



Centrale termoelettrica
di Porto Tolle



Allegato 4.2.6/1

Laboratorio di prova: Rumore Vibrazione e Microclima STR

Oggetto: C.le di Porto Tolle

Misure di rumore a breve e medio termine attorno
all' impianto

Committente: Enel PSV

Indirizzo: Via Po, 31 Roma

Ordine: e-mail del 12/6/2000 (n.s. prot. A00/001131)

Commessa di lavoro: 268/00

Periodo di conservazione di questo documento: 10 anni.

VINCOLI DI RISERVATEZZA

Ogni riproduzione parziale del presente Rapporto di Prova, deve essere esplicitamente autorizzata da ENEL - Laboratorio di Piacenza .

I risultati riportati nel presente Rapporto di Prova si riferiscono esclusivamente ai campioni in oggetto.

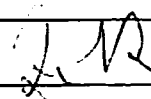
Estrapolazioni dei suddetti risultati esulano dallo scopo di questo documento.

31/08/2000

DATA

RESPONSABILE DEL LABORATORIO DI PROVA

FIRMA



Su richiesta di Enel PSV (e-mail del 12/6/2000) sono stati effettuati rilievi di rumore ambientale esterno presso la centrale di Porto Tolle

Il presente Rapporto contiene i risultati di tre prove di livello equivalente e della distribuzione statistica del livello sonoro globale e per bande di frequenza, eseguite in 28 postazioni di misura ubicate all'interno della recinzione dell'impianto (vedi figura 1). Nel presente rapporto sono inoltre riportate le relative informazioni al contorno rilevanti ai fini della garanzia di qualità.

I rilievi sono stati effettuati applicando la procedura tecnica n° 700QT00796 "Determinazione della distribuzione statistica del livello sonoro e del relativo livello equivalente in termini globali e spettrali".

L'indagine è stata effettuata nei giorni 28÷29/06/2000; con i soli gruppi 3 e 4 in servizio a pieno carico mentre i gruppi 1 e 2 erano fuori servizio.

Tutte le prove sono state eseguite in ottemperanza a quanto riportato nel DMA 16/3/98 "Tecniche di rilevamento e di misurazione dell'inquinamento acustico", da personale accreditato del riconoscimento di "tecnico competente in acustica ambientale", ai sensi dell'art.2 comma 7 della Legge 447/95.

I rilievi nella postazione di misura **I1** sono stati effettuati, con altezza microfonica pari 4 m, in automatico mediante tecnica di integrazione continua con tempi di misura consecutivi della durata di 15 minuti nel periodo dal 28/06/2000 al 29/06/2000.

Le misure nei punti da **E1** a **E8** lungo la recinzione sia in periodo diurno che notturno sono state effettuate in manuale con tempi di integrazione di almeno 5 minuti ciascuno, mentre per le misure all'interno dell'impianto in prossimità di sorgenti specifiche da **A1** a **A19** il tempo di integrazione è stato di almeno un minuto; per entrambe le misure l'altezza microfonica è risultata pari a 1.5m.

Le misure sono state condotte mediante due distinte catene di misura, descritte dettagliatamente nel seguente prospetto, tarate e calibrate in accordo con quanto prescritto dal DMA 16/3/98.

Catena n°	Utilizzo	Strumenti	N° di matr.
1	Punti E1÷E8 Punti A1÷A19	Fonometro B&K 2260	1853773
		Microfono B&K 4189	1858298
2	Punto I1	Fonometro B&K 2260	2076312
		Microfono B&K 4189	2009107

Per entrambe le catene di misura è stata effettuata la calibrazione iniziale e finale con il calibratore Brüel & Kjær 4231 mat. n° 1780651.

Le condizioni meteorologiche sono state caratterizzate, in generale, da assenza di vento e assenza di precipitazioni.

In tabella I si riportano sinteticamente i risultati globali sui tempi di riferimento diurno (h. 6.00÷22.00) e notturno (h. 22.00÷6.00) dei rilievi effettuati nella postazione **I1** espressi come livello equivalente $L_{Aeq,TR}$ medio. La compattazione dei dati è stata effettuata mediante il software B&K 7820 "Evaluator".

Tab. I

	PERIODO	
	DIURNO	NOTTURNO
<i>Punto</i>	<i>L_{Aeq,TR} (dB)</i>	<i>L_{Aeq,TR} (dB)</i>
Pr. I1	56.9	50.4

Nelle tabelle II e III sono riportati i livelli L_{Aeq} (livello continuo equivalente ponderato 'A') ed L_{A95} (95° percentile della distribuzione retrocumulata del livello sonoro ponderato 'A') rilevati nelle varie postazioni indagate.

Tab. II – Valori di L_{Aeq} e L_{A95} misurati in postazioni prossime a sorgenti specifiche

Punto	L_{Aeq}	LA95
A1	64.2	62.6
A2	66.1	64.4
A3	70.5	69.6
A4	63.2	62.3
A5	64.4	62.8
A6	57.0	55.1
A7	58.1	57.2
A8	64.3	63.2
A9	74.6	73.7
A10	64.7	63.3
A11	57.8	56.6
A12	72.0	71.8
A13	62.9	62.3
A14	67.1	66.6
A15	60.4	59.2
A16	70.6	69.2
A17	64.4	63.1
A18	68.8	67.9
A19	62.3	61.6

Tab. III – Valori di L_{Aeq} e L_{A95} misurati lungo la recinzione in periodo diurno e notturno

Punto	Diurno		Notturno	
	L_{Aeq}	L_{A95}	L_{Aeq}	L_{A95}
E1	47.4	44.6	49.8	48.7
E2	44.2	41.6	48.9	48.3
E3	47.0	45.4	46.5	44.1
E4	48.7	46.2	44.6	41.1
E5	57.7	56.4	56.1	53.8
E6	51.2	48.6	50.6	48.7
E7	64.8	62.5	62.3	59.8
E8	49.2	46.3	52.8	51.3

Nelle tabelle successive vengono riportati i risultati dettagliati relativamente a tutti i punti di misura.

Presso il Laboratorio di Piacenza sono disponibili i Fogli Raccolta Dati recanti le circostanze di misura ed eventuali annotazioni degli operatori.

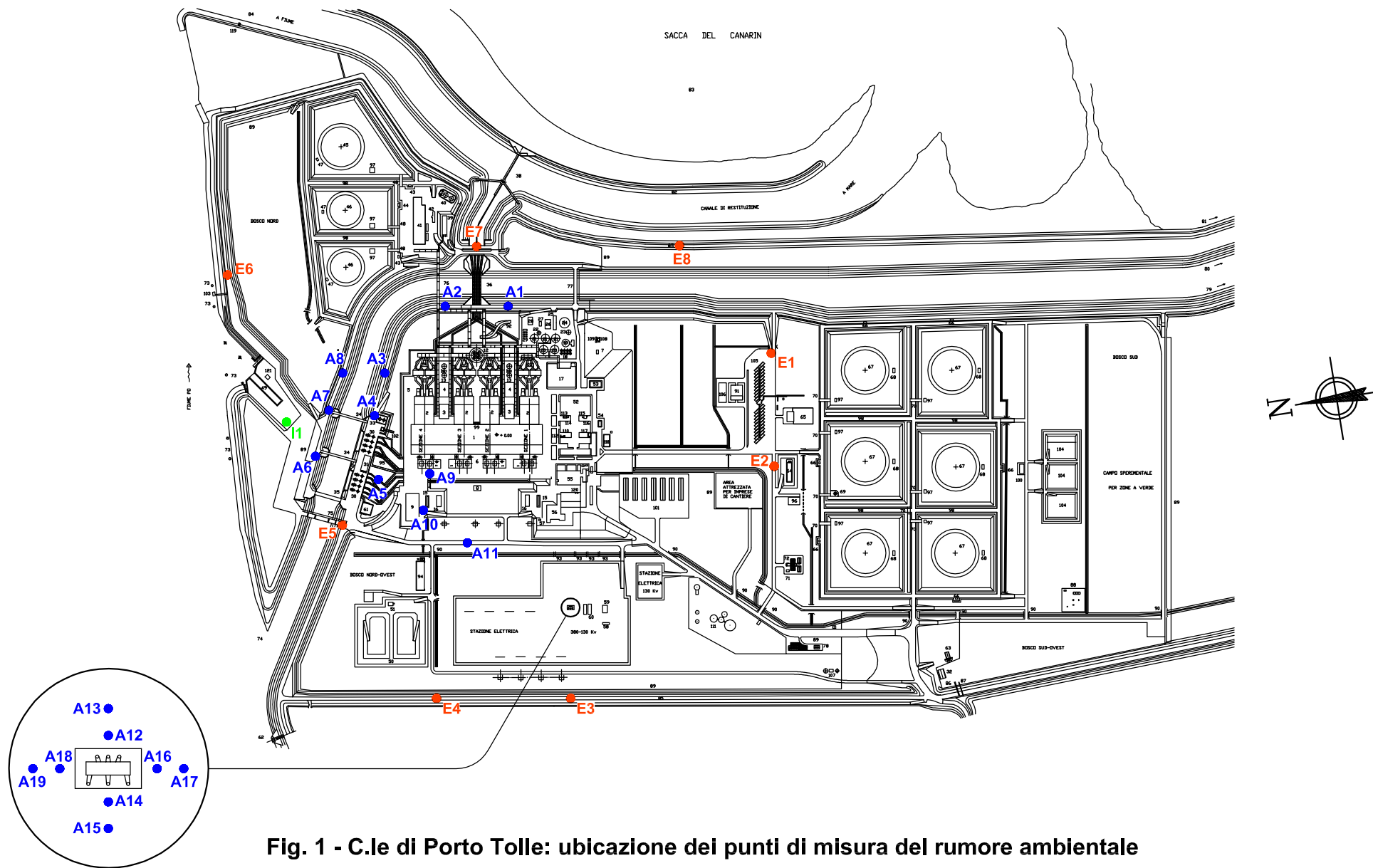


Fig. 1 - C.le di Porto Tolle: ubicazione dei punti di misura del rumore ambientale

Risultati Dettagliati

Punto	E1 diurno		
29/06/00 10.21.58 - 10.26.59			
Hz	LLeq	LLF50	LLF95
12.50	60.4	58.0	50.6
16	58.3	56.9	52.1
20	56.1	54.5	50.6
25	55.8	55.0	51.5
31.50	53.5	52.7	49.0
40	52.9	52.2	49.2
50	51.6	50.9	47.3
63	51.0	50.0	45.7
80	57.4	56.4	52.0
100	44.3	43.7	40.3
125	39.9	38.4	34.2
160	41.8	40.9	36.3
200	37.7	36.7	32.0
250	40.9	40.0	34.7
315	41.4	40.7	37.1
400	37.5	36.8	33.4
500	37.3	35.7	32.2
630	37.3	34.6	31.0
800	36.6	34.3	31.0
1000	35.7	33.8	30.8
1250	36.6	35.1	32.0
1600	36.0	35.1	32.1
2000	36.2	35.4	32.6
2500	36.7	36.1	33.3
3150	36.1	35.6	32.7
4000	31.8	31.3	28.8
5000	26.9	26.3	23.7
6300	23.1	---	---
8000	---	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	47.4	46.8	44.6
L	72.7	---	---

Punto	E1 notturno		
28/06/00 22.30.13 - 22.35.14			
Hz	LLeq	LLF50	LLF95
12.50	50.5	50.3	47.4
16	52.7	52.2	49.2
20	52.2	52.0	49.9
25	53.0	52.7	50.0
31.50	50.8	50.5	47.8
40	47.9	47.6	45.1
50	48.5	47.9	44.9
63	52.1	51.6	47.1
80	48.5	47.6	42.3
100	39.1	38.7	35.8
125	35.7	35.4	32.6
160	44.4	43.8	39.2
200	37.1	36.9	34.7
250	38.7	38.5	36.0
315	39.5	39.3	36.7
400	36.9	36.6	34.6
500	35.7	35.5	33.6
630	34.6	34.4	32.5
800	34.8	34.6	33.0
1000	37.5	37.2	35.4
1250	42.1	41.9	39.8
1600	41.5	41.3	39.5
2000	40.7	40.6	38.9
2500	39.6	39.5	38.2
3150	37.4	37.3	35.7
4000	34.0	33.8	31.9
5000	27.8	27.5	25.4
6300	---	---	---
8000	---	---	---
10000	---	---	---
12500	31.3	31.1	28.1
16000	33.4	33.0	30.7
20000	---	---	---
A	49.8	49.7	48.7
L	63.4	---	---

Punto	E2 diurno		
29/06/00 10.32.06 - 10.37.07			
Hz	LLeq	LLF50	LLF95
12.50	59.4	54.5	46.7
16	57.6	55.4	51.1
20	54.8	51.7	47.4
25	55.1	54.1	50.7
31.50	51.8	50.6	47.6
40	51.1	50.5	47.8
50	52.2	51.8	48.4
63	49.7	49.0	44.8
80	55.8	55.4	52.3
100	44.4	43.2	39.7
125	40.3	37.3	33.5
160	40.5	36.0	32.3
200	40.2	29.4	26.1
250	37.0	28.6	25.5
315	33.9	29.0	25.5
400	34.0	29.5	26.8
500	32.9	31.9	28.5
630	32.2	31.7	29.1
800	32.5	31.8	28.7
1000	32.2	31.4	28.4
1250	33.9	33.2	30.0
1600	32.4	31.8	29.3
2000	32.2	31.3	29.2
2500	32.5	31.7	29.4
3150	33.1	31.5	29.1
4000	30.6	28.1	25.2
5000	27.2	23.9	---
6300	27.2	---	---
8000	23.9	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	44.2	43.5	41.6
L	71.6	---	---

Punto	E2 notturno		
28/06/00 22.42.29 - 22.47.30			
Hz	LLeq	LLF50	LLF95
12.50	48.6	48.2	45.3
16	52.8	52.3	48.4
20	50.1	49.9	48.0
25	51.3	50.9	47.4
31.50	49.4	49.1	46.8
40	50.0	49.4	46.7
50	53.4	52.6	48.9
63	46.1	45.5	42.5
80	46.8	46.2	40.4
100	38.7	38.4	35.5
125	34.7	34.4	31.8
160	32.3	32.1	29.4
200	29.2	28.8	26.3
250	28.5	28.3	26.4
315	33.9	33.8	31.7
400	34.9	34.8	33.1
500	37.6	37.5	35.7
630	38.6	38.5	37.1
800	37.1	37.0	35.5
1000	38.3	38.3	37.0
1250	39.5	39.5	38.2
1600	38.0	38.0	36.8
2000	39.4	39.4	38.2
2500	39.4	39.4	38.2
3150	38.6	38.5	37.3
4000	35.5	35.5	34.3
5000	31.1	31.1	30.1
6300	26.2	26.0	25.1
8000	---	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	48.9	48.9	48.3
L	62.1	---	---

Punto	E3 diurno		
29/06/00 10.56.50 - 11.01.52			
Hz	LLeq	LLF50	LLF95
12.50	60.2	56.8	52.1
16	58.7	56.6	53.1
20	56.5	54.8	52.0
25	55.8	54.6	51.2
31.50	54.0	53.1	49.8
40	53.0	52.4	50.0
50	58.8	58.2	54.5
63	47.1	46.6	44.0
80	46.9	46.2	42.5
100	44.5	44.1	40.7
125	39.8	39.2	36.3
160	41.0	40.7	37.5
200	39.0	38.3	35.3
250	39.4	39.1	36.7
315	46.4	45.2	41.2
400	40.8	40.5	37.7
500	40.1	39.5	36.6
630	38.6	38.3	35.5
800	34.9	34.8	33.1
1000	34.4	34.2	32.4
1250	33.7	33.3	31.5
1600	33.7	33.2	31.3
2000	33.8	33.1	31.1
2500	33.9	33.2	31.0
3150	34.3	33.6	30.9
4000	30.4	29.7	27.5
5000	27.1	26.3	24.3
6300	25.6	23.5	21.6
8000	24.7	23.4	21.0
10000	23.8	23.2	---
12500	23.4	22.7	---
16000	21.8	21.4	---
20000	---	---	---
A	47.0	46.8	45.4
L	72.2	---	---

Punto	E3 notturno		
28/06/00 23.14.50 - 23.19.52			
Hz	LLeq	LLF50	LLF95
12.50	54.7	54.3	51.3
16	55.7	55.4	52.4
20	54.0	53.9	51.4
25	52.3	52.0	49.2
31.50	49.7	49.5	46.9
40	49.9	49.7	47.5
50	56.9	56.1	51.8
63	46.1	45.8	43.2
80	46.6	46.2	42.7
100	44.6	44.3	41.6
125	37.9	37.3	34.1
160	37.6	37.0	33.7
200	33.9	33.2	30.0
250	35.5	35.4	32.4
315	37.0	36.3	33.6
400	34.6	33.1	30.6
500	35.1	34.7	32.7
630	34.3	33.9	32.1
800	33.9	33.3	31.4
1000	33.8	32.2	29.9
1250	35.2	33.6	31.4
1600	36.9	34.8	32.3
2000	36.5	34.8	32.9
2500	37.1	35.9	33.5
3150	36.3	35.6	33.0
4000	33.3	33.0	30.6
5000	29.3	29.1	27.3
6300	27.8	27.6	26.1
8000	25.8	25.6	24.2
10000	25.0	24.8	23.3
12500	23.6	23.5	22.0
16000	---	---	---
20000	---	---	---
A	46.5	45.5	44.1
L	65.9	---	---

Punto	E4 diurno		
29/06/00 11.05.41 - 11.10.42			
Hz	LLeq	LLF50	LLF95
12.50	59.5	57.6	54.1
16	58.6	57.5	54.1
20	56.3	54.9	52.0
25	54.8	53.8	50.6
31.50	54.3	53.7	49.2
40	51.4	50.5	48.1
50	60.0	59.4	56.2
63	47.0	46.5	43.5
80	53.3	53.0	48.1
100	48.1	47.1	42.5
125	44.1	42.4	39.2
160	45.0	43.7	40.2
200	42.9	42.1	38.6
250	40.9	40.1	36.8
315	45.2	44.6	39.8
400	43.1	41.8	38.1
500	42.0	41.0	37.2
630	40.9	40.4	37.5
800	38.4	38.1	35.4
1000	35.7	35.3	33.2
1250	34.9	34.4	32.5
1600	34.9	34.4	32.3
2000	33.6	32.8	30.7
2500	34.1	32.9	30.2
3150	34.9	33.1	29.8
4000	30.7	29.2	26.1
5000	32.0	26.2	22.7
6300	36.1	23.9	21.1
8000	33.0	24.3	21.4
10000	24.1	23.6	---
12500	25.3	23.7	---
16000	30.0	24.0	---
20000	28.5	21.3	---
A	48.7	48.1	46.2
L	70.5	---	---

Punto	E4 notturno		
28/06/00 23.23.44 - 23.28.45			
Hz	LLeq	LLF50	LLF95
12.50	56.1	55.7	52.9
16	54.6	54.4	51.6
20	52.7	52.6	50.1
25	52.1	51.8	49.0
31.50	52.2	51.9	49.1
40	48.5	48.3	46.3
50	54.8	54.0	49.3
63	44.5	44.2	41.6
80	51.4	51.3	50.1
100	38.8	38.5	36.1
125	30.9	30.6	28.1
160	31.4	30.8	27.6
200	29.2	28.8	26.1
250	30.7	30.5	28.2
315	33.6	33.0	30.2
400	30.8	30.6	28.2
500	32.5	32.3	30.2
630	32.0	31.6	28.9
800	32.0	31.4	28.9
1000	30.5	29.8	27.7
1250	30.3	29.5	27.1
1600	32.5	31.7	28.3
2000	33.0	31.8	28.3
2500	35.4	34.2	29.5
3150	35.5	34.2	28.6
4000	35.3	34.1	29.5
5000	32.9	31.7	27.3
6300	23.6	21.9	---
8000	---	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	44.6	43.8	41.1
L	65.7	---	---

Punto	E5 diurno		
	29/06/00 11.17.02 - 11.22.04		
Hz	LLeq	LLF50	LLF95
12.50	61.9	61.6	58.6
16	61.4	61.1	58.1
20	59.4	59.1	56.6
25	58.8	58.5	55.7
31.50	60.5	60.3	57.4
40	60.1	60.0	58.1
50	71.1	70.7	68.5
63	58.5	58.3	56.2
80	64.7	64.4	60.4
100	58.6	58.2	54.8
125	54.9	54.6	52.1
160	57.0	56.8	53.9
200	55.2	55.0	52.0
250	51.9	51.6	49.2
315	55.0	54.4	50.8
400	49.1	48.7	45.6
500	47.4	47.0	45.1
630	48.5	48.1	45.8
800	45.0	44.9	43.2
1000	43.9	43.7	42.2
1250	44.1	43.9	42.2
1600	45.6	45.4	43.6
2000	45.5	45.3	43.6
2500	45.9	45.5	43.7
3150	46.2	45.7	43.7
4000	42.7	42.4	40.5
5000	40.4	40.0	38.0
6300	36.1	35.8	33.8
8000	29.9	29.7	27.9
10000	23.1	22.8	21.1
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	57.7	57.6	56.4
L	74.9	---	---

Punto	E5 notturno		
	28/06/00 23.35.23 - 23.40.25		
Hz	LLeq	LLF50	LLF95
12.50	62.6	62.4	59.8
16	63.4	63.1	60.2
20	62.0	61.7	59.3
25	59.7	59.4	56.7
31.50	60.4	60.1	57.4
40	58.5	58.3	56.2
50	69.6	69.4	67.5
63	58.6	58.3	56.1
80	60.9	60.7	58.2
100	56.9	56.6	53.7
125	52.4	52.1	49.7
160	54.2	53.7	50.0
200	48.9	48.7	46.2
250	48.6	48.4	46.2
315	49.9	49.7	47.2
400	45.6	45.5	43.4
500	42.8	42.6	41.0
630	41.8	41.7	40.1
800	42.1	42.1	40.1
1000	41.8	41.7	39.3
1250	41.3	41.1	39.1
1600	43.3	43.2	40.6
2000	45.9	45.7	41.5
2500	45.8	45.4	41.8
3150	46.6	46.2	42.3
4000	45.1	44.8	41.2
5000	42.4	42.1	38.5
6300	38.6	38.4	35.0
8000	32.6	32.3	29.1
10000	24.2	24.0	22.2
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	56.1	56.0	53.8
L	74.9	---	---

Punto	E6 diurno		
29/06/00 11.25.18 - 11.30.19			
Hz	LLeq	LLF50	LLF95
12.50	60.2	59.2	56.2
16	61.1	60.6	57.0
20	61.3	60.9	58.7
25	62.0	61.7	59.2
31.50	62.7	62.3	59.5
40	58.4	58.3	55.8
50	53.8	53.4	50.6
63	52.0	50.7	47.4
80	63.1	62.5	57.1
100	50.4	50.3	44.7
125	43.3	42.3	37.8
160	47.3	46.5	42.1
200	43.0	42.4	38.1
250	43.5	42.8	39.3
315	45.6	45.1	41.3
400	42.7	42.2	38.9
500	39.9	39.5	36.0
630	40.2	39.6	36.5
800	40.3	39.9	36.8
1000	39.9	39.5	36.7
1250	39.4	38.9	36.0
1600	39.7	39.1	36.1
2000	40.2	39.5	36.2
2500	40.8	40.0	36.5
3150	39.0	38.2	34.9
4000	34.2	33.3	30.3
5000	29.9	28.4	25.5
6300	24.1	22.9	---
8000	---	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	51.2	50.8	48.6
L	73.4	---	---

Punto	E6 notturno		
28/06/00 23.44.01 - 23.49.02			
Hz	LLeq	LLF50	LLF95
12.50	62.2	62.0	59.2
16	65.8	65.6	63.1
20	68.2	67.9	65.5
25	67.3	67.1	64.2
31.50	65.8	65.6	63.0
40	60.2	59.9	57.5
50	53.4	53.0	50.3
63	49.9	49.1	44.9
80	48.9	48.6	45.1
100	44.2	43.9	40.9
125	43.1	42.7	39.9
160	50.6	50.0	46.1
200	46.1	45.9	43.3
250	48.6	48.3	45.7
315	48.7	48.3	45.7
400	42.0	41.6	39.4
500	40.6	40.4	38.2
630	39.4	39.2	37.2
800	36.8	36.6	34.5
1000	36.3	36.0	33.8
1250	36.4	36.1	33.9
1600	37.7	37.4	35.0
2000	38.0	37.4	34.8
2500	39.4	38.8	35.7
3150	38.9	38.4	35.1
4000	37.8	37.0	33.9
5000	33.7	32.9	29.4
6300	27.2	26.2	22.9
8000	---	---	---
10000	---	---	---
12500	22.2	---	---
16000	25.8	---	---
20000	23.3	---	---
A	50.6	50.4	48.7
L	75.2	---	---

Punto	E7 diurno		
29/06/00 11.35.56 - 11.40.57			
Hz	LLeq	LLF50	LLF95
12.50	65.9	65.4	61.5
16	63.1	62.9	60.3
20	59.8	59.5	57.2
25	61.9	61.6	58.2
31.50	58.2	57.8	55.1
40	59.0	58.2	55.4
50	61.1	60.6	57.3
63	58.4	58.0	55.5
80	70.2	69.6	66.3
100	57.2	56.9	54.4
125	57.0	56.7	54.0
160	58.4	58.2	55.7
200	55.2	55.1	52.9
250	56.1	55.9	53.5
315	54.0	53.8	51.9
400	53.8	53.7	51.5
500	52.1	52.0	50.1
630	51.8	51.7	49.5
800	51.5	51.3	49.2
1000	50.5	50.4	48.3
1250	50.3	50.2	48.2
1600	52.0	51.7	49.2
2000	54.0	53.6	50.8
2500	56.3	55.9	52.8
3150	56.8	56.4	53.0
4000	53.4	53.1	50.3
5000	50.6	50.4	47.4
6300	45.9	45.6	43.0
8000	39.7	39.6	37.6
10000	34.9	34.8	33.1
12500	31.6	31.5	29.4
16000	27.1	27.0	24.6
20000	22.1	21.9	---
A	64.8	64.6	62.5
L	76.8	---	---

Punto	E7 notturno		
28/06/00 23.55.44 - 00.00.45			
Hz	LLeq	LLF50	LLF95
12.50	62.5	62.3	59.3
16	64.4	64.0	60.4
20	62.4	62.3	60.0
25	61.0	60.6	57.5
31.50	56.7	56.4	54.0
40	56.6	56.3	54.0
50	56.6	55.9	52.3
63	54.3	54.0	52.1
80	73.2	73.0	71.1
100	55.7	55.5	53.3
125	50.3	49.9	47.1
160	50.3	50.0	47.1
200	50.2	50.0	47.1
250	49.0	48.7	46.2
315	47.4	47.3	45.2
400	46.5	46.3	44.4
500	48.6	48.4	46.6
630	48.4	48.1	46.1
800	49.7	49.4	47.4
1000	49.4	49.3	46.5
1250	47.7	47.5	45.3
1600	49.9	49.5	46.8
2000	51.6	51.1	47.7
2500	53.2	52.6	49.0
3150	53.0	52.5	49.4
4000	52.6	52.1	49.2
5000	50.0	49.5	46.5
6300	45.7	45.3	42.4
8000	40.2	39.7	37.0
10000	31.8	31.6	29.6
12500	27.0	26.8	25.1
16000	---	---	---
20000	---	---	---
A	62.3	61.9	59.8
L	76.7	---	---

Punto	E8 diurno		
29/06/00 11.44.54 - 11.50.05			
Hz	LLeq	LLF50	LLF95
12.50	60.2	57.7	52.3
16	58.8	56.9	51.8
20	55.9	54.1	50.3
25	56.7	56.2	53.2
31.50	58.3	57.8	54.6
40	53.7	53.3	50.4
50	51.1	50.7	47.8
63	49.7	49.6	47.2
80	69.1	69.0	66.1
100	50.8	50.7	48.2
125	36.1	35.8	33.4
160	33.6	32.4	28.2
200	28.8	28.3	25.8
250	31.8	31.0	27.8
315	30.7	29.7	26.6
400	31.5	30.7	27.0
500	33.9	33.1	29.3
630	35.6	34.6	31.0
800	36.9	36.1	32.3
1000	36.2	35.6	31.5
1250	34.5	34.0	30.3
1600	34.6	33.8	30.3
2000	35.2	34.5	31.2
2500	36.6	35.7	32.5
3150	35.3	34.4	31.2
4000	29.8	28.9	25.9
5000	24.4	23.3	---
6300	---	---	---
8000	---	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	49.2	49.1	46.3
L	74.1	---	---

Punto	E8 notturno		
29/06/00 00.08.51 - 00.13.53			
Hz	LLeq	LLF50	LLF95
12.50	54.6	54.3	51.3
16	54.5	54.3	50.3
20	54.3	54.2	52.1
25	58.2	57.9	55.0
31.50	57.0	56.8	54.1
40	55.0	54.8	52.4
50	55.7	55.4	52.5
63	58.4	57.5	52.5
80	65.5	65.4	63.9
100	47.2	47.1	45.4
125	38.1	37.8	35.6
160	46.9	46.7	44.1
200	41.2	41.1	38.9
250	42.7	42.3	39.6
315	39.6	39.4	37.1
400	38.8	38.7	37.0
500	41.4	41.3	39.5
630	40.7	40.6	39.0
800	41.2	40.9	39.2
1000	39.8	39.4	37.9
1250	41.7	41.1	39.3
1600	41.9	41.4	39.4
2000	42.1	41.6	39.6
2500	42.6	42.3	40.2
3150	42.3	41.9	39.6
4000	40.1	39.7	37.1
5000	35.8	35.2	32.2
6300	28.2	27.4	24.2
8000	---	---	---
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	52.8	52.5	51.3
L	70.1	---	---

Punto	A1		
29/06/00 13.52.21 - 13.54.22			
Hz	LLeq	LLF50	LLF95
12.50	63.3	62.8	59.7
16	63.8	63.5	60.4
20	62.4	62.3	59.4
25	61.7	61.4	58.5
31.50	62.0	61.8	59.1
40	59.7	59.4	57.2
50	59.5	59.0	55.8
63	56.8	56.5	54.2
80	74.4	73.7	70.7
100	56.1	55.5	52.6
125	46.9	46.4	44.1
160	53.8	53.5	49.6
200	47.3	47.2	44.9
250	52.7	52.3	49.4
315	51.5	51.2	49.0
400	51.3	51.0	48.9
500	49.4	49.3	47.3
630	49.9	49.7	48.1
800	50.7	50.6	49.1
1000	50.1	50.0	48.4
1250	50.5	50.4	49.0
1600	51.2	51.1	49.3
2000	53.2	53.2	51.0
2500	55.7	55.6	53.2
3150	56.0	55.8	53.4
4000	53.3	53.1	50.9
5000	51.0	50.8	48.8
6300	47.3	47.2	45.3
8000	40.0	39.9	38.0
10000	32.0	31.8	30.4
12500	27.5	27.1	25.7
16000	22.6	21.8	---
20000	---	---	---
A	64.2	64.1	62.6
L	77.3	---	---

Punto	A2		
29/06/00 13.57.43 - 13.59.44			
Hz	LLeq	LLF50	LLF95
12.50	69.4	69.0	66.5
16	72.7	72.4	66.5
20	71.4	70.8	67.5
25	68.4	68.1	65.5
31.50	67.0	66.7	64.3
40	64.4	63.8	61.2
50	64.1	63.5	60.2
63	61.1	60.7	57.9
80	70.4	70.1	64.9
100	54.6	54.5	51.2
125	52.4	52.1	49.3
160	57.2	56.8	53.4
200	50.4	50.2	48.0
250	52.6	52.3	49.9
315	54.1	53.9	51.7
400	53.9	53.8	51.7
500	54.2	54.1	52.2
630	52.8	52.7	51.1
800	53.2	53.0	51.3
1000	54.3	54.1	52.0
1250	53.6	53.5	51.3
1600	53.7	53.6	51.8
2000	55.5	55.4	53.3
2500	57.6	57.3	55.2
3150	57.4	57.2	54.8
4000	54.7	54.3	52.0
5000	51.8	51.4	48.8
6300	47.4	46.9	44.2
8000	41.2	40.7	37.6
10000	31.1	30.7	27.5
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	66.1	65.9	64.4
L	81.0	---	---

Punto	A3		
29/06/00 14.03.13 - 14.05.14			
Hz	LLeq	LLF50	LLF95
12.50	71.7	71.7	69.1
16	77.4	77.1	72.7
20	77.4	77.1	74.9
25	76.9	76.7	73.7
31.50	74.3	74.1	71.5
40	72.2	72.0	69.7
50	73.4	73.1	70.7
63	68.6	68.5	66.5
80	84.0	84.0	80.5
100	66.5	66.4	63.6
125	59.9	59.6	57.2
160	63.4	63.0	59.2
200	57.2	57.1	55.1
250	60.5	60.4	58.2
315	63.3	63.2	61.0
400	59.9	59.7	58.1
500	56.6	56.6	55.1
630	58.7	58.6	57.1
800	57.2	57.1	55.6
1000	57.4	57.3	56.1
1250	56.8	56.7	55.4
1600	58.9	58.5	56.5
2000	58.4	58.3	56.8
2500	60.3	60.3	58.3
3150	60.6	60.5	58.8
4000	58.7	58.6	57.1
5000	56.6	56.5	55.0
6300	53.2	53.2	51.4
8000	48.8	48.7	47.3
10000	41.2	41.1	40.0
12500	31.3	31.2	30.1
16000	---	---	---
20000	---	---	---
A	70.5	70.5	69.6
L	87.5	---	---

Punto	A4		
29/06/00 14.07.39 - 14.09.40			
Hz	LLeq	LLF50	LLF95
12.50	72.1	71.8	69.0
16	73.3	72.7	69.1
20	73.4	73.2	71.0
25	75.4	75.0	72.2
31.50	73.3	73.0	70.6
40	71.8	71.6	69.2
50	73.0	72.8	70.3
63	67.3	67.1	64.6
80	71.2	71.1	68.4
100	64.7	64.5	61.9
125	59.0	58.8	56.2
160	59.8	59.5	56.8
200	56.3	56.0	53.8
250	56.8	56.6	54.1
315	63.0	62.7	60.0
400	55.4	55.2	53.3
500	52.2	51.9	50.1
630	52.8	52.7	51.1
800	50.1	49.9	48.5
1000	49.2	49.1	48.0
1250	49.3	49.2	47.9
1600	52.3	52.0	49.6
2000	49.8	49.7	48.5
2500	50.1	50.0	49.1
3150	50.1	50.1	49.1
4000	48.6	48.5	47.2
5000	45.1	45.0	44.0
6300	41.7	41.6	40.4
8000	37.1	37.0	36.0
10000	30.2	30.1	28.7
12500	23.1	22.8	21.2
16000	---	---	---
20000	---	---	---
A	63.2	63.1	62.3
L	83.9	---	---

Punto	A5		
29/06/00 14.16.19 - 14.18.20			
Hz	LLeq	LLF50	LLF95
12.50	63.8	63.6	60.6
16	65.9	65.4	62.5
20	67.7	67.5	65.1
25	68.0	67.6	64.5
31.50	65.2	65.0	62.3
40	66.8	65.8	63.4
50	72.0	71.4	68.4
63	65.8	63.0	59.4
80	69.2	69.0	66.9
100	62.5	62.3	58.9
125	58.7	58.5	56.1
160	61.3	61.2	58.5
200	57.9	57.8	55.6
250	56.1	55.9	54.1
315	60.8	60.5	58.0
400	57.5	57.4	54.4
500	54.9	54.6	52.4
630	54.2	54.1	52.1
800	56.0	53.8	50.9
1000	52.9	51.6	49.3
1250	49.9	49.3	47.5
1600	58.4	57.9	54.3
2000	50.2	49.9	48.2
2500	46.9	46.3	44.7
3150	44.8	44.4	43.1
4000	43.0	42.8	41.2
5000	37.9	37.5	36.1
6300	33.7	33.0	31.4
8000	28.0	27.4	26.0
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	64.4	64.2	62.8
L	78.9	---	---

Punto	A6		
29/06/00 14.24.32 - 14.26.34			
Hz	LLeq	LLF50	LLF95
12.50	64.1	63.7	60.9
16	66.5	66.2	62.0
20	64.7	64.5	62.1
25	65.2	65.1	62.3
31.50	66.8	66.6	64.1
40	66.6	66.3	64.1
50	65.0	64.2	60.6
63	59.7	58.5	55.6
80	64.1	63.5	58.9
100	54.9	54.6	51.5
125	50.2	49.9	47.3
160	54.1	53.7	50.7
200	47.0	46.8	44.7
250	46.5	46.4	44.3
315	49.2	48.9	46.9
400	46.9	46.5	44.3
500	45.5	45.1	43.2
630	45.9	45.2	43.2
800	46.8	45.5	43.7
1000	46.0	44.8	43.1
1250	46.1	44.5	42.6
1600	49.7	49.1	45.8
2000	45.0	44.2	42.4
2500	44.6	43.9	42.3
3150	43.8	43.3	41.2
4000	41.0	40.1	38.3
5000	37.8	36.0	34.1
6300	34.4	31.4	28.4
8000	30.5	26.2	22.8
10000	25.4	21.8	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	57.0	56.5	55.1
L	77.0	---	---

Punto	A7		
29/06/00 14.28.33 - 14.30.34			
Hz	LLeq	LLF50	LLF95
12.50	67.7	67.3	64.4
16	74.6	74.4	71.2
20	68.0	67.8	65.8
25	69.1	68.8	66.2
31.50	66.0	65.7	63.2
40	65.0	64.7	62.4
50	65.5	65.1	62.2
63	60.6	60.3	57.8
80	66.7	66.5	62.2
100	55.4	55.0	52.3
125	50.9	50.7	48.2
160	60.0	59.7	56.6
200	49.1	49.0	47.0
250	48.9	48.7	46.2
315	53.2	52.8	50.1
400	47.9	47.7	45.8
500	47.6	47.4	45.6
630	47.7	47.6	46.1
800	46.1	46.1	44.6
1000	46.0	45.9	44.6
1250	46.0	45.9	44.6
1600	49.2	48.7	46.6
2000	45.7	45.6	44.4
2500	45.7	45.6	44.3
3150	45.0	44.9	43.8
4000	43.1	42.9	42.0
5000	40.1	40.0	38.7
6300	37.1	36.9	35.2
8000	33.1	33.0	30.9
10000	28.1	27.8	25.3
12500	22.1	22.1	---
16000	---	---	---
20000	---	---	---
A	58.1	58.0	57.2
L	80.0	---	---

Punto	A8		
29/06/00 14.34.14 - 14.36.15			
Hz	LLeq	LLF50	LLF95
12.50	68.9	68.6	66.1
16	71.8	71.6	68.1
20	71.1	71.0	68.8
25	71.5	71.2	68.3
31.50	70.0	69.7	67.2
40	68.5	68.4	66.2
50	69.0	68.7	66.0
63	65.1	64.9	62.1
80	68.4	68.2	64.8
100	60.0	59.5	56.2
125	55.1	54.1	51.1
160	57.9	56.6	52.7
200	53.7	51.7	49.1
250	55.3	55.0	52.1
315	58.3	58.0	55.3
400	54.4	54.3	52.3
500	51.7	51.6	49.3
630	52.9	52.8	51.1
800	52.4	52.2	50.8
1000	52.5	52.0	50.7
1250	51.1	51.1	50.0
1600	53.7	53.3	51.2
2000	52.9	52.8	51.1
2500	54.7	54.6	52.9
3150	54.7	54.5	52.8
4000	51.8	51.7	50.1
5000	48.5	48.4	46.9
6300	44.0	43.9	42.2
8000	37.3	37.2	35.5
10000	27.5	27.3	25.9
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	64.3	64.2	63.2
L	80.6	---	---

Punto	A9		
29/06/00 14.45.46 - 14.47.47			
Hz	LLeq	LLF50	LLF95
12.50	64.4	63.6	61.1
16	68.3	67.8	64.1
20	63.7	63.4	61.1
25	64.3	63.8	61.0
31.50	69.3	68.9	65.8
40	72.4	72.2	70.1
50	80.4	79.5	75.3
63	71.5	71.3	69.0
80	73.8	73.7	71.3
100	80.1	79.7	76.1
125	75.0	74.8	72.3
160	74.0	73.6	71.1
200	75.2	74.9	72.2
250	70.2	70.0	67.3
315	72.7	72.6	70.3
400	69.4	69.0	66.8
500	72.1	71.9	68.3
630	65.3	65.1	63.2
800	61.8	61.7	60.2
1000	59.8	59.7	58.5
1250	58.7	58.6	57.4
1600	58.1	58.1	57.1
2000	56.5	56.5	55.3
2500	54.7	54.4	53.2
3150	52.6	52.6	51.7
4000	50.5	50.5	49.3
5000	46.7	46.6	45.8
6300	43.1	43.0	42.1
8000	39.2	39.3	38.1
10000	35.5	35.5	34.3
12500	31.8	31.7	30.8
16000	27.2	27.1	26.1
20000	---	---	---
A	74.6	74.6	73.7
L	86.6	---	---

Punto	A10		
29/06/00 14.53.39 - 14.55.40			
Hz	LLeq	LLF50	LLF95
12.50	61.8	61.0	58.1
16	62.5	62.3	60.1
20	60.9	60.1	57.6
25	62.3	61.9	57.8
31.50	61.8	61.6	58.7
40	63.2	63.0	60.8
50	71.1	70.1	65.1
63	62.3	62.2	59.8
80	65.9	65.6	63.2
100	69.2	68.8	65.5
125	64.1	63.9	61.3
160	63.3	63.0	60.4
200	62.9	62.6	59.9
250	58.4	58.2	56.2
315	62.0	61.1	57.3
400	56.9	56.5	54.1
500	58.6	58.3	54.9
630	53.2	53.0	51.2
800	50.3	50.2	48.8
1000	49.3	49.3	47.8
1250	48.8	48.7	47.4
1600	50.6	50.4	49.0
2000	51.0	50.8	49.0
2500	53.1	52.8	50.7
3150	54.1	53.7	51.4
4000	51.3	51.1	49.1
5000	48.9	48.7	46.5
6300	43.6	43.4	41.2
8000	37.1	37.0	35.0
10000	27.2	27.0	25.1
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	64.7	64.6	63.3
L	77.9	---	---

Punto	A11		
29/06/00 15.03.22 - 15.05.34			
Hz	LLeq	LLF50	LLF95
12.50	62.6	59.8	56.2
16	61.7	60.3	56.0
20	59.6	58.8	55.4
25	59.0	58.2	55.3
31.50	57.4	56.7	53.8
40	59.2	59.0	57.1
50	67.5	66.7	63.1
63	54.3	54.0	52.0
80	56.9	56.6	53.7
100	56.0	55.3	52.0
125	50.1	49.9	47.6
160	52.3	52.0	49.4
200	50.2	50.0	47.5
250	49.2	49.1	47.0
315	52.3	52.0	49.4
400	49.8	49.5	47.5
500	51.6	50.6	47.6
630	48.2	47.8	45.9
800	46.2	45.3	43.5
1000	45.5	44.4	43.0
1250	44.3	44.1	42.5
1600	44.9	44.8	43.1
2000	45.3	45.2	43.3
2500	46.9	46.6	44.3
3150	47.6	47.2	44.6
4000	45.0	44.6	42.2
5000	40.9	40.6	37.9
6300	34.7	34.4	31.5
8000	27.5	27.2	25.2
10000	---	---	---
12500	---	---	---
16000	---	---	---
20000	---	---	---
A	57.8	57.5	56.6
L	74.6	---	---

Punto	A12		
29/06/00 15.21.47 - 15.22.48			
Hz	LLeq	LLF50	LLF95
12.50	54.1	53.8	51.5
16	57.8	57.8	55.1
20	52.2	52.0	50.0
25	51.1	50.8	47.7
31.50	54.3	54.1	51.4
40	55.8	55.6	53.1
50	60.7	60.0	55.7
63	51.3	51.2	49.0
80	60.1	59.8	56.9
100	71.6	71.5	71.0
125	53.6	53.6	52.6
160	53.3	53.1	50.5
200	59.8	59.8	59.0
250	61.8	61.6	61.1
315	75.7	75.6	75.1
400	72.2	72.4	71.3
500	62.2	62.2	61.1
630	62.9	63.1	61.3
800	51.6	51.6	50.5
1000	53.5	53.5	52.1
1250	49.4	49.3	46.7
1600	48.1	48.2	46.3
2000	51.7	51.5	50.1
2500	47.0	46.9	46.0
3150	45.8	45.6	43.7
4000	41.5	41.4	40.2
5000	38.1	38.1	37.1
6300	34.7	34.6	33.7
8000	29.9	29.8	29.0
10000	25.0	24.9	24.1
12500	21.9	21.7	21.0
16000	---	---	---
20000	---	---	---
A	72.0	72.0	71.8
L	79.0	---	---

Punto	A13		
29/06/00 15.23.45 - 15.24.46			
Hz	LLeq	LLF50	LLF95
12.50	59.0	57.0	52.0
16	58.8	58.3	55.4
20	56.7	55.7	52.8
25	54.7	54.3	51.3
31.50	53.5	53.2	49.7
40	54.0	54.0	51.7
50	61.5	60.8	55.2
63	50.6	50.4	48.3
80	62.7	62.4	58.0
100	71.9	71.8	71.1
125	53.7	53.7	52.5
160	51.9	51.7	49.0
200	52.5	52.2	49.8
250	50.4	50.4	49.1
315	63.7	63.6	62.3
400	63.2	63.2	62.0
500	49.9	49.9	48.3
630	56.1	55.8	53.6
800	46.2	46.2	44.0
1000	45.7	45.4	43.3
1250	45.7	45.4	43.4
1600	43.7	43.6	42.1
2000	44.2	44.2	42.6
2500	43.2	43.2	41.3
3150	44.3	44.1	42.0
4000	41.2	41.2	40.0
5000	35.9	35.7	34.4
6300	31.8	31.7	30.2
8000	27.3	27.3	26.1
10000	23.8	23.6	22.4
12500	21.7	21.5	---
16000	---	---	---
20000	---	---	---
A	62.9	62.8	62.3
L	76.0	---	---

Punto	A14		
29/06/00 17.02.32 - 17.04.33			
Hz	LLeq	LLF50	LLF95
12.50	54.2	53.3	50.5
16	58.0	57.7	55.0
20	54.2	53.8	51.8
25	53.3	52.9	49.9
31.50	54.0	53.8	51.3
40	56.0	55.8	53.1
50	62.3	61.8	58.6
63	54.8	53.0	50.0
80	60.3	59.7	56.1
100	66.3	66.2	65.0
125	50.2	50.1	48.6
160	52.5	52.3	49.0
200	63.2	63.2	60.7
250	59.1	59.0	58.1
315	72.9	72.8	72.0
400	62.3	62.0	58.4
500	55.3	55.3	53.3
630	54.4	54.3	51.3
800	48.5	48.4	46.5
1000	42.9	42.7	41.2
1250	45.4	45.2	44.0
1600	41.7	41.6	40.2
2000	40.7	40.5	39.0
2500	41.2	40.9	39.3
3150	42.1	41.9	40.2
4000	38.8	38.6	37.3
5000	36.5	36.4	35.1
6300	34.8	34.6	33.3
8000	33.6	33.5	32.3
10000	33.1	33.0	32.0
12500	32.4	32.1	31.0
16000	31.5	31.3	29.5
20000	27.0	26.6	25.1
A	67.1	67.2	66.6
L	75.5	---	---

Punto	A15		
29/06/00 17.04.58 - 17.06.59			
Hz	LLeq	LLF50	LLF95
12.50	58.2	57.0	52.2
16	58.9	58.6	54.4
20	55.3	54.7	52.1
25	55.8	55.5	51.9
31.50	54.3	54.0	51.4
40	57.2	57.0	55.0
50	62.5	61.9	58.8
63	52.2	51.9	49.7
80	59.6	58.9	55.1
100	56.8	56.7	52.9
125	47.9	47.6	45.2
160	51.9	51.8	49.0
200	53.5	53.5	51.0
250	50.0	50.1	48.3
315	63.5	63.5	61.5
400	60.9	60.9	58.6
500	49.4	49.1	46.8
630	49.3	48.6	44.1
800	45.7	45.4	43.6
1000	41.2	41.1	39.2
1250	39.5	39.3	37.4
1600	39.1	38.8	37.3
2000	39.5	39.4	37.8
2500	40.3	40.1	38.2
3150	40.9	40.7	38.8
4000	37.3	37.1	35.4
5000	34.9	34.6	33.1
6300	32.9	32.8	31.3
8000	32.7	32.6	31.2
10000	32.4	32.3	31.1
12500	32.0	31.6	30.2
16000	30.6	29.9	28.3
20000	27.1	26.1	24.3
A	60.4	60.4	59.2
L	72.6	---	---

Punto	A16		
29/06/00 17.08.02 - 17.10.03			
Hz	LLeq	LLF50	LLF95
12.50	53.6	53.0	49.6
16	55.4	55.1	52.2
20	52.5	52.2	50.1
25	53.6	53.4	50.4
31.50	55.2	54.9	52.4
40	57.5	57.2	54.4
50	64.1	63.2	58.8
63	54.5	53.9	51.5
80	65.0	64.7	60.9
100	66.2	66.2	65.0
125	50.3	50.2	48.6
160	51.7	51.0	47.3
200	61.6	61.8	59.1
250	53.6	53.6	52.5
315	67.2	67.2	66.1
400	74.7	74.5	73.0
500	57.1	57.2	56.1
630	50.7	48.8	45.2
800	48.5	48.4	47.1
1000	49.8	49.7	49.0
1250	42.3	41.9	40.3
1600	45.7	45.7	44.2
2000	45.5	45.4	44.2
2500	43.7	43.7	41.4
3150	42.5	42.3	40.6
4000	39.3	39.3	37.5
5000	37.6	37.5	36.2
6300	34.6	34.6	33.3
8000	32.4	32.4	31.1
10000	32.4	32.2	30.4
12500	32.0	31.8	30.0
16000	29.5	29.4	27.5
20000	24.6	24.5	22.6
A	70.6	70.5	69.2
L	77.1	---	---

Punto	A17		
29/06/00 17.10.30 - 17.12.31			
Hz	LLeq	LLF50	LLF95
12.50	52.5	52.2	49.2
16	55.4	55.1	52.1
20	54.0	53.6	51.3
25	53.6	53.0	50.3
31.50	55.5	55.2	52.5
40	57.6	57.2	55.2
50	63.0	62.2	57.5
63	52.1	51.6	49.4
80	62.1	61.8	58.0
100	66.7	66.6	65.3
125	50.7	50.4	49.0
160	52.0	51.6	48.2
200	57.0	57.0	56.0
250	44.1	43.9	42.3
315	50.7	50.2	48.4
400	68.3	68.3	66.5
500	52.9	53.0	51.1
630	54.0	54.1	50.6
800	44.9	44.8	43.4
1000	46.0	46.0	45.1
1250	43.9	43.9	42.0
1600	38.6	38.4	36.8
2000	38.8	38.5	37.1
2500	40.2	39.9	38.0
3150	40.9	40.7	38.6
4000	37.0	36.9	35.3
5000	34.1	33.9	32.3
6300	30.6	30.5	29.1
8000	28.9	28.7	27.2
10000	29.0	28.6	27.1
12500	28.9	28.5	27.0
16000	27.6	27.1	25.1
20000	23.7	23.1	21.0
A	64.4	64.5	63.1
L	72.9	---	---

Punto	A18		
29/06/00 17.13.10 - 17.15.11			
Hz	LLeq	LLF50	LLF95
12.50	54.4	53.8	51.0
16	57.8	57.7	54.1
20	53.9	53.6	51.5
25	54.0	53.6	50.6
31.50	56.3	56.0	53.2
40	58.4	58.2	55.5
50	61.6	60.8	57.2
63	50.6	50.3	48.2
80	62.2	61.9	57.9
100	67.6	67.5	66.1
125	51.2	51.2	49.5
160	54.6	54.5	49.1
200	60.8	60.7	58.4
250	53.9	53.9	53.0
315	67.3	67.3	66.1
400	71.6	71.7	70.1
500	56.1	56.1	55.1
630	63.2	63.1	61.5
800	43.9	43.7	42.4
1000	45.5	45.4	44.1
1250	42.5	42.3	41.0
1600	40.1	40.0	38.5
2000	39.6	39.5	38.0
2500	41.2	40.8	39.2
3150	41.5	41.0	39.3
4000	37.0	36.6	35.2
5000	33.8	33.4	32.0
6300	33.2	32.5	30.7
8000	32.9	32.5	30.7
10000	31.1	30.7	28.7
12500	30.4	30.1	28.1
16000	28.0	27.6	25.6
20000	23.4	23.1	21.3
A	68.8	68.9	67.9
L	75.7	---	---

Punto	A19		
29/06/00 17.15.53 - 17.17.54			
Hz	LLeq	LLF50	LLF95
12.50	54.2	53.1	50.1
16	58.3	58.2	55.3
20	54.1	53.5	51.2
25	54.5	54.0	51.2
31.50	55.5	55.0	52.5
40	59.0	58.7	56.2
50	64.2	63.7	60.4
63	54.1	53.0	50.7
80	60.1	59.9	56.4
100	65.8	65.7	64.2
125	51.3	50.6	49.1
160	55.5	55.5	51.2
200	57.5	57.3	55.8
250	46.8	46.6	45.2
315	57.8	57.7	55.5
400	65.2	65.2	64.1
500	52.5	52.4	51.0
630	54.1	54.1	52.6
800	43.7	43.6	42.2
1000	43.1	43.1	42.0
1250	39.6	39.4	37.6
1600	38.7	38.4	36.3
2000	39.4	39.0	36.9
2500	39.8	39.2	37.2
3150	40.6	40.1	38.0
4000	37.3	36.5	34.9
5000	34.6	34.2	32.4
6300	32.5	32.1	30.1
8000	30.3	29.3	27.3
10000	30.1	29.7	27.8
12500	30.2	29.8	27.1
16000	28.4	27.7	25.0
20000	23.1	22.4	---
A	62.3	62.2	61.6
L	72.8	---	---