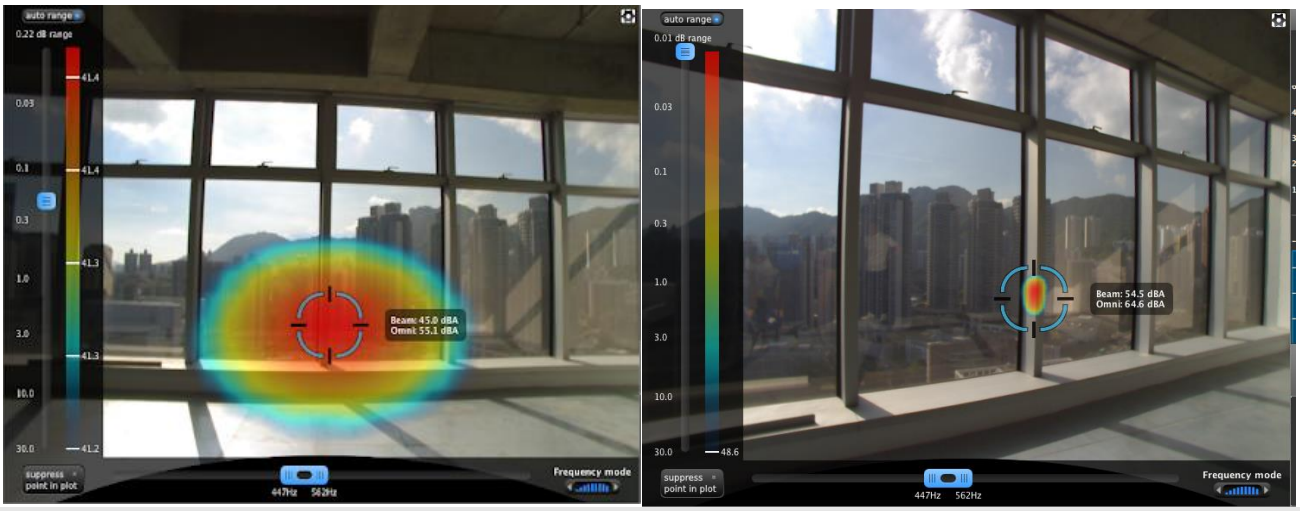
Environmental Consultancy Services
Noise Source Identification by Acoustic Camera at Maxgrand Plaza

ANEWR
Environmental & I.T. Consultants



CLIENT: SUN WIN DEVELOPMENT LIMITED

LOCATION: HONG KONG

DATE: MAY 2018

TAGS: ACOUSTIC CAMERA, MULLION, NOISE SOURCE IDENTIFICATION, OFFICE BUILDING, MAXGRAND PLAZA, NOISE MEASUREMENT

USE OF TECHNOLOGY: ACOUSTIC CAMERA, NOISE SOURCE IDENTIFICATION

Background

From the early morning to the afternoon, notifiable noise was heard at the offices of the east and west wings of the Maxgrand Plaza. There was a need to identify the noise source in order to restore defects of this commercial building.

Our Roles

ANewR Consulting Limited performs noise source identification by utilising the acoustic camera for noise measurements at Maxgrand Plaza. The noise measurements include an initial identification of noise sources and a detailed analysis on the cause of noise at 2 offices on 25/F.

Key Values to Client

As the noise was omni-directional and reverberant within the office, the noise source identification was too difficult even with the aid of acoustic measurement instruments. To tackle the issue, we adopt the acoustic camera equipped with its specific beam-forming technique, which proves to be one practical solution. ANewR, as the consultant of the MTR Corporation Limited for the noisy wheelset identification, is experienced in identifying noise sources following apt identification procedures with state-of-the-art acoustic cameras. In this assignment, ANewR identifies the thermal differences between two metallic joints at the mullion as the potential source of noise. With our expertise and advice to successfully tackle thermal and acoustic issues, our client will be able to carry out target-oriented remedial works accordingly to improve the office environment.