# AUTOMAS：Efficient time management in solid state NMR

Product used ： Nuclear Magnetic Resonance (NMR)

JEOL AUTOMAS probe combined with Auto Sample Changer[*1] and Auto Tune Unit allows for fully automated solid NMR measurements including sample load/eject, tuning and matching, magic angle spinning frequency control, and temperature control. This enables you to manage efficient data collection as liquid NMR.

Automated continuous measurement

An example of automated continuous measurement by changing sample, observation nuclei[*2], and MAS frequency

^{79}Br 5kHz ^{13}C 20kHz ^{23}Na 15kHz

KBr / ^{79}Br chemical shift /ppm

Cholic Acid / ^{13}C chemical shift /ppm

Na_2CO_3 / ^{23}Na chemical shift /ppm
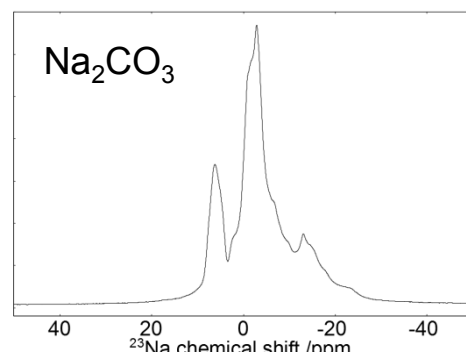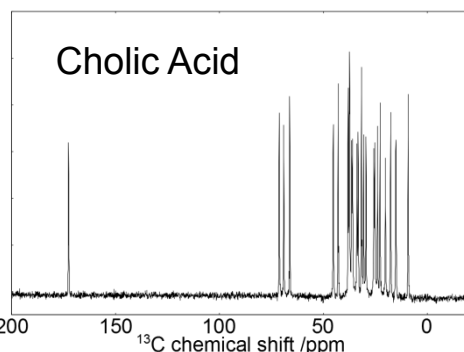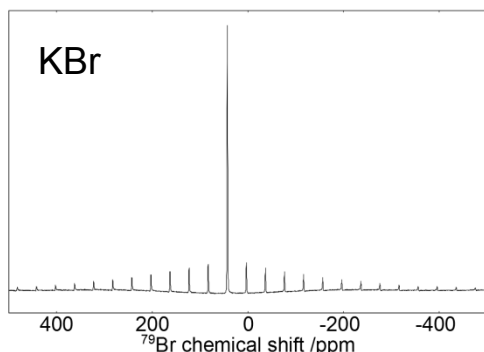
Related product   JNM-ECZR500, 3.2mmAUTOMAS probe, JackBean30

*1 Compatible auto sample changers are JackBean30, 60, 100, and ASC24.

*2 Automatic tuning is not available between nucleus with large observation frequencies difference which is required a frequency conversion stick.