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## One-Minute NMR Feature Summary Summer 2008 Version 1.1.31

Advances in our system are shared with all users, and as a result, One-Minute NMR continuously improves and becomes more refined and robust. Our expanding community of users and their collective experience includes sites here in the USA, and also in Canada, the UK, the Netherlands, Switzerland, New Zealand, Malaysia, and Japan. We estimate to date that over 350,000 samples have been run through our CapNMR probes. Here is a brief feature list available in the current One-Minute NMR system, all automated. Many of the capabilities were requested by users.

- Web-based operating software
- Independently compatible with all spectrometers: Bruker, Varian, JEOL
- Leap/CTC Pal autosampler
- System start-up
- System shut-down
- Probe Cleaning with a cleaning solution at any desired interval
- Syringe Cleaning; every sample
- Injection Port Cleaning; every sample
- In-the-port sample filtering with reverse rinsing of the filter; every sample
- Pressure monitoring in each run, with pressure recorded graphically
- Overpressure notification for filter changing
- Counters for all system consumables and maintenance such as the syringe, filters, and valve rotor
- E-mailing notification of NMR data
- Full operational parameter saving (backup file) and parameter restoration
- Accommodation of 54-well trays, or 96- or 384-well plates
- Solvent switching among three solvents with automatic re-loading of shims and lock parameters
- Pull-down NMR experiment selection from a experiment list on One-Minute NMR web page
- Sample return to well of origin or elsewhere
- Running of Quality Control sample with pass/fail criteria (line width and S/N) at any desired interval
- Automated Delivery Volume Calibration
- Use of 50-, 25- or 10- $\mu$ L syringes
- Sample reconstitution with deuterated solvent
- Deuterated solvent storage under helium, plus solvent degassing to ensure bubble-free performance

