# Test Report

Issued by University of Salford (Acoustics Test Laboratory)
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Report Number: 07607/8



APPROVED SIGNATORIES
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University of Salford MANCHESTER

# Determination of airborne noise from an appliance

## Measurements described in this test report comply with:-

**BS EN ISO 3744:2010** 'Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Engineering methods for an essentially free field over a reflecting plane'

| | |
|---|---|
| COMPANY NAME & ADDRESS: | Chauvet UK<br>POD 1<br>EVO Park<br>Nottingham<br>NG16 6NT |
| FOR ATTENTION OF: | Ben Virgo |
| UNIT UNDER TEST: | Lighting Unit, Maverick Storm 1 Flex |
| DATE OF TEST: | 28th January 2025 |
| TEST ENGINEER: | Sean Furlong |
| MEASUREMENT PURPOSE: | To determine airborne noise by measurements to the above standards. |

*Results relate only to samples tested. Items tested are the samples supplied by the manufacturer, who was responsible for selecting at random from a standard production run.*

## 1.0 Description of Appliance Under Test

| | |
|---|---|
| CATEGORY: | Lighting Unit |
| DESIGN CHARACTERISTICS: | Floor mounted |
| MANUFACTURER: | Chauvet |
| MODEL: | Maverick Storm 1 Flex |
| TEST REF NUMBERS: | 07607/8_1 to 7 |
| SERIAL NUMBER: | 08102629-1124693184 |
| POWER: | Not Stated |
| POWER SOURCE: | UK Mains |
| SETTINGS:<br>**See Table 1.0 below for details of settings* | 07607/8_1 “Ambient”<br>07607/8_2 “Auto”<br>07607/8_3 “Full”<br>07607/8_4 “Eco”<br>07607/8_5 “TV25”<br>07607/8_6 “TV35”<br>07607/8_7 “Max” |

** Table 1.0 – Manufacturer’s description of the different settings of the sample that were used to create the Test Configuration for each measurement.*

| **Explanation of Settings Used for Each Test** | |
|---|---|
| Setting Name | Test Configuration |
| Ambient | Unit is in idle state, switched on and no output or movements |
| Auto | All Effects Static, 100% Light output — Auto Fan mode |
| Full | All Effects Static, 100% Light output — Full Fan mode |
| Eco | All Effects Static, 100% Light output — ECO Fan mode |
| TV25 | All Effects Static, 100% Light output — TV25 Fan mode |
| TV35 | All Effects Static, 100% Light output — TV35 Fan mode |
| Max | Unit is using all mechanical options and the light output is on – Absolute Silent Mode Off |

## 2.0 Test Conditions

2.1 The following conditions were measured over duration of the test:-

| | Measured Average Value |
|---|---|
| **TEST REF NUMBER:** | **07607/8_1 to 7** |
| **SERIAL NO. / SAMPLE REF.** | 08102629-1124693184 |
| Atmospheric Pressure | 97.058 |
| Ambient Temperature | 21.0 |
| Ambient Relative Humidity | 33.9 |

2.2 The test was carried out in the hemi-anechoic chamber at the University of Salford.

2.3 The unit under test was mounted directly on the floor, in the centre of the hemi-anechoic chamber.

2.4 Unit operation was controlled by the client from outside the chamber, after initial configuration directly at the unit. Measurements were taken immediately after each setting of the unit was set and confirmed by the client.

2.5 For measurement of the sound pressure level of the Reference Sound Source (RSS), the RSS was placed directly on the floor of the hemi-anechoic chamber at the same location as the unit under test as defined in BS EN ISO 3744: 2010.

*Figure 1 – unit under test mounted in the hemi-anechoic chamber at the University of Salford.*

# 3 Acoustical Data

## 3.1 Measurement method

A direct measurement method was used as stated in BS EN ISO 3744: 2010.

## 3.2 Reference Sound Source

The Laboratory reference sound source (RSS) type B&K 4204, serial number 1460189 was used on mains supply.

## 3.3 Microphone Array

Ten laboratory free field, low noise microphones were used for the measurement, placed in fixed positions 1 to 10 on a hemispherical surface (d = 1.50 m) with guidance from BS EN ISO 3744: 2010. The location of each measurement position is provided in Appendix 1 to this report.

### 3.4 Measured sound pressure levels of the unit

Each unit was run at the selected setting. Three measurements were made at each setting.

Mean sound pressure levels were measured over 30 seconds to give the measured sound pressure levels, $L_{pi}$ at each measurement position in each third octave band. The sound power level was then calculated.

The background noise corrections $K_1$, environmental correction calculated from RSS levels $K_2$, measured sound pressure levels, $L_{pi}$ at each measurement point, corrected sound pressure levels, $L_{pf}$, and the sound power level, $L_w$ of the source in each third octave frequency band are given in Appendix 2 of this report. The measured time averaged sound pressure level of the RSS, $L'_{P(RSS)}$, at each microphone position is reported in Appendix 3 to this report.

### 3.5 Calculated sound power levels

The calculated A-Weighted sound power level, $L_{WA}$ in dBA for each setting are given in table 3.1.

*Table 3.1 –A-weighted noise emissions for each setting, averaged over 30 seconds and over 10 microphone positions.*

| **Test Number** | **07607/8_1** | **07607/8 _2** | **07607/8 _3** | **07607/8 _4** | **07607/8 _5** | **07607/8 _6** | **07607/8 _7** |
|---|---|---|---|---|---|---|---|
| Setting | Ambient | Auto | Full | Eco | TV25 | TV35 | Max |
| A-weighted sound power level, $L_{wA}$ in dBA | 42.4 | 53.4 | 64.6 | 59.8 | 54.1 | 54.1 | 54.4 |

### 3.6 Sound Pressure Level at 1 m from the source (not covered by BS EN 3744: 2010)

The A-weighted Sound Power Level can be used to calculate the A-weighted sound pressure level expected at different distances from the source in hemi-anechoic free field conditions*.

The calculation of the sound pressure levels is based on the formulae in BS EN 3744: 2010 for a parallelpiped measurement surface (for a noise source measured, in this case, above a single reflective plane).

The calculations show that to estimate the average sound pressure level expected at a distance of 1 m from the surface of the unit, 13.4 dB should be subtracted from the sound power value. This would give A-weighted average sound pressure levels in table 3.2 for each unit setting at 1 m from the surface of the unit:-

*Table 3.2 – Calculated A-weighted sound pressure level* for each setting at 1 m from the unit surface*

| **Test Number** | **07607/8_1** | **07607/8 _2** | **07607/8 _3** | **07607/8 _4** | **07607/8 _5** | **07607/8 _6** | **07607/8 _7** |
|---|---|---|---|---|---|---|---|
| Setting | Ambient | Auto | Full | Eco | TV25 | TV35 | Max |
| A-weighted sound pressure level, $L_p$ in dBA | 29.0 | 40.0 | 51.2 | 46.4 | 40.7 | 40.7 | 41.0 |

**This calculation represents an estimate of the levels that would be obtained in hemi-anechoic free field conditions and should not be assumed to be valid for any specific building environments where the characteristics of the room should be accounted for.*

**Appendix 1 – Locations of measurement positions**

## Defining measurement surface & Co-ordinates

Measurement distance, d 1.50 m

| | x, mm | y, mm | z, mm |
|---|---|---|---|
| Microphone Position 1 | -1485 | 0 | 225 |
| Microphone Position 2 | 750 | -1290 | 225 |
| Microphone Position 3 | 750 | 1290 | 225 |
| Microphone Position 4 | -675 | 1155 | 675 |
| Microphone Position 5 | -675 | -1155 | 675 |
| Microphone Position 6 | 1335 | 0 | 675 |
| Microphone Position 7 | 495 | 855 | 1125 |
| Microphone Position 8 | -990 | 0 | 1125 |
| Microphone Position 9 | 495 | -855 | 1125 |
| Microphone Position 10 | 0 | 0 | 1500 |

| | |
|---|---|
| Surface Area, $m^2$ | 14.14 $m^2$ |

**Appendix 2 – Measurements and calculations according to BS EN ISO 3744**

The following tables include measurement details that provide in each third octave band, for each of the seven settings:-

- measured $L_{pi}$, averaged over 30 s, at each measurement position
- background noise corrections $K_1$
- environmental correction $K_2$, calculated from RSS levels
- corrected sound pressure levels, $L_{pf}$
- the sound power level, $L_w$ of the source
- the A-weighted sound power level, $L_{wA}$ of the source

! The levels at these frequencies are affected by background level and therefore levels quoted represent an upper limit for the sound pressure levels of the noise source.

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8_1 – "Ambient" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | | |
| 100 | 6.0 | 6.7 | 7.0 | 4.2 | 3.5 | 4.4 | 0.5 | 1.2 | 1.3 | 3.0 | 4.3 | -1.4 | 1.30 | -2.0 | 5.0 | 16.5 | -19.1 | -2.6 | ! |
| 125 | 9.0 | 8.2 | 8.3 | 8.0 | 5.9 | 7.7 | 6.6 | 5.7 | 8.2 | 1.0 | 7.3 | 2.4 | 1.30 | 1.5 | 4.5 | 16.0 | -16.1 | -0.1 | ! |
| 160 | 5.1 | 6.7 | 2.9 | -0.5 | 1.9 | 2.2 | 0.1 | -0.4 | -0.2 | -0.6 | 2.5 | 2.8 | 1.30 | 0.3 | 0.9 | 12.4 | -13.4 | -1.0 | ! |
| 200 | 4.3 | 4.0 | 4.6 | 4.8 | 4.0 | 1.1 | 3.6 | 1.4 | 1.7 | -1.4 | 3.2 | 9.6 | 0.50 | -0.1 | 2.8 | 14.3 | -10.9 | 3.4 | |
| 250 | 3.2 | 1.3 | 1.4 | 2.7 | 1.4 | -0.6 | 2.1 | 0.3 | -1.3 | -1.2 | 1.2 | 9.3 | 0.55 | 1.1 | -0.5 | 11.0 | -8.6 | 2.4 | |
| 315 | 15.5 | 4.4 | 6.4 | 10.7 | 12.3 | 13.5 | 8.3 | 14.1 | 4.3 | 1.9 | 11.1 | 19.4 | 0.00 | 0.6 | 10.5 | 22.0 | -6.6 | 15.4 | |
| 400 | 17.3 | 7.1 | 9.3 | 12.8 | 14.0 | 15.3 | 10.3 | 15.9 | 6.2 | 4.5 | 13.0 | 22.5 | 0.00 | 0.5 | 12.5 | 24.0 | -4.8 | 19.2 | |
| 500 | 5.8 | 11.2 | 6.6 | 5.3 | 6.9 | 3.8 | 6.0 | 4.9 | 4.4 | 5.9 | 6.6 | 15.9 | 0.00 | 0.5 | 6.2 | 17.7 | -3.2 | 14.5 | |
| 630 | 9.3 | 11.6 | 11.2 | 8.8 | 5.2 | 9.5 | 12.4 | 9.4 | 9.4 | 11.3 | 10.2 | 19.2 | 0.00 | 0.6 | 9.6 | 21.1 | -1.9 | 19.2 | |
| 800 | 15.8 | 14.8 | 15.3 | 17.4 | 15.1 | 13.4 | 17.1 | 15.5 | 16.7 | 16.3 | 15.9 | 24.5 | 0.00 | 0.7 | 15.2 | 26.7 | -0.8 | 25.9 | |
| 1000 | 24.4 | 19.7 | 20.1 | 25.7 | 19.7 | 18.7 | 24.1 | 23.6 | 22.5 | 24.9 | 23.0 | 30.9 | 0.00 | 0.6 | 22.4 | 33.9 | 0 | 33.9 | |
| 1250 | 18.0 | 17.1 | 17.0 | 22.0 | 18.4 | 19.9 | 20.2 | 14.9 | 17.7 | 15.9 | 18.6 | 25.9 | 0.00 | 0.5 | 18.0 | 29.5 | 0.6 | 30.1 | |
| 1600 | 27.9 | 23.0 | 21.9 | 26.7 | 28.5 | 29.5 | 24.6 | 21.5 | 27.1 | 20.0 | 26.1 | 32.7 | 0.00 | 0.6 | 25.5 | 37.0 | 1 | 38.0 | |
| 2000 | 18.8 | 17.6 | 18.8 | 20.7 | 20.9 | 19.9 | 19.4 | 18.1 | 18.5 | 18.3 | 19.2 | 24.9 | 0.00 | 0.9 | 18.3 | 29.8 | 1.2 | 31.0 | |
| 2500 | 16.0 | 13.0 | 22.8 | 23.7 | 22.1 | 23.7 | 22.1 | 21.0 | 22.0 | 18.2 | 21.4 | 26.8 | 0.00 | -1.4 | 22.8 | 34.3 | 1.3 | 35.6 | |
| 3150 | 16.7 | 16.1 | 15.9 | 16.9 | 16.8 | 15.2 | 16.9 | 16.7 | 16.1 | 14.5 | 16.2 | 21.1 | 0.00 | -0.5 | 16.8 | 28.3 | 1.2 | 29.5 | |
| 4000 | 12.4 | 12.3 | 15.7 | 15.3 | 17.3 | 14.7 | 13.6 | 14.4 | 19.0 | 16.1 | 15.6 | 19.1 | 0.00 | 0.1 | 15.4 | 26.9 | 1 | 27.9 | |
| 5000 | 12.4 | 10.2 | 10.8 | 8.6 | 12.7 | 10.9 | 10.7 | 9.4 | 12.1 | 8.9 | 10.9 | 14.8 | 0.14 | -0.1 | 10.9 | 22.4 | 0.5 | 22.9 | |
| 6300 | 9.0 | 8.7 | 9.3 | 5.8 | 9.7 | 5.6 | 8.1 | 7.4 | 9.0 | 7.1 | 8.2 | 12.3 | 0.27 | 0.2 | 7.7 | 19.2 | -0.1 | 19.1 | |
| 8000 | 6.5 | 1.4 | 4.0 | 3.1 | 5.3 | 4.6 | 5.9 | 3.3 | 6.6 | 1.7 | 4.6 | 8.2 | 0.72 | -0.6 | 4.5 | 16.0 | -1.1 | 14.9 | |
| 10000 | 1.6 | -0.2 | 2.4 | 1.2 | 5.2 | 1.0 | 3.8 | 0.6 | 7.5 | -1.1 | 3.0 | 5.7 | 1.30 | -0.3 | 2.0 | 13.5 | -2.5 | 11.0 | ! |
| | | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | **42.4** | ! |

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8 _2 – "Auto" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | |
| 100 | 19.2 | 15.7 | 15.8 | 15.3 | 16.2 | 18.1 | 16.0 | 18.7 | 16.0 | 15.4 | 16.9 | 11.2 | 0.34 | -2.0 | 18.5 | 30.0 | -19.1 | 10.9 |
| 125 | 23.3 | 19.2 | 21.4 | 19.6 | 21.3 | 24.3 | 20.4 | 22.7 | 18.9 | 13.6 | 21.2 | 16.3 | 0.00 | 1.5 | 19.7 | 31.2 | -16.1 | 15.1 |
| 160 | 24.2 | 21.0 | 20.7 | 20.0 | 19.9 | 25.1 | 17.9 | 21.3 | 18.2 | 13.8 | 21.2 | 21.5 | 0.00 | 0.3 | 20.9 | 32.4 | -13.4 | 19.0 |
| 200 | 26.3 | 22.2 | 22.3 | 21.3 | 20.9 | 24.6 | 20.3 | 22.2 | 19.6 | 16.9 | 22.4 | 28.8 | 0.00 | -0.1 | 22.5 | 34.0 | -10.9 | 23.1 |
| 250 | 29.8 | 26.4 | 25.7 | 25.9 | 26.0 | 26.4 | 21.4 | 23.4 | 22.6 | 19.2 | 25.6 | 33.7 | 0.00 | 1.1 | 24.4 | 35.9 | -8.6 | 27.3 |
| 315 | 36.4 | 38.7 | 38.7 | 35.8 | 37.2 | 34.3 | 29.0 | 31.4 | 28.1 | 31.2 | 35.4 | 43.7 | 0.00 | 0.6 | 34.8 | 46.3 | -6.6 | 39.7 |
| 400 | 30.3 | 31.3 | 30.2 | 27.0 | 26.3 | 27.1 | 20.9 | 23.5 | 20.6 | 24.1 | 27.5 | 36.9 | 0.00 | 0.5 | 27.0 | 38.5 | -4.8 | 33.7 |
| 500 | 35.0 | 36.2 | 35.1 | 30.4 | 29.0 | 28.1 | 22.9 | 26.2 | 24.2 | 33.1 | 32.1 | 41.3 | 0.00 | 0.5 | 31.6 | 43.1 | -3.2 | 39.9 |
| 630 | 35.7 | 36.0 | 34.5 | 27.0 | 25.1 | 27.9 | 30.8 | 30.6 | 33.0 | 35.0 | 32.9 | 42.0 | 0.00 | 0.6 | 32.3 | 43.8 | -1.9 | 41.9 |
| 800 | 35.6 | 35.5 | 34.6 | 27.7 | 27.9 | 29.8 | 32.3 | 30.5 | 33.8 | 31.5 | 32.8 | 41.4 | 0.00 | 0.7 | 32.0 | 43.5 | -0.8 | 42.7 |
| 1000 | 37.0 | 35.8 | 35.6 | 31.6 | 33.4 | 31.5 | 34.1 | 32.4 | 32.9 | 33.2 | 34.1 | 42.0 | 0.00 | 0.6 | 33.6 | 45.1 | 0 | 45.1 |
| 1250 | 34.4 | 34.9 | 33.7 | 35.7 | 35.2 | 34.5 | 32.8 | 32.3 | 29.8 | 31.4 | 33.8 | 41.1 | 0.00 | 0.5 | 33.2 | 44.8 | 0.6 | 45.4 |
| 1600 | 32.7 | 32.4 | 31.3 | 36.0 | 36.1 | 35.9 | 35.4 | 38.0 | 35.7 | 30.7 | 35.0 | 41.6 | 0.00 | 0.6 | 34.4 | 45.9 | 1 | 46.9 |
| 2000 | 30.6 | 29.3 | 31.4 | 30.7 | 30.9 | 32.3 | 32.5 | 35.2 | 32.2 | 27.4 | 31.7 | 37.4 | 0.00 | 0.9 | 30.8 | 42.3 | 1.2 | 43.5 |
| 2500 | 23.2 | 23.8 | 27.2 | 27.2 | 26.6 | 29.5 | 29.2 | 29.3 | 28.4 | 23.6 | 27.4 | 32.7 | 0.00 | -1.4 | 28.7 | 40.2 | 1.3 | 41.5 |
| 3150 | 24.8 | 23.1 | 23.2 | 24.1 | 24.6 | 24.7 | 23.6 | 24.8 | 24.2 | 22.2 | 24.0 | 28.9 | 0.00 | -0.5 | 24.5 | 36.0 | 1.2 | 37.2 |
| 4000 | 25.5 | 21.5 | 24.1 | 23.8 | 23.2 | 22.6 | 23.0 | 21.2 | 22.7 | 22.0 | 23.1 | 26.7 | 0.00 | 0.1 | 23.0 | 34.5 | 1 | 35.5 |
| 5000 | 20.5 | 18.8 | 19.9 | 16.8 | 19.4 | 17.5 | 19.2 | 18.1 | 19.2 | 15.7 | 18.7 | 22.7 | 0.00 | -0.1 | 18.8 | 30.3 | 0.5 | 30.8 |
| 6300 | 16.9 | 16.6 | 18.0 | 15.2 | 16.3 | 15.1 | 17.0 | 14.9 | 16.2 | 13.5 | 16.1 | 20.2 | 0.00 | 0.2 | 15.9 | 27.4 | -0.1 | 27.3 |
| 8000 | 11.1 | 10.3 | 11.8 | 11.9 | 11.8 | 11.4 | 12.3 | 10.3 | 12.6 | 6.8 | 11.3 | 14.9 | 0.14 | -0.6 | 11.8 | 23.3 | -1.1 | 22.2 |
| 10000 | 5.8 | 5.3 | 7.9 | 6.6 | 7.9 | 6.3 | 8.4 | 5.3 | 9.6 | 2.4 | 6.9 | 9.6 | 0.50 | -0.3 | 6.7 | 18.2 | -2.5 | 15.7 |
| | | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | **53.4** |

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8 _3 – "Full" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | |
| 100 | 25.0 | 20.9 | 22.0 | 20.4 | 22.9 | 24.0 | 22.3 | 24.5 | 21.1 | 20.2 | 22.6 | 17.0 | 0.00 | -2.0 | 24.6 | 36.1 | -19.1 | 17.0 |
| 125 | 29.3 | 26.0 | 26.9 | 26.6 | 27.0 | 30.4 | 25.7 | 28.5 | 25.2 | 19.7 | 27.2 | 22.3 | 0.00 | 1.5 | 25.8 | 37.3 | -16.1 | 21.2 |
| 160 | 30.2 | 27.2 | 27.2 | 26.3 | 26.3 | 30.9 | 24.5 | 27.2 | 24.4 | 19.9 | 27.3 | 27.6 | 0.00 | 0.3 | 27.0 | 38.5 | -13.4 | 25.1 |
| 200 | 33.1 | 29.1 | 29.7 | 28.1 | 28.1 | 31.4 | 27.7 | 28.8 | 26.5 | 23.5 | 29.3 | 35.7 | 0.00 | -0.1 | 29.4 | 40.9 | -10.9 | 30.0 |
| 250 | 37.6 | 32.4 | 33.9 | 32.1 | 34.5 | 34.2 | 29.5 | 30.6 | 29.8 | 24.9 | 33.1 | 41.1 | 0.00 | 1.1 | 31.9 | 43.4 | -8.6 | 34.8 |
| 315 | 36.7 | 35.5 | 35.0 | 32.9 | 34.0 | 34.4 | 27.9 | 30.8 | 28.2 | 28.3 | 33.4 | 41.6 | 0.00 | 0.6 | 32.7 | 44.2 | -6.6 | 37.6 |
| 400 | 42.5 | 44.2 | 42.7 | 39.8 | 37.9 | 37.3 | 31.0 | 33.7 | 33.2 | 39.0 | 39.9 | 49.3 | 0.00 | 0.5 | 39.3 | 50.8 | -4.8 | 46.0 |
| 500 | 55.4 | 57.6 | 55.6 | 52.4 | 51.4 | 47.6 | 40.7 | 44.8 | 46.0 | 52.7 | 52.8 | 62.1 | 0.00 | 0.5 | 52.3 | 63.9 | -3.2 | 60.7 |
| 630 | 44.0 | 45.1 | 43.2 | 36.1 | 34.1 | 36.1 | 39.0 | 38.6 | 41.2 | 43.6 | 41.5 | 50.5 | 0.00 | 0.6 | 40.9 | 52.4 | -1.9 | 50.5 |
| 800 | 44.8 | 44.9 | 43.5 | 32.4 | 35.0 | 38.3 | 41.3 | 39.3 | 43.2 | 40.6 | 41.7 | 50.3 | 0.00 | 0.7 | 41.0 | 52.5 | -0.8 | 51.7 |
| 1000 | 47.0 | 44.8 | 44.3 | 38.4 | 40.2 | 40.7 | 41.7 | 42.5 | 42.6 | 42.1 | 43.1 | 51.0 | 0.00 | 0.6 | 42.5 | 54.0 | 0 | 54.0 |
| 1250 | 44.2 | 45.0 | 43.5 | 45.3 | 47.4 | 44.0 | 40.3 | 43.4 | 38.9 | 40.3 | 43.9 | 51.2 | 0.00 | 0.5 | 43.3 | 54.9 | 0.6 | 55.5 |
| 1600 | 39.8 | 40.8 | 39.5 | 44.3 | 44.3 | 44.7 | 42.1 | 46.6 | 43.9 | 40.2 | 43.2 | 49.8 | 0.00 | 0.6 | 42.7 | 54.2 | 1 | 55.2 |
| 2000 | 40.1 | 38.8 | 39.8 | 39.1 | 40.1 | 41.6 | 41.5 | 44.2 | 41.7 | 35.2 | 40.7 | 46.4 | 0.00 | 0.9 | 39.8 | 51.3 | 1.2 | 52.5 |
| 2500 | 32.1 | 32.7 | 33.8 | 35.5 | 37.3 | 38.7 | 37.7 | 39.0 | 37.6 | 31.3 | 36.3 | 41.7 | 0.00 | -1.4 | 37.7 | 49.2 | 1.3 | 50.5 |
| 3150 | 36.7 | 34.2 | 34.8 | 35.8 | 36.8 | 36.7 | 34.9 | 35.5 | 36.0 | 32.1 | 35.5 | 40.4 | 0.00 | -0.5 | 36.1 | 47.6 | 1.2 | 48.8 |
| 4000 | 39.1 | 34.1 | 35.5 | 36.7 | 36.0 | 35.3 | 35.1 | 33.2 | 34.2 | 30.7 | 35.5 | 39.0 | 0.00 | 0.1 | 35.4 | 46.9 | 1 | 47.9 |
| 5000 | 35.0 | 32.7 | 34.2 | 29.2 | 32.8 | 31.0 | 31.9 | 31.5 | 31.8 | 26.4 | 32.2 | 36.1 | 0.00 | -0.1 | 32.3 | 43.8 | 0.5 | 44.3 |
| 6300 | 31.7 | 30.1 | 31.9 | 27.6 | 30.6 | 30.5 | 29.7 | 29.4 | 29.2 | 23.7 | 29.9 | 34.0 | 0.00 | 0.2 | 29.7 | 41.2 | -0.1 | 41.1 |
| 8000 | 27.0 | 24.5 | 25.0 | 25.4 | 26.6 | 27.5 | 26.0 | 26.1 | 26.4 | 19.3 | 25.8 | 29.4 | 0.00 | -0.6 | 26.4 | 37.9 | -1.1 | 36.8 |
| 10000 | 22.2 | 21.2 | 21.8 | 21.4 | 22.8 | 22.7 | 21.1 | 21.0 | 22.4 | 15.2 | 21.5 | 24.2 | 0.00 | -0.3 | 21.8 | 33.3 | -2.5 | 30.8 |
| | | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | **64.6** |

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8 _4 – "Eco" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | |
| 100 | 22.9 | 19.0 | 19.4 | 18.7 | 20.3 | 21.7 | 19.7 | 22.5 | 19.5 | 18.2 | 20.5 | 14.8 | 0.15 | -2.0 | 22.3 | 33.8 | -19.1 | 14.7 |
| 125 | 26.8 | 23.2 | 24.5 | 24.1 | 24.5 | 27.5 | 23.3 | 26.3 | 23.0 | 17.6 | 24.7 | 19.8 | 0.00 | 1.5 | 23.3 | 34.8 | -16.1 | 18.7 |
| 160 | 28.2 | 24.8 | 25.2 | 23.7 | 24.4 | 28.9 | 22.4 | 25.2 | 22.0 | 17.7 | 25.2 | 25.5 | 0.00 | 0.3 | 24.9 | 36.4 | -13.4 | 23.0 |
| 200 | 30.9 | 26.8 | 27.1 | 25.9 | 25.7 | 29.2 | 25.0 | 26.7 | 24.3 | 21.1 | 27.0 | 33.4 | 0.00 | -0.1 | 27.1 | 38.6 | -10.9 | 27.7 |
| 250 | 33.8 | 30.1 | 30.3 | 29.9 | 30.5 | 30.5 | 26.0 | 27.5 | 27.1 | 22.8 | 29.7 | 37.8 | 0.00 | 1.1 | 28.6 | 40.1 | -8.6 | 31.5 |
| 315 | 34.3 | 33.8 | 32.9 | 31.2 | 31.5 | 32.1 | 25.4 | 28.4 | 26.0 | 26.9 | 31.3 | 39.5 | 0.00 | 0.6 | 30.6 | 42.1 | -6.6 | 35.5 |
| 400 | 46.0 | 48.6 | 47.5 | 44.3 | 43.1 | 41.5 | 36.0 | 37.7 | 33.6 | 42.2 | 44.1 | 53.5 | 0.00 | 0.5 | 43.6 | 55.1 | -4.8 | 50.3 |
| 500 | 43.0 | 45.2 | 43.5 | 39.4 | 38.8 | 36.7 | 30.7 | 34.0 | 31.6 | 40.8 | 40.5 | 49.8 | 0.00 | 0.5 | 40.1 | 51.6 | -3.2 | 48.4 |
| 630 | 40.4 | 41.5 | 39.6 | 32.3 | 30.2 | 32.5 | 35.7 | 35.1 | 38.1 | 40.0 | 37.9 | 47.0 | 0.00 | 0.6 | 37.3 | 48.8 | -1.9 | 46.9 |
| 800 | 42.6 | 42.4 | 41.0 | 30.1 | 32.5 | 35.8 | 38.6 | 37.5 | 40.8 | 38.0 | 39.3 | 47.9 | 0.00 | 0.7 | 38.6 | 50.1 | -0.8 | 49.3 |
| 1000 | 42.6 | 40.5 | 40.3 | 34.9 | 36.8 | 37.3 | 37.8 | 37.7 | 38.2 | 38.3 | 39.0 | 46.9 | 0.00 | 0.6 | 38.4 | 49.9 | 0 | 49.9 |
| 1250 | 42.0 | 42.0 | 41.5 | 42.9 | 42.6 | 42.1 | 39.6 | 38.9 | 36.8 | 38.4 | 41.1 | 48.4 | 0.00 | 0.5 | 40.5 | 52.0 | 0.6 | 52.6 |
| 1600 | 36.0 | 37.4 | 36.0 | 41.3 | 41.0 | 41.8 | 40.0 | 43.7 | 41.4 | 36.8 | 40.3 | 46.9 | 0.00 | 0.6 | 39.7 | 51.2 | 1 | 52.2 |
| 2000 | 36.2 | 34.9 | 35.9 | 35.6 | 36.4 | 37.0 | 38.0 | 41.0 | 37.8 | 31.9 | 37.0 | 42.7 | 0.00 | 0.9 | 36.1 | 47.6 | 1.2 | 48.8 |
| 2500 | 28.5 | 29.1 | 30.9 | 32.0 | 33.4 | 35.1 | 34.1 | 35.4 | 33.9 | 28.3 | 32.8 | 38.1 | 0.00 | -1.4 | 34.1 | 45.6 | 1.3 | 46.9 |
| 3150 | 32.5 | 30.0 | 30.4 | 31.7 | 32.5 | 32.4 | 30.8 | 31.4 | 31.7 | 27.9 | 31.3 | 36.2 | 0.00 | -0.5 | 31.8 | 43.4 | 1.2 | 44.6 |
| 4000 | 34.4 | 29.4 | 31.0 | 32.1 | 31.3 | 30.6 | 30.4 | 28.7 | 29.7 | 26.4 | 30.9 | 34.4 | 0.00 | 0.1 | 30.8 | 42.3 | 1 | 43.3 |
| 5000 | 29.9 | 27.6 | 29.1 | 24.3 | 27.8 | 25.9 | 27.0 | 26.5 | 26.8 | 21.4 | 27.2 | 31.1 | 0.00 | -0.1 | 27.3 | 38.8 | 0.5 | 39.3 |
| 6300 | 26.4 | 24.9 | 26.7 | 22.5 | 25.3 | 25.1 | 24.5 | 24.0 | 24.0 | 18.5 | 24.6 | 28.7 | 0.00 | 0.2 | 24.4 | 35.9 | -0.1 | 35.8 |
| 8000 | 21.2 | 18.7 | 19.3 | 19.8 | 20.9 | 21.7 | 20.5 | 20.2 | 20.7 | 13.4 | 20.1 | 23.7 | 0.00 | -0.6 | 20.7 | 32.2 | -1.1 | 31.1 |
| 10000 | 16.0 | 15.2 | 15.9 | 15.3 | 16.8 | 16.5 | 15.3 | 14.9 | 16.6 | 9.0 | 15.5 | 18.2 | 0.00 | -0.3 | 15.8 | 27.3 | -2.5 | 24.8 |
| | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | | **59.8** |

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8 _5 – "TV25" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | |
| 100 | 19.3 | 15.5 | 15.4 | 15.2 | 16.0 | 17.8 | 15.5 | 18.8 | 15.7 | 14.6 | 16.7 | 11.0 | 0.36 | -2.0 | 18.3 | 29.8 | -19.1 | 10.7 |
| 125 | 22.9 | 19.0 | 21.0 | 20.1 | 20.9 | 23.8 | 19.6 | 22.7 | 18.8 | 14.6 | 21.0 | 16.0 | 0.00 | 1.5 | 19.5 | 31.0 | -16.1 | 14.9 |
| 160 | 24.3 | 21.0 | 20.8 | 20.0 | 20.1 | 25.0 | 18.0 | 21.3 | 18.2 | 13.8 | 21.2 | 21.5 | 0.00 | 0.3 | 20.9 | 32.4 | -13.4 | 19.0 |
| 200 | 26.4 | 22.4 | 22.4 | 21.3 | 20.9 | 24.7 | 20.3 | 22.3 | 19.7 | 16.6 | 22.4 | 28.9 | 0.00 | -0.1 | 22.5 | 34.0 | -10.9 | 23.1 |
| 250 | 29.8 | 26.3 | 25.8 | 25.8 | 26.0 | 26.5 | 21.5 | 23.4 | 22.6 | 18.9 | 25.6 | 33.6 | 0.00 | 1.1 | 24.4 | 35.9 | -8.6 | 27.3 |
| 315 | 36.8 | 38.8 | 39.0 | 35.7 | 37.4 | 35.0 | 30.0 | 31.8 | 28.3 | 32.0 | 35.7 | 44.0 | 0.00 | 0.6 | 35.1 | 46.6 | -6.6 | 40.0 |
| 400 | 30.3 | 31.5 | 30.3 | 27.4 | 26.6 | 27.4 | 21.1 | 23.7 | 21.1 | 24.4 | 27.7 | 37.1 | 0.00 | 0.5 | 27.2 | 38.7 | -4.8 | 33.9 |
| 500 | 35.0 | 36.2 | 35.1 | 30.3 | 29.0 | 28.1 | 22.6 | 26.1 | 24.1 | 32.9 | 32.0 | 41.3 | 0.00 | 0.5 | 31.5 | 43.0 | -3.2 | 39.8 |
| 630 | 36.1 | 36.5 | 34.7 | 27.5 | 25.2 | 27.9 | 30.7 | 30.9 | 33.5 | 35.3 | 33.2 | 42.3 | 0.00 | 0.6 | 32.6 | 44.1 | -1.9 | 42.2 |
| 800 | 35.4 | 35.8 | 34.5 | 25.4 | 26.8 | 29.3 | 32.3 | 29.9 | 34.3 | 31.3 | 32.7 | 41.3 | 0.00 | 0.7 | 31.9 | 43.4 | -0.8 | 42.6 |
| 1000 | 37.0 | 35.2 | 34.8 | 30.4 | 32.3 | 33.2 | 33.5 | 32.4 | 33.4 | 33.0 | 33.9 | 41.8 | 0.00 | 0.6 | 33.3 | 44.8 | 0 | 44.8 |
| 1250 | 36.3 | 38.3 | 38.5 | 39.9 | 40.0 | 35.5 | 38.0 | 32.9 | 32.3 | 34.0 | 37.3 | 44.6 | 0.00 | 0.5 | 36.8 | 48.3 | 0.6 | 48.9 |
| 1600 | 31.3 | 30.7 | 30.0 | 36.6 | 35.0 | 36.6 | 34.4 | 38.1 | 35.5 | 30.9 | 34.8 | 41.3 | 0.00 | 0.6 | 34.2 | 45.7 | 1 | 46.7 |
| 2000 | 31.3 | 28.8 | 30.8 | 29.8 | 30.5 | 31.8 | 32.0 | 35.0 | 31.8 | 27.8 | 31.4 | 37.1 | 0.00 | 0.9 | 30.5 | 42.0 | 1.2 | 43.2 |
| 2500 | 23.2 | 23.3 | 26.9 | 26.5 | 26.6 | 29.8 | 28.1 | 29.8 | 28.7 | 24.6 | 27.3 | 32.6 | 0.00 | -1.4 | 28.7 | 40.2 | 1.3 | 41.5 |
| 3150 | 25.2 | 23.4 | 22.9 | 25.1 | 24.9 | 24.5 | 24.2 | 25.0 | 24.3 | 23.0 | 24.3 | 29.2 | 0.00 | -0.5 | 24.9 | 36.4 | 1.2 | 37.6 |
| 4000 | 25.6 | 21.3 | 23.2 | 23.7 | 22.9 | 22.3 | 22.3 | 21.3 | 21.9 | 21.2 | 22.8 | 26.3 | 0.00 | 0.1 | 22.7 | 34.2 | 1 | 35.2 |
| 5000 | 20.6 | 18.5 | 19.7 | 16.4 | 19.0 | 17.2 | 19.0 | 18.1 | 19.2 | 15.7 | 18.6 | 22.5 | 0.00 | -0.1 | 18.7 | 30.2 | 0.5 | 30.7 |
| 6300 | 20.0 | 18.4 | 18.3 | 17.2 | 18.2 | 17.4 | 17.6 | 18.4 | 19.4 | 20.7 | 18.7 | 22.8 | 0.00 | 0.2 | 18.5 | 30.0 | -0.1 | 29.9 |
| 8000 | 11.1 | 10.0 | 11.1 | 11.5 | 11.7 | 11.6 | 11.9 | 10.4 | 12.2 | 6.0 | 11.0 | 14.6 | 0.15 | -0.6 | 11.5 | 23.0 | -1.1 | 21.9 |
| 10000 | 6.0 | 5.9 | 8.6 | 6.9 | 8.6 | 6.8 | 8.5 | 5.8 | 9.5 | 7.3 | 7.6 | 10.3 | 0.43 | -0.3 | 7.4 | 18.9 | -2.5 | 16.4 |
| | | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | **54.1** |

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8 _6 – "TV35" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | |
| 100 | 19.6 | 16.4 | 16.1 | 15.3 | 16.2 | 18.6 | 15.6 | 18.6 | 15.6 | 13.8 | 16.9 | 11.3 | 0.34 | -2.0 | 18.6 | 30.1 | -19.1 | 11.0 |
| 125 | 22.9 | 19.1 | 20.7 | 20.1 | 20.6 | 23.7 | 19.3 | 22.6 | 18.6 | 14.2 | 20.9 | 15.9 | 0.00 | 1.5 | 19.4 | 30.9 | -16.1 | 14.8 |
| 160 | 24.2 | 20.8 | 20.8 | 19.8 | 20.0 | 25.0 | 17.9 | 21.2 | 18.0 | 13.6 | 21.1 | 21.4 | 0.00 | 0.3 | 20.8 | 32.3 | -13.4 | 18.9 |
| 200 | 26.3 | 22.4 | 22.5 | 21.4 | 20.9 | 24.7 | 20.3 | 22.1 | 19.6 | 16.6 | 22.4 | 28.8 | 0.00 | -0.1 | 22.5 | 34.0 | -10.9 | 23.1 |
| 250 | 29.8 | 26.1 | 25.8 | 25.8 | 26.0 | 26.4 | 21.3 | 23.4 | 22.5 | 18.6 | 25.5 | 33.6 | 0.00 | 1.1 | 24.4 | 35.9 | -8.6 | 27.3 |
| 315 | 36.7 | 38.9 | 38.9 | 35.6 | 37.4 | 35.0 | 29.9 | 31.8 | 28.2 | 32.1 | 35.7 | 43.9 | 0.00 | 0.6 | 35.0 | 46.6 | -6.6 | 40.0 |
| 400 | 30.3 | 31.5 | 30.3 | 27.3 | 26.6 | 27.4 | 21.0 | 23.5 | 20.9 | 24.4 | 27.7 | 37.1 | 0.00 | 0.5 | 27.2 | 38.7 | -4.8 | 33.9 |
| 500 | 35.0 | 36.2 | 35.2 | 30.4 | 29.0 | 28.2 | 22.5 | 26.2 | 24.1 | 33.0 | 32.0 | 41.3 | 0.00 | 0.5 | 31.6 | 43.1 | -3.2 | 39.9 |
| 630 | 36.1 | 36.6 | 34.7 | 27.3 | 25.1 | 28.1 | 30.8 | 31.0 | 33.6 | 35.2 | 33.2 | 42.3 | 0.00 | 0.6 | 32.6 | 44.1 | -1.9 | 42.2 |
| 800 | 35.4 | 35.8 | 34.5 | 25.3 | 26.7 | 29.2 | 32.4 | 30.0 | 34.2 | 31.3 | 32.7 | 41.2 | 0.00 | 0.7 | 31.9 | 43.4 | -0.8 | 42.6 |
| 1000 | 37.1 | 35.1 | 34.9 | 30.4 | 32.1 | 33.3 | 33.4 | 32.4 | 33.6 | 32.8 | 33.9 | 41.8 | 0.00 | 0.6 | 33.3 | 44.8 | 0 | 44.8 |
| 1250 | 36.4 | 38.1 | 37.1 | 40.0 | 40.5 | 36.7 | 38.4 | 33.4 | 33.2 | 35.1 | 37.5 | 44.8 | 0.00 | 0.5 | 36.9 | 48.4 | 0.6 | 49.0 |
| 1600 | 31.2 | 30.8 | 29.9 | 36.3 | 35.0 | 35.9 | 34.1 | 37.8 | 35.6 | 30.7 | 34.5 | 41.1 | 0.00 | 0.6 | 34.0 | 45.5 | 1 | 46.5 |
| 2000 | 31.1 | 29.0 | 30.9 | 29.8 | 30.3 | 31.5 | 32.1 | 34.9 | 31.7 | 27.4 | 31.3 | 37.0 | 0.00 | 0.9 | 30.4 | 41.9 | 1.2 | 43.1 |
| 2500 | 23.4 | 23.3 | 25.6 | 25.8 | 26.7 | 29.4 | 27.5 | 29.3 | 28.3 | 24.2 | 26.9 | 32.2 | 0.00 | -1.4 | 28.2 | 39.7 | 1.3 | 41.0 |
| 3150 | 25.5 | 23.5 | 23.0 | 24.9 | 25.3 | 24.4 | 24.3 | 24.9 | 24.4 | 23.3 | 24.4 | 29.3 | 0.00 | -0.5 | 25.0 | 36.5 | 1.2 | 37.7 |
| 4000 | 25.7 | 21.4 | 23.1 | 23.7 | 23.0 | 22.5 | 22.4 | 21.5 | 21.8 | 21.1 | 22.8 | 26.4 | 0.00 | 0.1 | 22.7 | 34.2 | 1 | 35.2 |
| 5000 | 20.8 | 18.6 | 19.9 | 16.5 | 19.1 | 17.5 | 19.1 | 18.2 | 19.4 | 16.1 | 18.7 | 22.7 | 0.00 | -0.1 | 18.9 | 30.4 | 0.5 | 30.9 |
| 6300 | 20.1 | 17.9 | 18.5 | 17.0 | 18.0 | 18.0 | 18.4 | 18.0 | 20.7 | 21.5 | 19.0 | 23.1 | 0.00 | 0.2 | 18.8 | 30.3 | -0.1 | 30.2 |
| 8000 | 11.3 | 10.1 | 11.2 | 11.4 | 11.8 | 11.7 | 11.9 | 10.3 | 12.2 | 6.0 | 11.1 | 14.6 | 0.15 | -0.6 | 11.6 | 23.1 | -1.1 | 22.0 |
| 10000 | 6.0 | 5.8 | 8.6 | 6.5 | 8.1 | 6.7 | 8.3 | 5.4 | 9.3 | 1.7 | 7.0 | 9.7 | 0.49 | -0.3 | 6.9 | 18.4 | -2.5 | 15.9 |
| | | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | **54.1** |

| MEASURED TIME AVERAGED SPL at 1.5 m, L'P - [07607/8 _7 – "Max" Setting] | | | | | | | | | | | Mean $L_P$ over mic positions | $\Delta L_p$ [dB] | BG corr. $K_1$, [dB] | Env corr. $K_2$, [dB] | $L_p$ [dB] | Sound Power, $L_w$ [dB] | A-weighting corrections [dB] | Sound Power, $L_{wA}$ [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency [Hz] | Mic 1 [dB] | Mic 2 [dB] | Mic 3 [dB] | Mic 4 [dB] | Mic 5 [dB] | Mic 6 [dB] | Mic 7 [dB] | Mic 8 [dB] | Mic 9 [dB] | Mic 10 [dB] | | | | | | | | |
| 100 | 19.2 | 18.7 | 19.0 | 17.0 | 18.2 | 18.0 | 17.2 | 18.8 | 17.1 | 20.9 | 18.6 | 12.9 | 0.23 | -2.0 | 20.3 | 31.8 | -19.1 | 12.7 |
| 125 | 23.9 | 21.6 | 22.7 | 22.4 | 22.0 | 24.0 | 22.1 | 23.1 | 21.4 | 22.7 | 22.7 | 17.7 | 0.00 | 1.5 | 21.2 | 32.7 | -16.1 | 16.6 |
| 160 | 24.9 | 24.4 | 23.5 | 23.0 | 21.9 | 24.5 | 23.5 | 24.2 | 22.1 | 24.9 | 23.8 | 24.1 | 0.00 | 0.3 | 23.5 | 35.0 | -13.4 | 21.6 |
| 200 | 42.4 | 40.2 | 40.4 | 37.6 | 37.7 | 41.3 | 38.6 | 38.7 | 37.8 | 40.4 | 39.8 | 46.3 | 0.00 | -0.1 | 39.9 | 51.4 | -10.9 | 40.5 |
| 250 | 30.7 | 29.2 | 29.3 | 27.7 | 28.2 | 28.4 | 26.4 | 26.7 | 26.7 | 28.1 | 28.3 | 36.4 | 0.00 | 1.1 | 27.2 | 38.7 | -8.6 | 30.1 |
| 315 | 38.2 | 38.7 | 39.1 | 33.8 | 35.1 | 34.4 | 33.2 | 32.9 | 33.4 | 35.2 | 36.0 | 44.3 | 0.00 | 0.6 | 35.4 | 46.9 | -6.6 | 40.3 |
| 400 | 31.1 | 31.5 | 31.4 | 26.4 | 26.0 | 26.5 | 27.2 | 27.1 | 27.4 | 27.2 | 28.7 | 38.1 | 0.00 | 0.5 | 28.2 | 39.7 | -4.8 | 34.9 |
| 500 | 34.6 | 34.3 | 34.0 | 27.8 | 28.1 | 27.8 | 29.9 | 30.1 | 30.4 | 30.8 | 31.5 | 40.8 | 0.00 | 0.5 | 31.1 | 42.6 | -3.2 | 39.4 |
| 630 | 37.0 | 36.8 | 36.8 | 35.1 | 35.8 | 34.1 | 34.1 | 34.2 | 34.4 | 34.2 | 35.4 | 44.5 | 0.00 | 0.6 | 34.8 | 46.3 | -1.9 | 44.4 |
| 800 | 34.6 | 34.8 | 35.1 | 34.2 | 34.5 | 34.0 | 33.0 | 33.3 | 33.5 | 31.0 | 33.9 | 42.5 | 0.00 | 0.7 | 33.2 | 44.7 | -0.8 | 43.9 |
| 1000 | 33.0 | 32.9 | 33.4 | 35.1 | 35.2 | 34.6 | 33.5 | 32.9 | 34.1 | 32.7 | 33.8 | 41.8 | 0.00 | 0.6 | 33.3 | 44.8 | 0 | 44.8 |
| 1250 | 33.5 | 33.1 | 33.4 | 37.1 | 37.9 | 37.2 | 35.6 | 35.8 | 36.2 | 33.7 | 35.7 | 43.0 | 0.00 | 0.5 | 35.1 | 46.6 | 0.6 | 47.2 |
| 1600 | 34.0 | 33.1 | 32.3 | 35.8 | 36.8 | 35.5 | 35.8 | 35.7 | 35.7 | 34.1 | 35.1 | 41.7 | 0.00 | 0.6 | 34.5 | 46.0 | 1 | 47.0 |
| 2000 | 30.8 | 30.8 | 30.5 | 32.1 | 32.5 | 31.1 | 32.8 | 32.8 | 33.5 | 31.7 | 32.0 | 37.7 | 0.00 | 0.9 | 31.1 | 42.6 | 1.2 | 43.8 |
| 2500 | 27.1 | 27.3 | 27.0 | 28.4 | 28.4 | 27.4 | 29.3 | 29.0 | 29.6 | 25.4 | 28.1 | 33.4 | 0.00 | -1.4 | 29.4 | 40.9 | 1.3 | 42.2 |
| 3150 | 25.6 | 25.5 | 25.4 | 26.2 | 26.1 | 25.2 | 25.3 | 25.5 | 26.0 | 23.5 | 25.5 | 30.3 | 0.00 | -0.5 | 26.0 | 37.5 | 1.2 | 38.7 |
| 4000 | 23.5 | 23.6 | 23.3 | 24.1 | 24.0 | 23.1 | 22.9 | 22.7 | 23.4 | 21.3 | 23.3 | 26.8 | 0.00 | 0.1 | 23.1 | 34.6 | 1 | 35.6 |
| 5000 | 21.6 | 21.3 | 21.2 | 21.1 | 22.0 | 21.3 | 22.4 | 21.5 | 22.6 | 17.4 | 21.4 | 25.4 | 0.00 | -0.1 | 21.5 | 33.0 | 0.5 | 33.5 |
| 6300 | 17.4 | 17.0 | 17.1 | 17.1 | 17.6 | 16.7 | 16.8 | 16.8 | 17.4 | 14.3 | 16.9 | 21.0 | 0.00 | 0.2 | 16.7 | 28.2 | -0.1 | 28.1 |
| 8000 | 12.7 | 11.7 | 11.9 | 13.3 | 12.7 | 12.0 | 12.4 | 12.6 | 13.3 | 9.3 | 12.3 | 15.9 | 0.00 | -0.6 | 13.0 | 24.5 | -1.1 | 23.4 |
| 10000 | 14.5 | 13.0 | 13.1 | 14.5 | 15.4 | 14.6 | 14.1 | 16.9 | 16.5 | 8.1 | 14.6 | 17.3 | 0.00 | -0.3 | 14.9 | 26.4 | -2.5 | 23.9 |
| | | | | | | | | | | | | | | | | | **A-WEIGHTED SOUND POWER LEVEL** | **54.4** |

## Appendix 3 – Measured time averaged sound pressure level of RSS, $L'_{P(RSS)}$ at each microphone position

| Frequency | Mic 1 | Mic 2 | Mic 3 | Mic 4 | Mic 5 | Mic 6 | Mic 7 | Mic 8 | Mic 9 | Mic 10 | Average $L'_{P(RSS)}$ over microphone positions | Calculated Sound Power of RSS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [Hz] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] | [dB] |
| 100 | 64.3 | 61.5 | 63.0 | 61.9 | 62.5 | 63.1 | 61.5 | 63.0 | 61.4 | 57.0 | 62.2 | 73.7 |
| 125 | 66.6 | 65.9 | 65.0 | 66.5 | 65.1 | 67.3 | 63.4 | 65.3 | 65.6 | 57.8 | 65.4 | 76.9 |
| 160 | 65.9 | 66.2 | 65.5 | 65.1 | 64.4 | 67.6 | 62.7 | 63.1 | 63.9 | 57.5 | 64.8 | 76.3 |
| 200 | 67.0 | 65.4 | 65.4 | 65.0 | 64.0 | 65.4 | 63.3 | 63.1 | 63.1 | 58.7 | 64.5 | 76.0 |
| 250 | 68.1 | 66.7 | 66.9 | 67.2 | 67.2 | 65.2 | 63.1 | 61.9 | 63.7 | 59.2 | 65.6 | 77.1 |
| 315 | 67.1 | 68.0 | 67.9 | 66.1 | 66.6 | 65.3 | 61.3 | 62.3 | 61.5 | 62.4 | 65.5 | 77.0 |
| 400 | 67.8 | 68.4 | 68.2 | 65.3 | 64.7 | 65.2 | 61.0 | 60.9 | 61.1 | 60.6 | 65.3 | 76.8 |
| 500 | 68.9 | 68.5 | 68.7 | 64.5 | 64.8 | 64.6 | 60.8 | 60.6 | 60.8 | 62.0 | 65.6 | 77.1 |
| 630 | 69.4 | 69.1 | 69.3 | 63.4 | 63.6 | 63.2 | 63.2 | 63.0 | 63.0 | 65.8 | 66.2 | 77.7 |
| 800 | 69.9 | 70.4 | 70.8 | 62.7 | 62.4 | 62.1 | 67.4 | 67.2 | 67.1 | 69.0 | 67.9 | 79.4 |
| 1000 | 70.9 | 70.3 | 71.0 | 63.0 | 62.9 | 62.4 | 69.8 | 69.8 | 69.9 | 66.9 | 68.8 | 80.3 |
| 1250 | 70.9 | 71.0 | 71.1 | 70.4 | 70.1 | 69.6 | 69.9 | 69.8 | 69.7 | 71.5 | 70.4 | 81.9 |
| 1600 | 68.5 | 69.0 | 69.5 | 73.2 | 73.2 | 72.6 | 68.8 | 68.7 | 69.1 | 69.7 | 70.7 | 82.2 |
| 2000 | 68.3 | 68.8 | 69.0 | 72.2 | 72.1 | 71.6 | 71.3 | 70.9 | 71.4 | 67.2 | 70.6 | 82.1 |
| 2500 | 63.4 | 63.9 | 64.4 | 67.2 | 67.1 | 66.7 | 68.1 | 68.0 | 68.2 | 64.9 | 66.5 | 78.0 |
| 3150 | 65.4 | 63.7 | 63.7 | 70.1 | 69.6 | 68.9 | 66.8 | 66.8 | 67.2 | 62.8 | 67.2 | 78.7 |
| 4000 | 66.8 | 66.5 | 66.7 | 70.2 | 69.6 | 68.9 | 66.6 | 66.7 | 67.0 | 63.3 | 67.6 | 79.1 |
| 5000 | 69.1 | 67.9 | 68.7 | 66.2 | 66.7 | 66.9 | 65.4 | 65.3 | 65.9 | 60.3 | 66.8 | 78.3 |
| 6300 | 68.3 | 67.4 | 68.6 | 65.9 | 66.2 | 66.2 | 64.0 | 63.4 | 64.0 | 59.4 | 66.0 | 77.5 |
| 8000 | 64.7 | 63.3 | 64.5 | 64.8 | 64.0 | 63.9 | 63.3 | 62.0 | 63.2 | 57.2 | 63.5 | 75.0 |
| 10000 | 63.0 | 61.3 | 62.9 | 62.9 | 62.6 | 62.7 | 61.4 | 59.9 | 61.6 | 55.9 | 61.8 | 73.3 |