◇ **Evaluation of Wireless Terminal & Wireless Module** (Low-power Wireless such as ZigBee etc.)

［〜*Application*〜］

・The evaluation of Wireless terminal & module is possible in the envirement where the unnecessary radio wave is suppressed.

［〜*Solution*〜］

① ■Transmission characteristics test of wireless terminal & module by air connection

・The radio wave transmitted from the wireless module on the turntable is received by the receiving antenna installed at the opposite side of the wireless module, and it is output outside of the anechoic box.

・Each evaluation test of the transmission characteristics of the wireless module is performed by a measuring instrument such as spectrum analyzer connected with the in/out terminal.
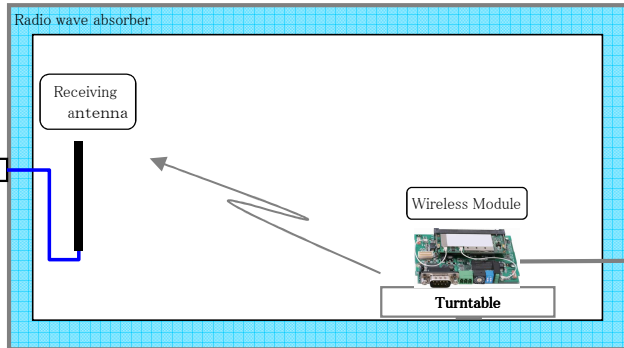
Connection example ）

●Spectrum analyzer

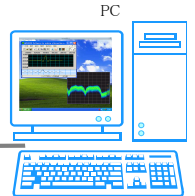●Anechoic box（MY1530）

Radio wave absorber

Receiving antenna

Wireless Module

Turntable

I/F Module
・Mode setting
・Power supply

PC

・Transmission level measurement
・Channel power measurement
・Occupied bandwidth measurement
・Adjacent channel power measurement
・Frequency measurement

② ■Receiving characteristics test of wireless terminal & module by air connection

・The signal of the wireless terminal is transmitted from the transmission antenna through the programmable attenuator. Then the baseband signal is output from the wireless module and measured.

・ The receiving sensitivity and the receiving level are measured by a measuring instrument such as BER instrument, spectrum analyzer and power meter connected with the in/out terminal.

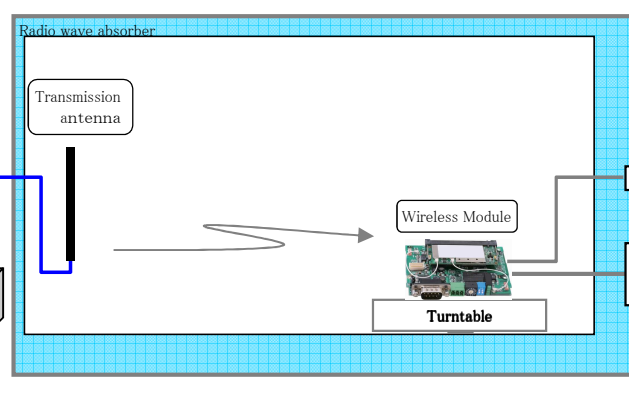Connection example ）

Wireless terminal

●Programmable attenuator （MAT810）

●Anechoic box（MY1530）

Radio wave absorber

Transmission antenna

Wireless Module

Turntable

to Measuring instrument
・BER instrument
・Spectrum analyzer
・Power meter etc.

I/F Module
・Mode setting
・Power supply

PC

・ Receiving sensitivity measurement
・ Receiving level measurement

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