

APPENDIX B 1/3-Octave spectra

From the 18 noise samples of the data-base the 1/3-octave spectrum was measured with a spectrum analyzer (Rhode and Schwarz, type FAR). This analyzer performs a 1/3-octave band analysis from the 1/3-octave band with centre frequency 80 Hz to the 1/3-octave band with centre frequency 10 kHz. The analyzer was used on fast response which is comparable with a time constant of about 100 ms. Five seconds of each noise sample was analyzed and for each 100 ms interval a 1/3-octave spectrum was measured, hence fifty 1/3-octave spectra were obtained. From these spectra the equivalent level (L_{eq} based on the power average), and the average level together with the standard deviation (of the fifty dB-values) was calculated for each 1/3-octave band and for the A-weighted and linear channel. The linear channel accounts for the wide-band signal level while the A-weighted channel includes a spectral weighting related with auditory perception. For each channel an amplitude-distribution histogram was generated, based on the 50 samples. From these histograms the L_{10} and L_{90} levels were obtained (L_{10} is the level that is exceeded during 10% of the time and similarly L_{90} is the level exceeded 90% of the time). The difference $L_{10}-L_{90}$ is a measure for the level fluctuations.

The 1/3-octave spectra of the noises and of the calibration signals as given in Table II are given below. The levels are expressed in dB *re* the reference signal number 1. Because of limitations of the measuring equipment the 1/3-octave levels are -47 dB minimal.

No. 1 Sinusoid 1000 Hz

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-47.0	-47.0	0.0	-47	-47	0
100 Hz	-47.0	-47.0	0.0	-47	-47	0
125 Hz	-47.0	-47.0	0.0	-47	-47	0
160 Hz	-47.0	-47.0	0.0	-47	-47	0
200 Hz	-47.0	-47.0	0.0	-47	-47	0
250 Hz	-47.0	-47.0	0.0	-47	-47	0
315 Hz	-47.0	-47.0	0.0	-47	-47	0
400 Hz	-47.0	-47.0	0.0	-47	-47	0
500 Hz	-47.0	-47.0	0.0	-47	-47	0
630 Hz	-40.0	-40.0	0.1	-40	-40	0
800 Hz	-19.1	-19.1	0.1	-19	-19	0
1 kHz	-0.2	-0.2	0.1	0	0	0
1.25 kHz	-18.2	-18.2	0.0	-18	-18	0
1.6 kHz	-41.0	-41.0	0.0	-41	-41	0
2 kHz	-47.0	-47.0	0.0	-47	-47	0
2.5 kHz	-47.0	-47.0	0.0	-47	-47	0
3.15 kHz	-47.0	-47.0	0.0	-47	-47	0
4 kHz	-47.0	-47.0	0.0	-47	-47	0
5 kHz	-47.0	-47.0	0.0	-47	-47	0
6.3 kHz	-47.0	-47.0	0.0	-47	-47	0
8 kHz	-47.0	-47.0	0.0	-47	-47	0
10 kHz	-47.0	-47.0	0.0	-47	-47	0
A	-0.2	-0.2	0.1	0	0	0
Lin	-0.0	-0.0	0.0	0	0	0

No. 2 Pink noise

Freq	L _{eq}	L _{avg}	σ	L ₉₀	L ₁₀	L ₁₀₋₉₀
80 Hz	-22.9	-23.3	1.9	-26	-21	5
100 Hz	-22.6	-22.9	1.8	-25	-20	5
125 Hz	-23.5	-23.7	1.3	-25	-22	3
160 Hz	-23.0	-23.3	1.6	-25	-21	4
200 Hz	-22.8	-23.1	1.5	-25	-21	4
250 Hz	-22.5	-22.8	1.3	-24	-20	4
315 Hz	-22.9	-23.0	1.1	-24	-21	3
400 Hz	-22.5	-22.6	1.2	-24	-21	3
500 Hz	-22.9	-23.0	0.9	-24	-22	2
630 Hz	-22.4	-22.6	1.1	-24	-21	3
800 Hz	-22.2	-22.3	0.6	-23	-21	2
1 kHz	-22.6	-22.6	0.6	-23	-22	1
1.25 kHz	-22.6	-22.7	0.6	-23	-22	1
1.6 kHz	-22.8	-22.8	0.5	-23	-22	1
2 kHz	-22.8	-22.8	0.4	-23	-22	1
2.5 kHz	-22.7	-22.7	0.4	-23	-22	1
3.15 kHz	-22.7	-22.7	0.5	-23	-22	1
4 kHz	-22.7	-22.7	0.4	-23	-22	1
5 kHz	-22.5	-22.5	0.3	-23	-22	1
6.3 kHz	-22.5	-22.5	0.3	-23	-22	1
8 kHz	-22.3	-22.3	0.2	-23	-22	1
10 kHz	-22.2	-22.2	0.2	-22	-22	0
A	-10.8	-10.8	0.1	-11	-11	0
Lin	-8.1	-8.1	0.3	-9	-8	1

No. 3 White noise

Freq	L _{eq}	L _{avg}	σ	L ₉₀	L ₁₀	L ₁₀₋₉₀
80 Hz	-39.7	-40.4	2.6	-43	-37	6
100 Hz	-38.4	-38.8	1.7	-41	-36	5
125 Hz	-37.3	-37.7	1.8	-40	-35	5
160 Hz	-36.6	-36.9	1.8	-40	-35	5
200 Hz	-35.4	-35.7	1.5	-37	-33	4
250 Hz	-33.5	-33.7	1.3	-35	-32	3
315 Hz	-33.0	-33.1	1.0	-34	-32	2
400 Hz	-31.6	-31.8	1.1	-33	-30	3
500 Hz	-30.8	-30.9	1.0	-32	-30	2
630 Hz	-29.4	-29.4	0.8	-30	-28	2
800 Hz	-28.4	-28.4	0.7	-29	-27	2
1 kHz	-27.5	-27.5	0.7	-28	-27	1
1.25 kHz	-26.4	-26.5	0.7	-27	-26	1
1.6 kHz	-25.5	-25.5	0.6	-26	-25	1
2 kHz	-24.5	-24.5	0.4	-25	-24	1
2.5 kHz	-23.4	-23.4	0.5	-24	-23	1
3.15 kHz	-22.2	-22.2	0.3	-23	-22	1
4 kHz	-21.3	-21.3	0.3	-22	-21	1
5 kHz	-20.1	-20.1	0.3	-20	-20	0
6.3 kHz	-19.1	-19.1	0.3	-19	-19	0
8 kHz	-17.9	-17.9	0.2	-18	-18	0
10 kHz	-16.9	-16.9	0.2	-17	-17	0
A	-10.0	-10.0	0.1	-10	-10	0
Lin	-8.7	-8.7	0.1	-9	-9	0

No. 4 White noise, -6 dB/oct. 250 Hz

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-25.2	-25.7	2.1	-29	-23	6
100 Hz	-24.0	-24.3	1.7	-27	-22	5
125 Hz	-22.7	-23.0	1.5	-25	-20	5
160 Hz	-22.0	-22.2	1.5	-24	-20	4
200 Hz	-21.8	-22.1	1.6	-24	-20	4
250 Hz	-22.1	-22.3	1.2	-23	-20	3
315 Hz	-21.9	-22.1	1.1	-24	-21	3
400 Hz	-22.1	-22.2	1.0	-23	-21	2
500 Hz	-22.7	-22.8	1.0	-24	-21	3
630 Hz	-22.9	-23.0	0.8	-24	-22	2
800 Hz	-24.0	-24.1	0.8	-25	-23	2
1 kHz	-24.8	-24.8	0.6	-26	-24	2
1.25 kHz	-25.9	-25.9	0.6	-27	-25	2
1.6 kHz	-26.8	-26.8	0.6	-27	-26	1
2 kHz	-27.9	-27.9	0.4	-29	-27	2
2.5 kHz	-28.8	-28.9	0.5	-29	-28	1
3.15 kHz	-29.9	-29.9	0.4	-30	-29	1
4 kHz	-30.9	-30.9	0.3	-31	-31	0
5 kHz	-31.6	-31.6	0.4	-32	-31	1
6.3 kHz	-32.6	-32.6	0.3	-33	-32	1
8 kHz	-33.6	-33.6	0.3	-34	-33	1
10 kHz	-34.3	-34.3	0.3	-35	-34	1
A	-15.0	-15.0	0.2	-15	-15	0
Lin	-10.7	-10.7	0.4	-11	-10	1

No. 5 White noise, -12 dB/oct. 250 Hz

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-20.2	-20.7	2.3	-23	-18	5
100 Hz	-18.2	-18.6	1.9	-21	-16	5
125 Hz	-18.5	-18.8	1.6	-21	-16	5
160 Hz	-18.5	-18.8	1.6	-21	-17	4
200 Hz	-18.4	-18.6	1.5	-20	-17	3
250 Hz	-19.4	-19.7	1.4	-21	-18	3
315 Hz	-20.2	-20.4	1.3	-22	-19	3
400 Hz	-21.4	-21.5	1.0	-23	-20	3
500 Hz	-24.1	-24.2	0.9	-25	-23	2
630 Hz	-25.7	-25.8	0.8	-27	-25	2
800 Hz	-28.5	-28.5	0.7	-29	-28	1
1 kHz	-31.1	-31.1	0.6	-32	-30	2
1.25 kHz	-34.1	-34.1	0.7	-35	-33	2
1.6 kHz	-37.1	-37.2	0.6	-38	-36	2
2 kHz	-40.1	-40.1	0.5	-41	-40	1
2.5 kHz	-42.6	-42.7	0.4	-43	-42	1
3.15 kHz	-45.6	-45.7	0.4	-46	-45	1
4 kHz	-47.0	-47.0	0.0	-47	-47	0
5 kHz	-47.0	-47.0	0.0	-47	-47	0
6.3 kHz	-47.0	-47.0	0.0	-47	-47	0
8 kHz	-47.0	-47.0	0.0	-47	-47	0
10 kHz	-47.0	-47.0	0.0	-47	-47	0
A	-18.5	-18.5	0.3	-19	-18	1
Lin	-9.0	-9.1	0.6	-10	-8	2

No. 6 Speech noise

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-22.6	-23.1	2.1	-25	-21	4
100 Hz	-21.0	-21.5	2.2	-25	-19	6
125 Hz	-19.1	-19.4	1.8	-22	-17	5
160 Hz	-18.1	-18.4	1.6	-20	-16	4
200 Hz	-17.0	-17.3	1.5	-19	-15	4
250 Hz	-16.2	-16.4	1.4	-19	-15	4
315 Hz	-16.1	-16.3	1.1	-18	-15	3
400 Hz	-16.5	-16.6	1.0	-18	-16	2
500 Hz	-17.2	-17.3	1.1	-19	-16	3
630 Hz	-17.8	-17.9	0.9	-19	-17	2
800 Hz	-19.1	-19.2	0.8	-20	-18	2
1 kHz	-20.9	-21.0	0.8	-22	-20	2
1.25 kHz	-22.7	-22.7	0.8	-24	-21	3
1.6 kHz	-24.6	-24.7	0.6	-25	-24	1
2 kHz	-26.9	-26.9	0.4	-27	-26	1
2.5 kHz	-28.7	-28.7	0.4	-29	-28	1
3.15 kHz	-30.6	-30.7	0.4	-31	-30	1
4 kHz	-32.8	-32.8	0.3	-33	-32	1
5 kHz	-34.4	-34.4	0.3	-35	-34	1
6.3 kHz	-36.5	-36.5	0.3	-37	-36	1
8 kHz	-38.5	-38.5	0.2	-39	-38	1
10 kHz	-40.4	-40.4	0.2	-41	-40	1
A	-11.5	-11.5	0.3	-12	-11	1
Lin	-6.9	-6.9	0.4	-7	-6	1

No. 7 M 109, 30 km/h

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-9.2	-9.9	2.6	-13	-6	7
100 Hz	-13.2	-13.7	2.2	-16	-11	5
125 Hz	-21.9	-22.2	1.6	-24	-20	4
160 Hz	-19.3	-19.6	1.7	-21	-17	4
200 Hz	-12.2	-12.4	1.4	-14	-11	3
250 Hz	-12.2	-12.4	1.4	-14	-11	3
315 Hz	-10.8	-11.0	1.4	-13	-9	4
400 Hz	-13.9	-14.1	1.3	-16	-13	3
500 Hz	-15.9	-16.1	1.2	-17	-14	3
630 Hz	-13.1	-13.3	1.3	-15	-12	3
800 Hz	-20.5	-20.6	0.9	-22	-19	3
1 kHz	-20.7	-20.7	0.8	-22	-20	2
1.25 kHz	-20.7	-20.8	0.8	-22	-20	2
1.6 kHz	-22.2	-22.3	0.9	-23	-21	2
2 kHz	-23.9	-24.0	0.8	-25	-23	2
2.5 kHz	-25.7	-25.8	0.9	-27	-25	2
3.15 kHz	-27.5	-27.5	0.7	-28	-27	1
4 kHz	-25.7	-25.8	0.8	-27	-25	2
5 kHz	-21.9	-22.1	1.0	-23	-21	2
6.3 kHz	-24.1	-24.2	1.2	-26	-23	3
8 kHz	-24.2	-24.4	1.2	-26	-23	3
10 kHz	-22.3	-22.6	1.6	-25	-21	4
A	-8.2	-8.2	0.4	-9	-8	1
Lin	0.2	0.1	0.9	-1	1	2

No. 8 Buccaneer, 190 Knots 1000 Feet

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-11.7	-12.4	2.4	-16	-9	7
100 Hz	-12.2	-12.5	1.7	-15	-10	5
125 Hz	-15.6	-16.0	1.9	-18	-14	4
160 Hz	-19.3	-19.7	1.9	-22	-17	5
200 Hz	-12.2	-12.4	1.4	-14	-11	3
250 Hz	-15.2	-15.4	1.2	-17	-14	3
315 Hz	-16.3	-16.4	1.1	-18	-15	3
400 Hz	-14.8	-14.9	1.2	-16	-13	3
500 Hz	-16.3	-16.4	1.1	-18	-15	3
630 Hz	-15.8	-15.9	0.8	-17	-15	2
800 Hz	-12.2	-12.3	0.9	-13	-11	2
1 kHz	-10.2	-10.3	0.7	-11	-9	2
1.25 kHz	-11.0	-11.0	0.7	-12	-10	2
1.6 kHz	-14.1	-14.2	0.7	-15	-13	2
2 kHz	-15.1	-15.1	0.5	-16	-14	2
2.5 kHz	-10.8	-10.8	0.5	-11	-10	1
3.15 kHz	-14.8	-14.9	0.9	-16	-14	2
4 kHz	-17.0	-17.0	0.4	-17	-16	1
5 kHz	-15.9	-15.9	0.5	-16	-15	1
6.3 kHz	-17.2	-17.2	0.5	-18	-17	1
8 kHz	-19.8	-19.9	0.4	-20	-19	1
10 kHz	-22.7	-22.8	0.4	-23	-22	1
A	-2.5	-2.5	0.2	-3	-2	1
Lin	-0.9	-0.9	0.3	-1	0	1

No. 9 Leopard 2, 70 km/h

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-12.6	-13.0	2.0	-16	-10	6
100 Hz	-5.3	-6.2	3.0	-10	-2	8
125 Hz	-5.9	-6.5	2.4	-10	-3	7
160 Hz	-6.5	-6.8	1.6	-9	-5	4
200 Hz	-0.8	-3.2	9.3	-6	2	8
250 Hz	-7.7	-8.0	1.6	-10	-6	4
315 Hz	-12.2	-12.5	1.6	-14	-10	4
400 Hz	-13.5	-14.0	2.0	-17	-11	6
500 Hz	-16.7	-16.9	1.3	-19	-15	4
630 Hz	-20.1	-20.4	1.6	-22	-18	4
800 Hz	-24.4	-24.6	1.4	-26	-22	4
1 kHz	-27.5	-27.7	1.1	-29	-26	3
1.25 kHz	-30.7	-30.8	1.2	-32	-29	3
1.6 kHz	-33.5	-33.7	1.2	-35	-32	3
2 kHz	-33.2	-33.3	1.1	-35	-32	3
2.5 kHz	-34.0	-34.1	0.9	-35	-33	2
3.15 kHz	-34.0	-34.1	0.8	-35	-33	2
4 kHz	-37.1	-37.2	0.8	-38	-36	2
5 kHz	-41.3	-41.4	0.9	-43	-40	3
6.3 kHz	-44.0	-44.1	1.1	-45	-43	2
8 kHz	-45.4	-45.5	1.0	-47	-44	3
10 kHz	-47.0	-47.0	0.2	-47	-47	0
A	-7.7	-8.0	1.5	-10	-6	4
Lin	2.2	2.0	1.1	0	3	3

No. 10 Wheel carrier, 50-60 km/h

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-7.0	-7.5	1.9	-10	-4	6
100 Hz	-14.7	-15.2	2.0	-18	-12	6
125 Hz	-20.5	-20.8	1.8	-23	-19	4
160 Hz	-18.4	-19.0	2.2	-22	-15	7
200 Hz	-15.4	-15.6	1.3	-17	-14	3
250 Hz	-17.0	-17.3	1.6	-19	-15	4
315 Hz	-15.0	-15.3	1.5	-17	-13	4
400 Hz	-18.9	-19.2	1.4	-21	-17	4
500 Hz	-17.7	-17.8	1.1	-19	-16	3
630 Hz	-19.1	-19.1	0.9	-20	-18	2
800 Hz	-19.3	-19.4	0.9	-21	-18	3
1 kHz	-14.1	-14.2	1.1	-16	-13	3
1.25 kHz	-14.0	-14.5	2.0	-17	-12	5
1.6 kHz	-19.1	-19.1	0.4	-20	-19	1
2 kHz	-21.5	-21.6	0.8	-23	-20	3
2.5 kHz	-24.8	-24.8	0.6	-25	-24	1
3.15 kHz	-26.4	-26.4	0.6	-27	-26	1
4 kHz	-31.3	-31.4	0.5	-32	-31	1
5 kHz	-32.2	-32.2	0.5	-33	-32	1
6.3 kHz	-31.9	-32.0	0.9	-33	-30	3
8 kHz	-35.5	-35.5	0.4	-36	-35	1
10 kHz	-36.4	-36.4	0.3	-37	-36	1
A	-8.6	-8.6	0.6	-9	-8	1
Lin	0.7	0.6	1.0	-1	2	3

No. 11 Buccaneer, 450 Knots 300 Feet

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-22.2	-22.9	2.3	-25	-19	6
100 Hz	-18.9	-19.5	2.3	-22	-17	5
125 Hz	-22.8	-23.5	2.6	-27	-20	7
160 Hz	-23.4	-23.8	1.9	-26	-21	5
200 Hz	-18.6	-18.9	1.6	-21	-17	4
250 Hz	-13.8	-14.1	1.6	-16	-12	4
315 Hz	-14.7	-14.8	1.2	-16	-13	3
400 Hz	-17.6	-17.7	1.1	-19	-16	3
500 Hz	-18.9	-19.1	1.2	-21	-17	4
630 Hz	-19.2	-19.3	0.9	-20	-18	2
800 Hz	-20.2	-20.2	0.7	-21	-19	2
1 kHz	-19.3	-19.4	0.8	-20	-18	2
1.25 kHz	-19.3	-19.4	0.7	-20	-19	1
1.6 kHz	-19.4	-19.5	0.7	-20	-19	1
2 kHz	-17.5	-17.6	0.6	-18	-17	1
2.5 kHz	-15.8	-15.8	0.5	-16	-15	1
3.15 kHz	-13.0	-13.1	0.7	-14	-12	2
4 kHz	-11.9	-12.0	0.4	-13	-11	2
5 kHz	-9.6	-9.6	0.3	-10	-9	1
6.3 kHz	-10.2	-10.2	0.4	-11	-10	1
8 kHz	-13.5	-13.5	0.3	-14	-13	1
10 kHz	-15.9	-16.0	0.3	-16	-16	0
A	-2.9	-2.9	0.2	-3	-3	0
Lin	-2.2	-2.2	0.2	-2	-2	0

No. 12 Lynx, on platform

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-14.0	-14.3	1.7	-16	-12	4
100 Hz	-10.8	-11.2	1.8	-13	-9	4
125 Hz	-6.1	-6.3	1.2	-8	-4	4
160 Hz	-12.8	-12.9	1.2	-15	-11	4
200 Hz	-13.2	-13.5	1.6	-15	-11	4
250 Hz	-13.2	-13.4	1.3	-15	-12	3
315 Hz	-15.5	-15.7	1.1	-17	-14	3
400 Hz	-13.6	-13.7	0.9	-15	-12	3
500 Hz	-7.5	-7.7	1.2	-9	-6	3
630 Hz	-16.3	-16.3	0.8	-17	-15	2
800 Hz	-11.2	-11.3	0.6	-12	-11	1
1 kHz	-12.4	-12.5	0.7	-13	-11	2
1.25 kHz	-16.2	-16.2	0.6	-17	-16	1
1.6 kHz	-15.8	-15.9	0.9	-17	-15	2
2 kHz	-14.8	-14.9	0.9	-16	-14	2
2.5 kHz	-17.9	-18.0	0.9	-19	-17	2
3.15 kHz	-22.9	-22.9	0.4	-23	-22	1
4 kHz	-26.8	-26.8	0.3	-27	-26	1
5 kHz	-27.3	-27.4	0.8	-28	-26	2
6.3 kHz	-32.8	-32.8	0.4	-33	-32	1
8 kHz	-36.6	-36.6	0.3	-37	-36	1
10 kHz	-39.7	-39.7	0.3	-40	-39	1
A	-4.2	-4.2	0.3	-5	-4	1
Lin	1.6	1.6	0.5	1	2	1

No. 13 Leopard 1, 70 km/h

Freq	L _{eq}	L _{avg}	σ	L ₉₀	L ₁₀	L ₁₀₋₉₀
80 Hz	-11.3	-11.8	2.2	-15	-9	6
100 Hz	-12.4	-13.0	2.2	-16	-9	7
125 Hz	-8.0	-8.6	2.4	-12	-5	7
160 Hz	-11.5	-11.9	2.0	-15	-9	6
200 Hz	-2.8	-3.4	2.2	-6	-1	5
250 Hz	-8.5	-8.8	1.5	-11	-7	4
315 Hz	-15.5	-15.9	1.8	-18	-13	5
400 Hz	-18.3	-18.5	1.5	-20	-16	4
500 Hz	-20.2	-20.4	1.6	-23	-19	4
630 Hz	-20.0	-20.3	1.7	-22	-18	4
800 Hz	-21.5	-21.8	1.6	-23	-20	3
1 kHz	-22.9	-23.2	1.6	-25	-21	4
1.25 kHz	-25.4	-25.6	1.5	-28	-24	4
1.6 kHz	-25.3	-25.6	1.6	-27	-23	4
2 kHz	-25.3	-25.5	1.5	-27	-24	3
2.5 kHz	-25.8	-26.1	1.5	-28	-24	4
3.15 kHz	-26.5	-26.8	1.6	-29	-24	5
4 kHz	-27.4	-27.7	1.6	-29	-26	3
5 kHz	-28.9	-29.2	1.6	-31	-27	4
6.3 kHz	-31.6	-31.9	1.6	-34	-29	5
8 kHz	-32.6	-32.9	1.6	-35	-31	4
10 kHz	-34.8	-35.1	1.6	-37	-33	4
A	-9.1	-9.3	1.0	-10	-8	2
Lin	2.0	1.9	0.9	1	3	2

No. 14 Operation room of destroyer

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-13.4	-13.9	2.2	-17	-11	6
100 Hz	-15.5	-15.8	1.9	-18	-13	5
125 Hz	-16.0	-16.5	2.1	-20	-14	6
160 Hz	-14.6	-15.0	1.9	-17	-13	4
200 Hz	-11.0	-11.1	0.9	-12	-10	2
250 Hz	- 5.2	- 5.3	0.9	- 6	- 4	2
315 Hz	-13.7	-13.9	1.1	-15	-12	3
400 Hz	-14.8	-15.0	1.1	-16	-13	3
500 Hz	-15.8	-16.1	1.7	-18	-13	5
630 Hz	-12.6	-13.3	2.3	-16	-10	6
800 Hz	-16.1	-16.6	1.9	-19	-14	5
1 kHz	-18.4	-18.5	0.9	-19	-17	2
1.25 kHz	-20.3	-20.4	1.1	-22	-19	3
1.6 kHz	-20.8	-21.2	1.6	-23	-20	3
2 kHz	-23.0	-23.1	0.7	-24	-22	2
2.5 kHz	-21.8	-21.8	0.7	-23	-21	2
3.15 kHz	-21.0	-21.0	0.8	-22	-20	2
4 kHz	-20.3	-20.4	0.8	-21	-19	2
5 kHz	-19.4	-19.4	0.7	-20	-19	1
6.3 kHz	-18.7	-18.7	0.5	-19	-18	1
8 kHz	-20.3	-20.4	0.6	-21	-20	1
10 kHz	-24.7	-24.8	0.7	-25	-24	1
A	- 6.4	- 6.5	0.8	- 7	- 5	2
Lin	- 0.9	- 1.0	0.6	2	0	2

No. 15 Engine room of destroyer

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-20.1	-20.7	2.3	-24	-18	6
100 Hz	-17.4	-17.8	1.9	-20	-15	5
125 Hz	-16.9	-17.2	1.7	-20	-15	5
160 Hz	-15.7	-16.2	1.9	-18	-14	4
200 Hz	-16.9	-17.1	1.6	-19	-15	4
250 Hz	-16.3	-16.5	1.5	-19	-14	5
315 Hz	-17.4	-17.5	1.0	-19	-16	3
400 Hz	-10.6	-10.8	1.1	-13	-9	4
500 Hz	-10.4	-10.5	1.0	-12	-9	3
630 Hz	-12.1	-12.2	1.2	-14	-11	3
800 Hz	-10.6	-10.7	0.8	-12	-9	3
1 kHz	-14.7	-14.7	0.6	-15	-14	1
1.25 kHz	-15.1	-15.2	0.7	-16	-14	2
1.6 kHz	-7.2	-8.4	3.4	-13	-4	9
2 kHz	-10.2	-10.4	1.1	-12	-9	3
2.5 kHz	-4.1	-4.6	2.1	-8	-2	6
3.15 kHz	-20.1	-20.1	0.7	-21	-19	2
4 kHz	-23.1	-23.1	0.3	-23	-23	0
5 kHz	-23.1	-23.1	0.6	-24	-22	2
6.3 kHz	-24.5	-24.5	0.4	-25	-24	1
8 kHz	-23.4	-23.5	0.9	-25	-22	3
10 kHz	-25.8	-25.9	0.8	-27	-25	2
A	0.5	0.4	0.9	-1	1	2
Lin	0.8	0.8	0.7	0	2	2

No. 16 Machine gun repeated

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-14.5	-25.1	14.4	-47	-10	37
100 Hz	-12.0	-23.2	15.3	-47	-7	40
125 Hz	-10.6	-21.9	15.7	-47	-6	41
160 Hz	-13.3	-24.1	14.9	-47	-9	38
200 Hz	-13.8	-24.6	14.8	-47	-9	38
250 Hz	-14.9	-25.8	14.6	-47	-10	37
315 Hz	-13.4	-25.4	15.2	-47	-8	39
400 Hz	-14.6	-26.4	14.9	-47	-10	37
500 Hz	-23.2	-32.9	12.1	-47	-18	29
630 Hz	-26.1	-35.0	10.7	-47	-21	26
800 Hz	-29.1	-37.1	9.6	-47	-24	23
1 kHz	-31.4	-38.3	8.7	-47	-27	20
1.25 kHz	-35.1	-40.6	7.1	-47	-31	16
1.6 kHz	-38.4	-42.2	5.7	-47	-33	14
2 kHz	-41.2	-43.7	4.3	-47	-36	11
2.5 kHz	-42.4	-44.3	3.7	-47	-39	8
3.15 kHz	-44.2	-45.4	2.7	-47	-41	6
4 kHz	-46.2	-46.5	1.3	-47	-45	2
5 kHz	-47.0	-47.0	0.0	-47	-47	0
6.3 kHz	-47.0	-47.0	0.0	-47	-47	0
8 kHz	-47.0	-47.0	0.0	-47	-47	0
10 kHz	-47.0	-47.0	0.0	-47	-47	0
A	-14.4	-24.8	14.1	-47	-9	38
Lin	-4.7	-15.8	16.1	-46	0	46

No. 17 HF radio channel

Freq	L_{eq}	L_{avg}	σ	L_{90}	L_{10}	L_{10-90}
80 Hz	-47.0	-47.0	0.0	-47	-47	0
100 Hz	-42.4	-45.2	4.1	-47	-36	11
125 Hz	-32.0	-32.5	2.0	-35	-30	5
160 Hz	-25.8	-26.2	2.0	-29	-24	5
200 Hz	-21.4	-21.7	1.6	-24	-19	5
250 Hz	-18.6	-18.9	1.4	-21	-17	4
315 Hz	-16.0	-16.3	1.5	-18	-14	4
400 Hz	-14.9	-15.1	1.2	-17	-13	4
500 Hz	-14.6	-14.8	1.2	-16	-13	3
630 Hz	-13.1	-13.2	0.9	-15	-12	3
800 Hz	-11.8	-11.8	0.6	-13	-11	2
1 kHz	-9.6	-9.6	0.7	-11	-9	2
1.25 kHz	-8.7	-8.7	0.7	-10	-8	2
1.6 kHz	-8.1	-8.2	0.6	-9	-7	2
2 kHz	-6.6	-6.6	0.4	-7	-6	1
2.5 kHz	-5.3	-5.4	0.7	-6	-4	2
3.15 kHz	-11.9	-12.0	0.6	-13	-11	2
4 kHz	-26.6	-26.7	0.4	-27	-26	1
5 kHz	-27.7	-27.7	0.5	-28	-27	1
6.3 kHz	-29.2	-29.2	0.4	-30	-29	1
8 kHz	-31.2	-31.3	0.6	-32	-31	1
10 kHz	-33.6	-33.6	0.6	-34	-33	1
A	1.4	1.4	0.3	1	2	1
Lin	1.2	1.2	0.2	1	2	1

No. 18 STITEL test signal

Freq	L _{eq}	L _{avg}	σ	L ₉₀	L ₁₀	L ₁₀₋₉₀
80 Hz	-25.1	-27.2	5.1	-33	-22	11
100 Hz	-12.6	-14.7	4.5	-21	-9	12
125 Hz	-10.9	-12.8	4.5	-19	-7	12
160 Hz	-10.7	-11.9	3.5	-17	-7	10
200 Hz	-7.8	-8.3	2.0	-11	-6	5
250 Hz	-7.0	-7.4	1.8	-10	-5	5
315 Hz	-7.0	-7.2	1.4	-9	-5	4
400 Hz	-7.7	-8.8	3.2	-14	-5	9
500 Hz	-7.6	-9.3	4.7	-16	-5	11
630 Hz	-8.1	-10.4	5.5	-20	-5	15
800 Hz	-13.4	-13.8	2.0	-17	-11	6
1 kHz	-12.3	-12.8	2.3	-16	-10	6
1.25 kHz	-12.1	-12.6	2.2	-16	-10	6
1.6 kHz	-15.9	-16.1	1.5	-18	-14	4
2 kHz	-17.0	-17.2	1.3	-19	-15	4
2.5 kHz	-17.4	-17.6	1.1	-19	-16	3
3.15 kHz	-21.4	-21.8	1.8	-24	-19	5
4 kHz	-23.4	-24.5	3.3	-29	-21	8
5 kHz	-23.9	-25.1	3.6	-31	-21	10
6.3 kHz	-28.4	-29.0	2.3	-32	-26	6
8 kHz	-31.0	-31.4	1.9	-34	-29	5
10 kHz	-31.0	-31.3	1.6	-33	-29	4
A	-2.1	-2.3	1.3	-4	-1	3
Lin	2.3	2.2	1.1	1	4	3