

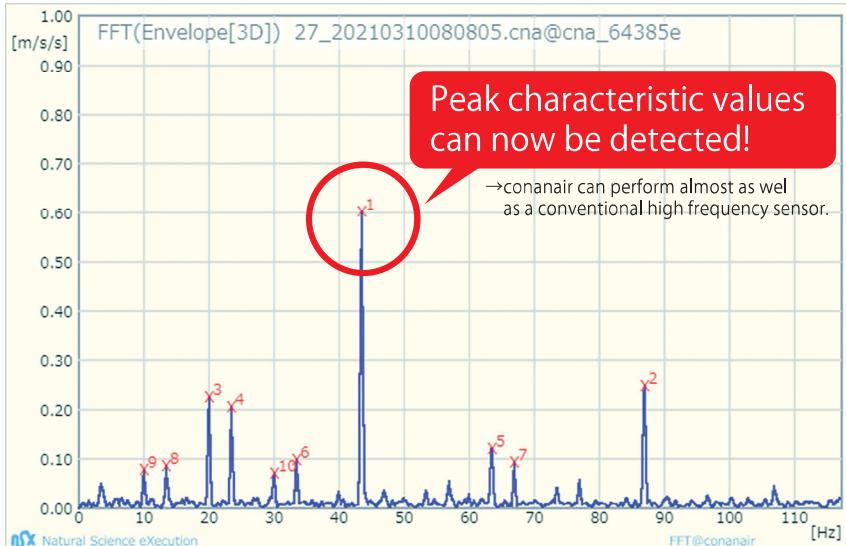
This new technology is used to find the hidden characteristics of high frequency waves.

Bearing damage diagnosis with 3D Envelope FFT

Bearing diagnosis which used to need high frequency vibration measurement can now be diagnosed using this new method!

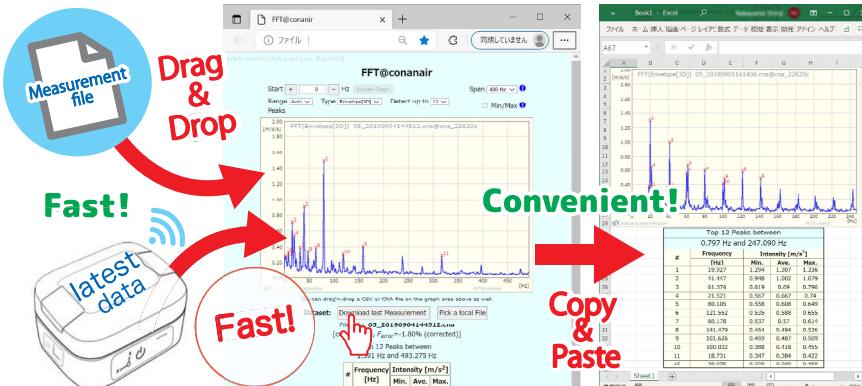
Patent pending

E.g., Ball bearing 6203@600rpm, characteristic frequency of outer ring damage = 43.68Hz



Top 10 Peaks between 0.378 Hz and 117.225 Hz				
#	Frequency [Hz]	Intensity [m/s ²]		
		Min.	Ave.	Max.
1	43.487	0.6	0.606	0.61
2	86.974	0.25	0.251	0.25
3	20.042	0.23	0.228	0.23
4	23.445	0.2	0.21	0.22
5	63.529	0.13	0.125	0.13
6	33.466	0.09	0.102	0.11
7	66.932	0.09	0.095	0.1
8	13.424	0.09	0.088	0.09
9	10.021	0.08	0.082	0.08
10	30.063	0.07	0.073	0.08

FFT can be easily measured by using a web browser.



FFT graphs and result tables can be copied and pasted with Excel using the drag & drop feature from the measurement files.

Main specification

MEMS

Three axes acceleration sensor

Equipped with ADXL345

(Made by ANALOG DEVICES)

Range: ±16g

Frequency: 0~1,000Hz(-3dB)

Sampling Interval: 3,200Hz

Vibration measurement time:
10sec/1time(fixity)

Date of all three axes(X, Y, Z)acceleration can be recorded for a total of
96,000 points.

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS
ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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