checkbox"/> NO		-
1	01/03/11	09.59	Y	0.64	56.2	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	10.02	Z	1.47	63.3	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	10.02	X	0.18	45.3	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-

Risultati misure / Postazione ultimo solaio

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note

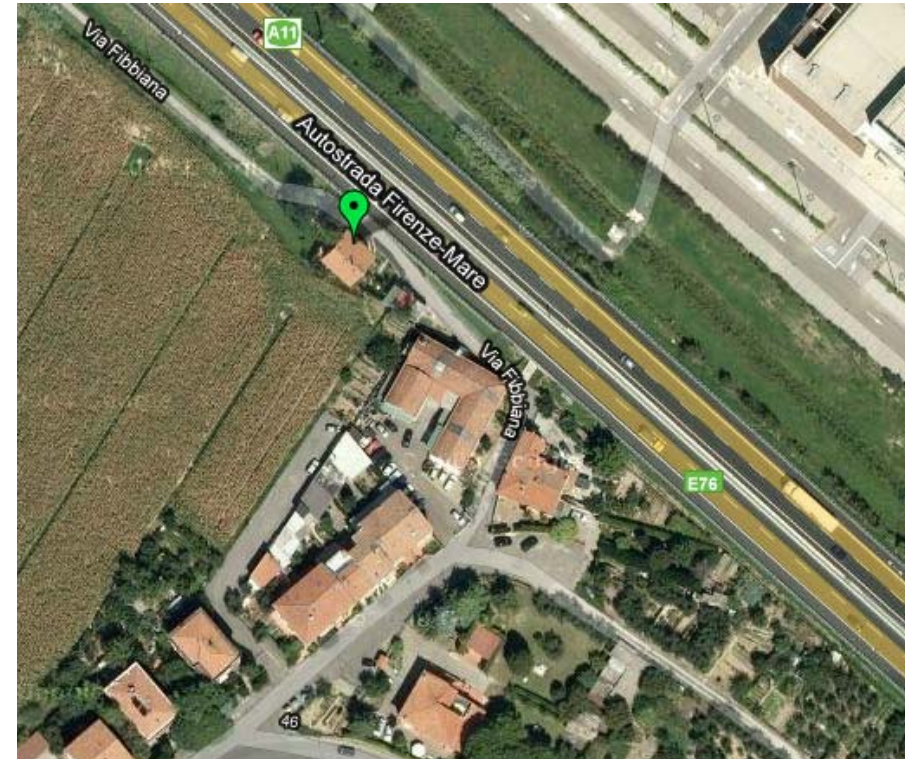
Note

Punto VIB002	Ricettore / Indirizzo Sig. Ciulli – Via di Fibbiana, 1 – loc. Capalle – Campi Bisenzio (FI)
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Fotografia



Localizzazione planimetrica



III CAMPAGNA

V1 - VALUTAZIONE DEL DISTURBO NEGLI EDIFICI							
Punto VIB003		Ricettore / Indirizzo Sig. Frediani – Via Roma, 412/B – Prato (PO)					
Descrizione del ricettore							
Edificio residenziale ad 3 piani f.t., stabilmente abitato, ubicato lungo via Roma in prossimità del sottopasso autostradale.							
Caratterizzazione del ricettore							
<i>Tipologia vibrazioni (UNI 9614 / 3.1):</i>				<i>Sensibilità umana e livelli limite (UNI 9614):</i>			
<input type="checkbox"/> stazionarie				<input type="checkbox"/> Area critica 71 dB			
<input checked="" type="checkbox"/> transitorie				<input checked="" type="checkbox"/> Abitazione 74 dB			
<input type="checkbox"/> impulsive (N = -)				<input type="checkbox"/> Uffici 83 dB			
				<input type="checkbox"/> Fabbrica 89 dB			
Caratterizzazione della sorgente di vibrazione							
<i>Tipologia:</i>		<input checked="" type="checkbox"/> traffico stradale: Autostrada A11, via Roma					
		<input type="checkbox"/> traffico ferroviario:					
		<input type="checkbox"/> cantiere:					
<i>Descrizione:</i> La sorgente di vibrazioni predominante è costituita dai transiti continui lungo il tracciato autostradale dell' A11, che corre in rilevato a circa 10 m dal ricettore, a cui si associano quelli lungo la viabilità locale di via Roma.							
Strumentazione adottata							
<i>Catena di misura in Classe I costituita da:</i> Analizzatore Larson-Davis 2900B S.N. 1057, Accelerometri PCB393A03 S.N. 10072/10582 Calibratore: PCB 394M26 S.N. P3065, Software di analisi: NWWin ver. 2.0.5							
Sintesi misure (caso più critico per ciascun asse)							
Misura	Data	Ora	Postazione	Asse	Lw [dB]	Llim [dB]	Conforme UNI 9614
1	01/03/11	10.41	Primo solaio	Z	72.4	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
4	01/03/11	10.53	Ultimo solaio	Y	54.9	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
Tecnico responsabile delle misure							
Data	Nome e cognome			Firma e timbro			
31/03/11							
Punto VIB003		Ricettore / Indirizzo Sig. Frediani – Via Roma, 412/B – Prato (PO)					

Risultati misure / Postazione primo solaio

L'accelerometro è stato posizionato sul pavimento del salotto al piano terra.

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note
1	01/03/11	10.41	Z	4.15	72.4	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
1	01/03/11	10.41	X	0.16	44.3	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	10.44	Z	0.28	49.0	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	10.44	Y	0.15	43.6	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-

Risultati misure / Postazione ultimo solaio

L'accelerometro è stato posizionato sul pavimento dello studio al terzo piano.

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note
3	01/03/11	10.50	Z	0.73	57.3	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
3	01/03/11	10.50	X	0.38	51.6	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
4	01/03/11	10.53	Z	1.06	60.5	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
4	01/03/11	10.53	Y	0.55	54.9	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-

Note

Punto
VIB003

Ricettore / Indirizzo
Sig. Frediani – Via Roma, 412/B – Prato (PO)

Fotografia



Localizzazione planimetrica



IV CAMPAGNA

V1 - VALUTAZIONE DEL DISTURBO NEGLI EDIFICI							
Punto VIB004		Ricettore / Indirizzo Sig. Nannini – Via Per Iolo, 91 – Prato (PO)					
Descrizione del ricettore							
Edificio residenziale ad 1 piani f.t., stabilmente abitato, ubicato in una strada senza sfondo in prossimità del sottopasso autostradale.							
Caratterizzazione del ricettore							
<i>Tipologia vibrazioni (UNI 9614 / 3.1):</i>				<i>Sensibilità umana e livelli limite (UNI 9614):</i>			
<input type="checkbox"/> stazionarie				<input type="checkbox"/> Area critica 71 dB			
<input checked="" type="checkbox"/> transitorie				<input checked="" type="checkbox"/> Abitazione 74 dB			
<input type="checkbox"/> impulsive (N = -)				<input type="checkbox"/> Uffici 83 dB			
				<input type="checkbox"/> Fabbrica 89 dB			
Caratterizzazione della sorgente di vibrazione							
<i>Tipologia:</i>		<input checked="" type="checkbox"/> traffico stradale: Autostrada A11					
		<input type="checkbox"/> traffico ferroviario:					
		<input type="checkbox"/> cantiere:					
<i>Descrizione:</i> La sorgente di vibrazioni predominante è costituita dai transiti continui lungo il tracciato autostradale dell' A11, che corre in rilevato a circa 3 m dal ricettore.							
Strumentazione adottata							
<i>Catena di misura in Classe I costituita da:</i> Analizzatore Larson-Davis 2900B S.N. 1057, Accelerometri PCB393A03 S.N. 10072/10582 Calibratore: PCB 394M26 S.N. P3065, Software di analisi: NWWin ver. 2.0.5							
Sintesi misure (caso più critico per ciascun asse)							
Misura	Data	Ora	Postazione	Asse	Lw [dB]	Llim [dB]	Conforme UNI 9614
2	01/03/11	11.23	Primo solaio	Z	68.2	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
2	01/03/11	11.23	Primo solaio	Y	41.9	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO
Tecnico responsabile delle misure							
Data	Nome e cognome			Firma e timbro			
31/03/11							
Punto VIB004		Ricettore / Indirizzo Sig. Nannini – Via Per Iolo, 91 – Prato (PO)					

Risultati misure / Postazione primo solaio

L'accelerometro è stato posizionato sul pavimento della camera da letto al piano terra.

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note
1	01/03/11	11.20	Z	0.21	46.6	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
1	01/03/11	11.20	X	0.11	41.2	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	11.23	Z	2.57	68.2	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-
2	01/03/11	11.23	Y	0.12	41.9	74.0	<input checked="" type="checkbox"/> SI <input type="checkbox"/> NO		-

Risultati misure / Postazione ultimo solaio

Misura	Data	Ora	Asse	a_w [mm/s ²]	L_w [dB]	L_{lim} [dB]	Conforme 9614	UNI	Note

Note

Punto **VIB004** Ricettore / Indirizzo **Sig. Nannini – Via Per Iolo, 91 – Prato (PO)**

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Localizzazione planimetrica

