

# APPENDICE B

## Studio del posizionamento

### B.1 Microfono puntato al centro delle due ruote test

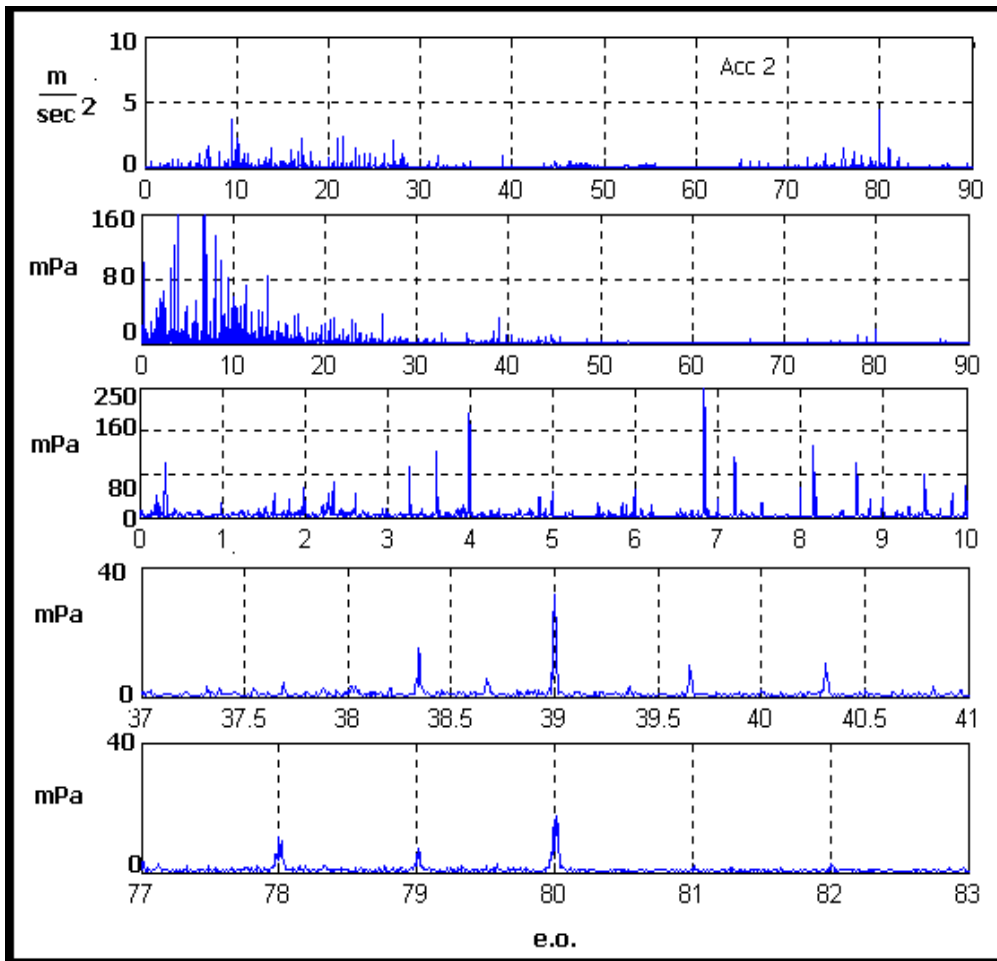


Figura B- 1 400 mm da zona test- FFT

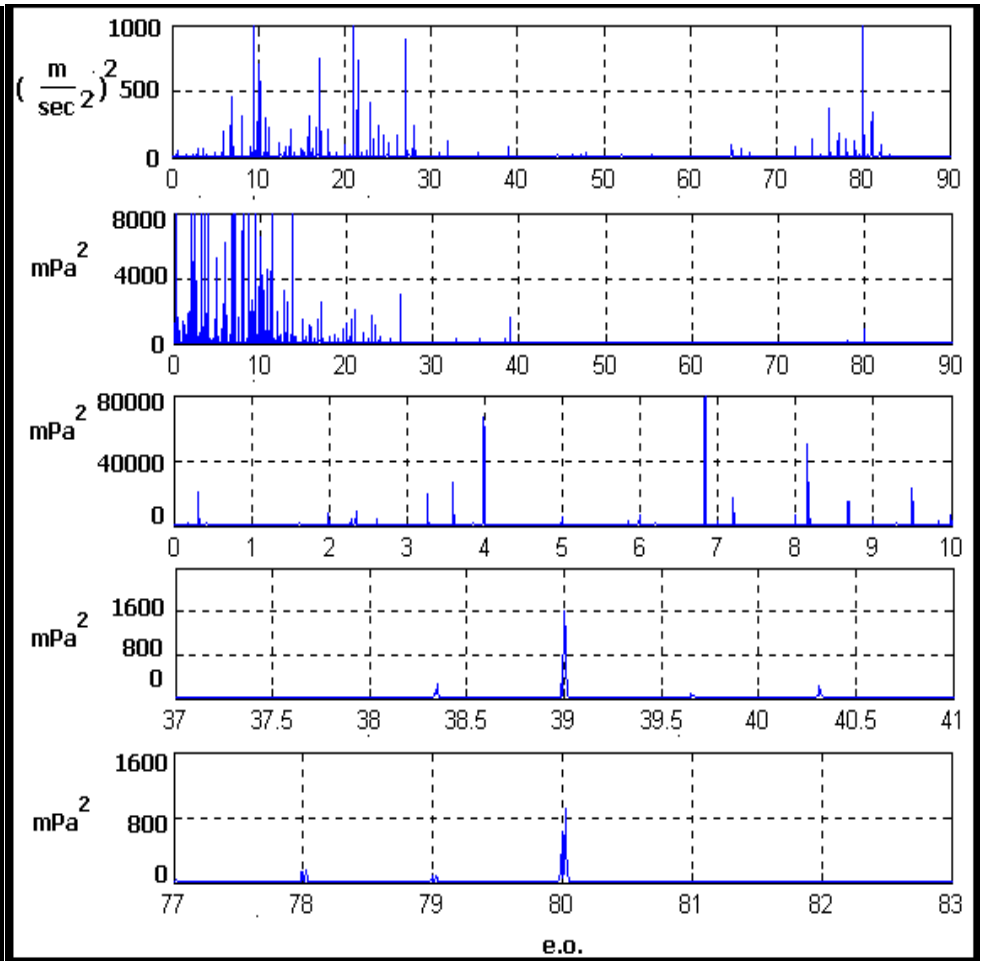


Figura B- 2 400 mm da zona test- PSD

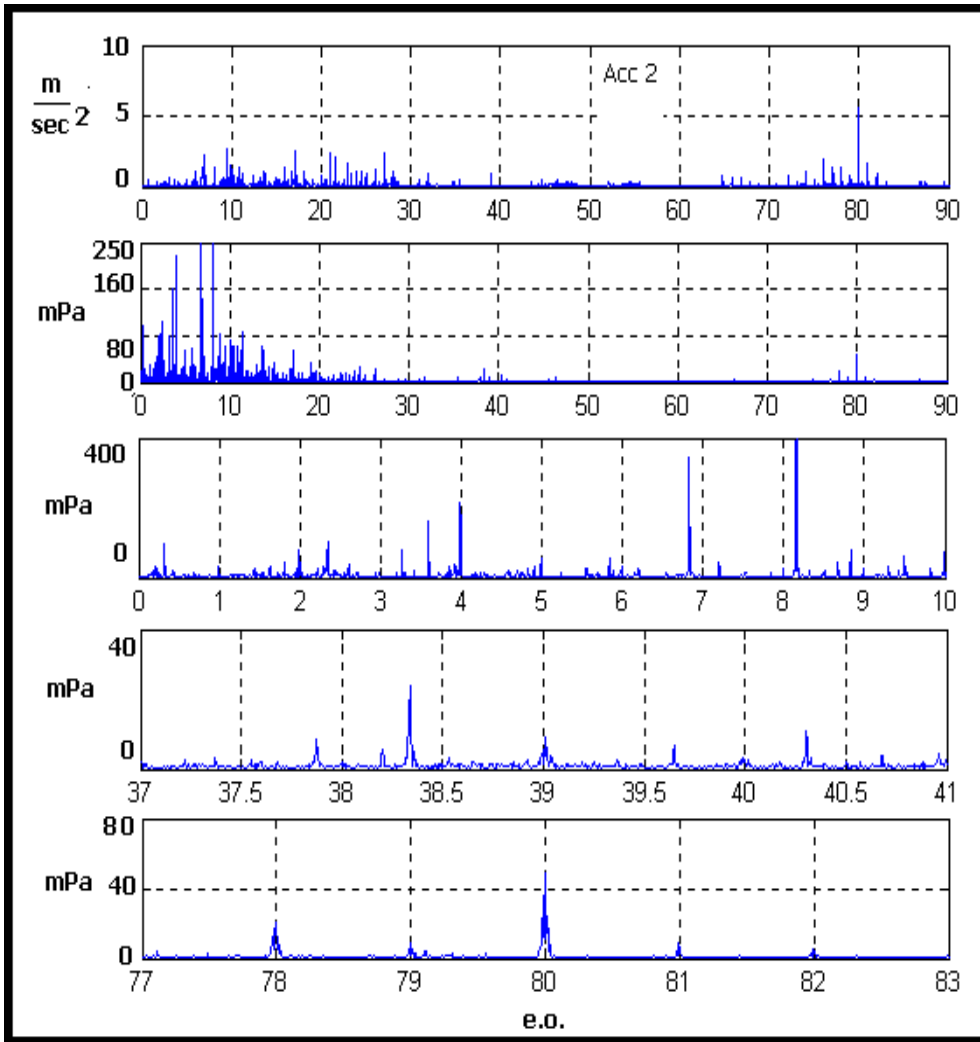


Figura B- 3 300 mm da zona test- FFT

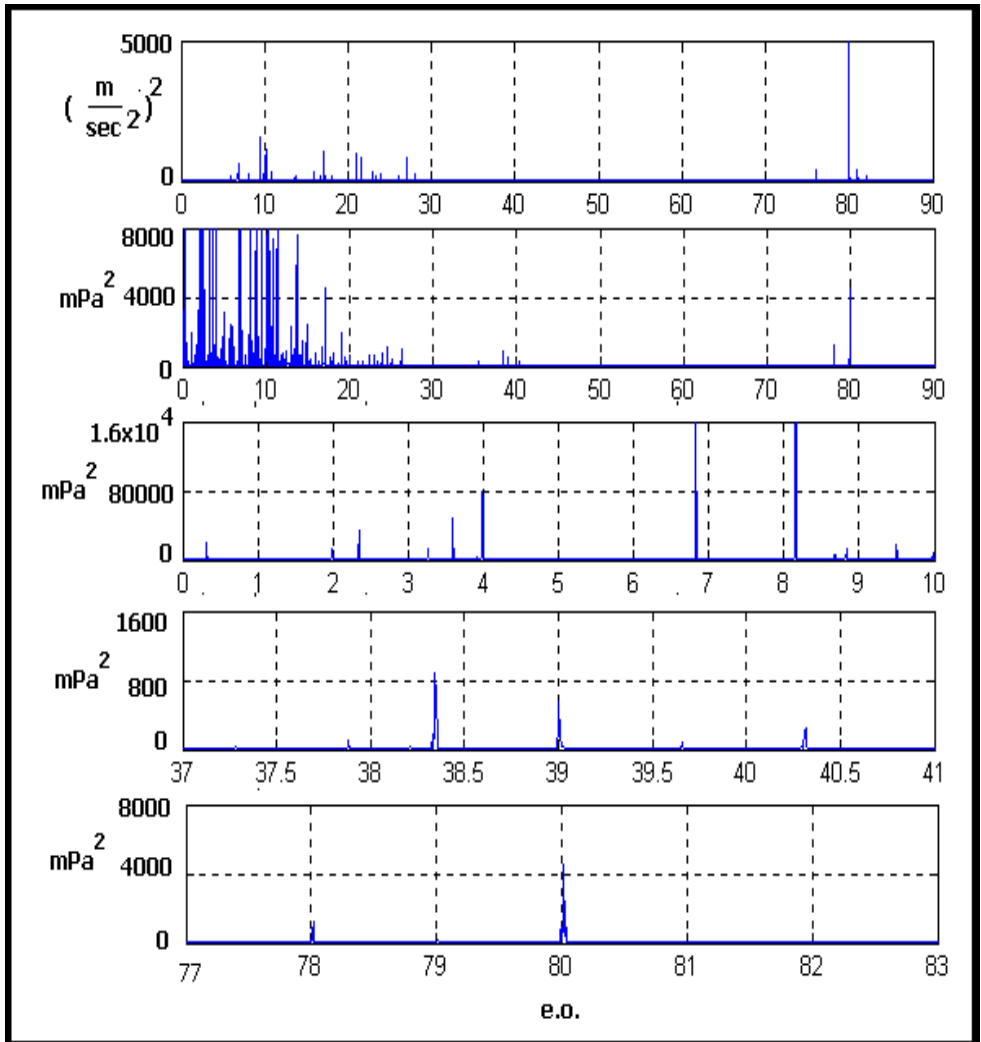


Figura B- 4 300 mm da zona test- PSD

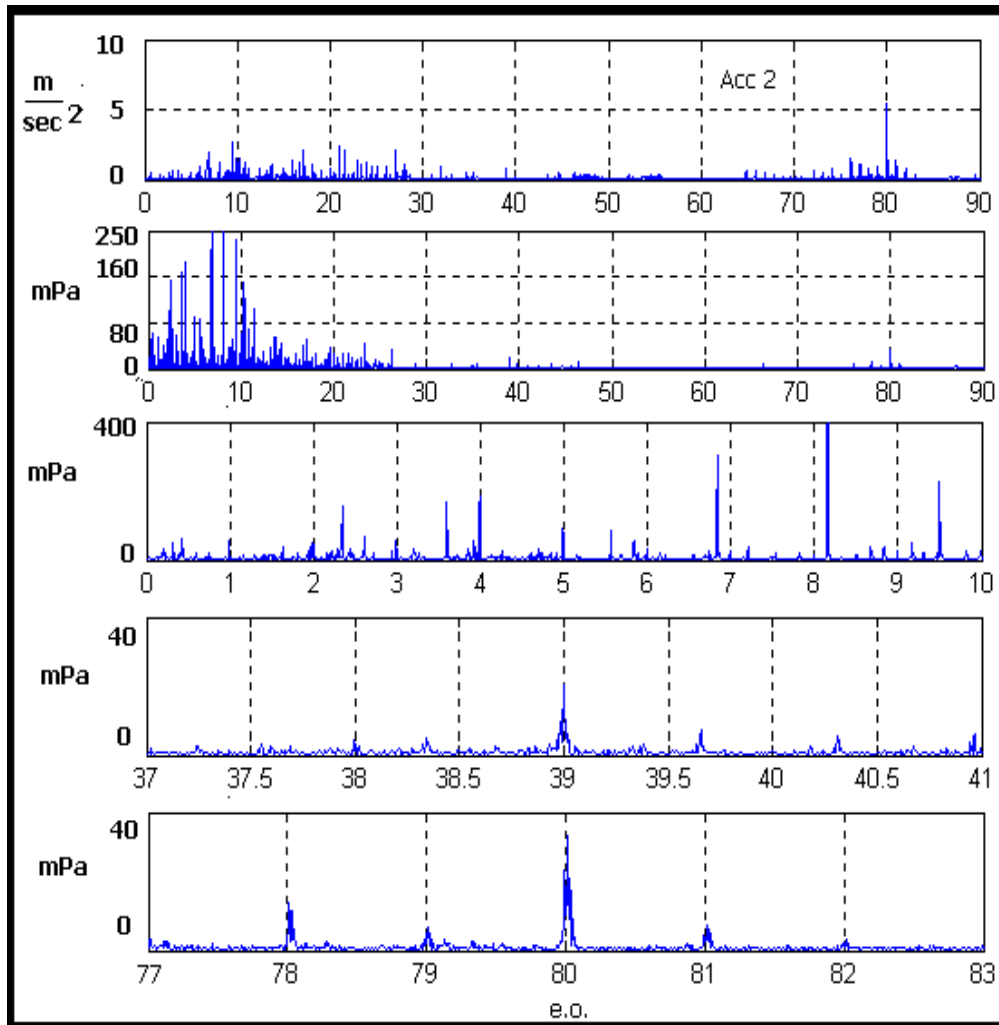


Figura B- 5 200 mm da zona test- FFT

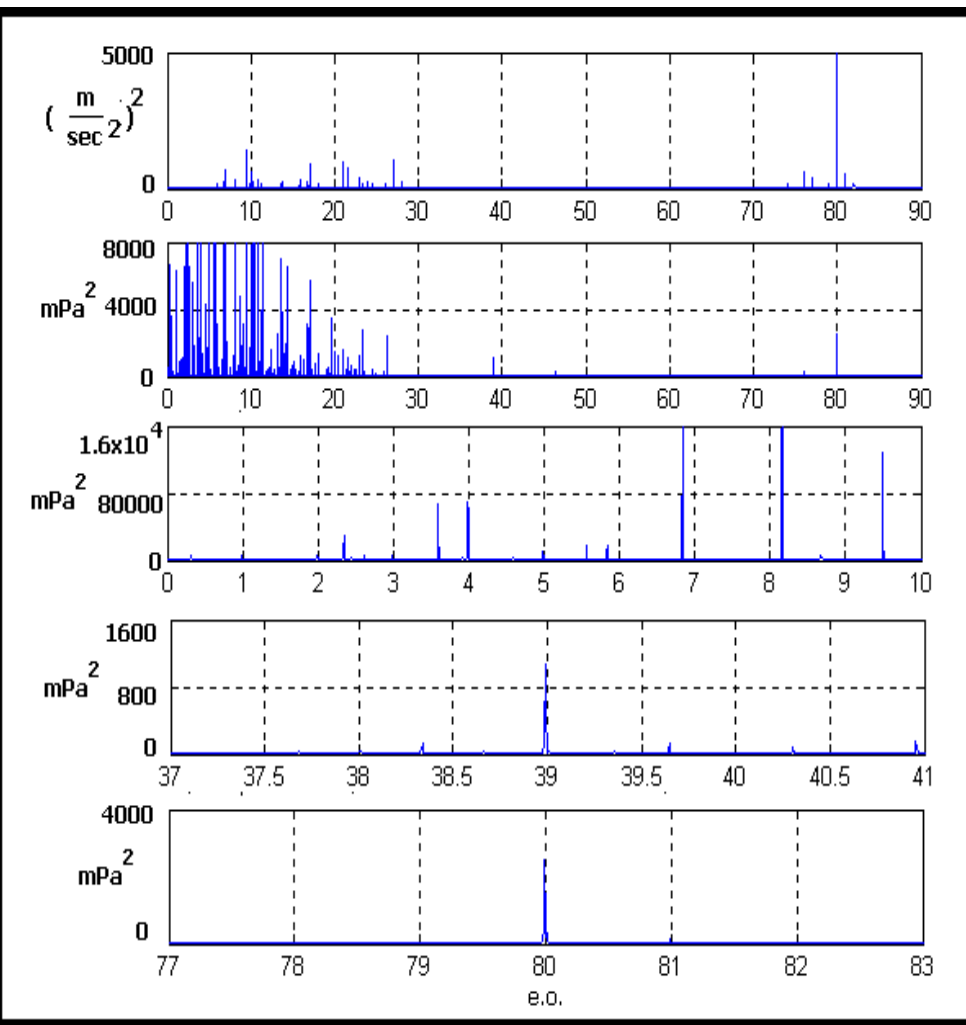


Figura B- 6 200 mm da zona test- PSD

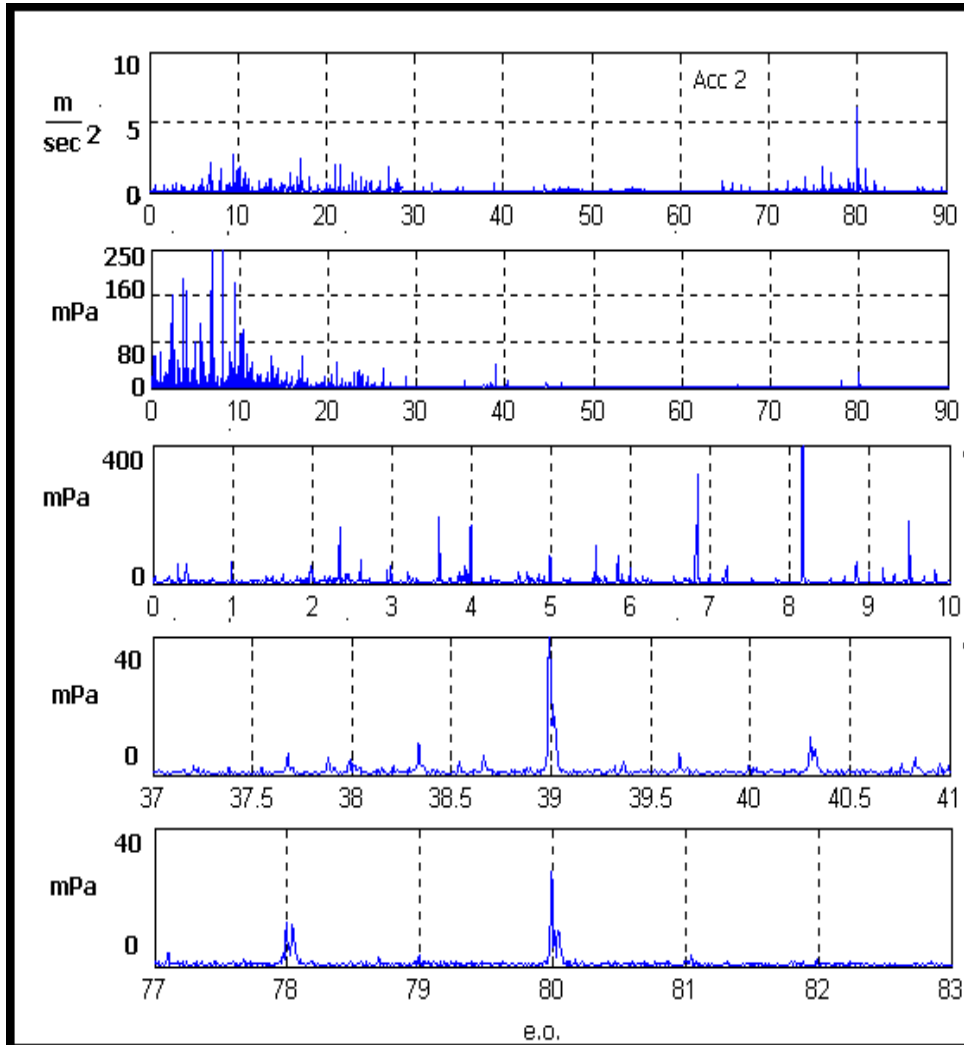


Figura B- 7 150 mm da zona test- FFT

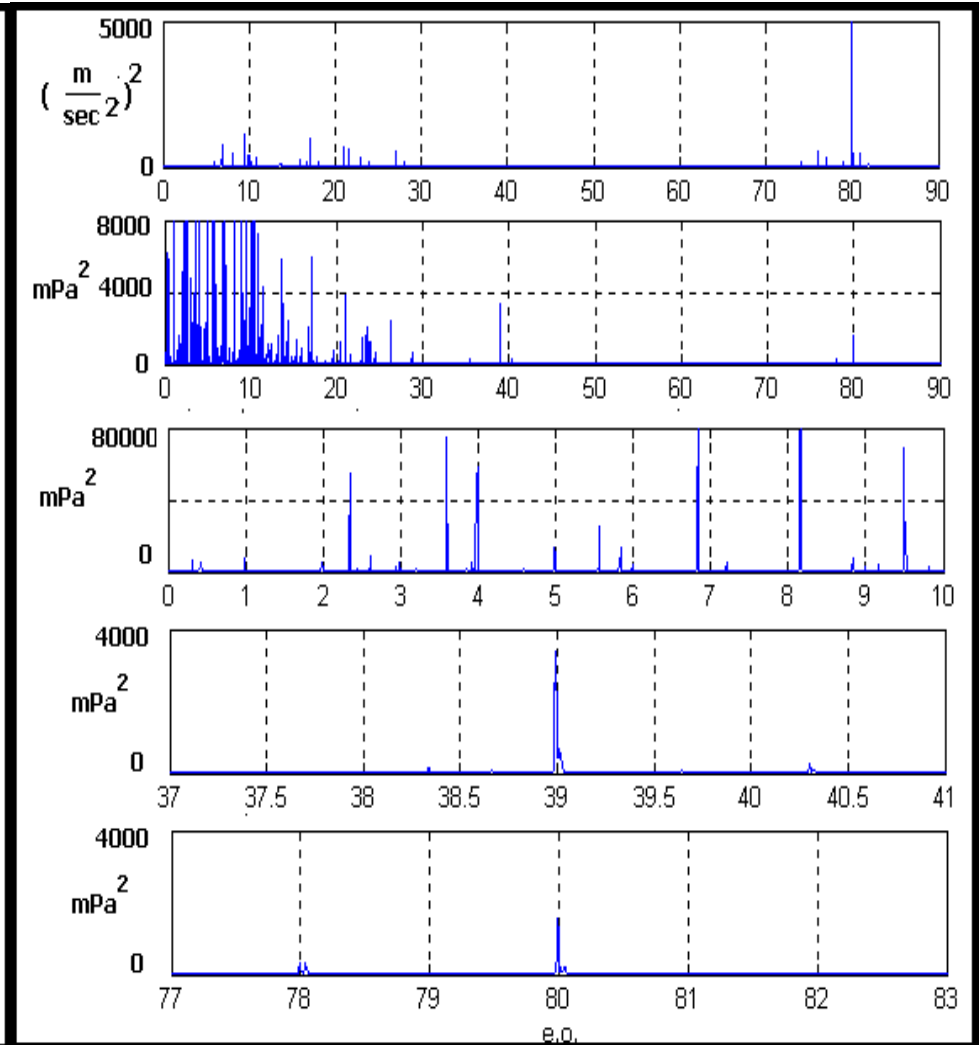


Figura B- 8 150 mm da zona test- PSD

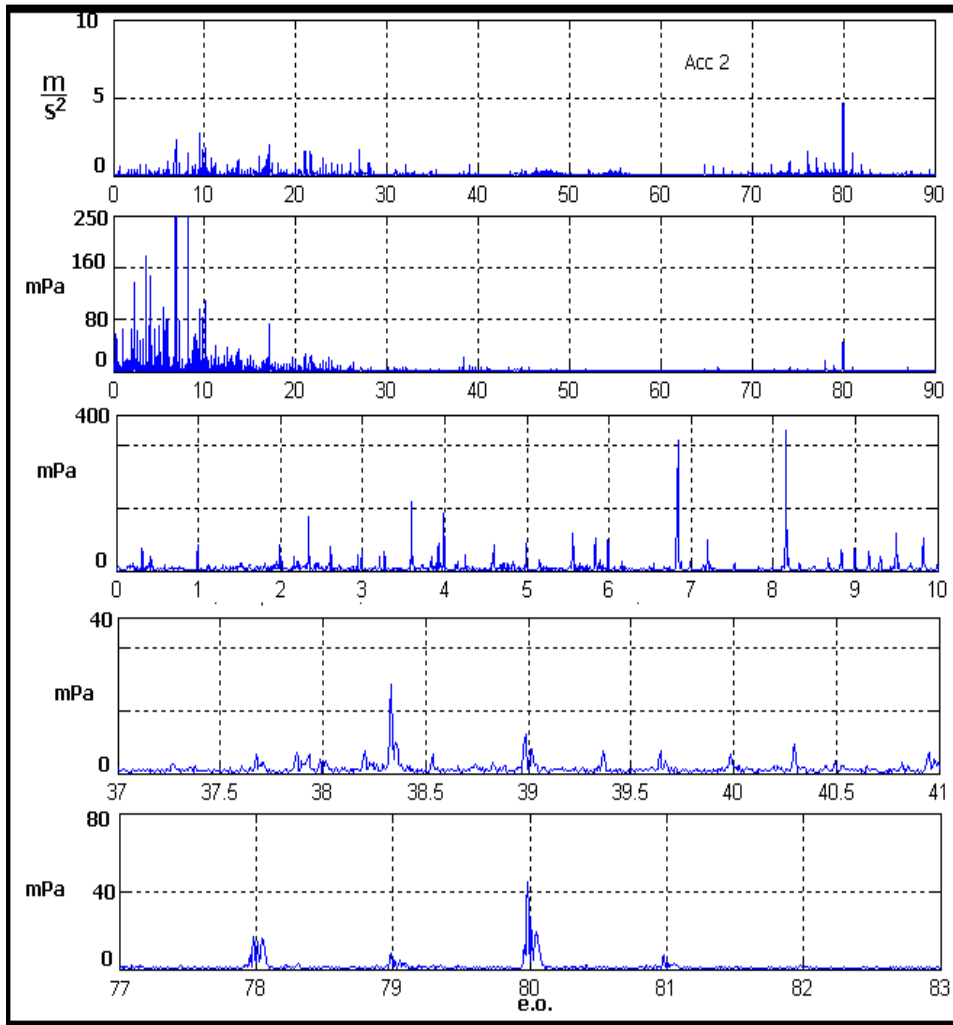


Figura B- 9 100 mm da zona test- FFT

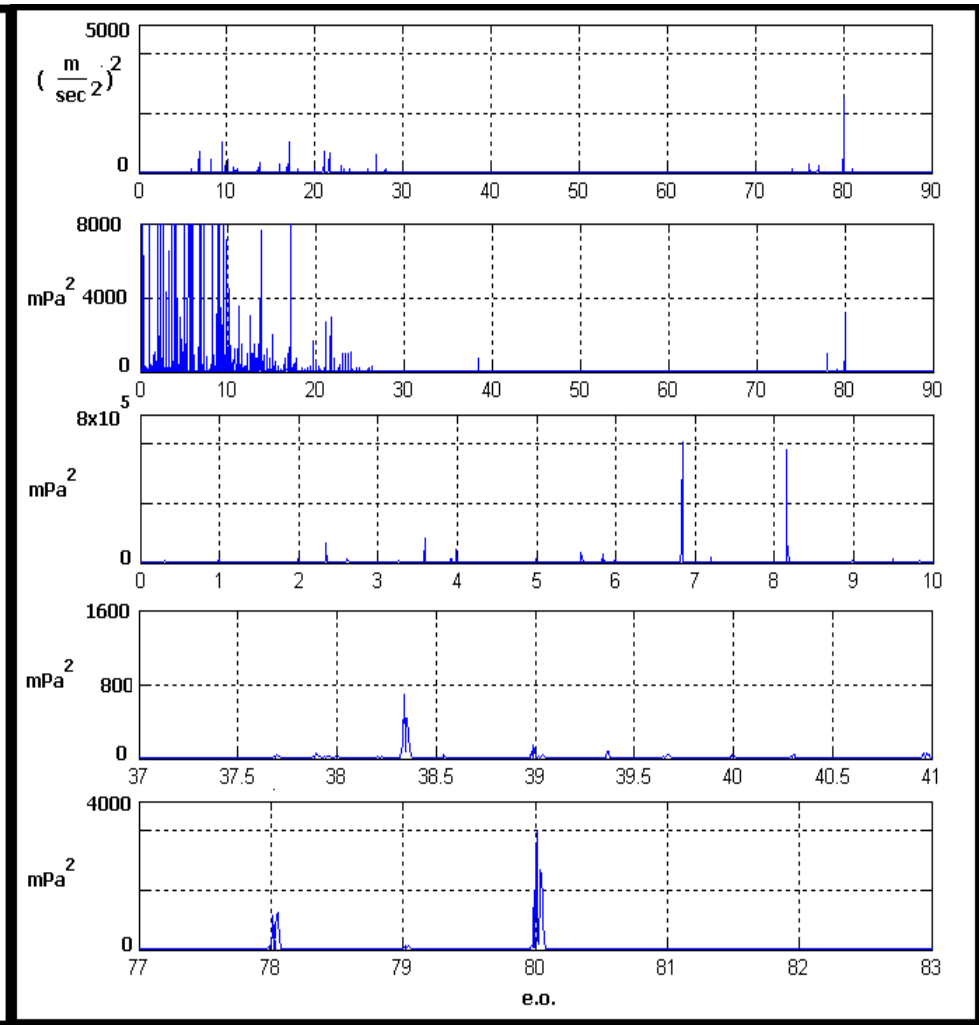


Figura B- 10 100 mm da zona test- PSD

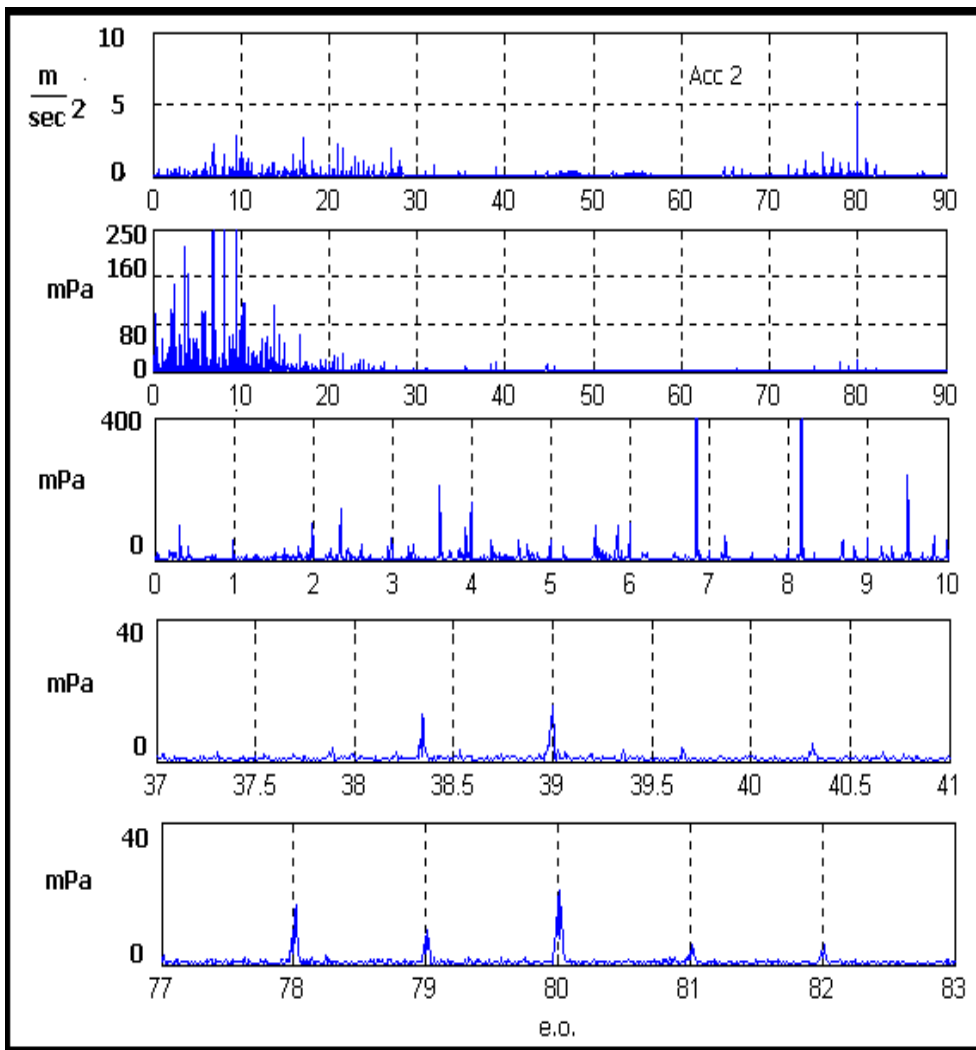


Figura B- 11 50 mm da zona test- FFT

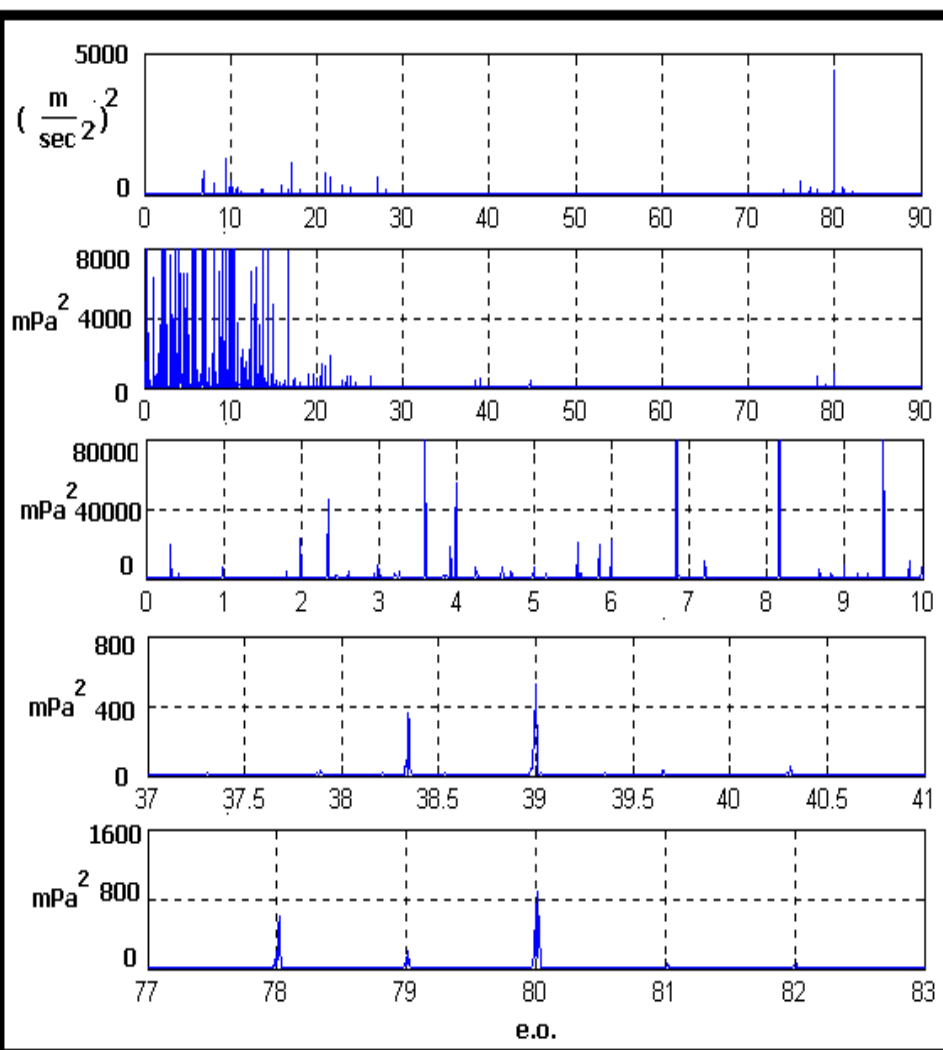


Figura B- 12 50 mm da zona test- PSD

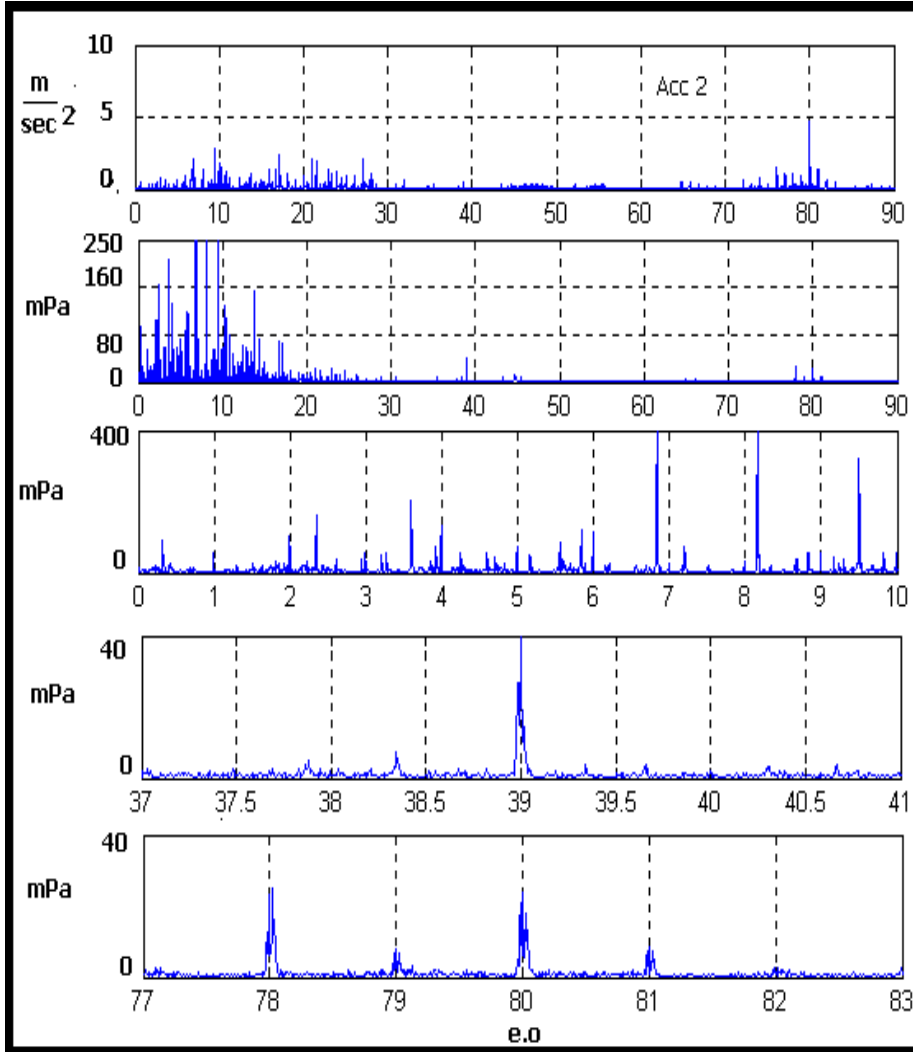


Figura B- 13 30 mm da zona test- FFT

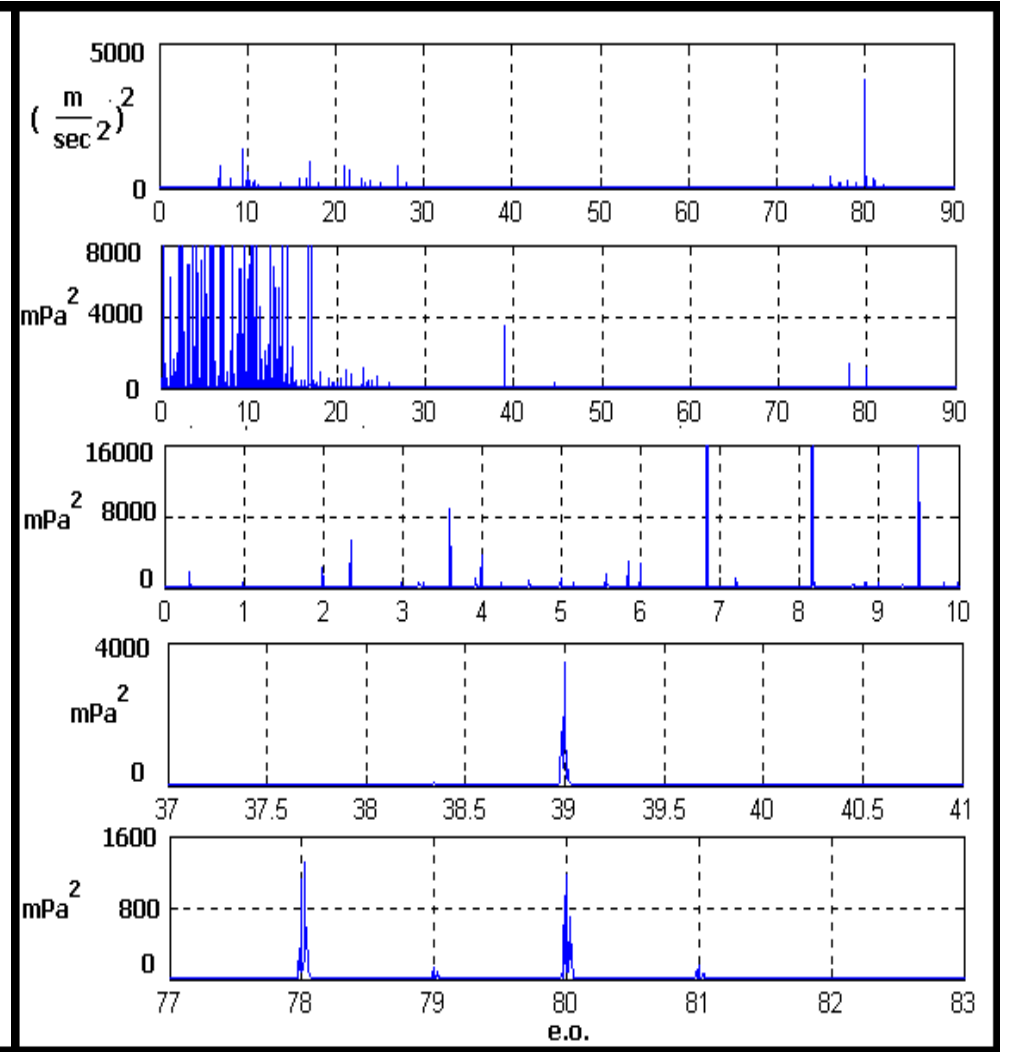


Figura B- 14 30 mm da zona test- PSD

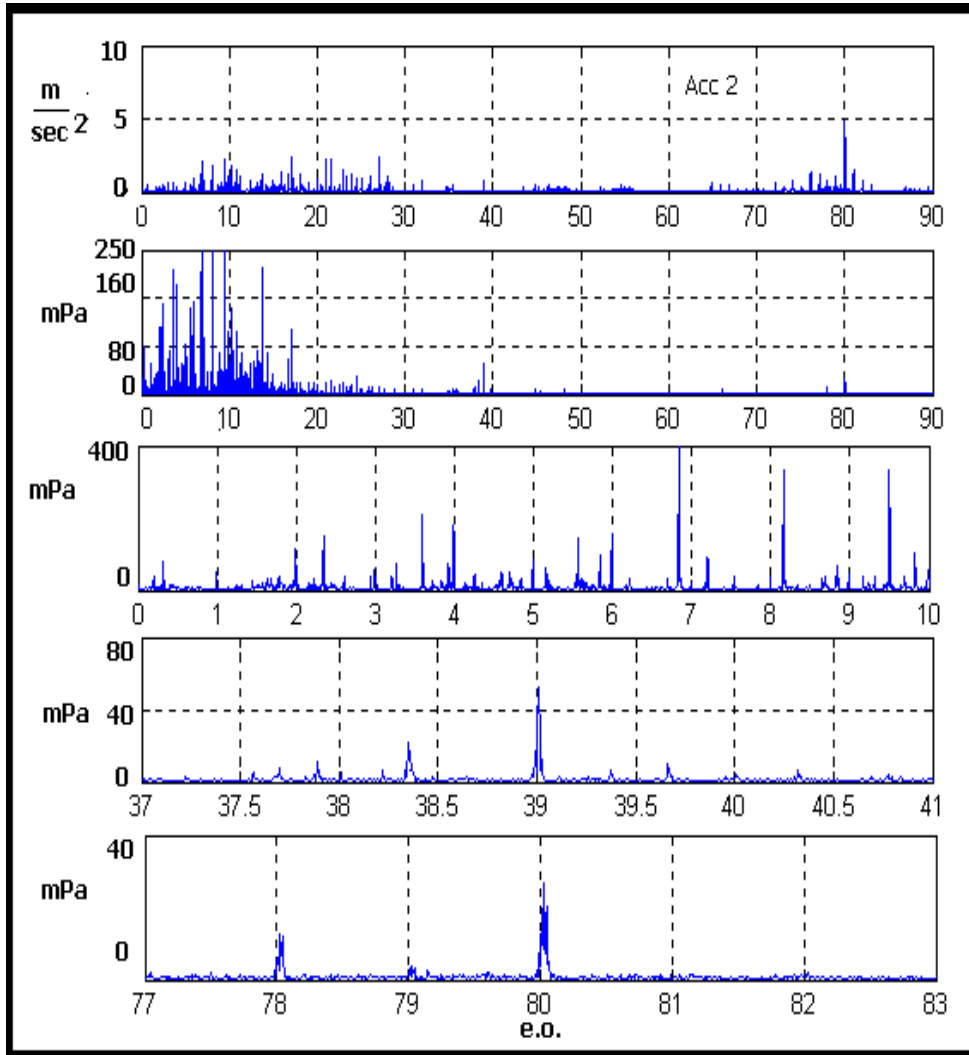


Figura B- 15 10 mm da zona test- FFT

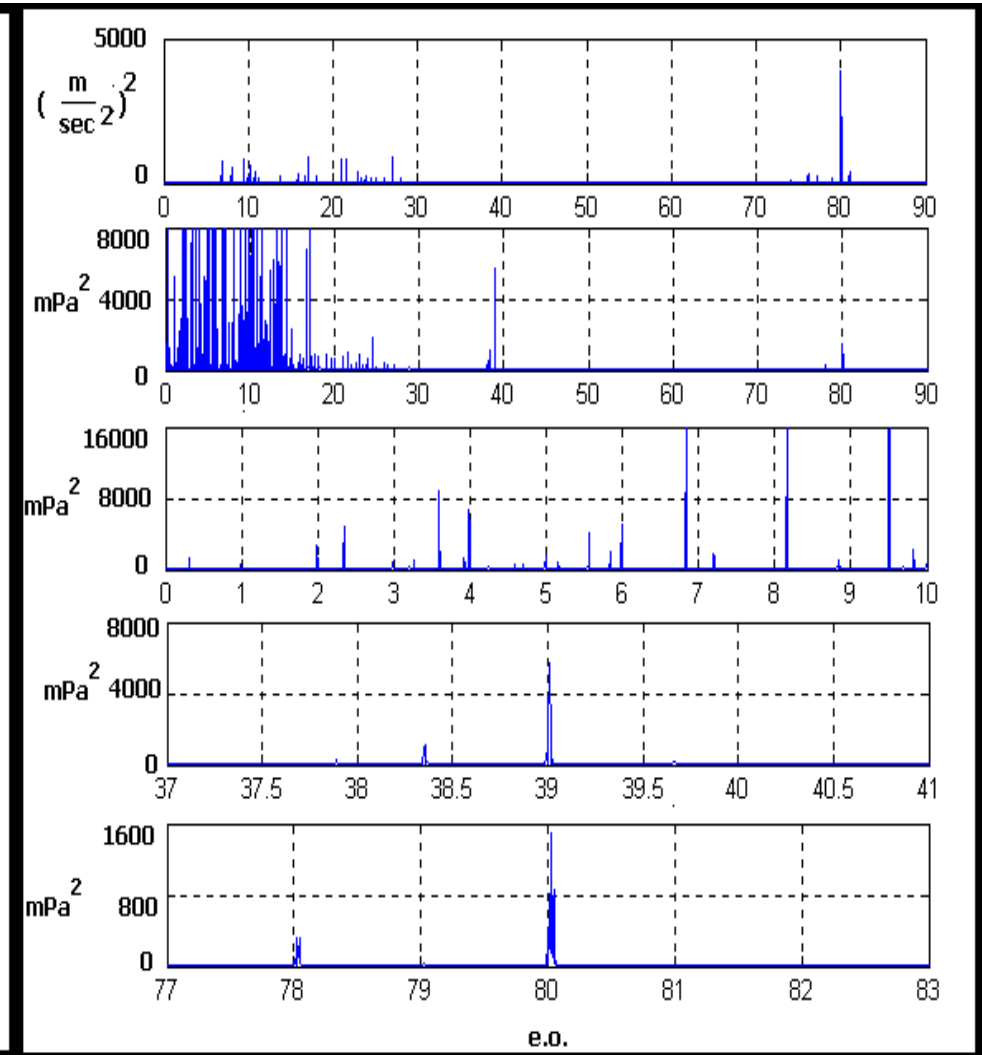


Figura B- 16 10 mm da zona test- FFT



**B.2 Microfono puntato al centro della ruota test destra**

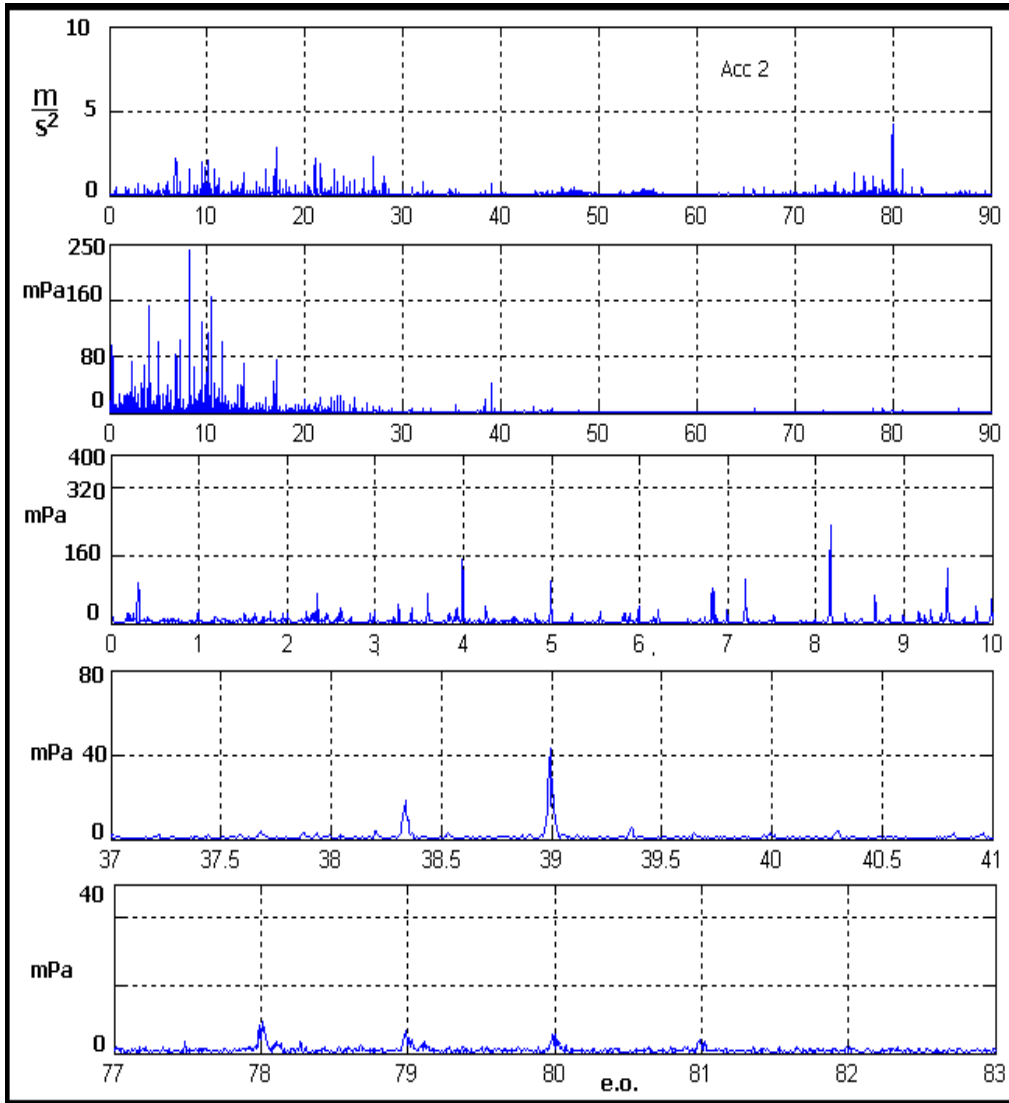


Figura B- 17 400 mm dalla ruota destra test - FFT

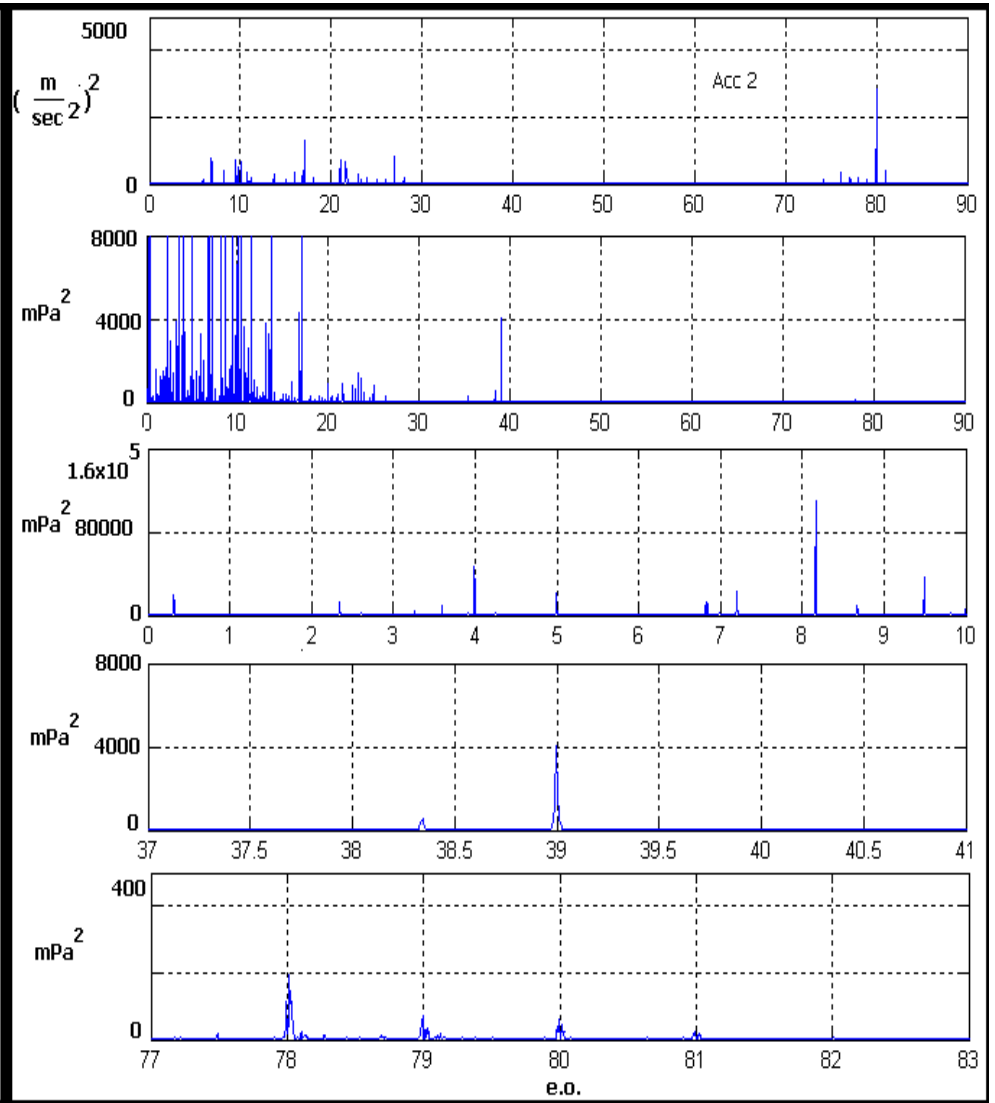


Figura B- 18 400 mm dalla ruota destra test - PSD

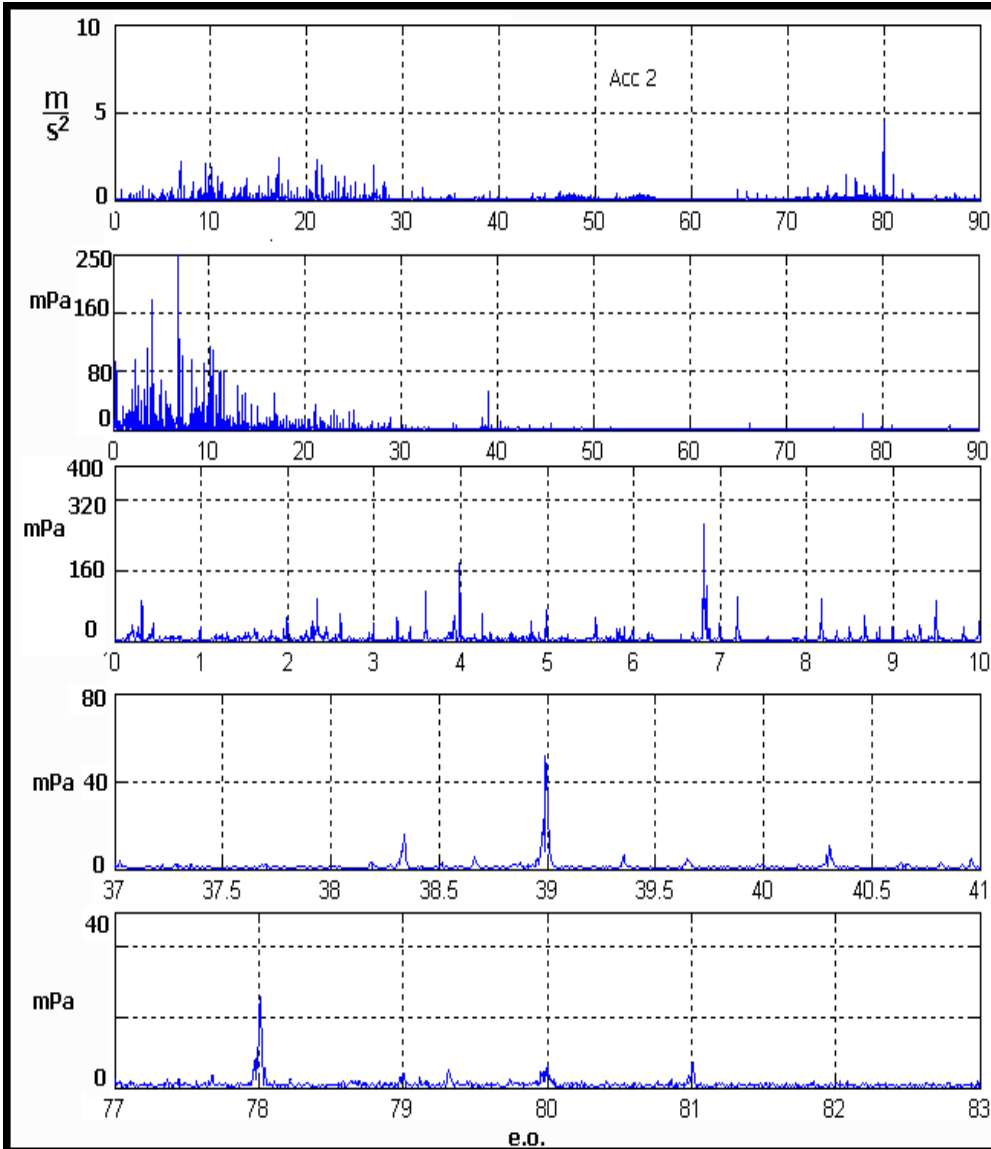


Figura B- 19 300 mm dalla ruota destra test - FFT

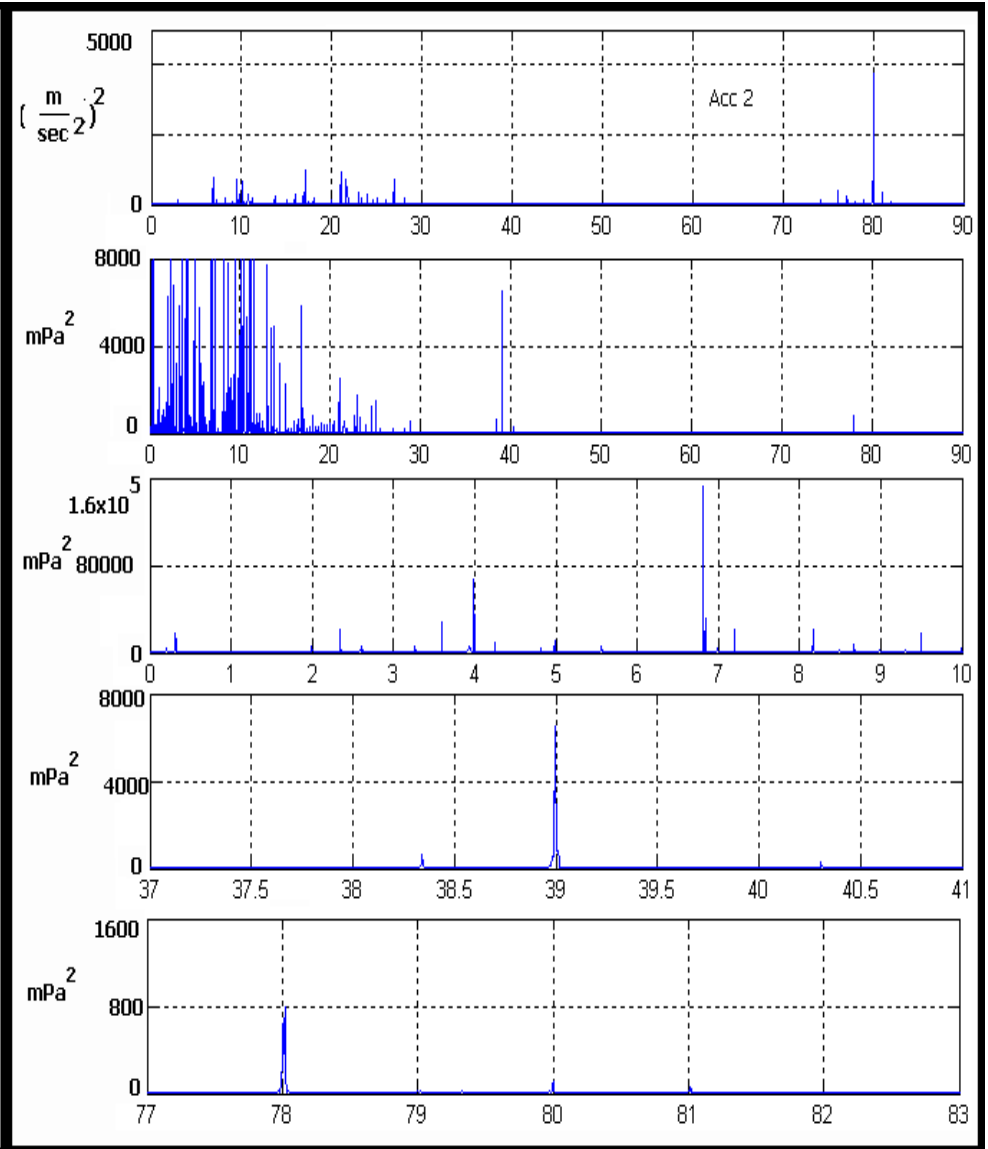


Figura B- 20 300 mm dalla ruota destra test - PSD

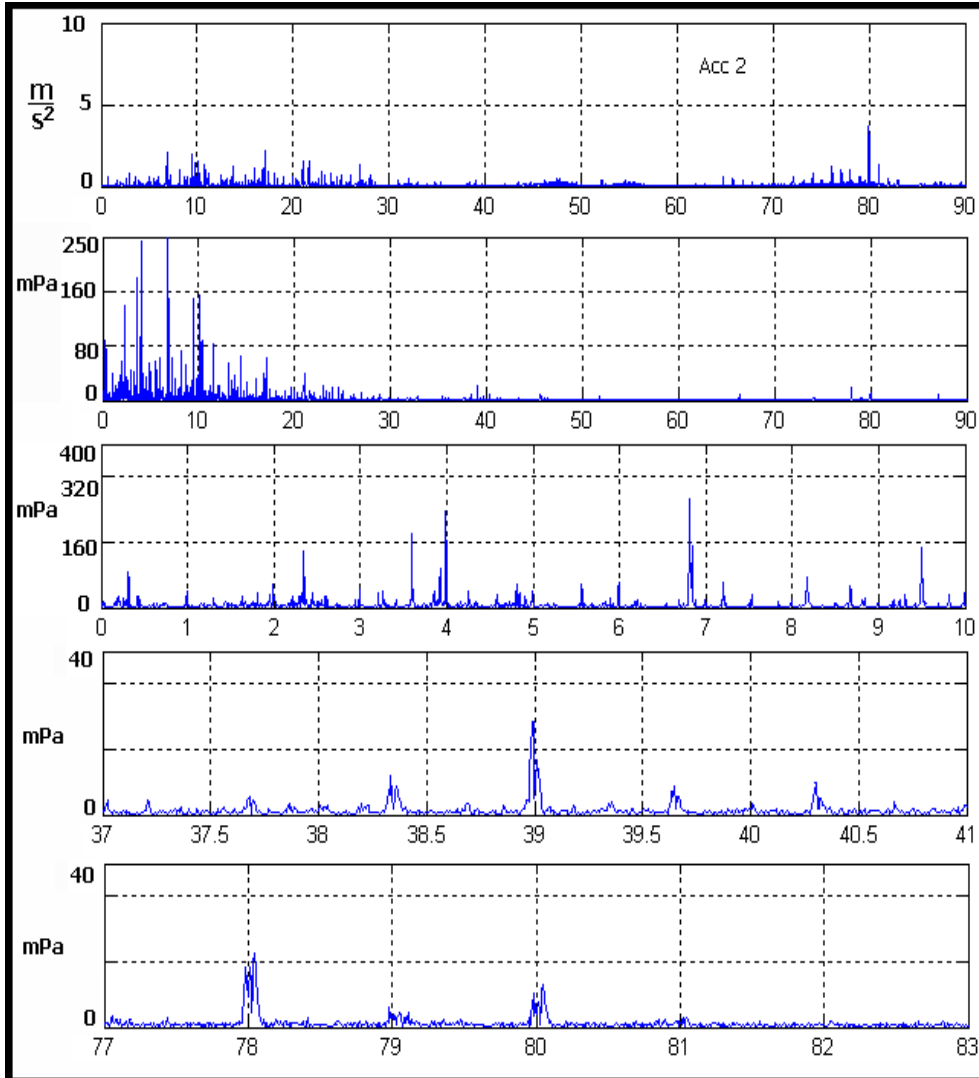


Figura B- 21 200 mm dalla ruota destra test - FFT

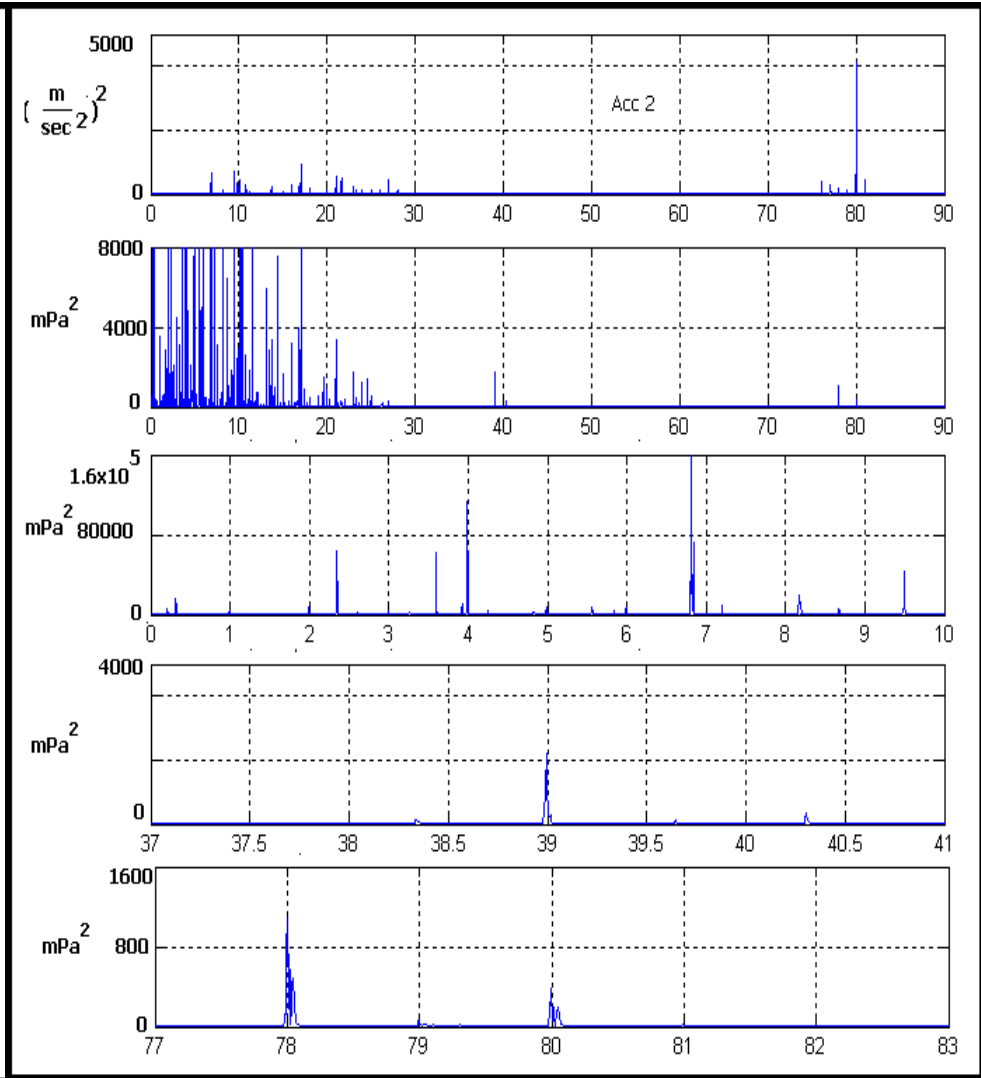


Figura B- 22 200 mm dalla ruota destra test - PSD

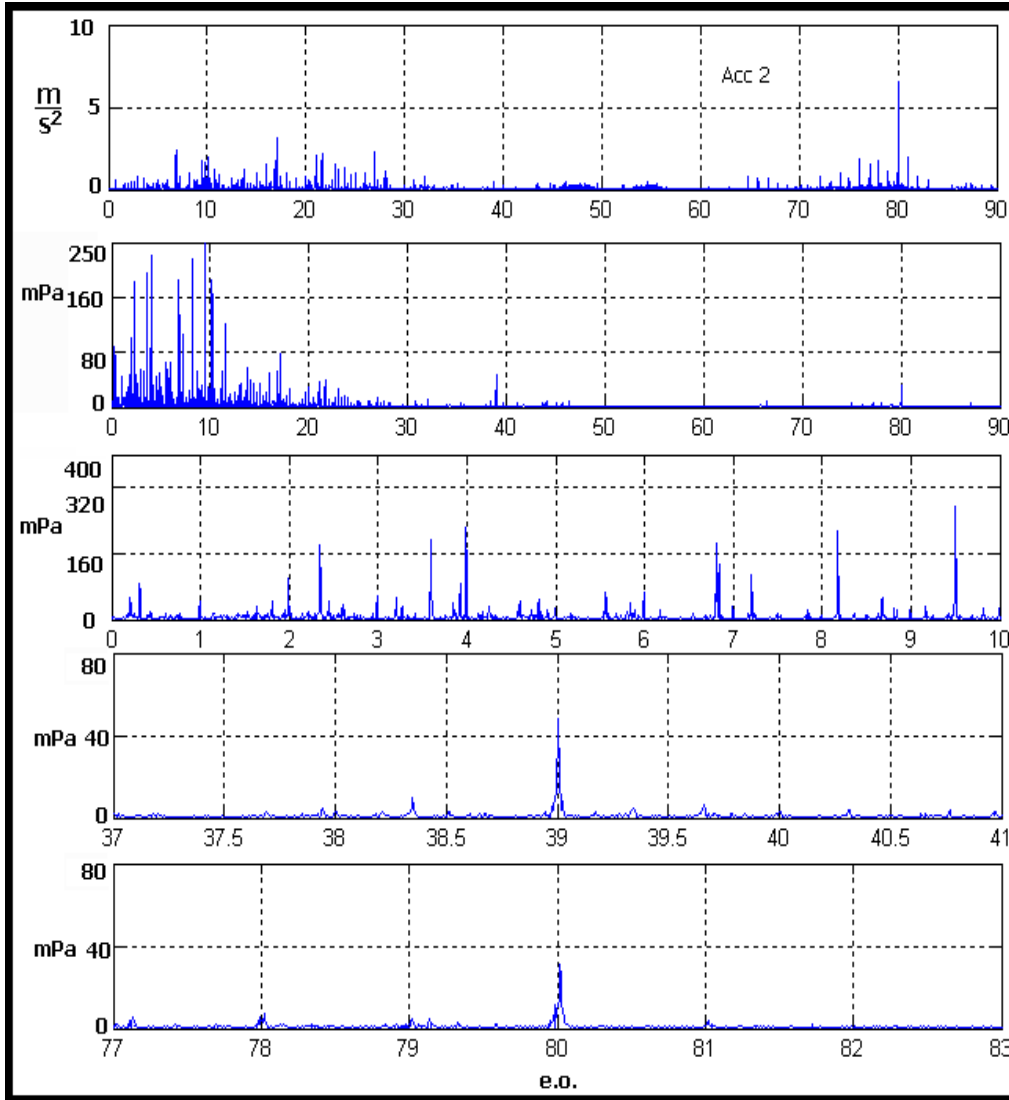


Figura B- 23 150 mm dalla ruota destra test - FFT

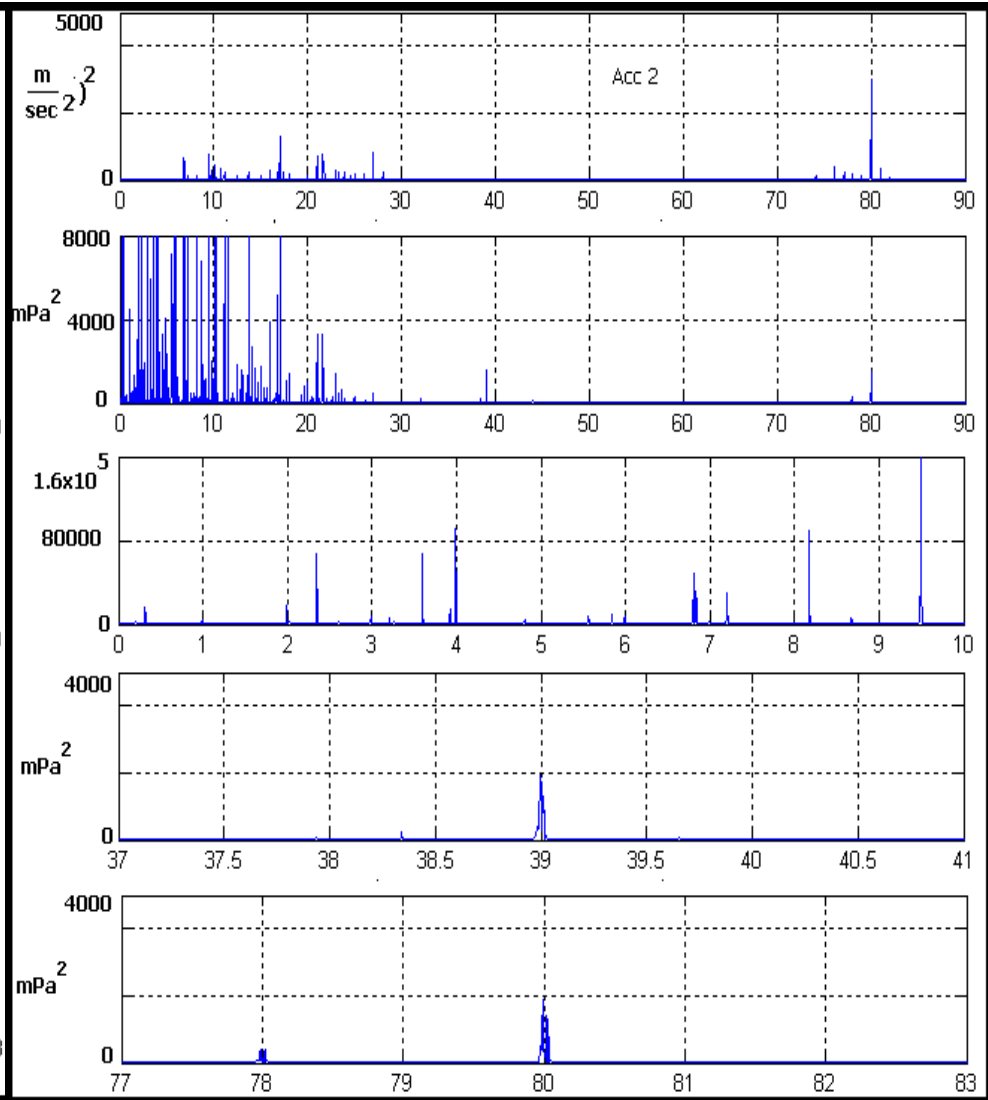


Figura B- 24 150 mm dalla ruota destra test - PSD

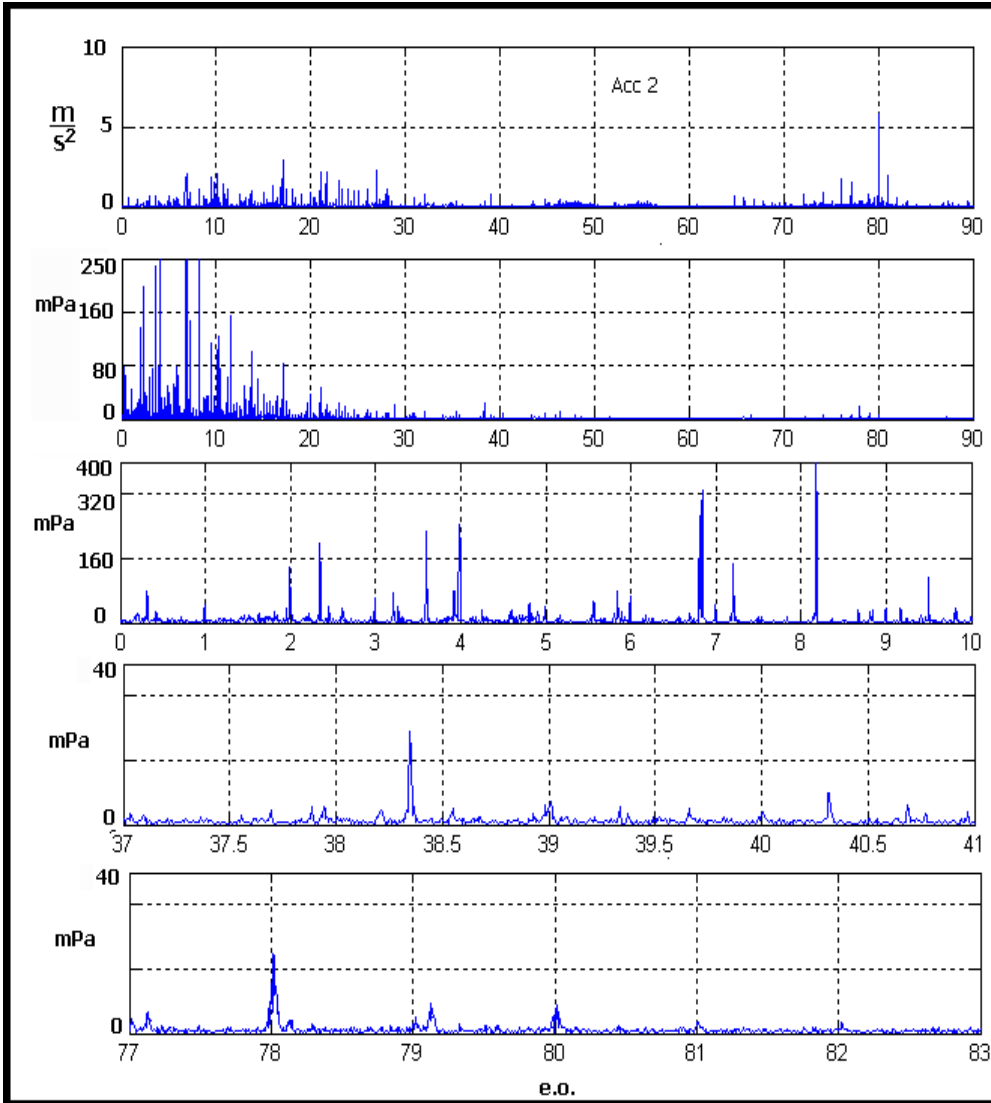


Figura B- 25 100 mm dalla ruota destra test - FFT

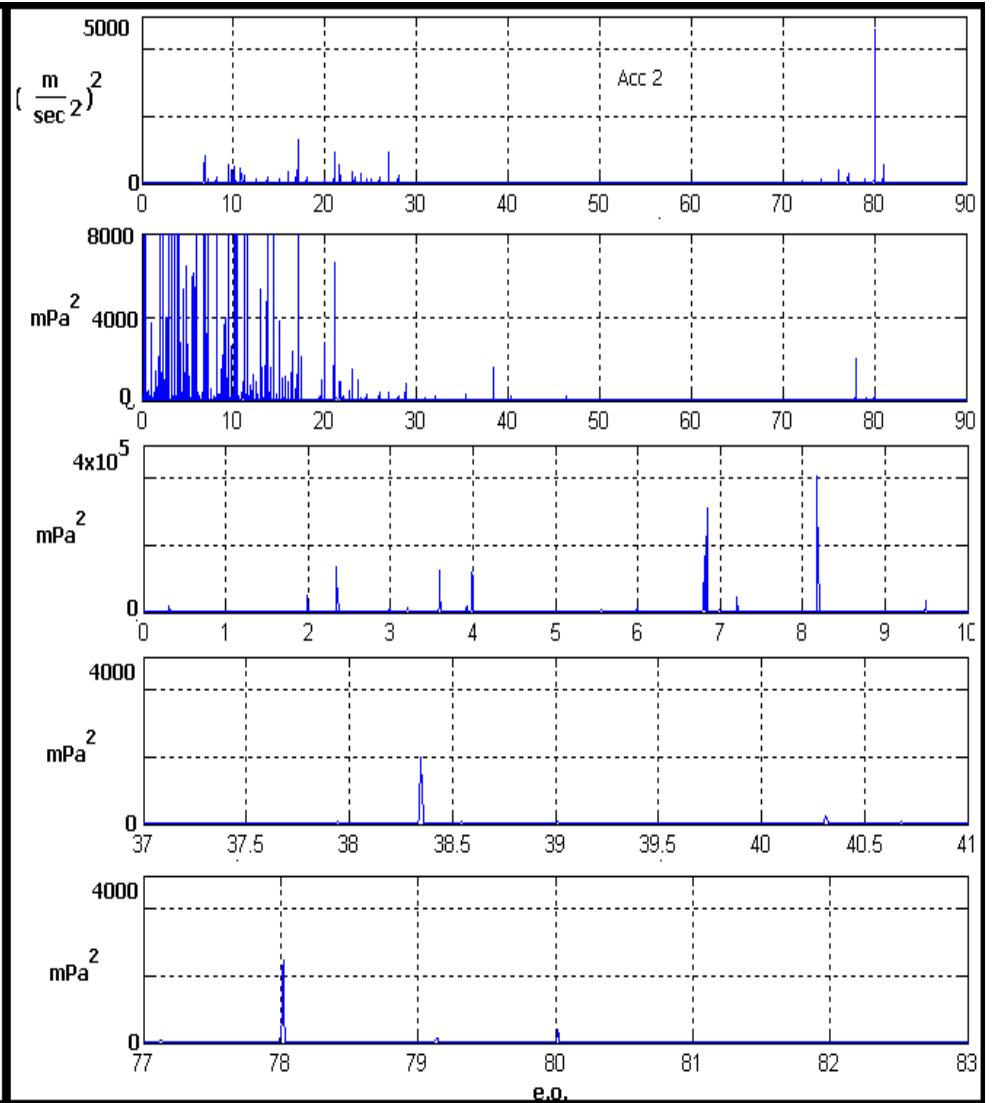


Figura B- 26 100 mm dalla ruota destra test - PSD

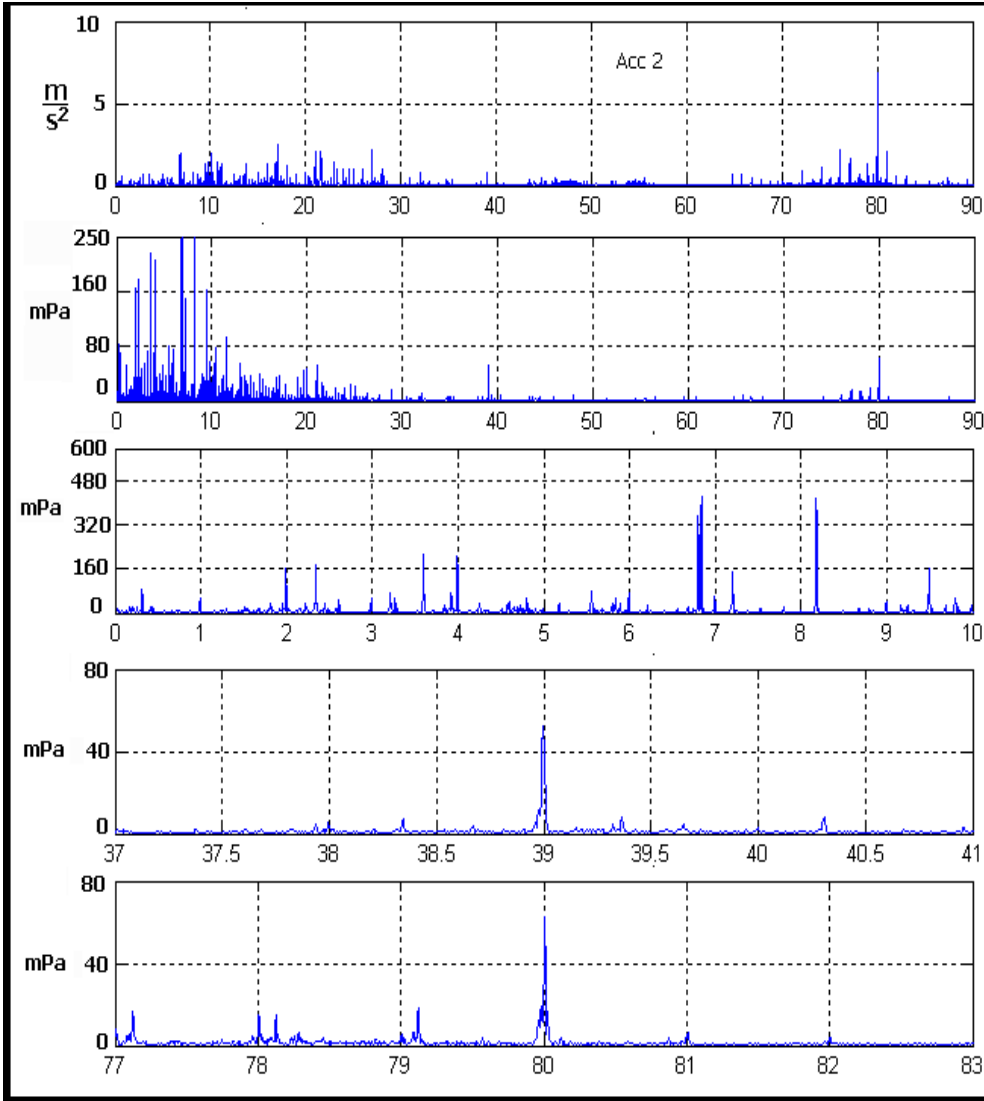


Figura B- 27 50 mm dalla ruota destra test - FFT

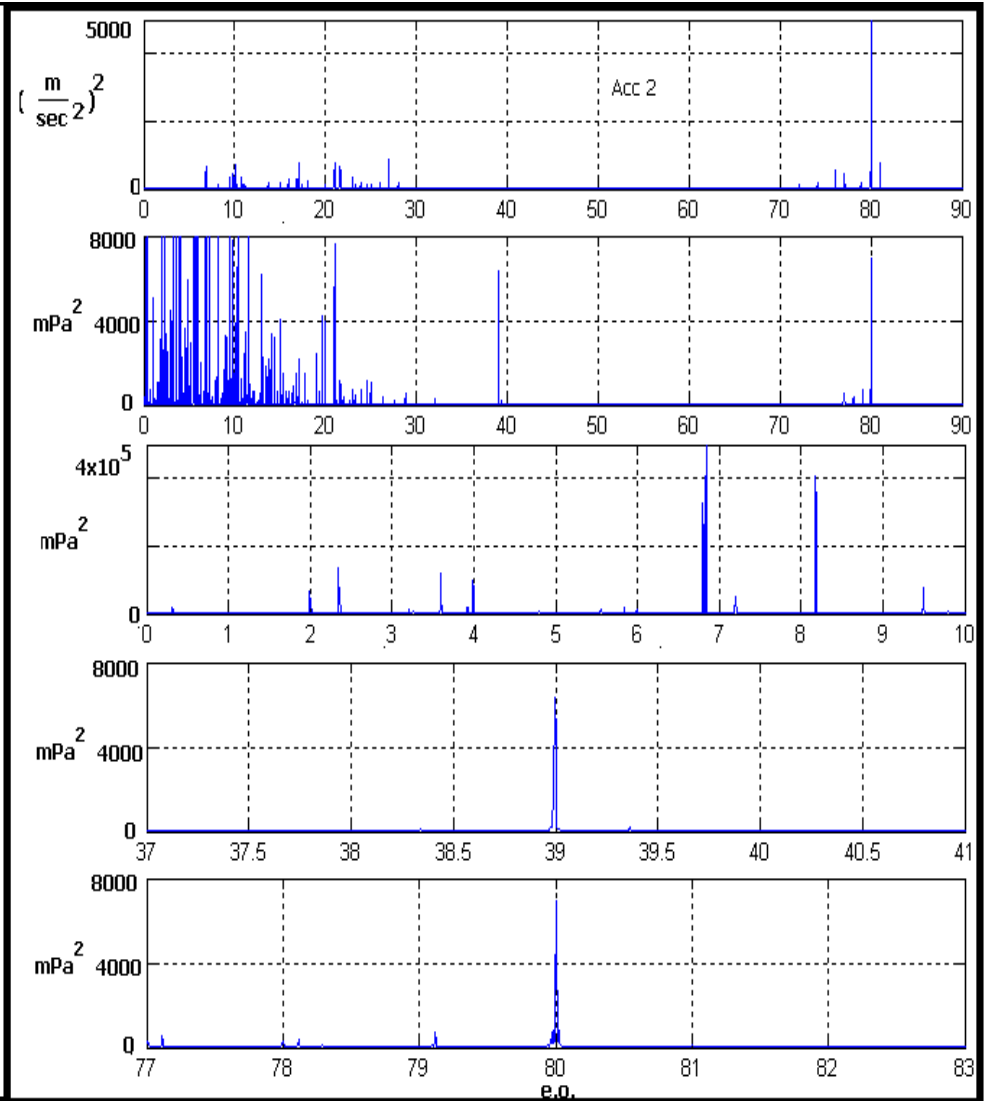


Figura B- 28 50 mm dalla ruota destra test - PSD

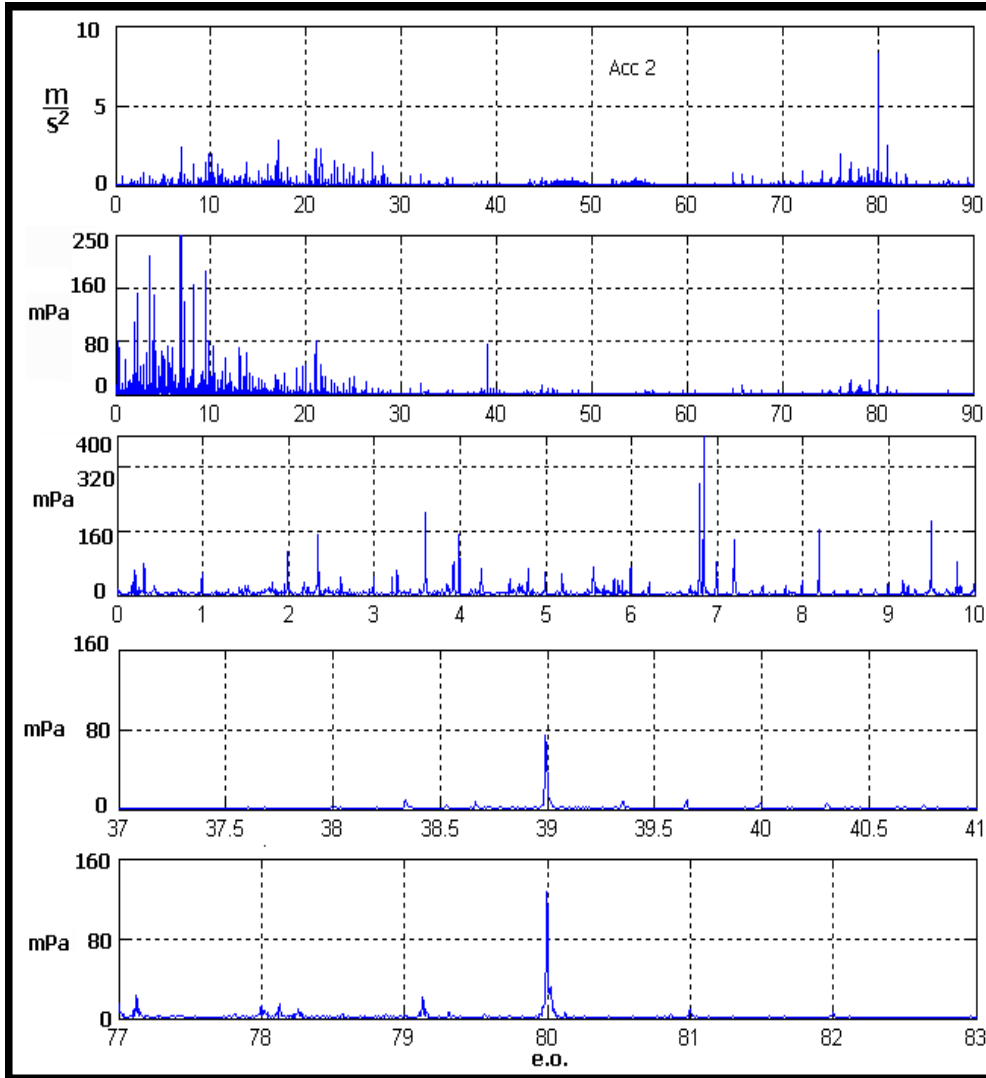


Figura B- 29 30 mm dalla ruota destra test - FFT

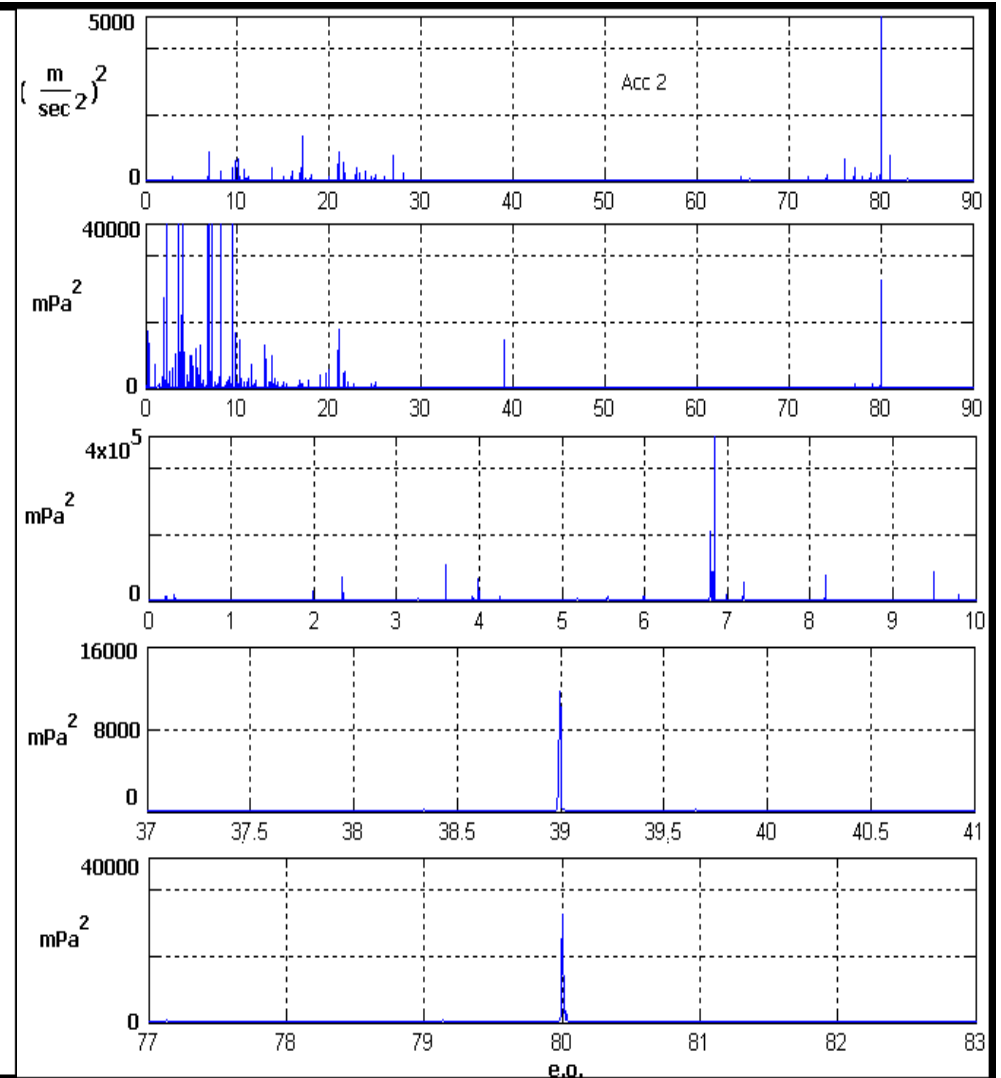


Figura B- 30 30 mm dalla ruota destra test - PSD

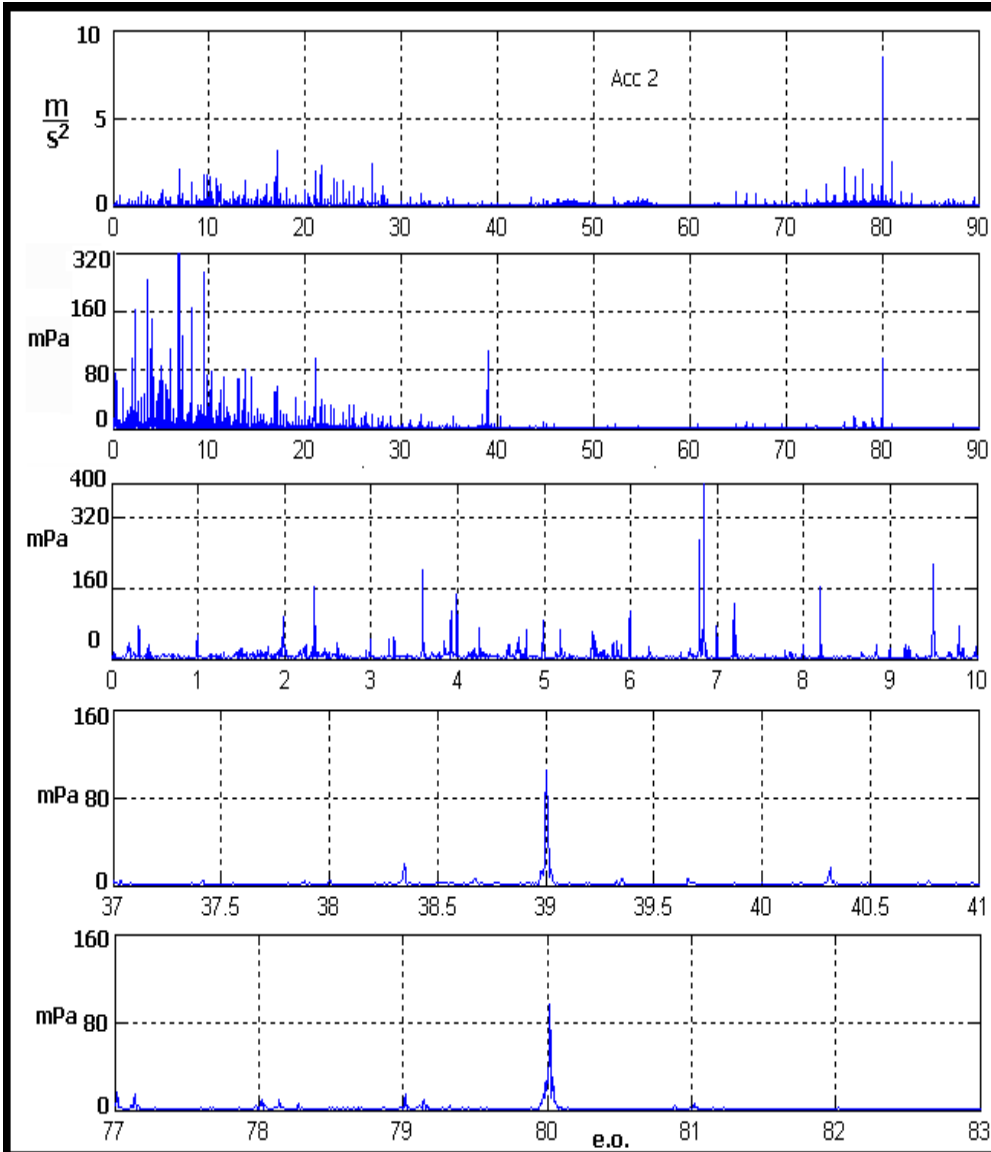


Figura B- 31 10 mm dalla ruota destra test - FFT

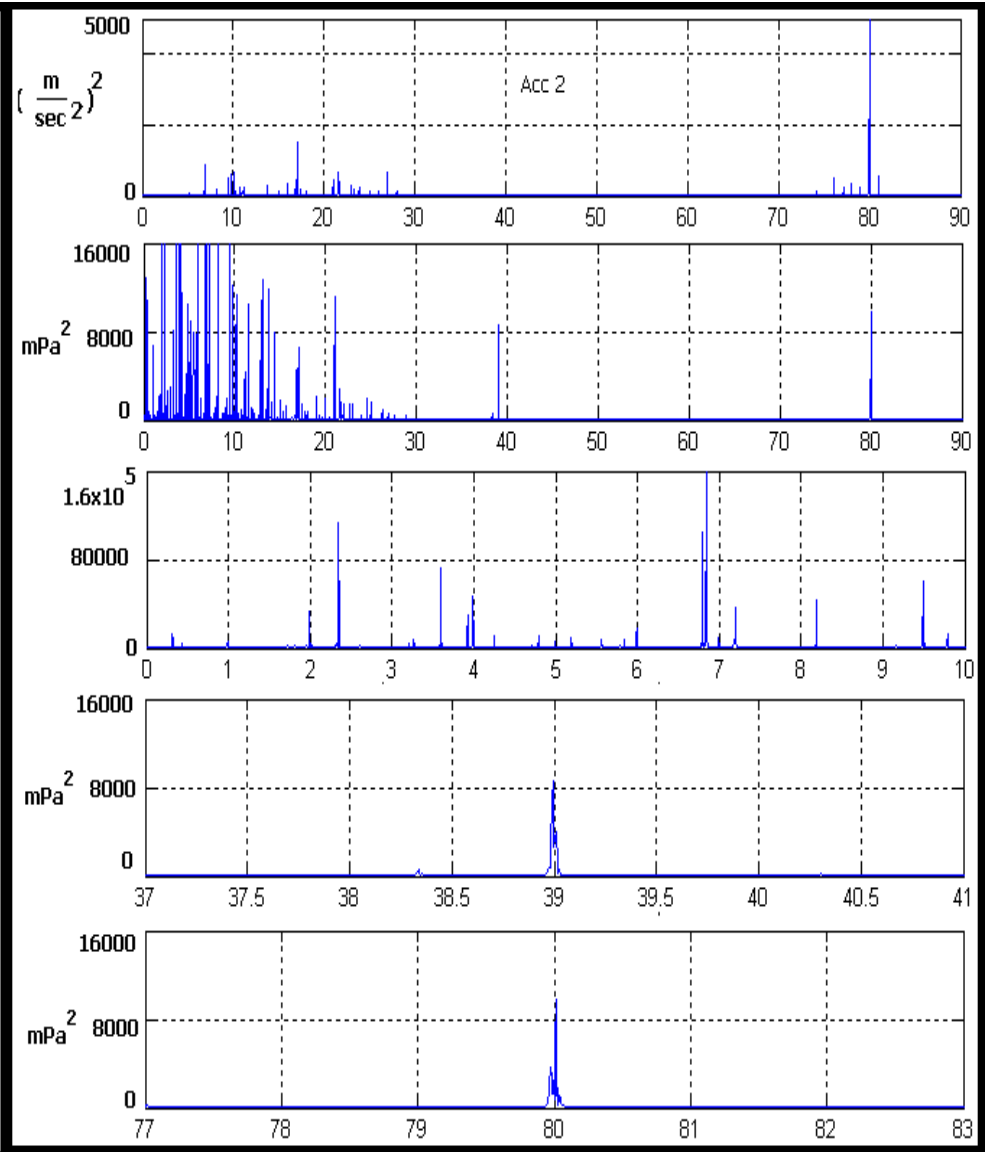


Figura B- 32 10 mm dalla ruota destra test - PSD



**B.3 Microfono puntato sulla parte alta della ruota test destra**

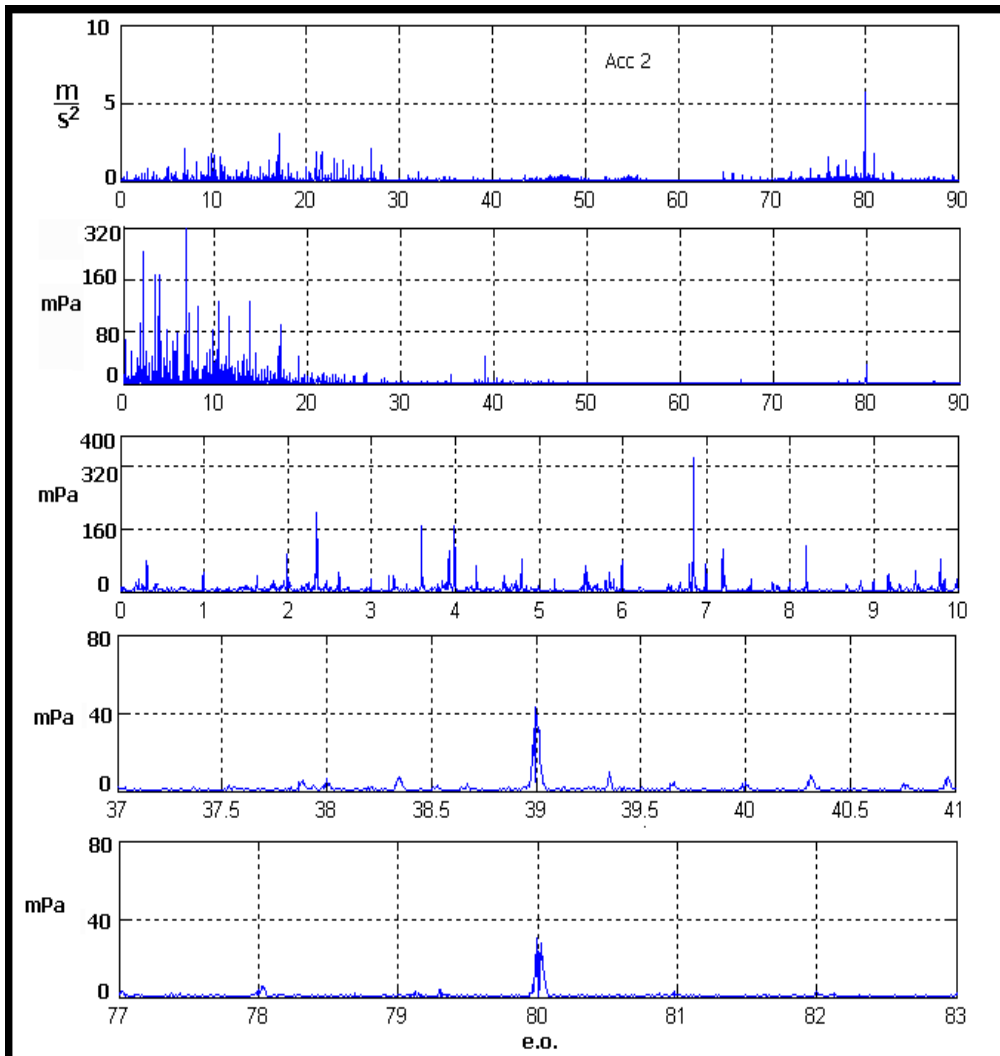


Figura B- 33 100 mm dalla parte alta della ruota test destra - FFT

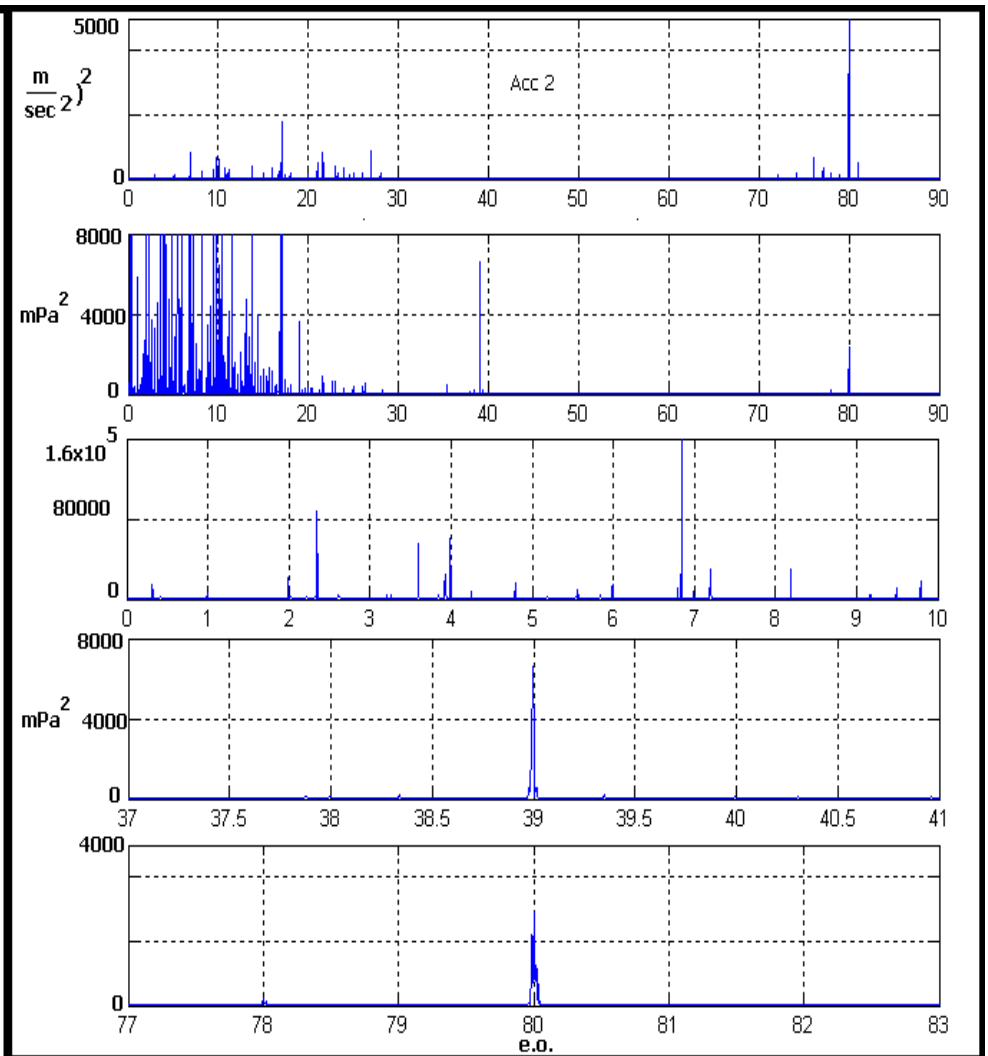


Figura B- 34 100 mm dalla parte alta della ruota test destra - PSD

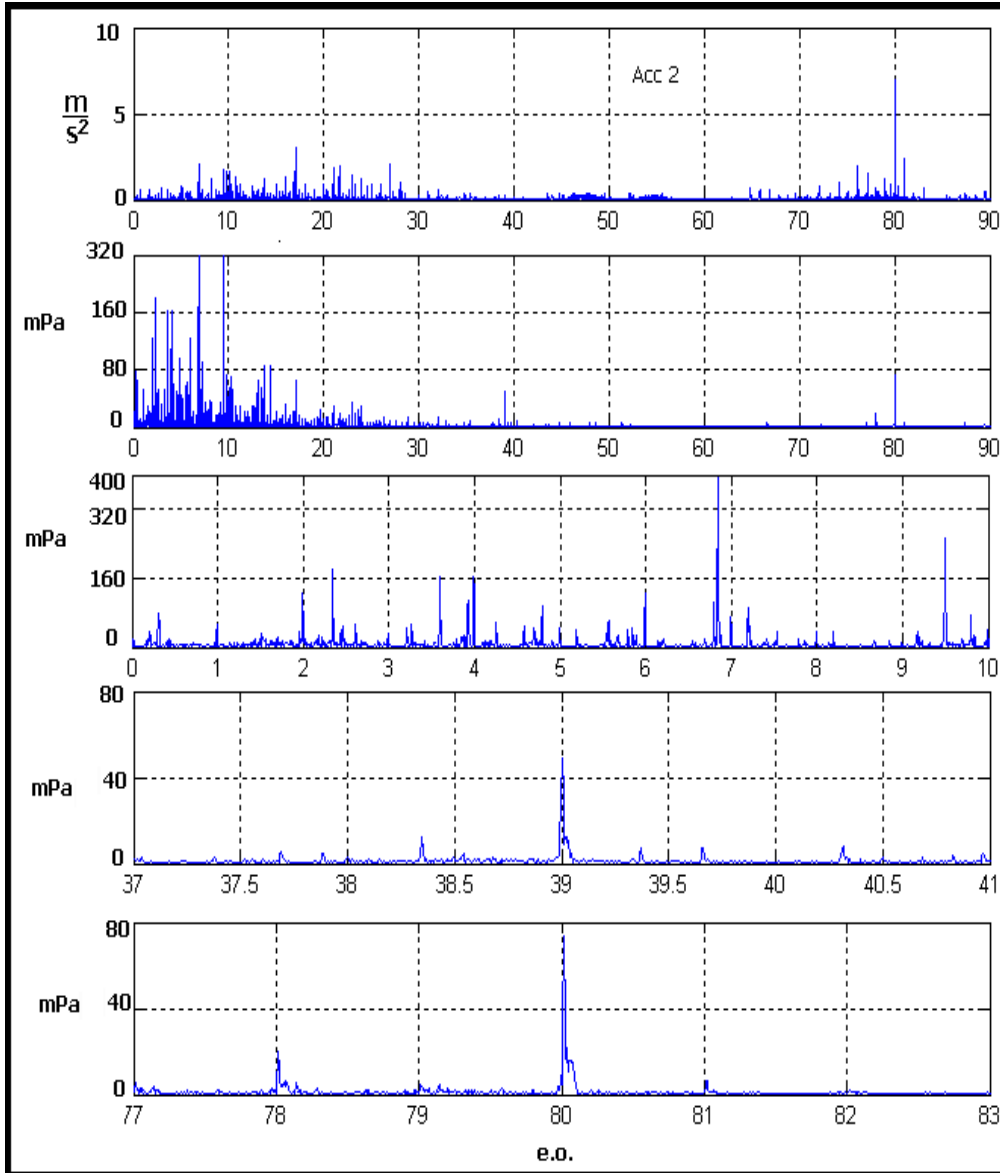


Figura B- 35 50 mm dalla parte alta della ruota test destra - FFT

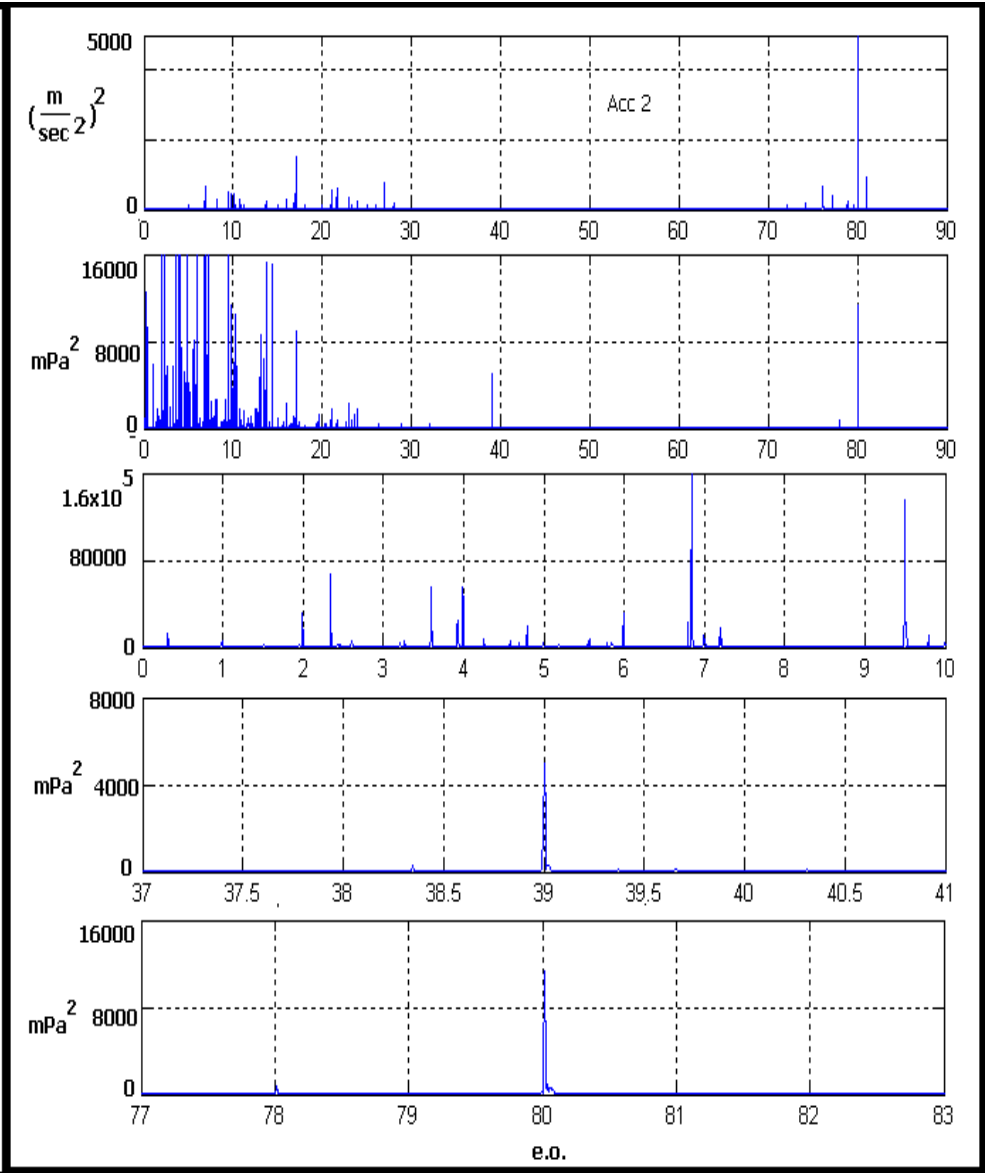


Figura B- 36 50 mm dalla parte alta della ruota test destra - PSD

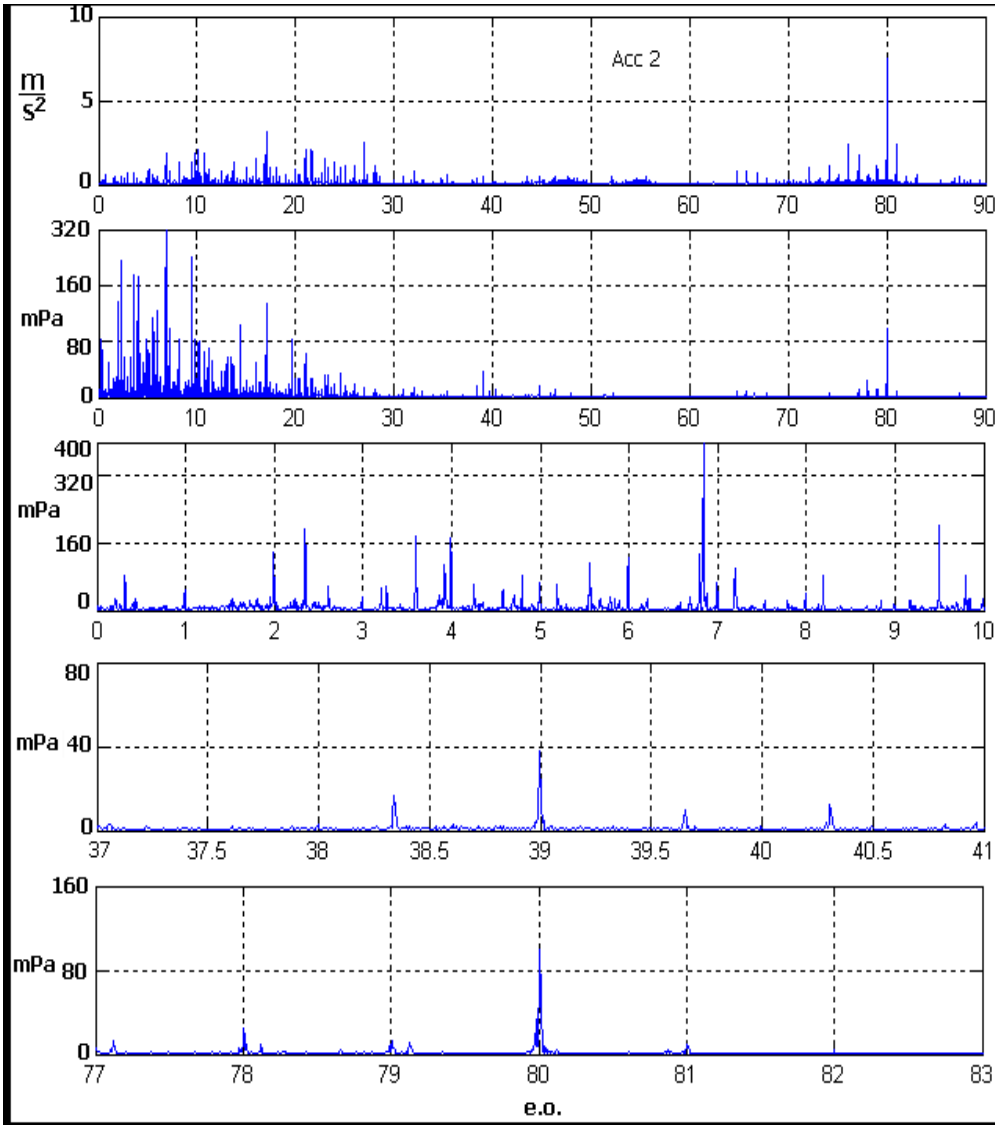


Figura B- 37 30 mm dalla parte alta della ruota test destra - FFT

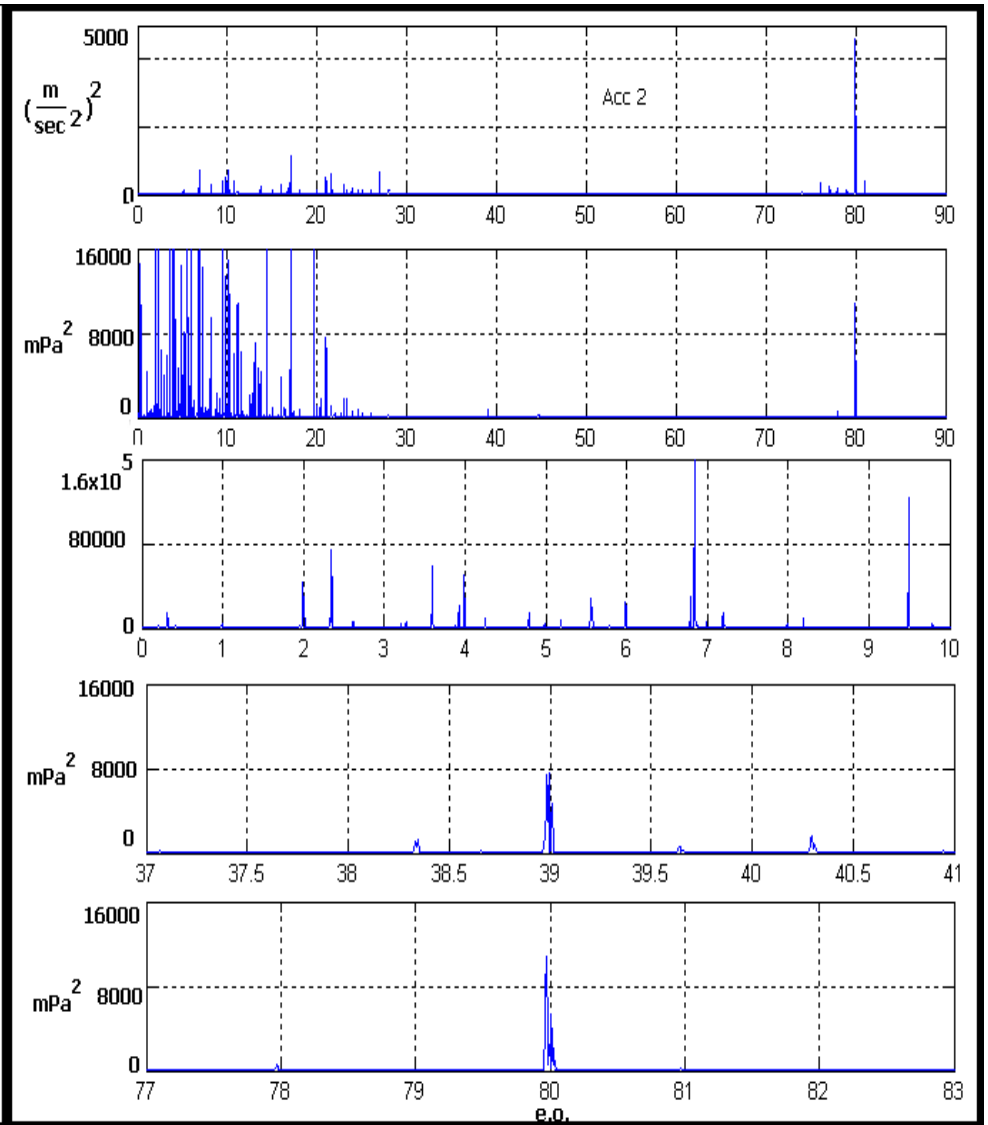


Figura B- 38 30 mm dalla parte alta della ruota test destra - PSD

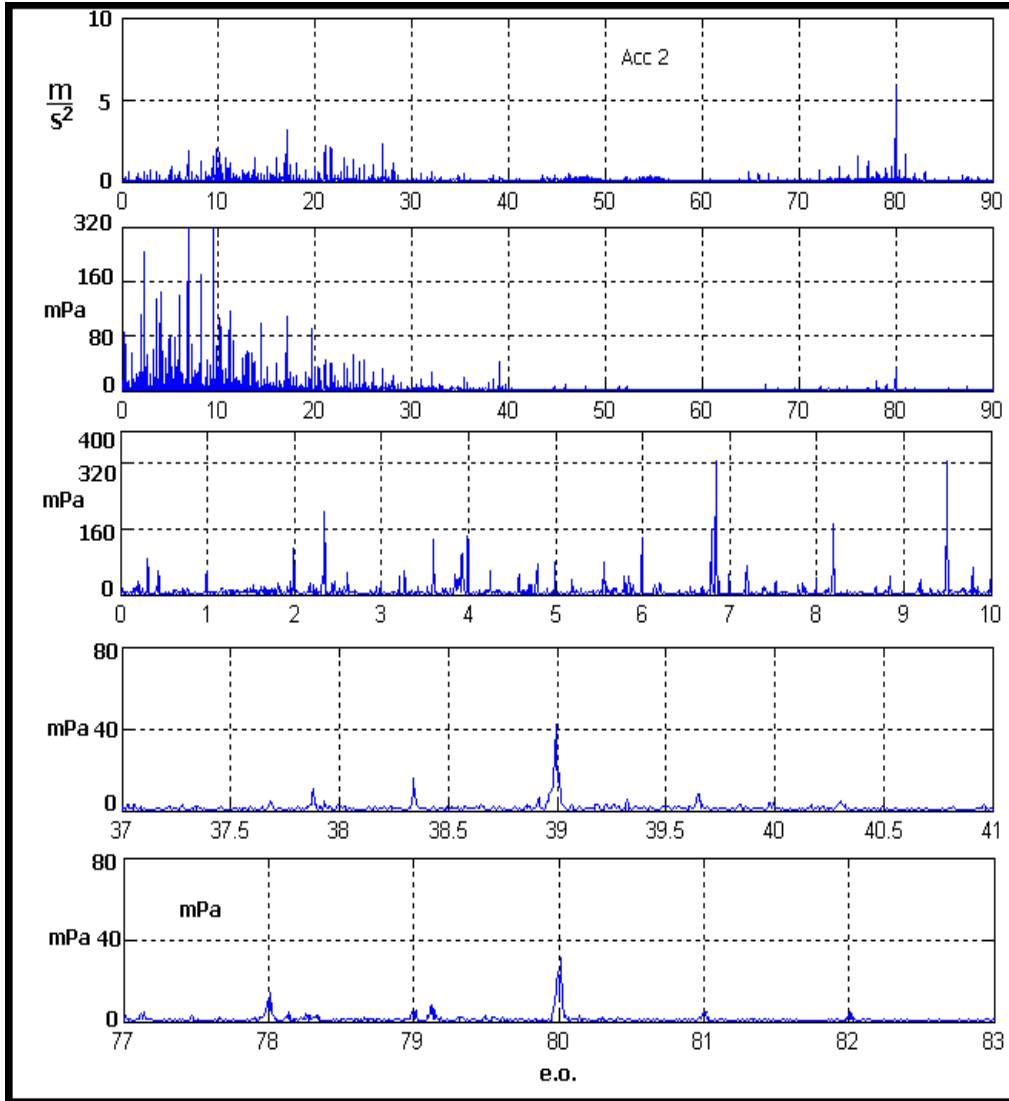


Figura B- 39 10 mm dalla parte alta della ruota test destra - FFT

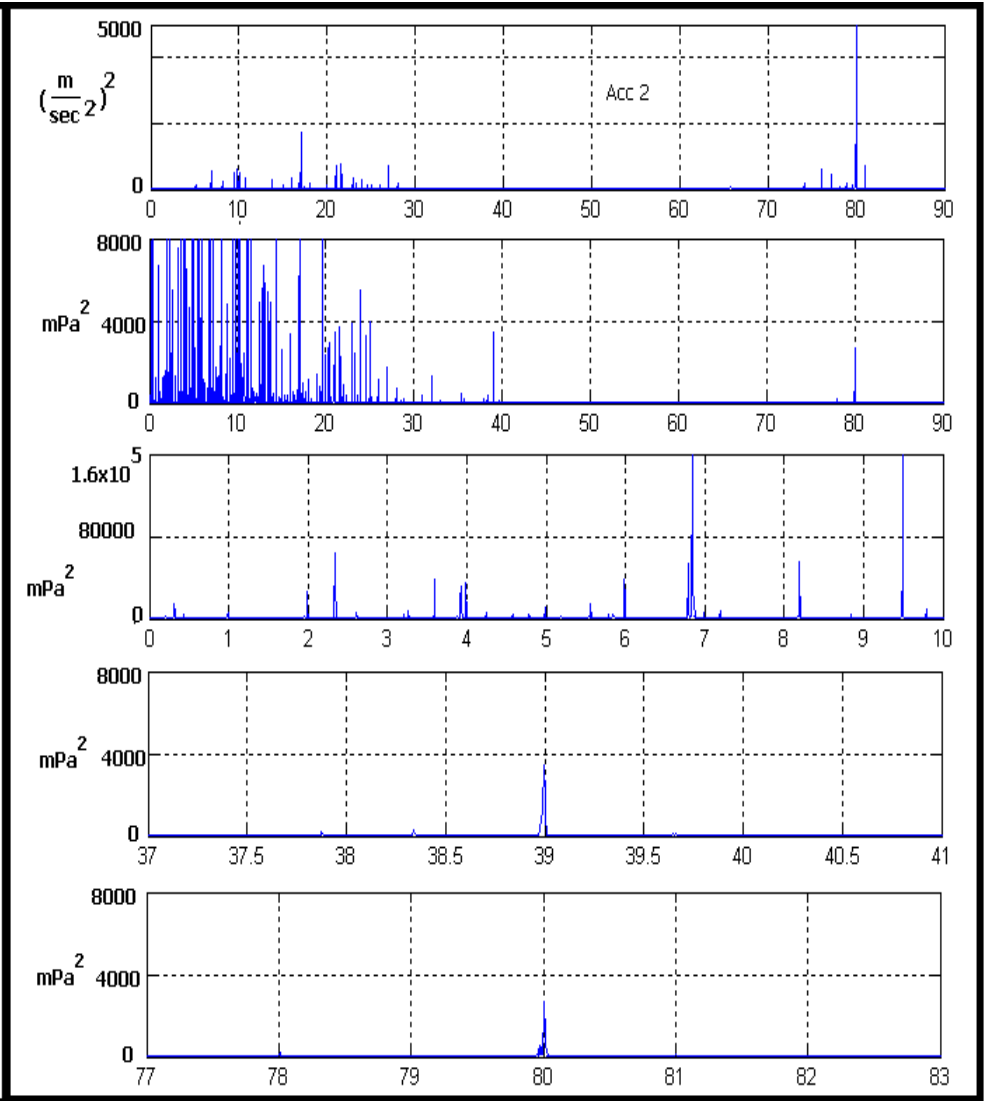


Figura B- 40 10 mm dalla parte alta della ruota test destra - PSD

**B.4 Segnale rilevato in corrispondenza degli accelerometri test**

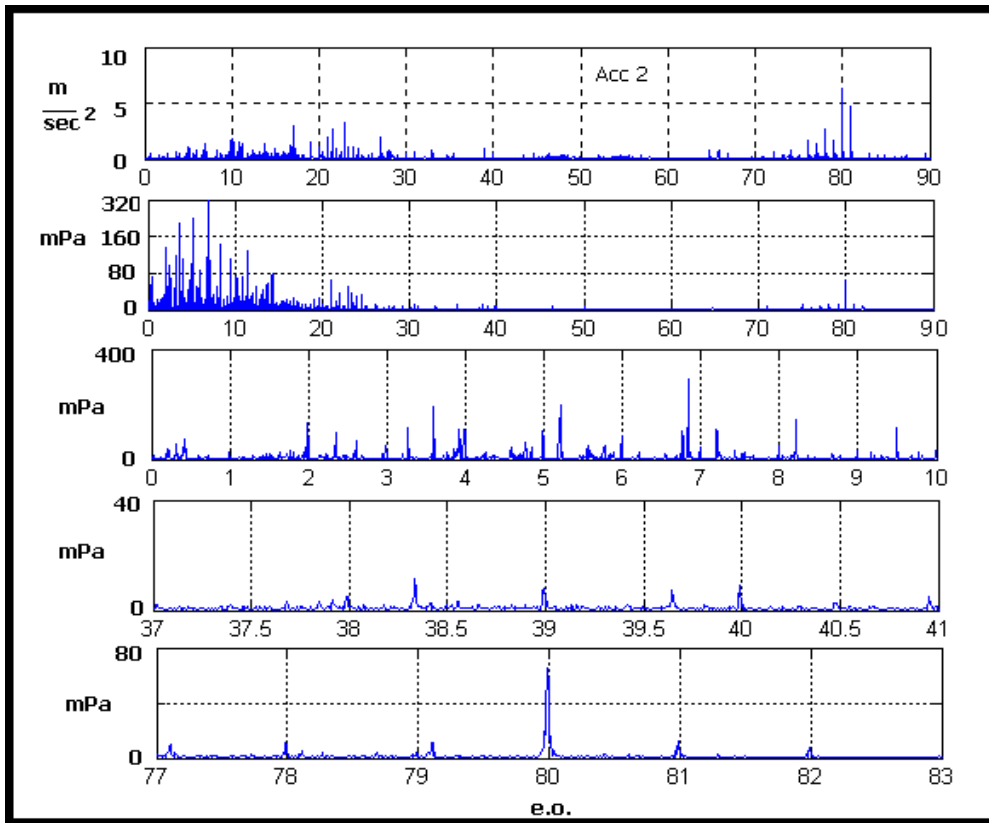


Figura B- 41 FFT davanti ad accelerometro 4

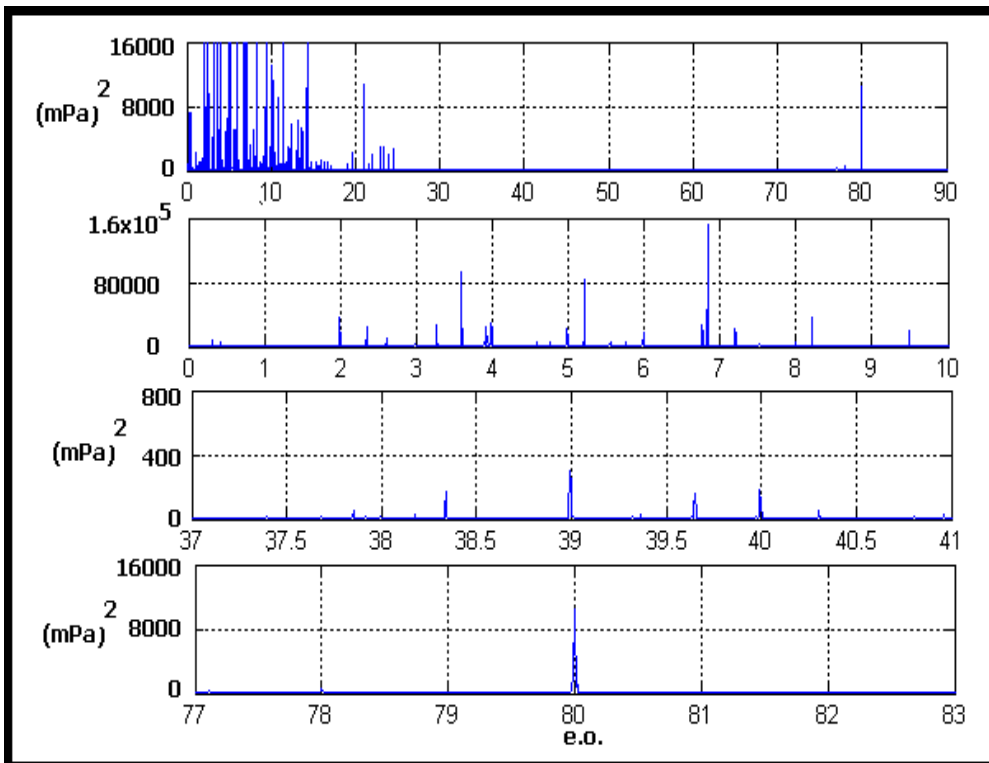


Figura B- 42 PSD davanti ad accelerometro 4

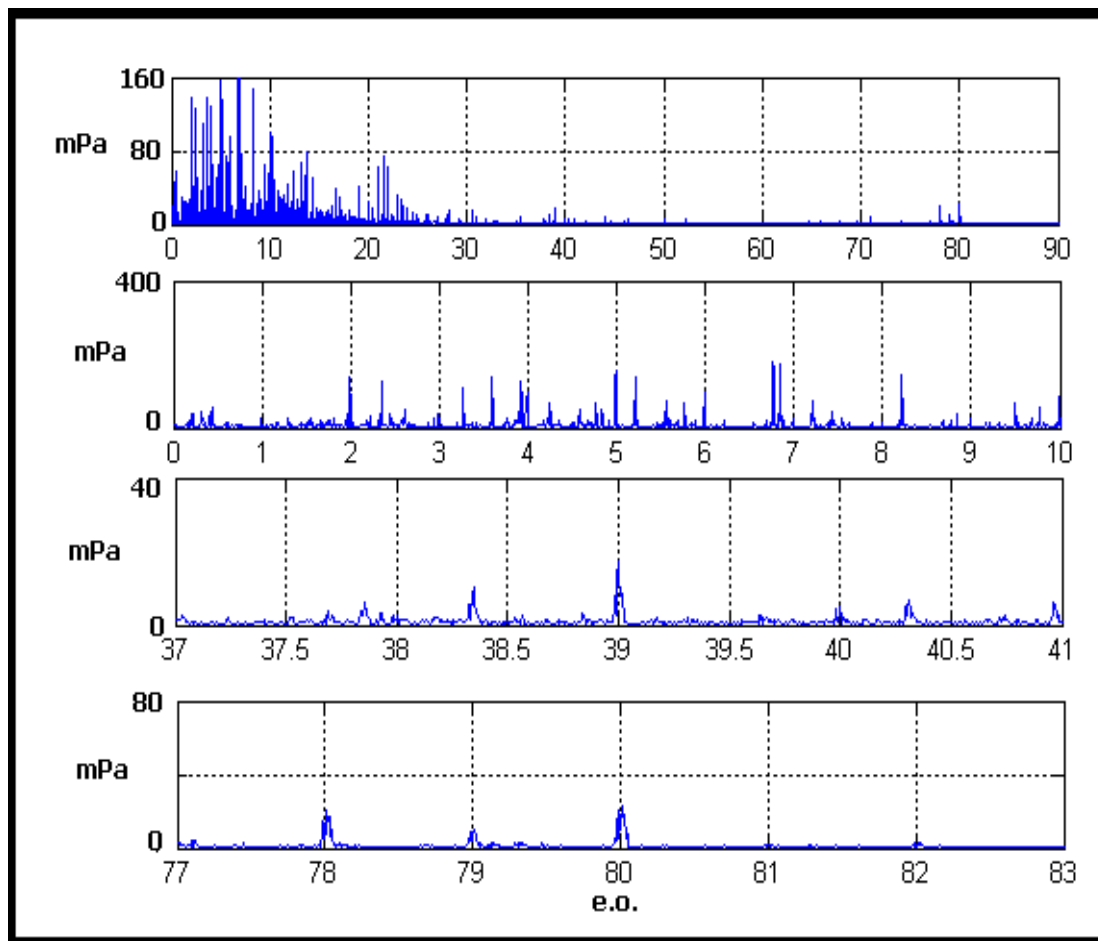


Figura B- 43 FFT davanti ad accelerometro 3

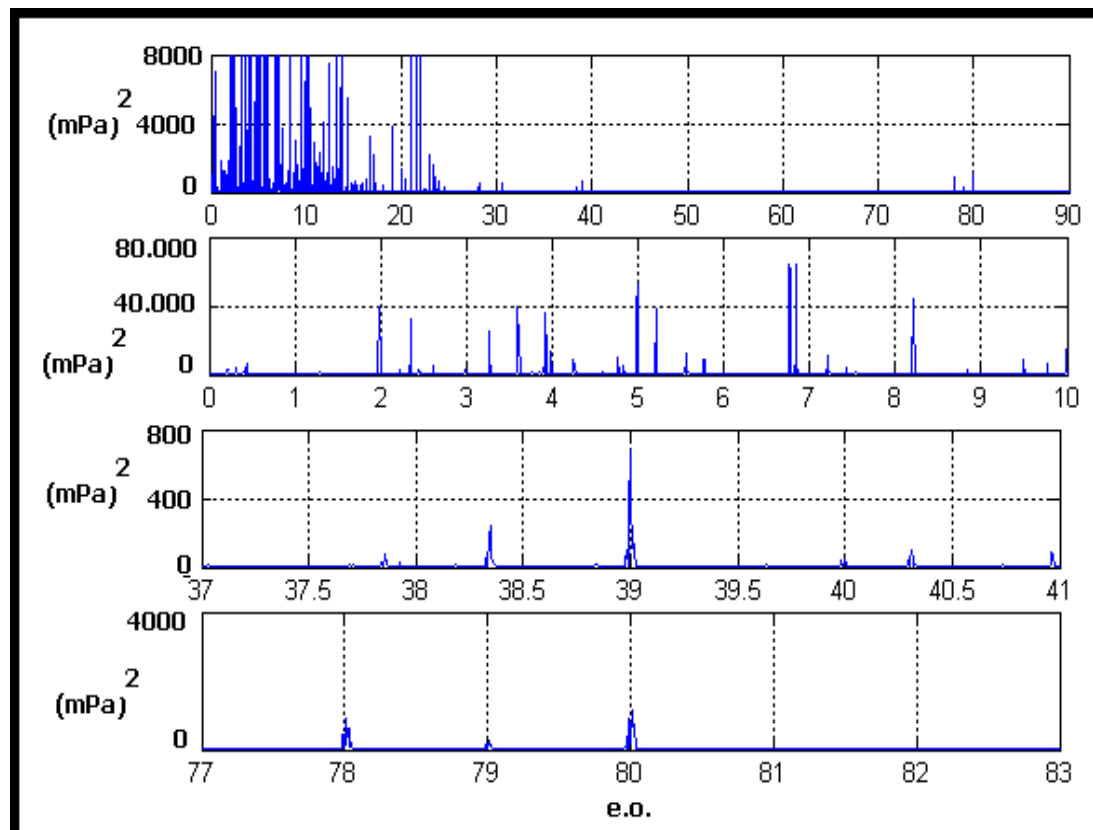


Figura B- 44 PSD davanti ad accelerometro 3

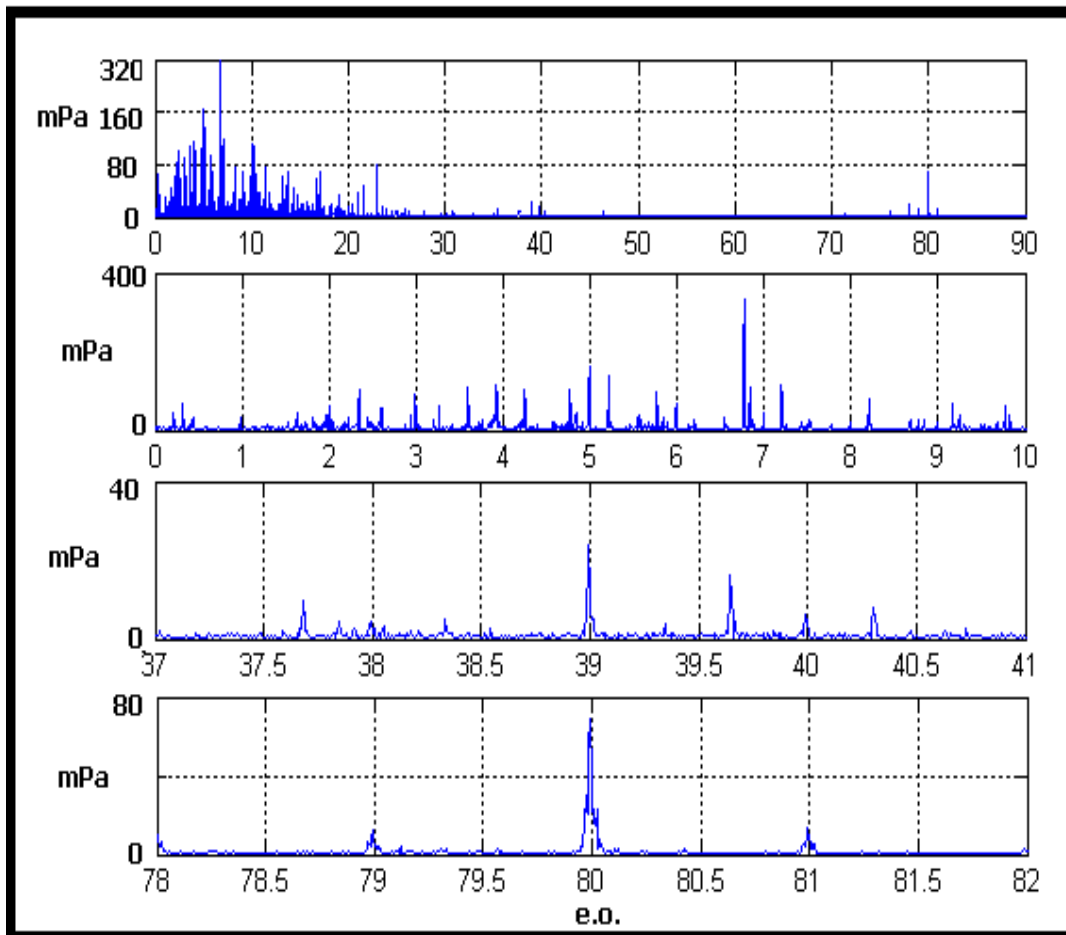


Figura B- 45 FFT davanti ad accelerometro 2

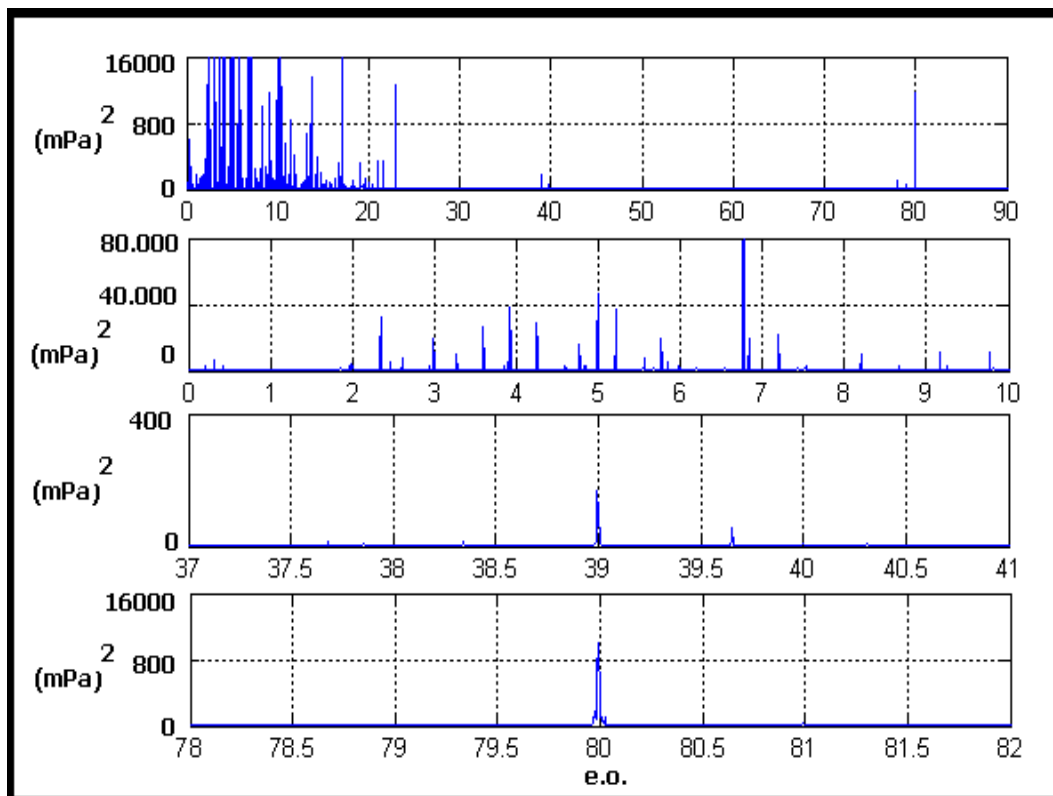


Figura B- 46 PSD davanti ad accelerometro 2

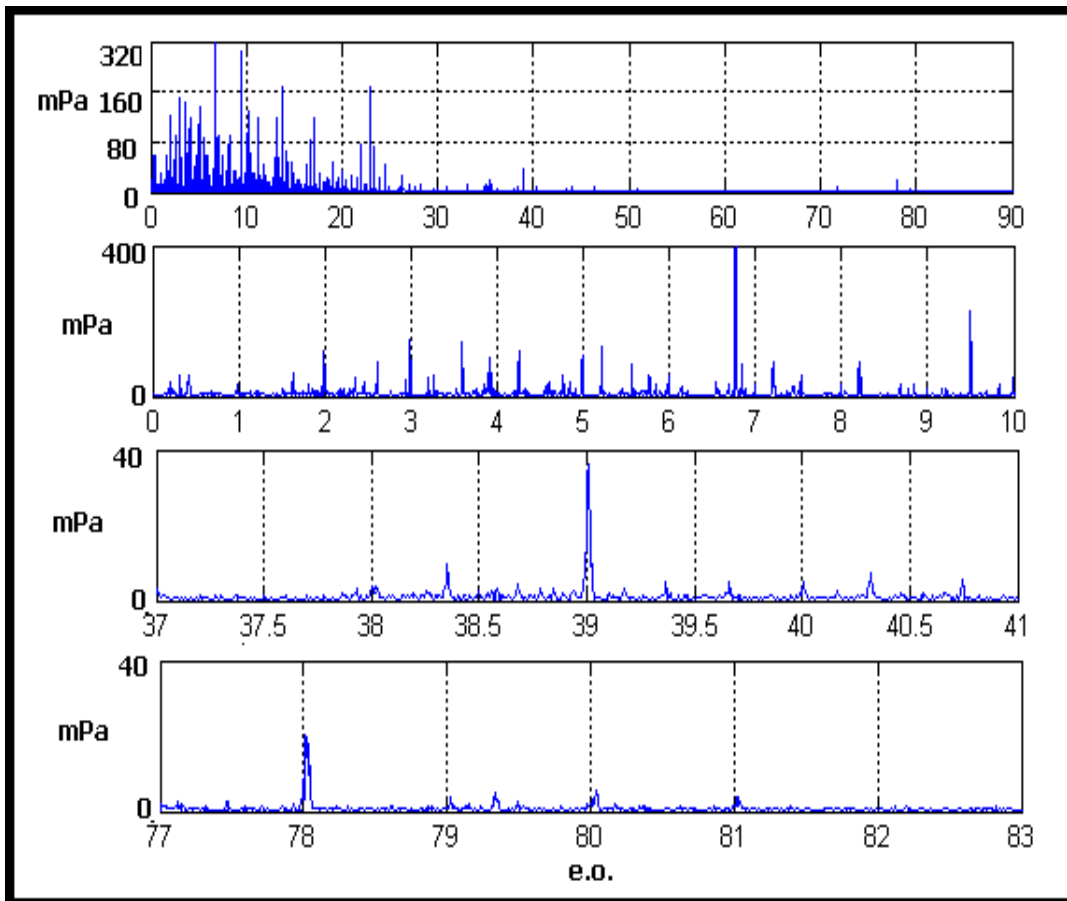


Figura B- 47 FFT davanti ad accelerometro 1

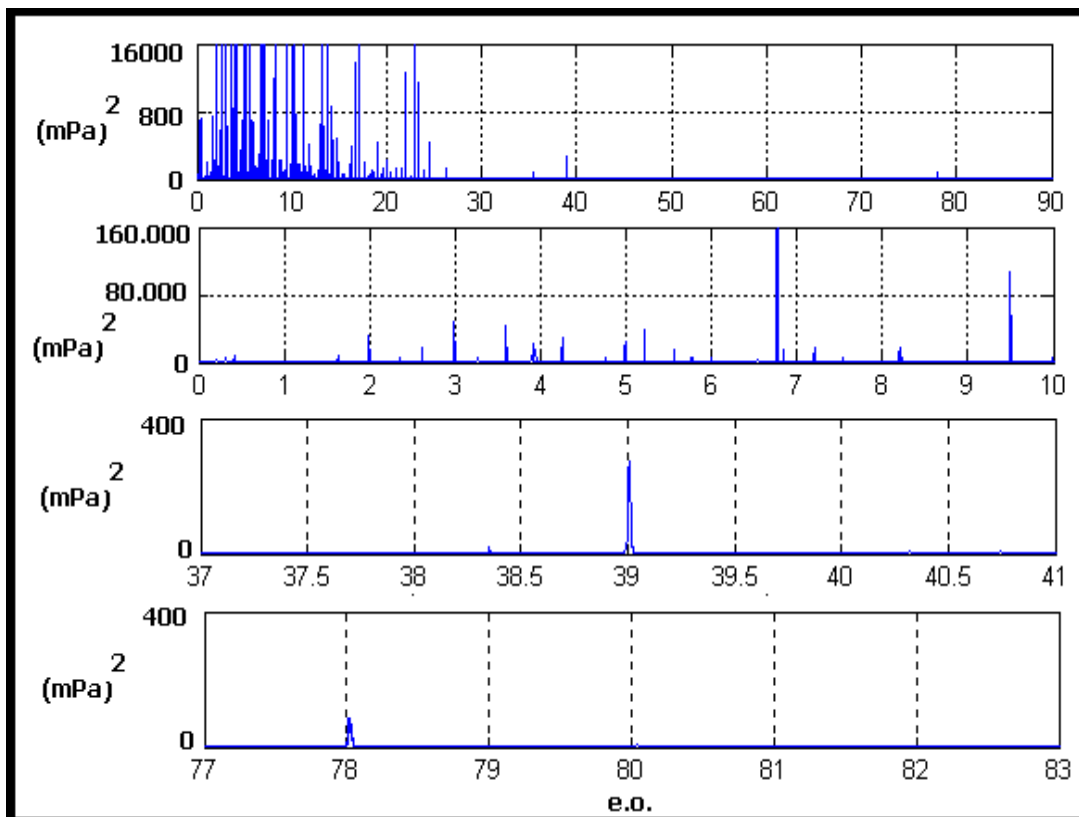


Figura B- 48 PSD davanti ad accelerometro 1



**B.5 Rilevazione con capsula disposta a 90°**

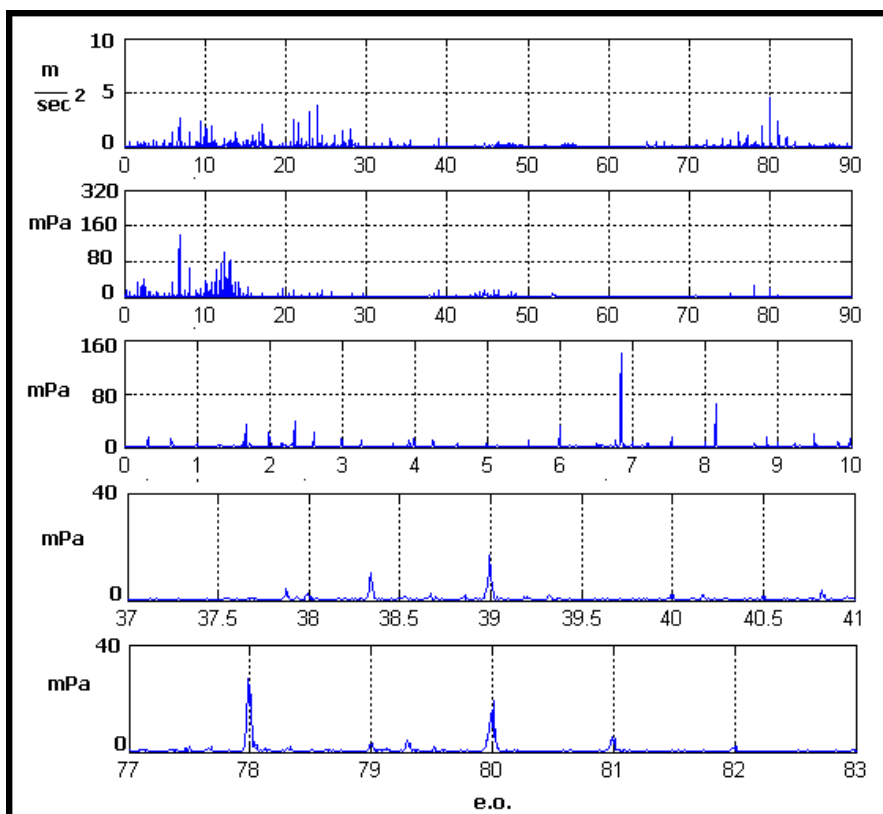


Figura B- 49 FFT Microfono  $\perp$  al fronte d'onda a 20 mm dal coperchio spostato internamente di 30 mm

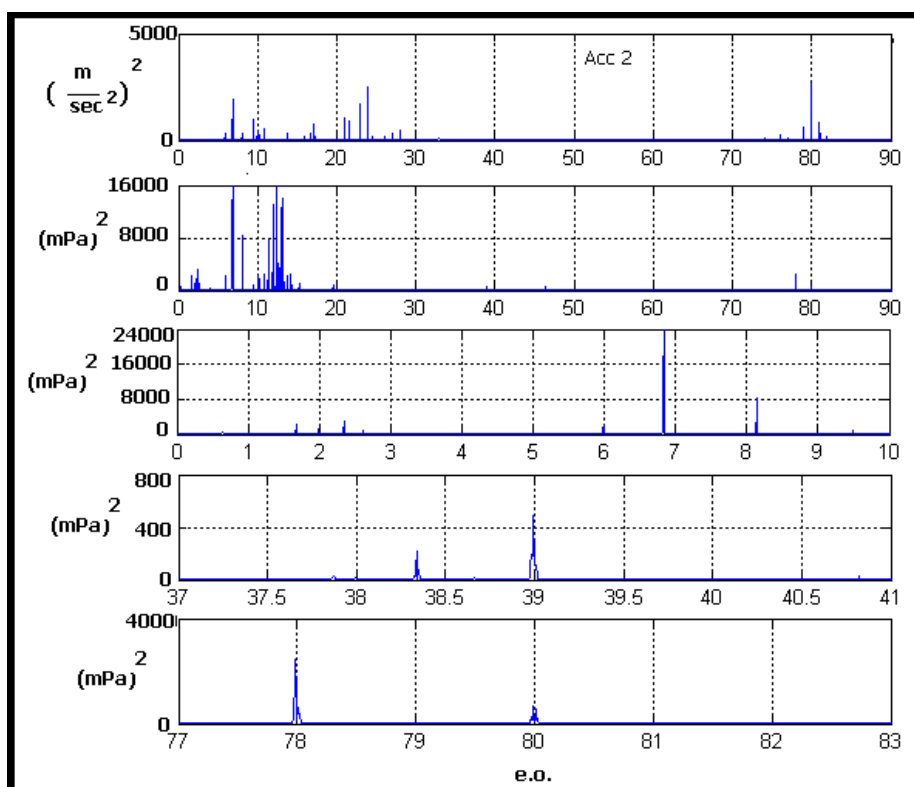


Figura B- 50 PSD Microfono  $\perp$  al fronte d'onda a 20 mm dal coperchio spostato internamente di 30 mm

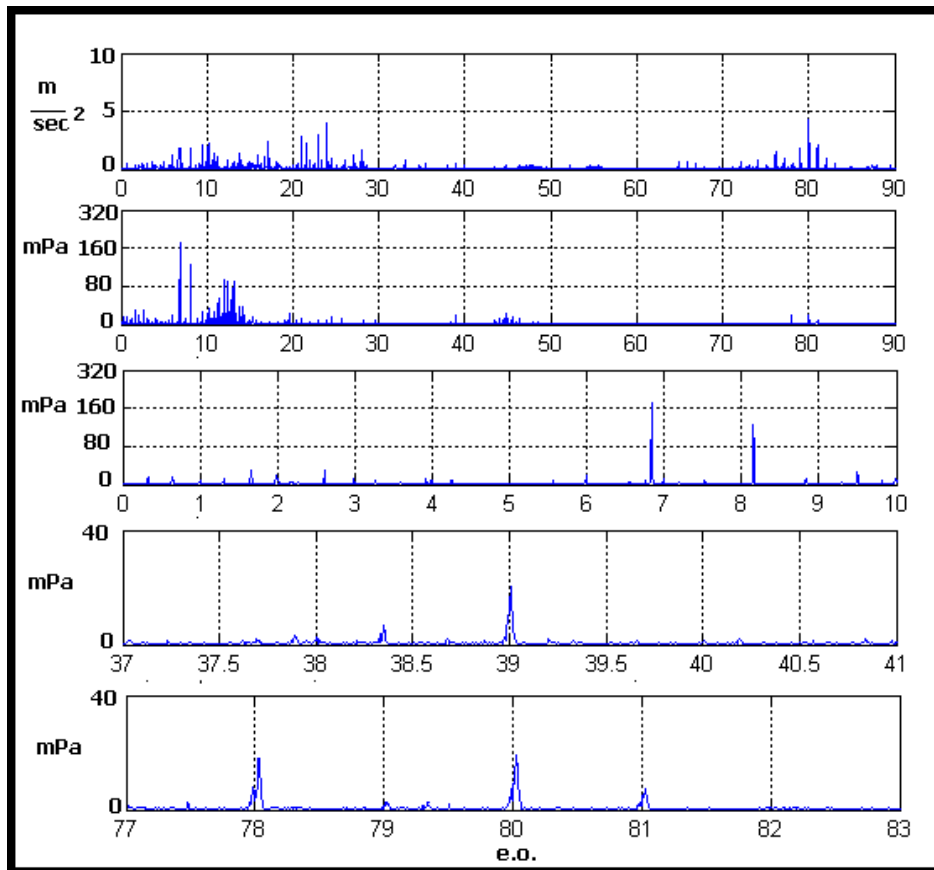


Figura B- 51 FFT Microfono  $\perp$  al fronte d'onda a 10 mm dal coperchio spostato internamente di 20 mm

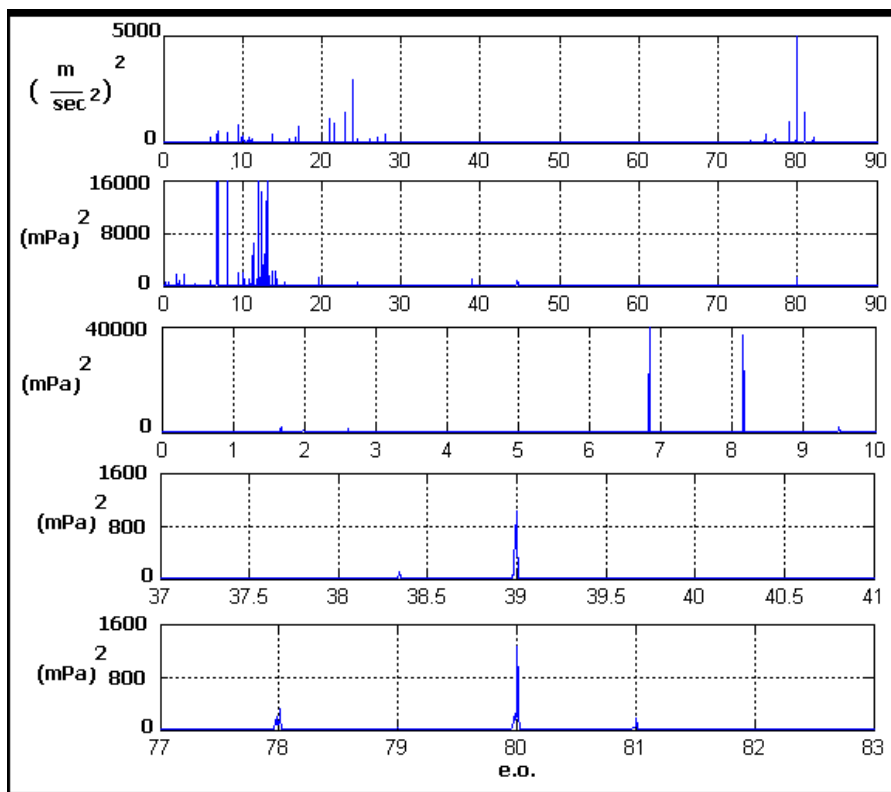


Figura B- 52 PSD Microfono  $\perp$  al fronte d'onda a 10 mm dal coperchio spostato internamente di 20 mm

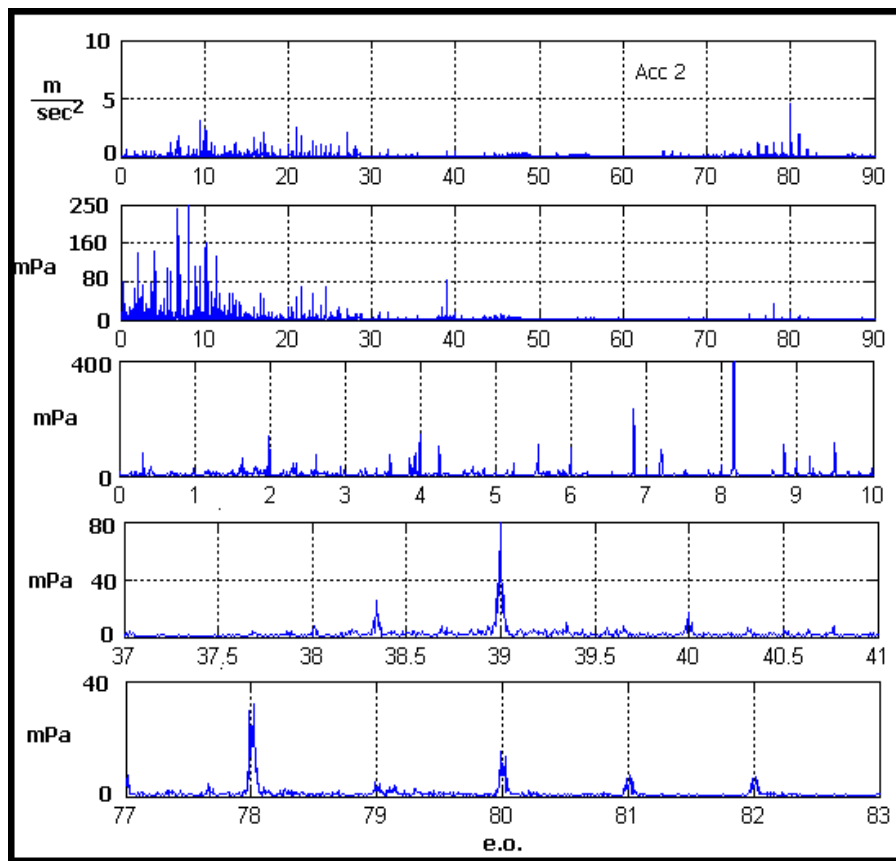


Figura B- 53 FFT Microfono ⊥ al coperchio zona test

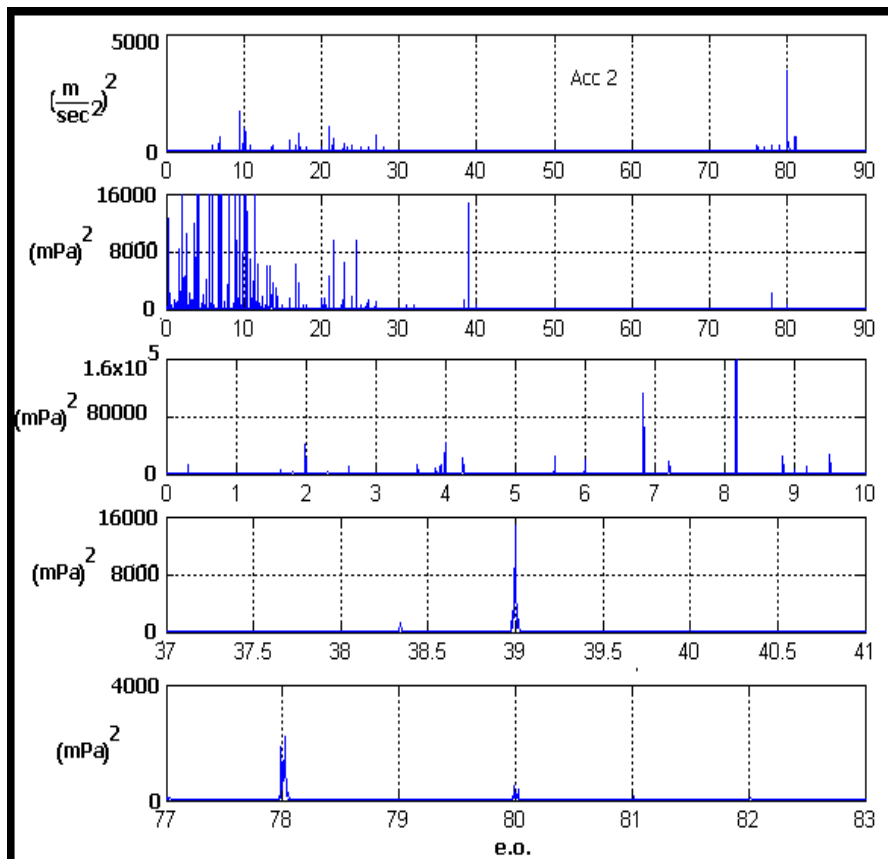


Figura B- 54 PSD Microfono ⊥ al coperchio zona test

### B.6 Zona slave destra

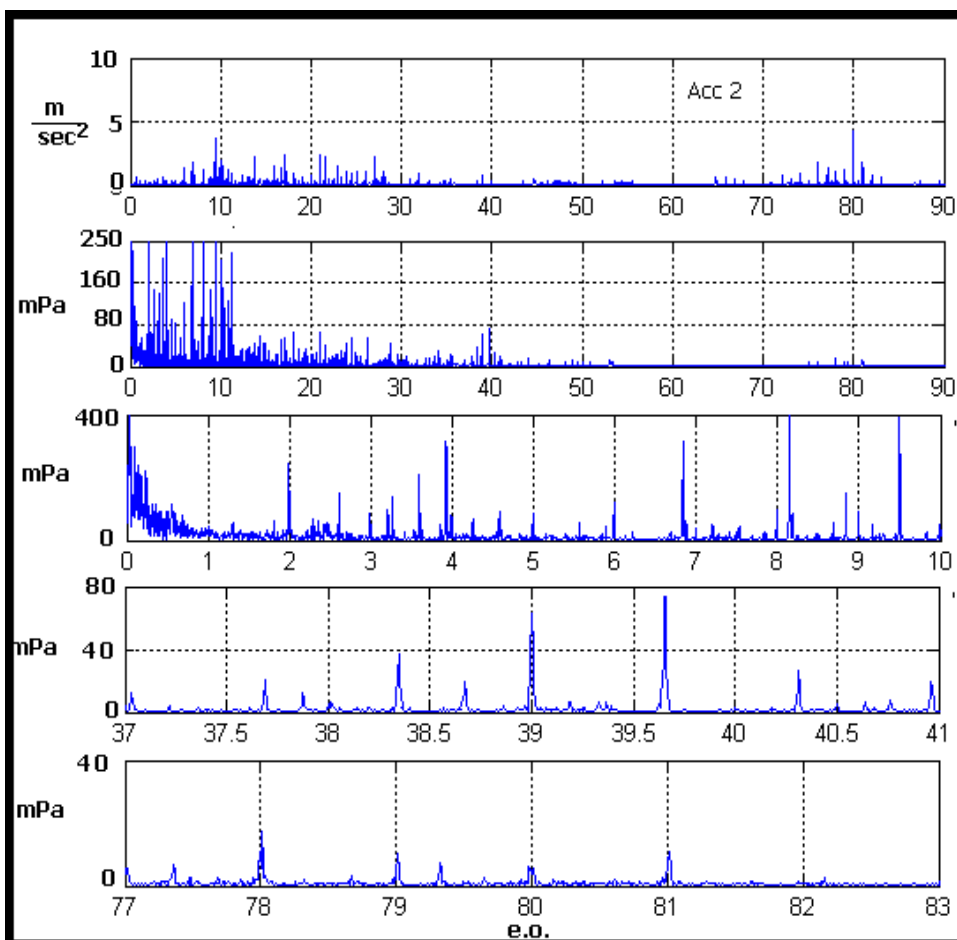


Figura B- 55 FFT 50 mm da albero slave veloce lato motore

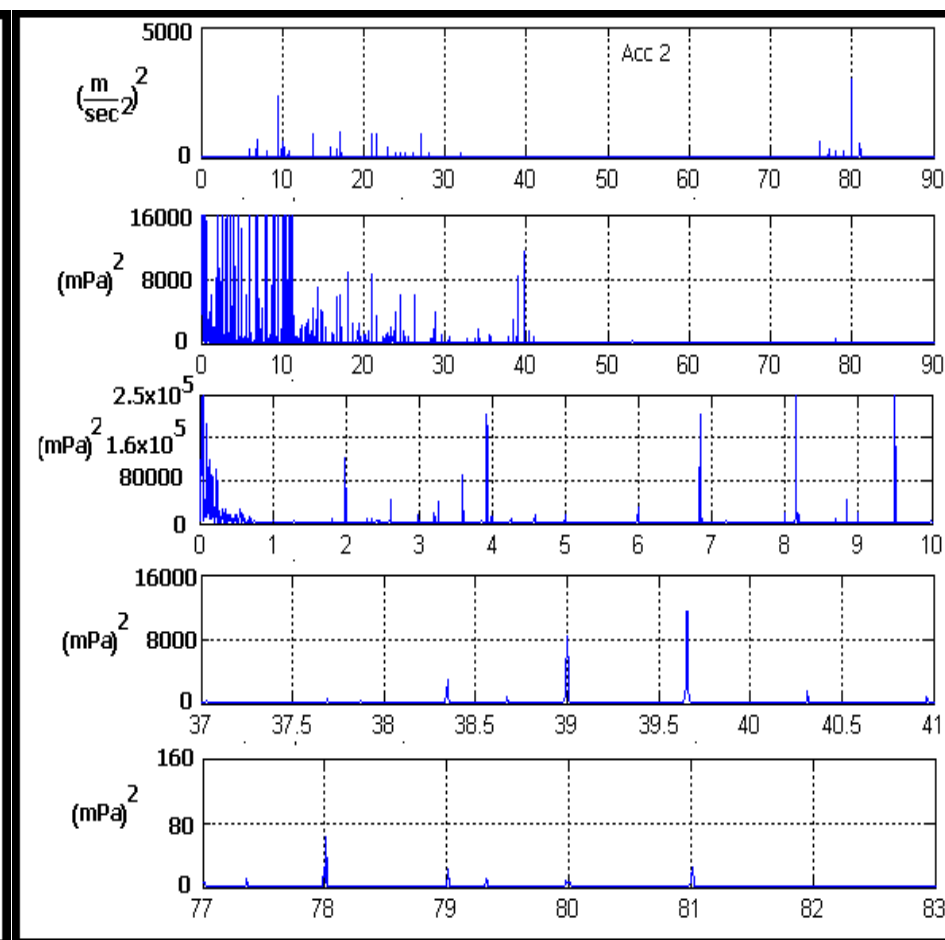


Figura B- 56 PSD 50 mm da albero slave veloce lato motore

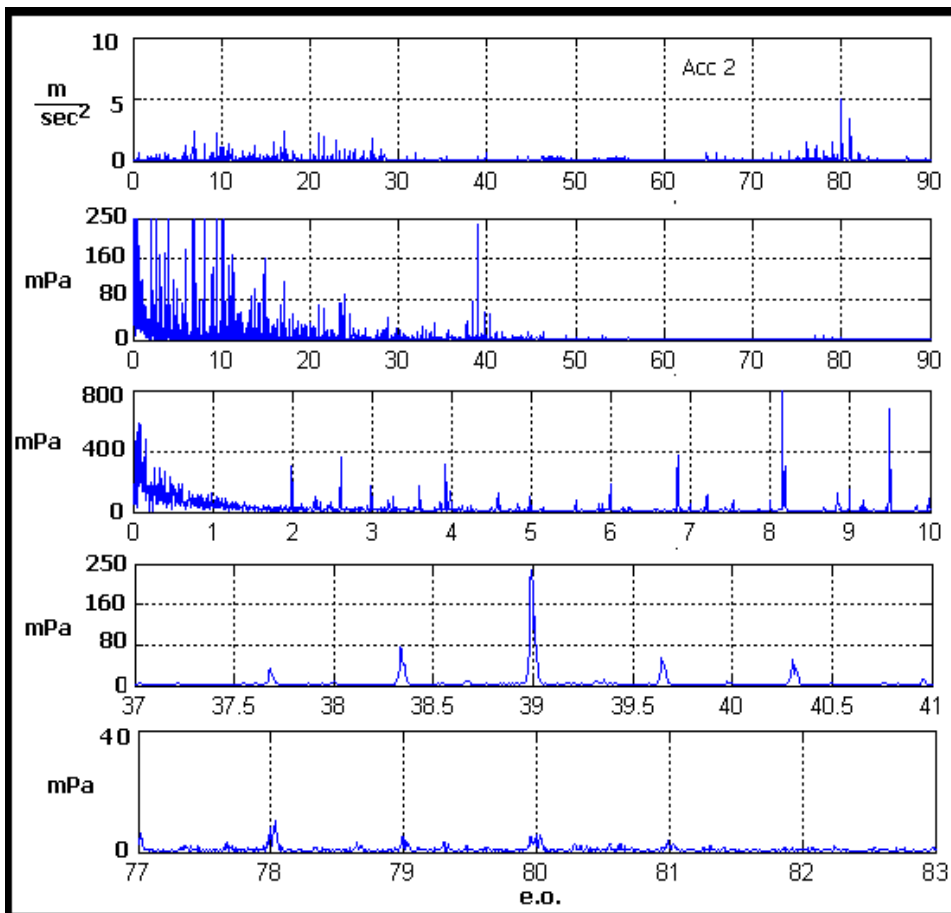


Figura B- 57 FFT 10 mm da albero slave veloce lato motore

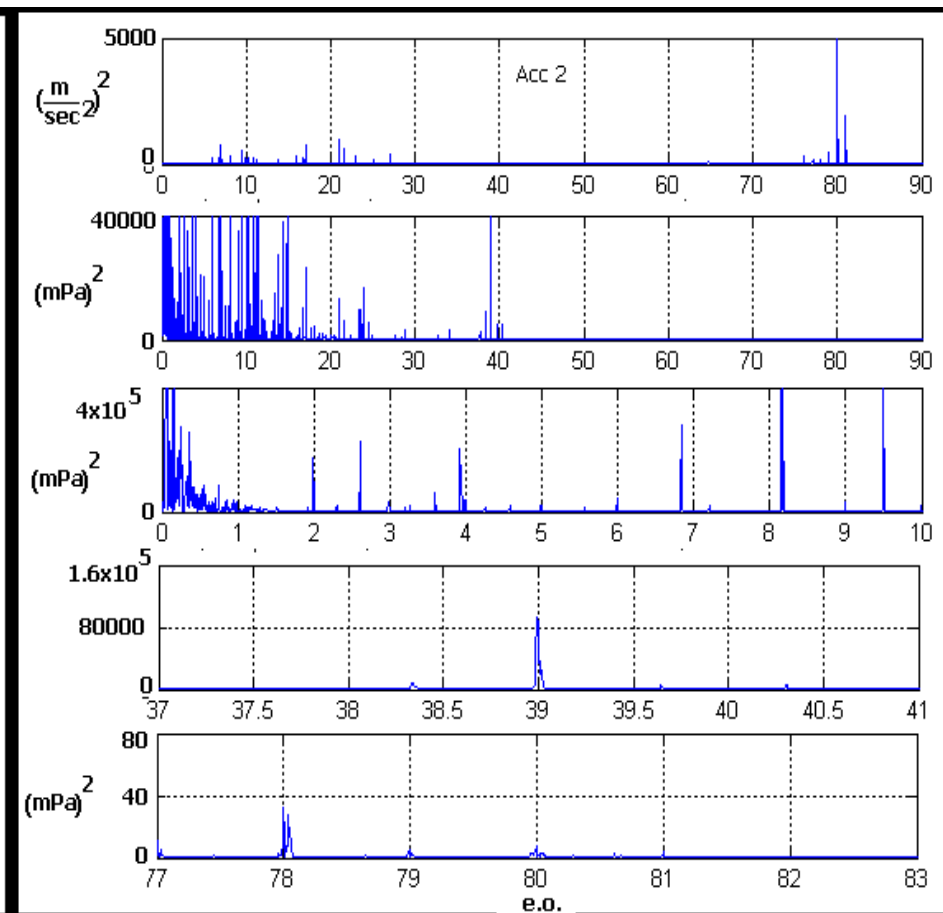


Figura B- 58 PSD 10 mm da albero slave veloce lato motore

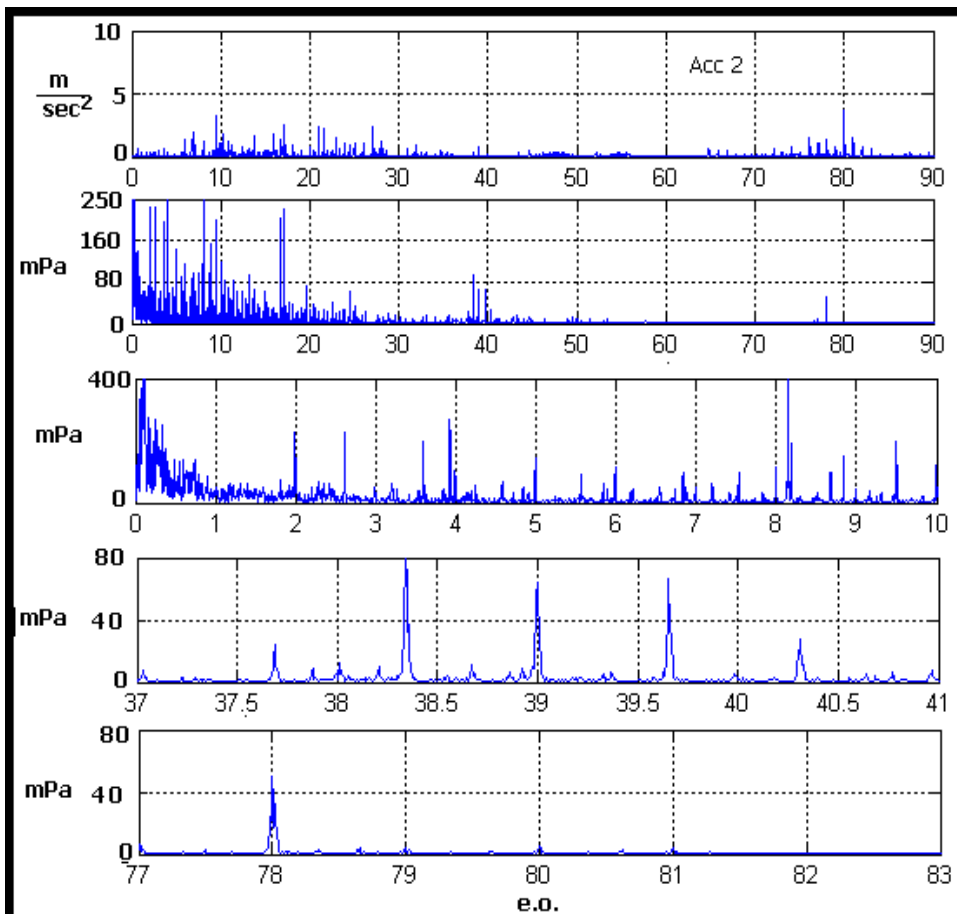


Figura B- 59 FFT con microfono inclinato

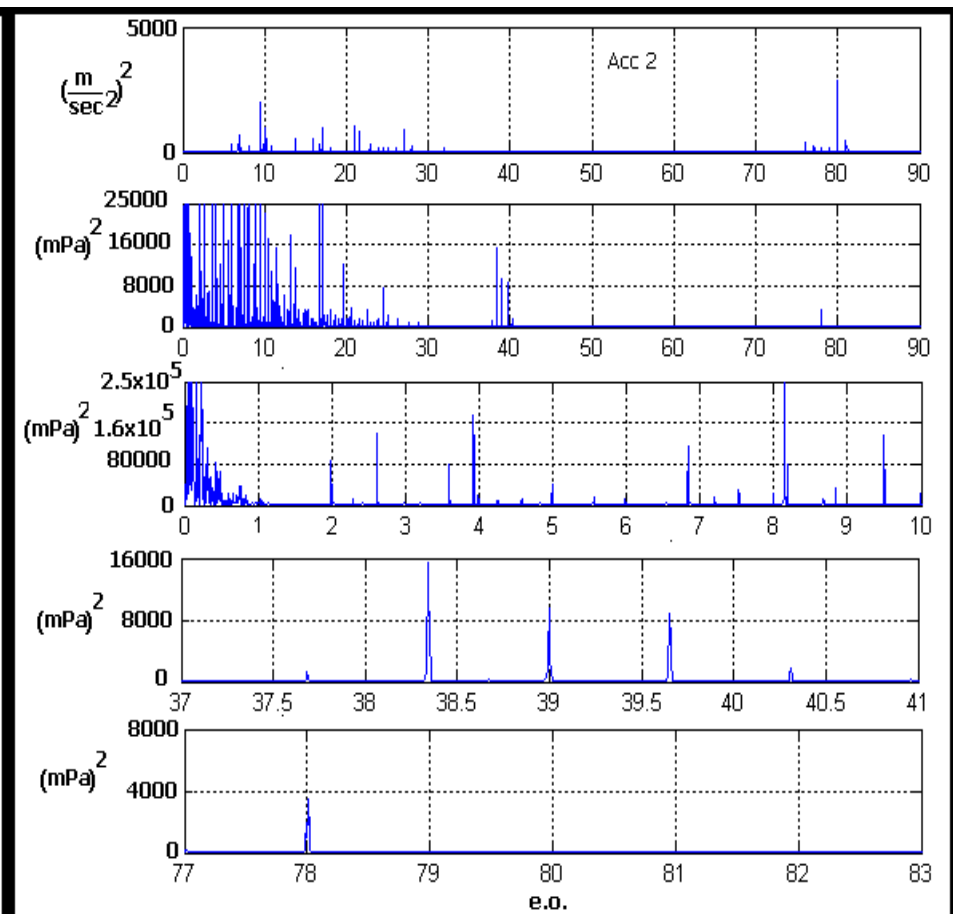


Figura B- 60 PSD con microfono inclinato

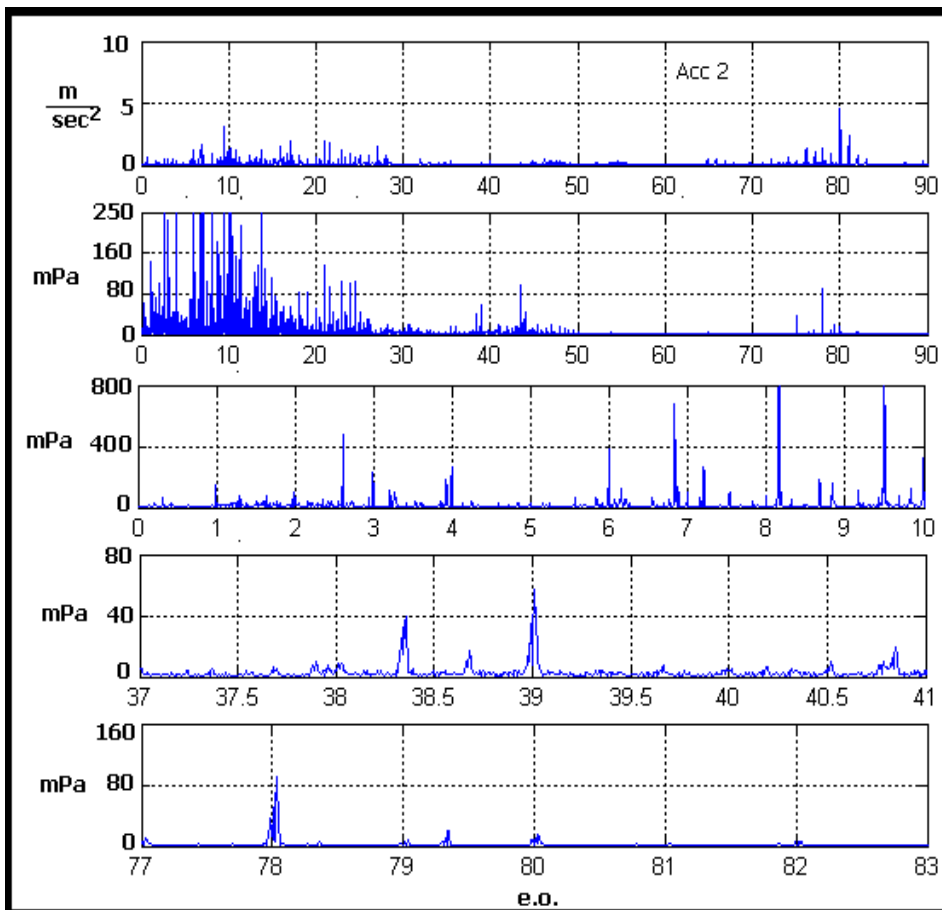


Figura B- 61FFT lato test 30mm da coperchio

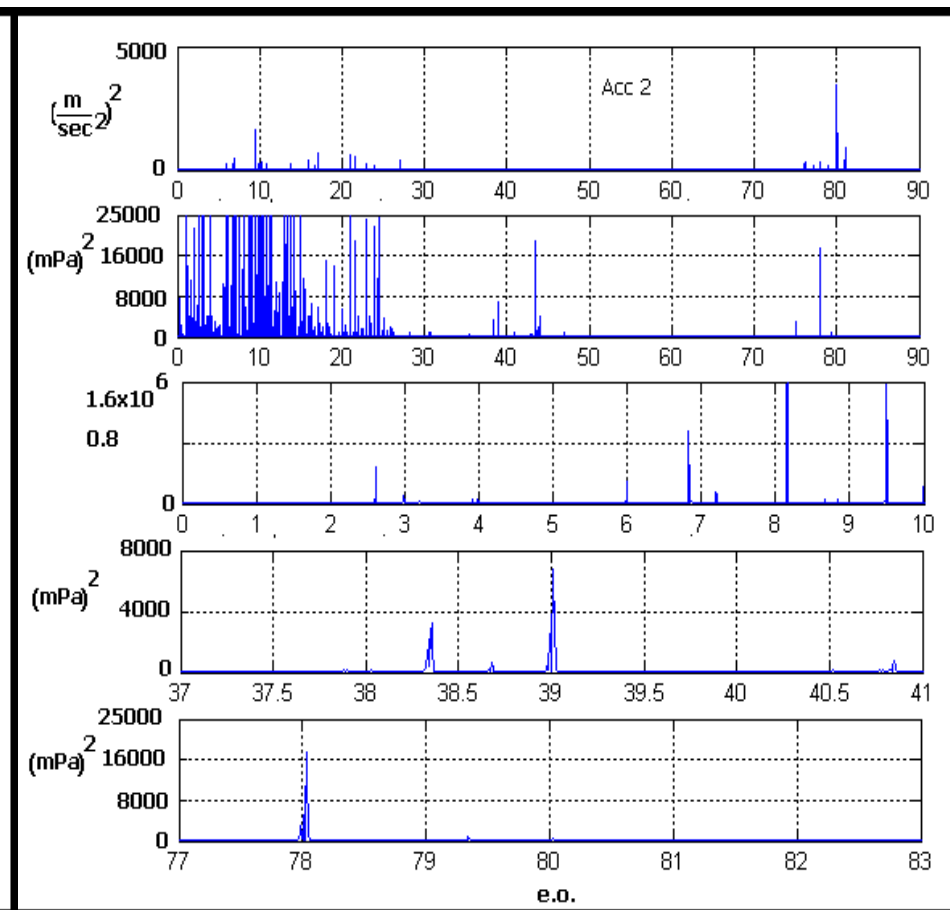


Figura B- 62 PSD lato test 30mm da coperchio

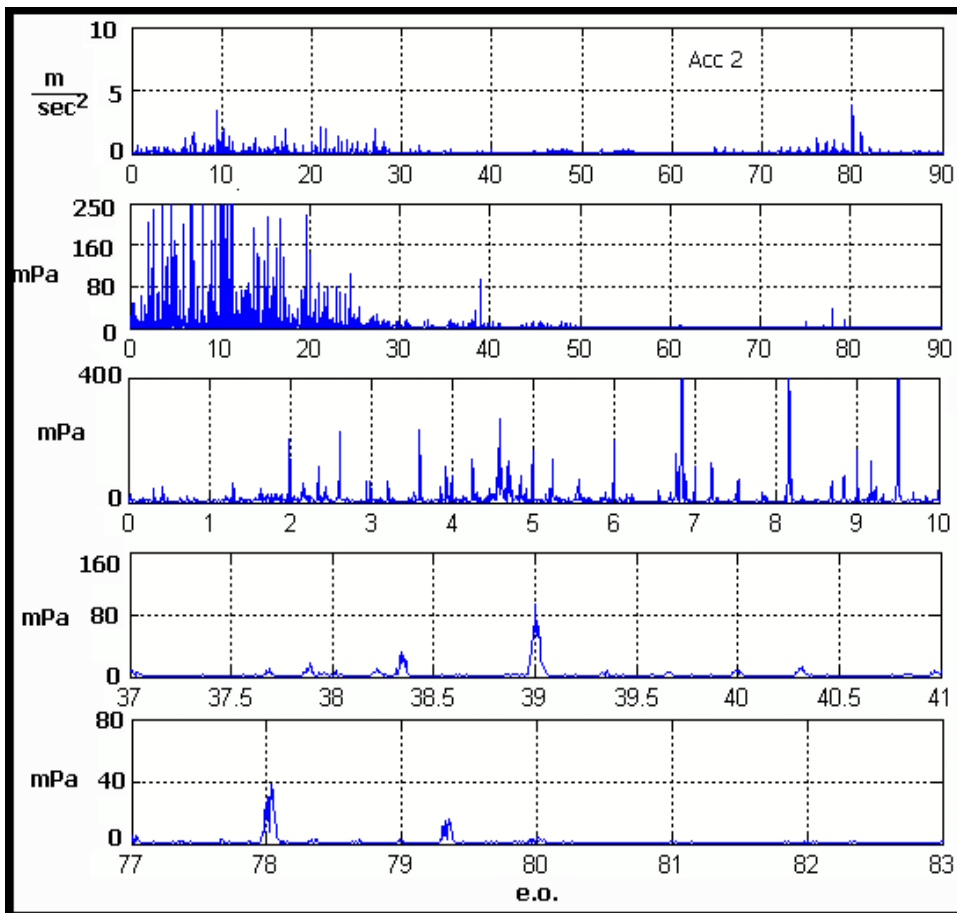


Figura B- 63 FFT microfono su coperchio ruote slave

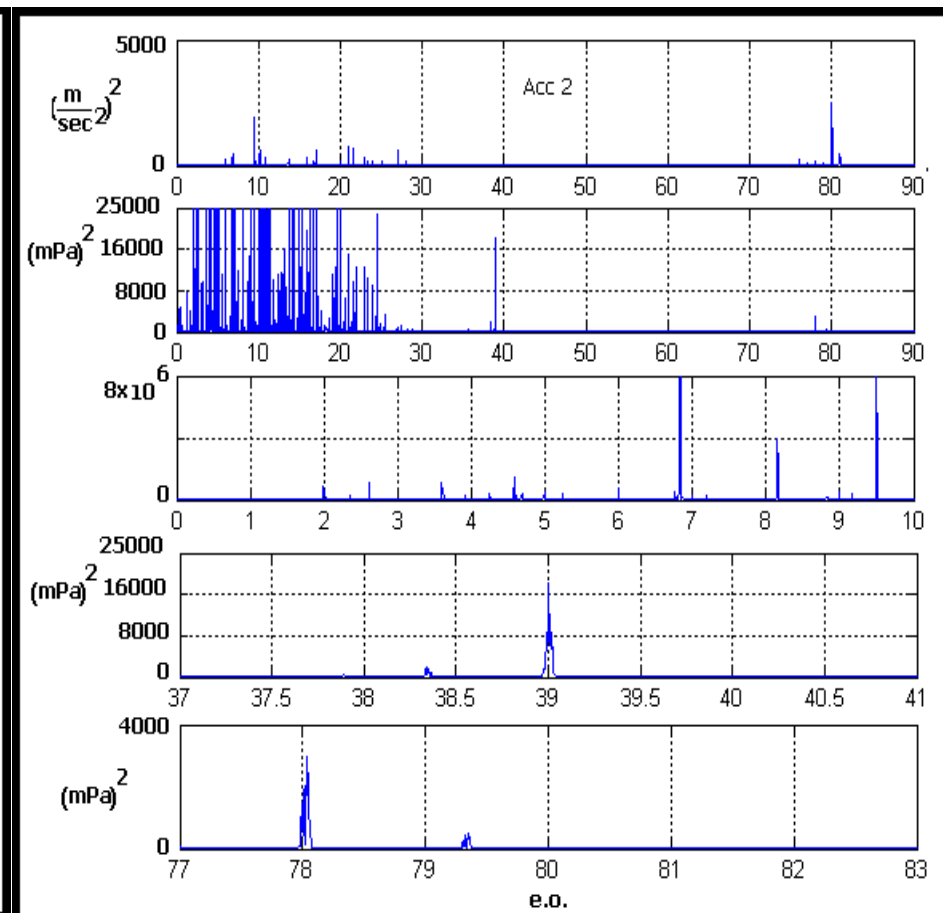


Figura B- 64 PSD microfono su coperchio ruote slave



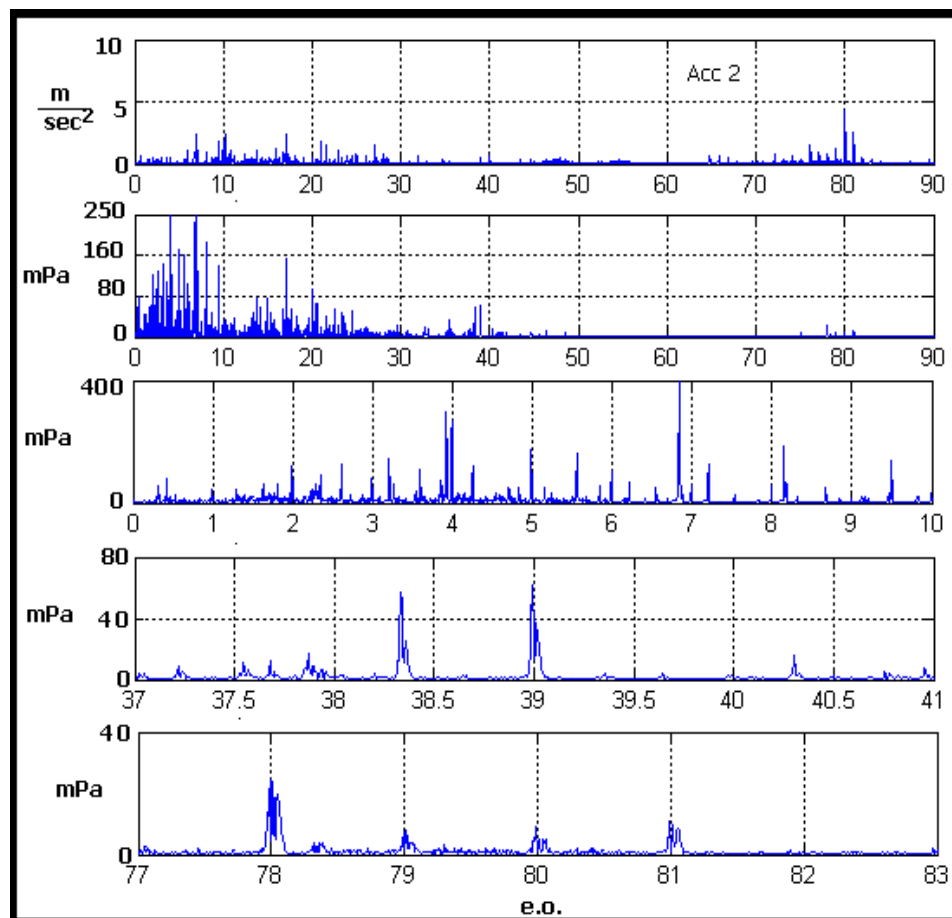


Figura B- 65 FFT microfono  $\perp$  al pannello ad una distanza di 45 mm

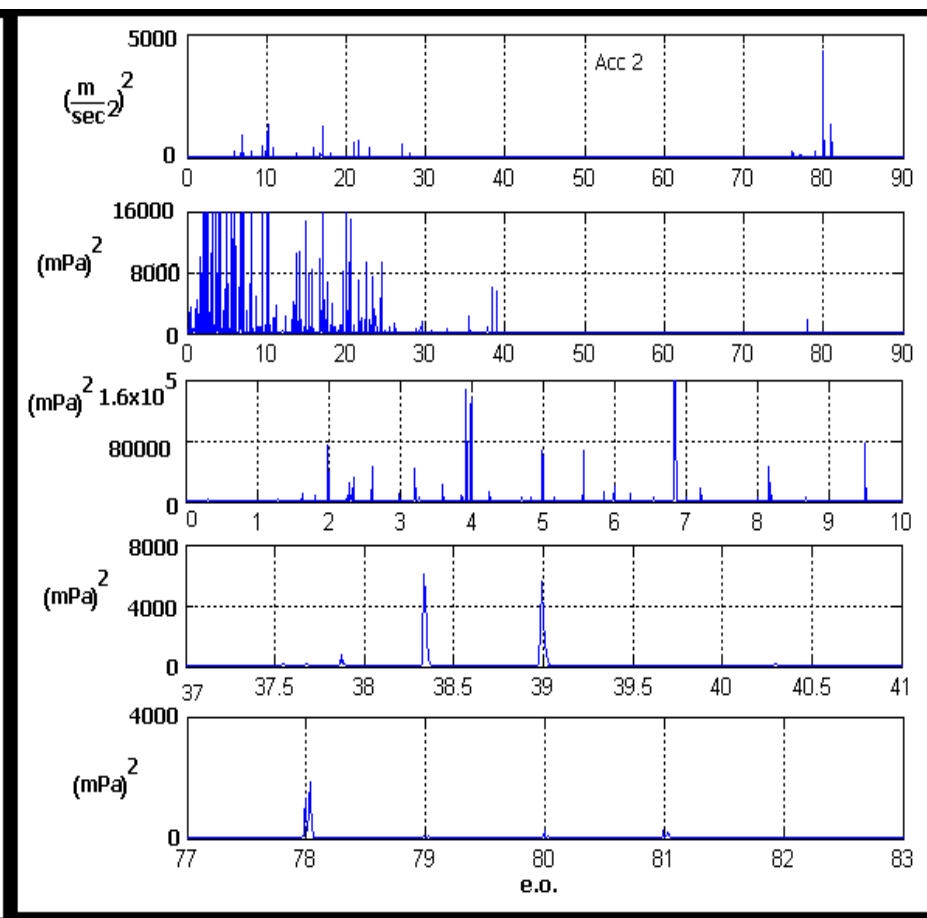


Figura B- 66 PSD microfono  $\perp$  al pannello ad una distanza di 45 mm

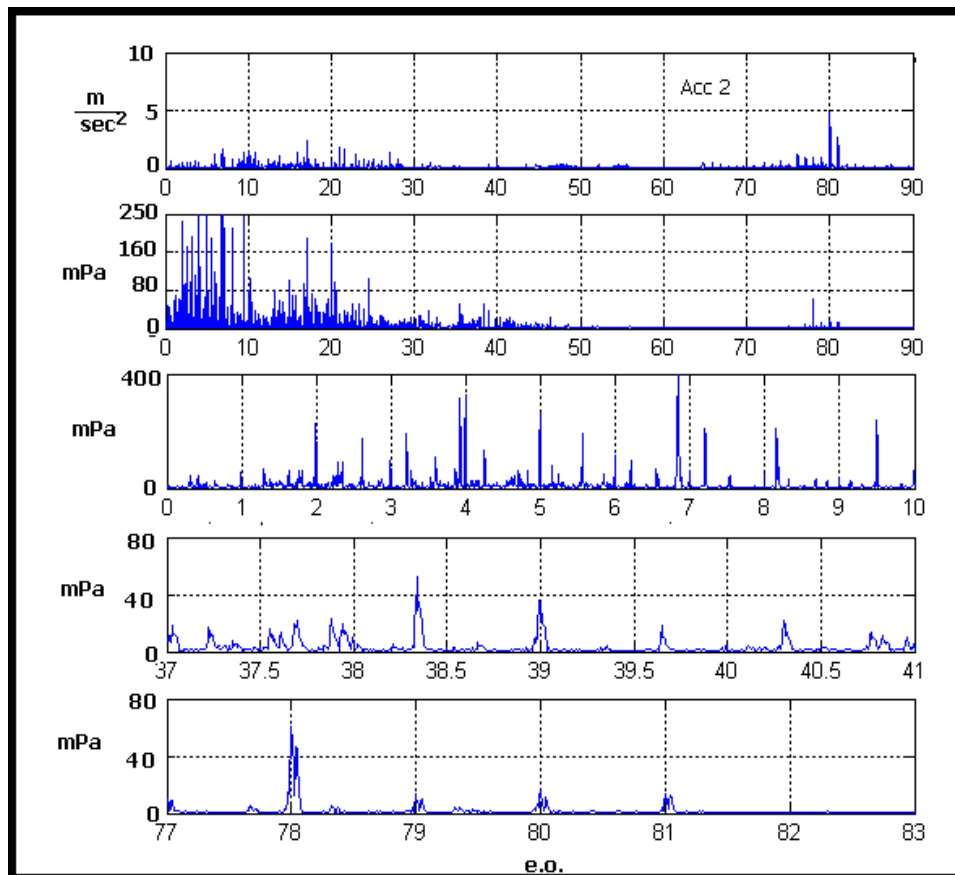


Figura B- 67 FFT microfono  $\perp$  al pannello ad una distanza di 20 mm

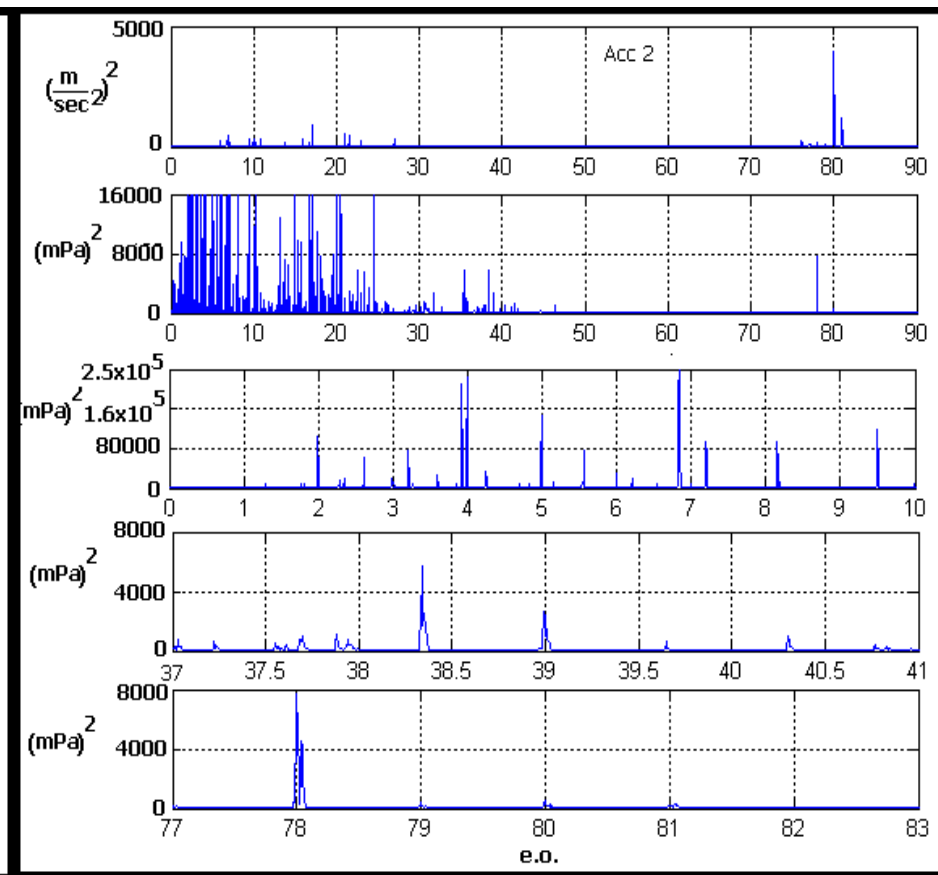


Figura B- 68 PSD microfono  $\perp$  al pannello ad una distanza di 20 mm

### B.7 Zona slave sinistra

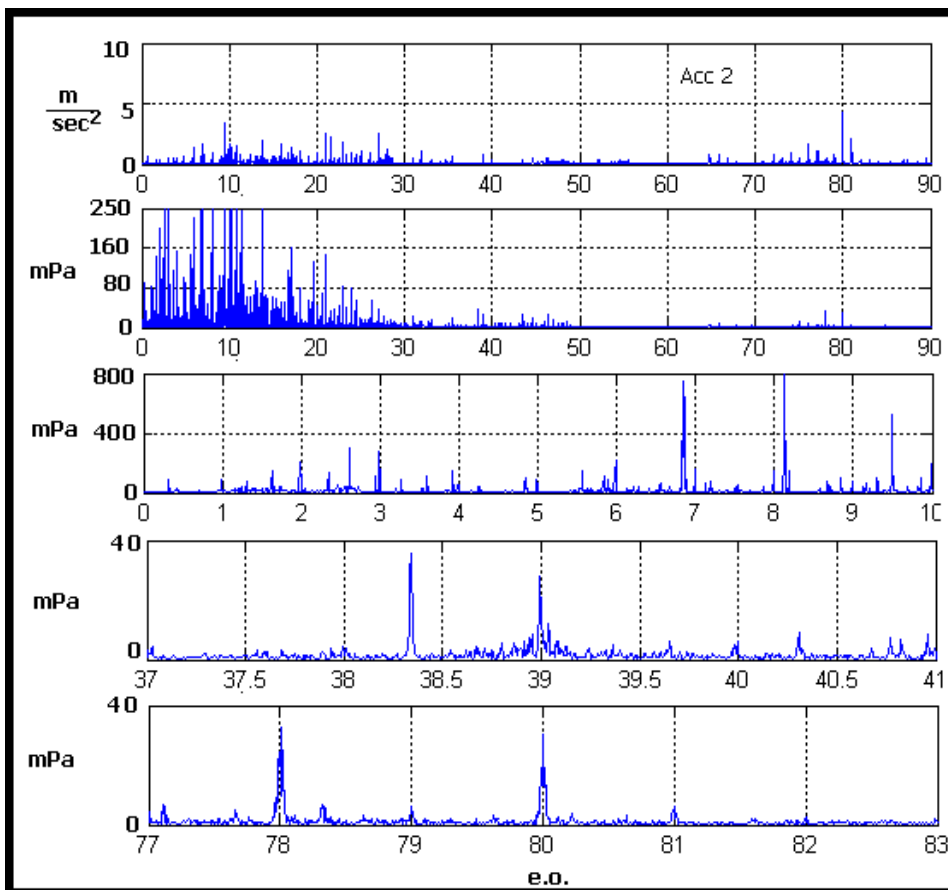


Figura B- 69 FFT 20 mm da coperchio albero slave veloce

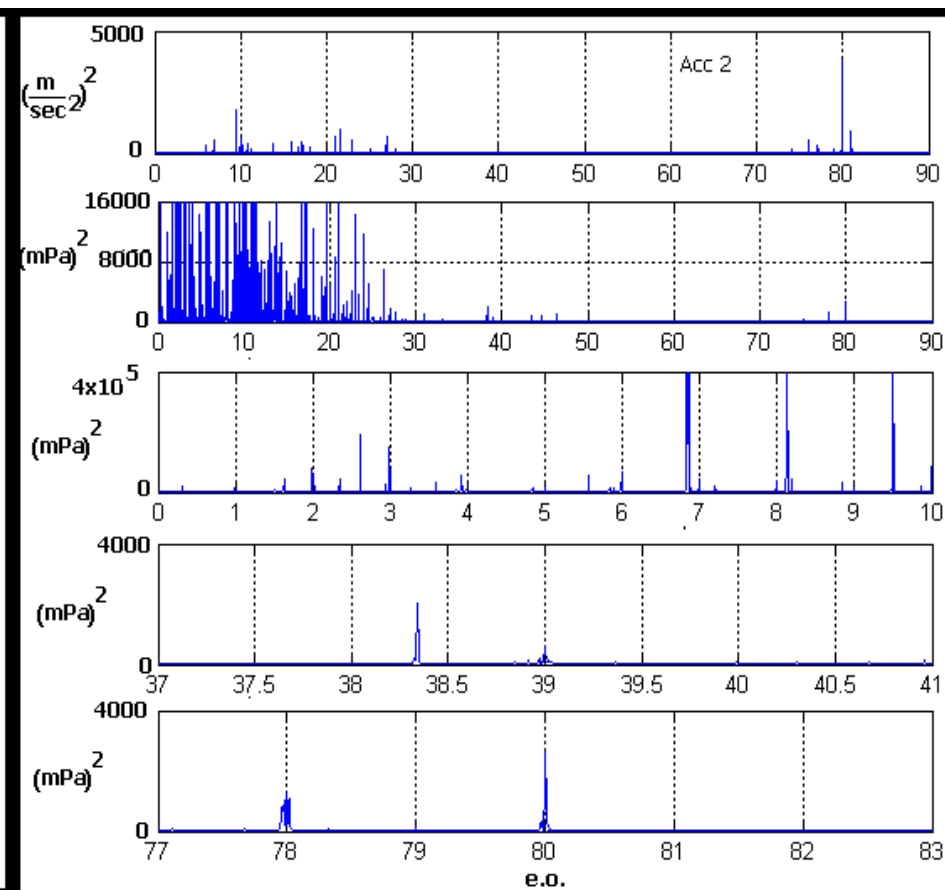


Figura B- 70 PSD 20 mm da coperchio albero slave veloce

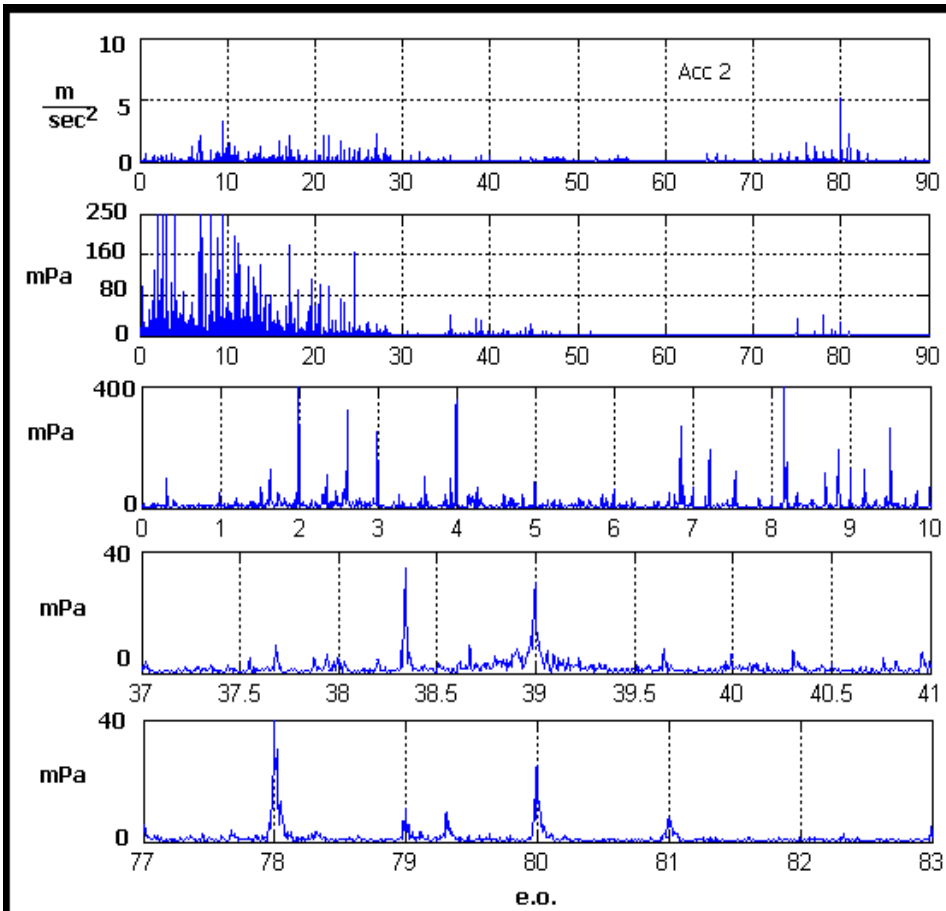


Figura B- 71 FFT lato torsimetro

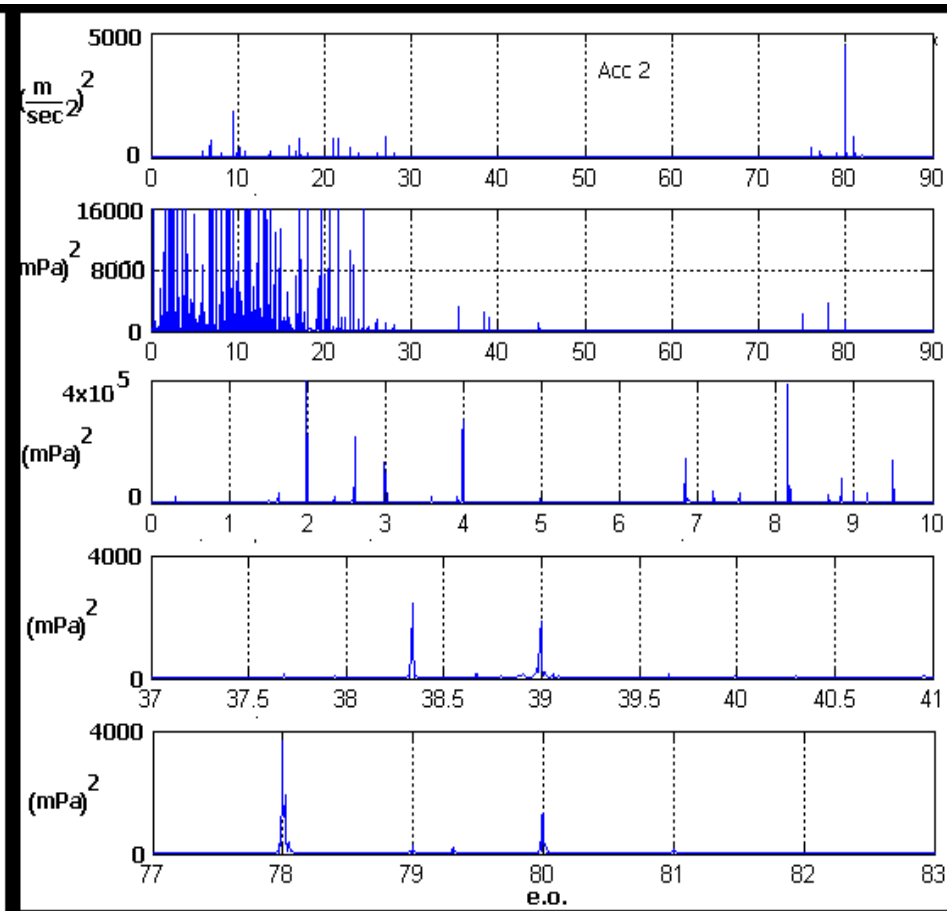


Figura B- 72 PSD lato torsimetro

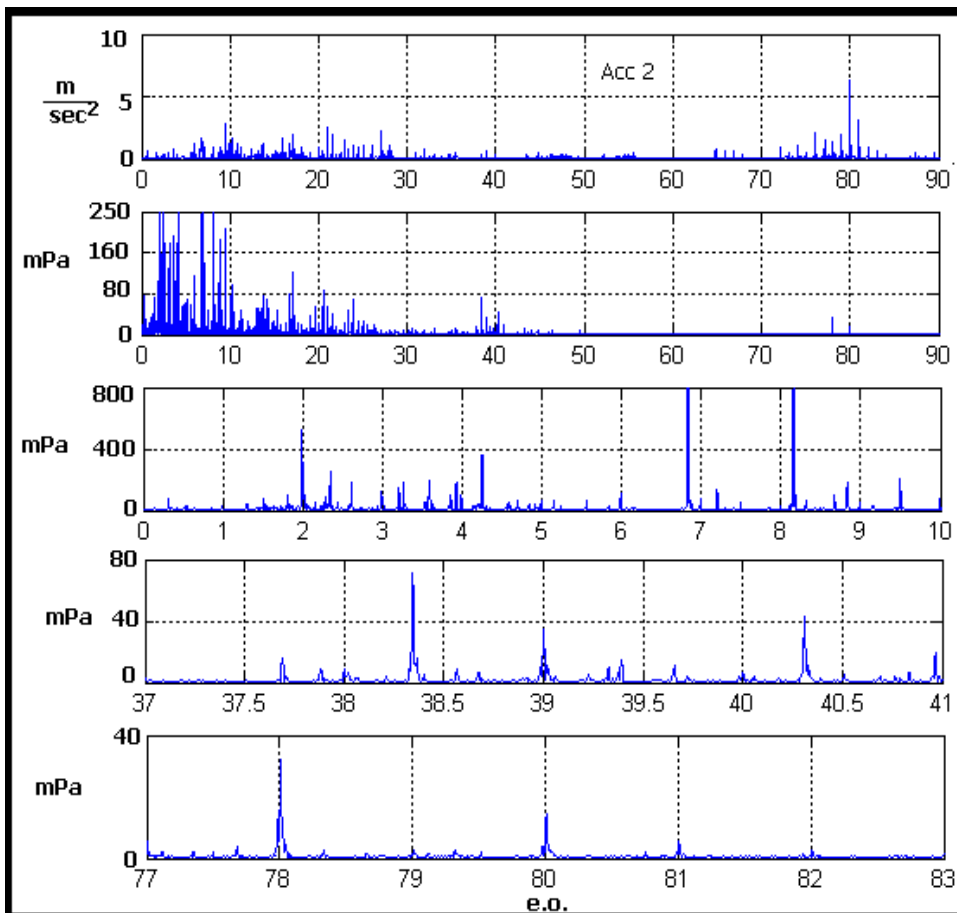


Figura B- 73 FFT pannello sinistro 30mm

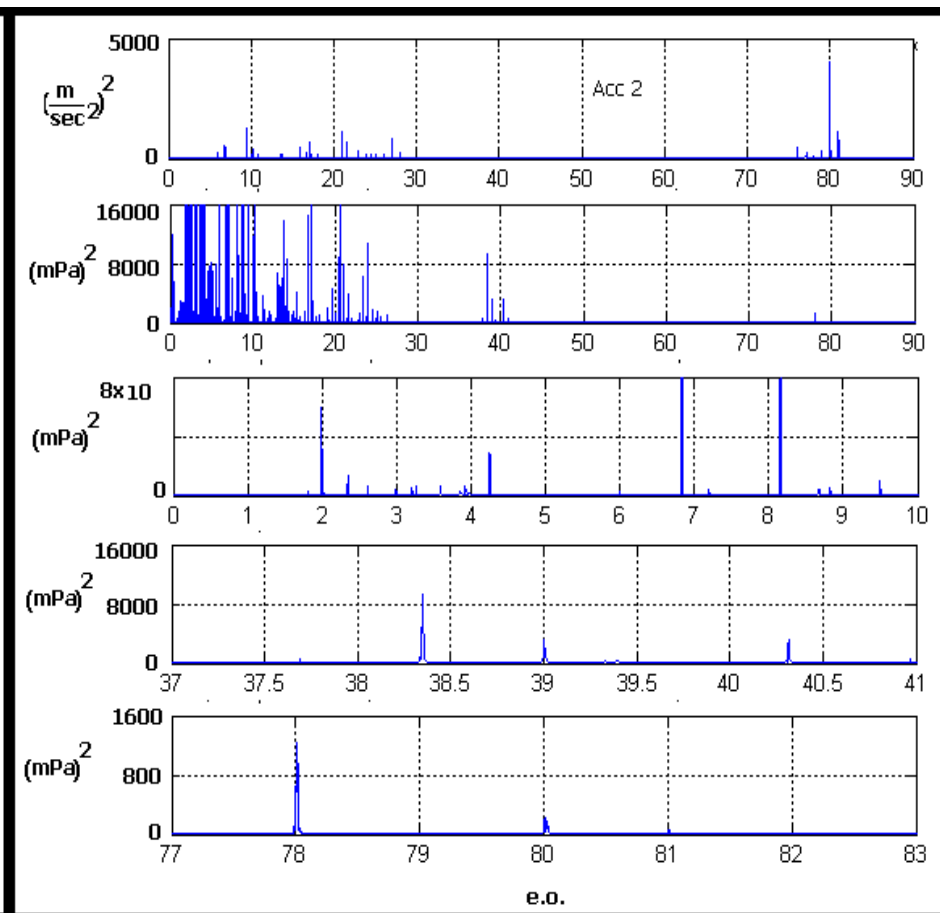


Figura B- 74 PSD pannello sinistro 30mm

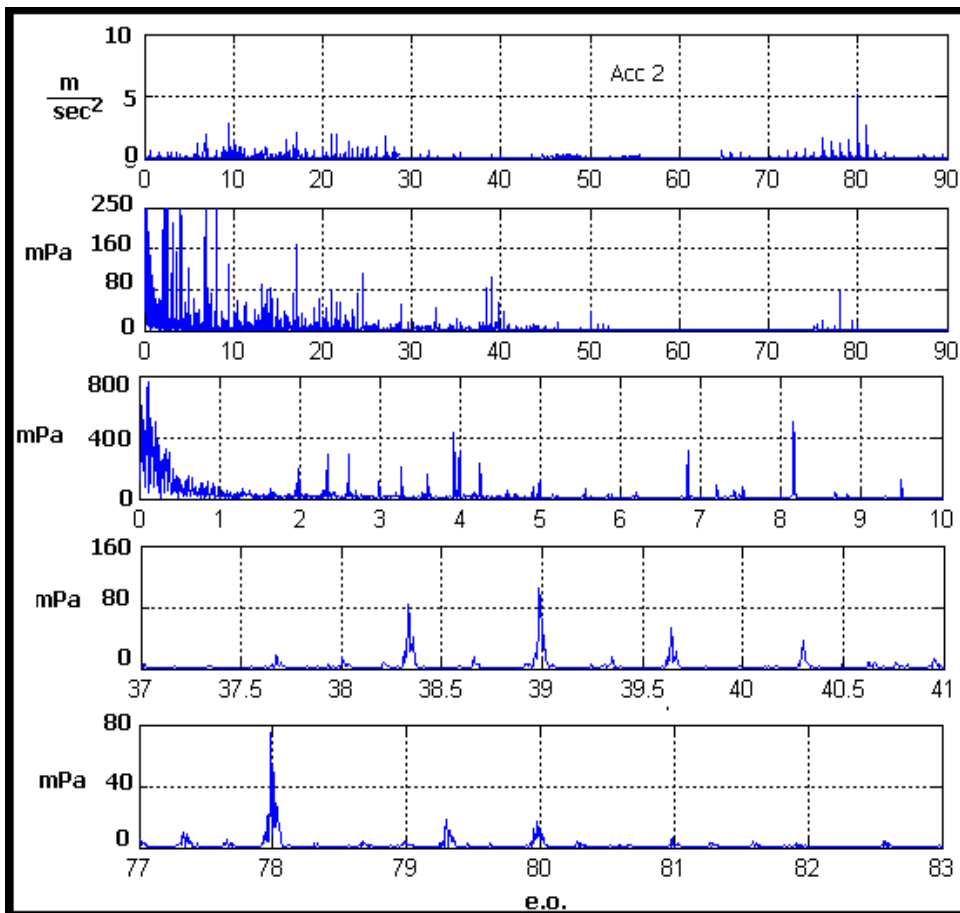


Figura B- 75 FFT 20 mm da accelerometro triassiale

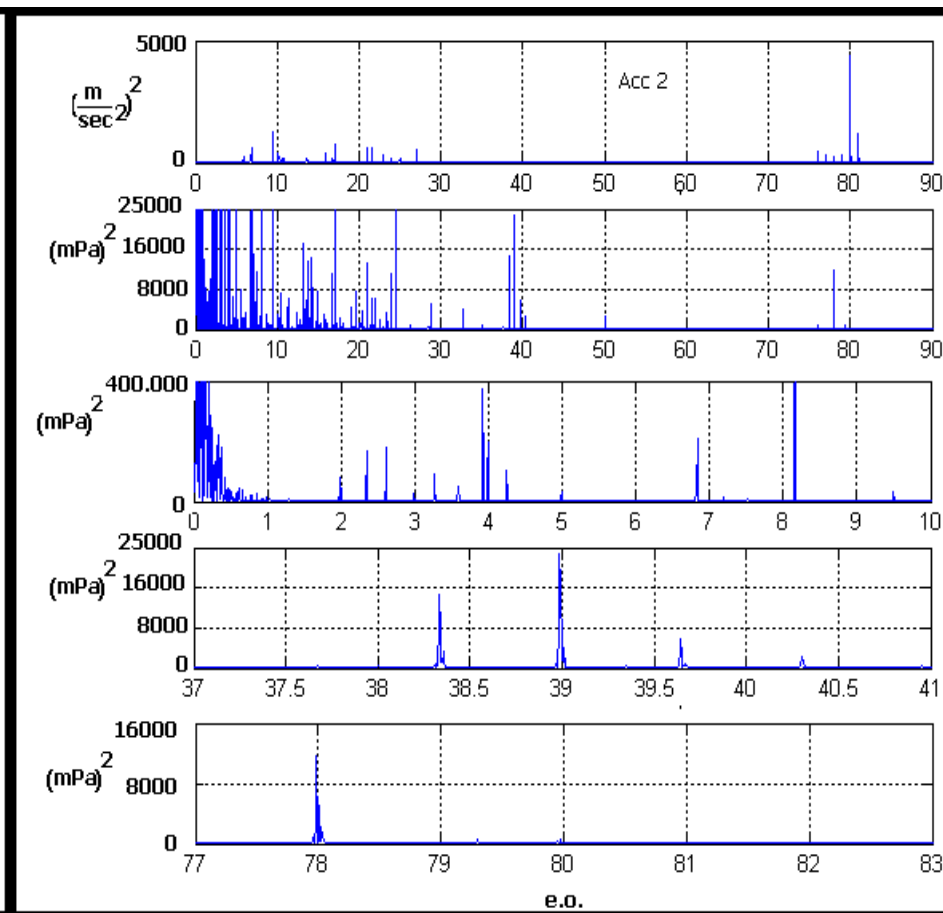


Figura B- 76 PSD 20 mm da accelerometro triassiale

**B.8 Zona motore A/C**

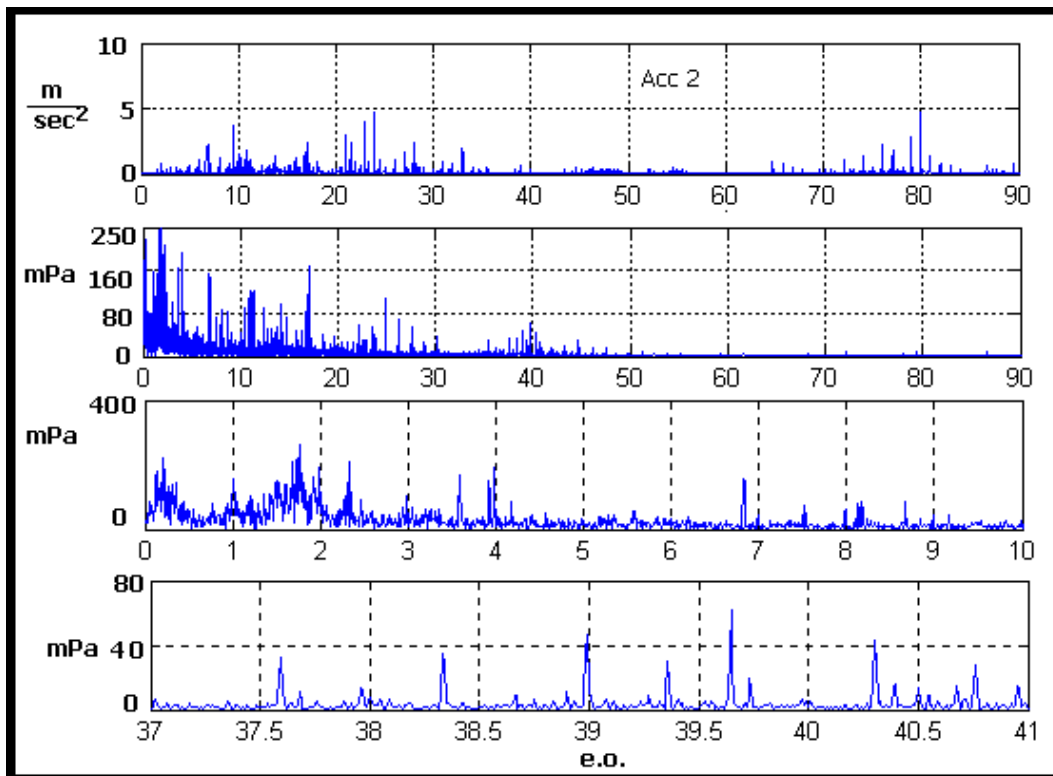


Figura B- 77FFT motore elettrico 8900 rpm 80 Nm

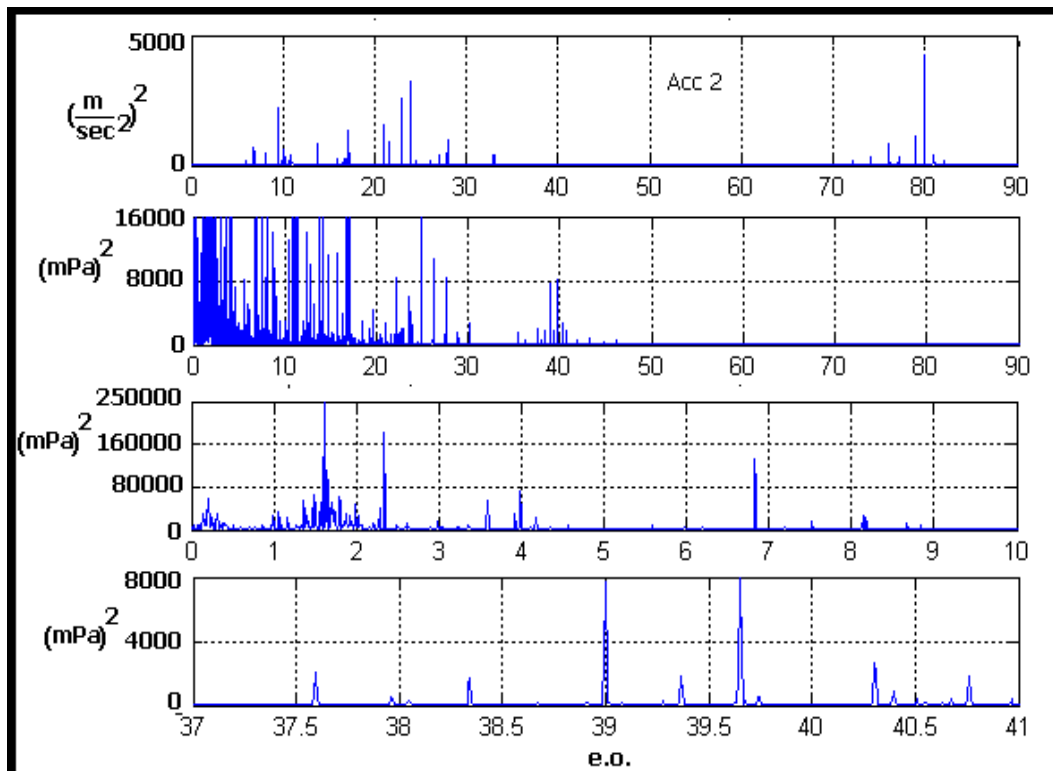


Figura B- 78 PSD motore elettrico 8900 rpm 80 Nm

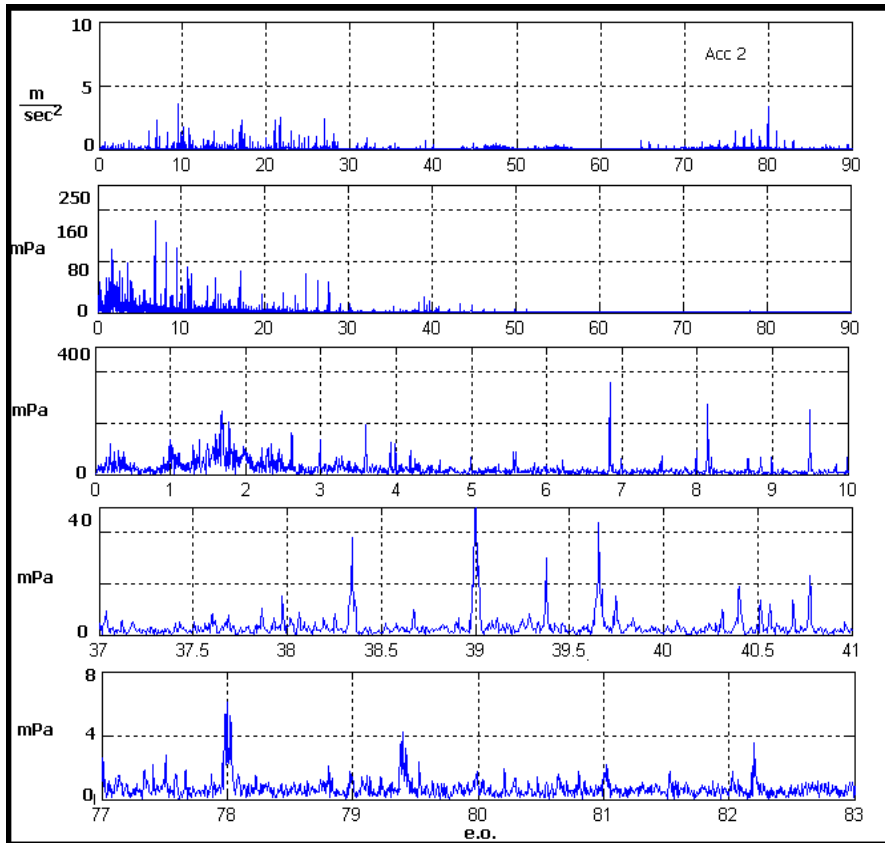


Figura B- 79 FFT motore elettrico 8900 rpm 500 Nm

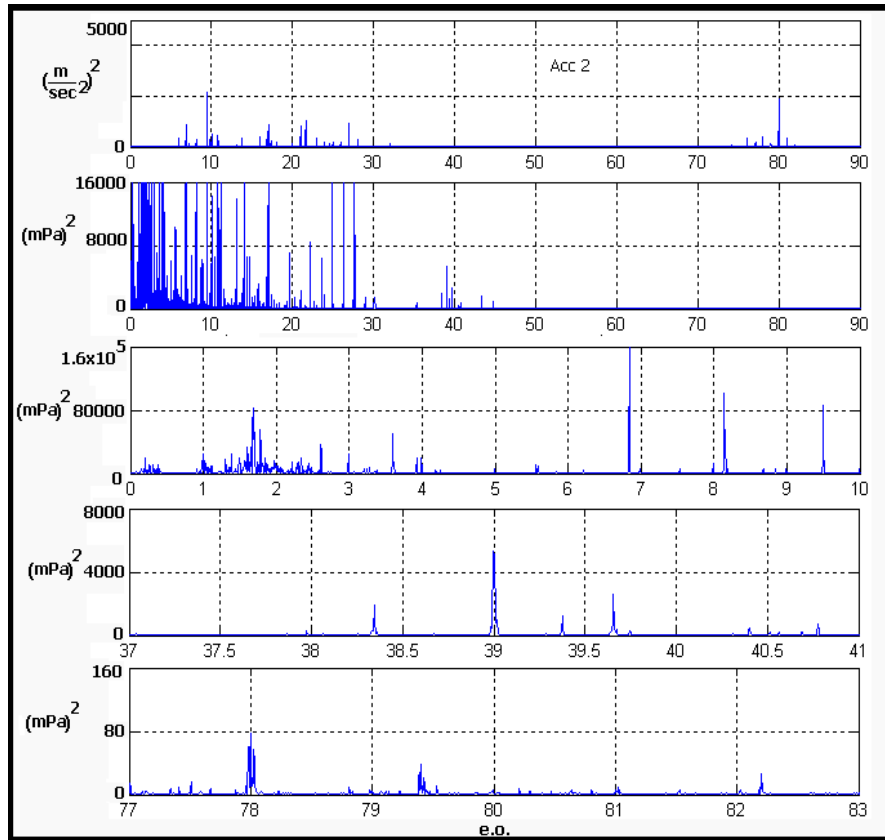


Figura B- 80 PSD motore elettrico 8900 rpm 500 Nm