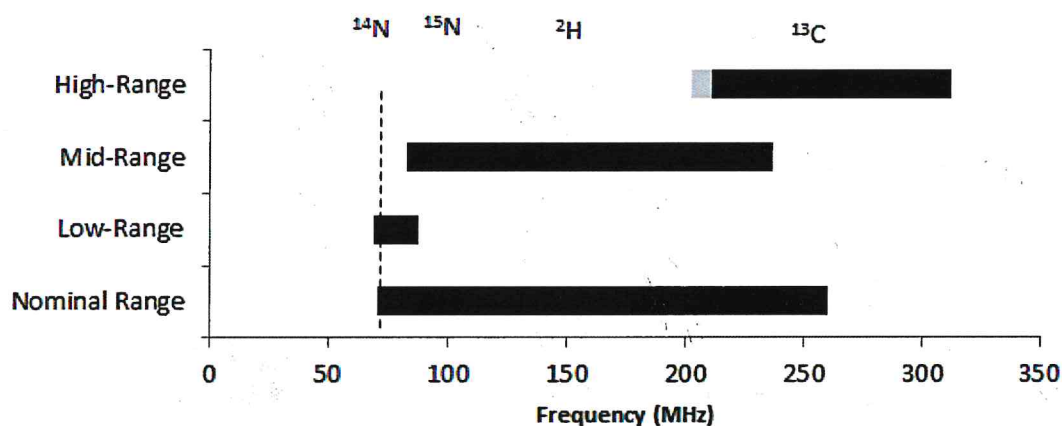


X-Channel: Tuning Range Setup

The overall tuning range of the X-channel is split into three intervals, covering Larmor frequencies from ^{14}N to ^{13}C . Depending on the observed nucleus the correct interval can be set by a combination of two switches labelled as "1" and "2". The frequency ranges and the corresponding switch setting is illustrated below:



	SW 1	SW 2	Frequency Range	Typical Nuclei
Low-Range	pushed (closed)	pushed (closed)	69 – 87 MHz	^{14}N
Mid-Range	pushed (closed)	pulled (open)	83 – 236 MHz	^2H
High-Range	pulled (open)	pulled (open)	211 – 311 MHz	^{79}Br , ^{13}C , ^{27}Al
Not – recom.	pulled (open)	pushed (closed)	n/a	n/a

Fig. 1 – Low-, Mid-, and High-Range with corresponding resonance frequencies.