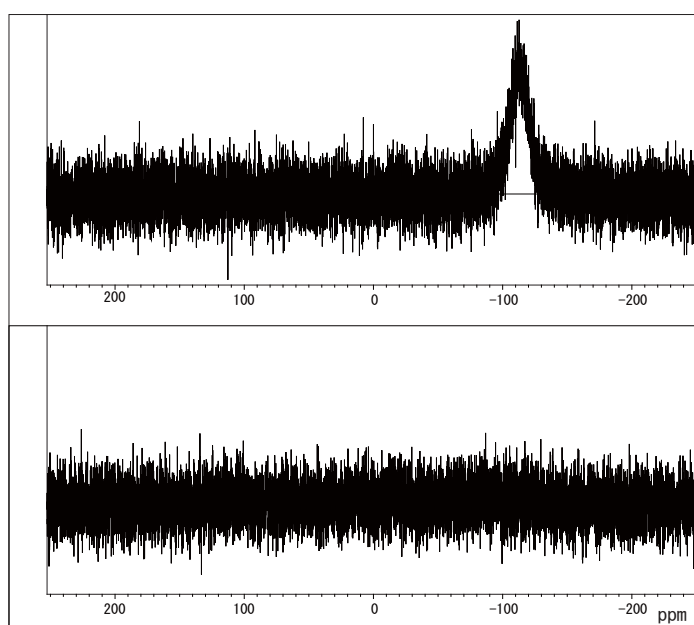


10mm special probe for silicon (^{29}Si) measurements

In ^{29}Si NMR measurements, background signals are usually of a problem; even though background from sample tubes is reduced by using PTFE tubes, background from silicon parts of the probe, if any, cannot be removed.

In this special probe, all the silicon materials are replaced by carbon materials. As shown below, background signals arising from silicon materials of the standard probe are removed when the special probe is used. This probe is highly recommended for the users suffering from silicon background.



^{29}Si spectra
without samples

Standard probe

Special probe

Specifications

Sample tube o.d.	10mm
Observation nucleus	^{29}Si
Irradiation nucleus	^1H
NMR lock nucleus	^2H
90° pulse (^{29}Si)	$< 25\mu\text{s}$
Temp. range	RT to $+80^\circ\text{C}$



External view

* This probe is specially designed for ^{29}Si , and so background may appear for the other nuclei.