

Microarray Quality Assessment

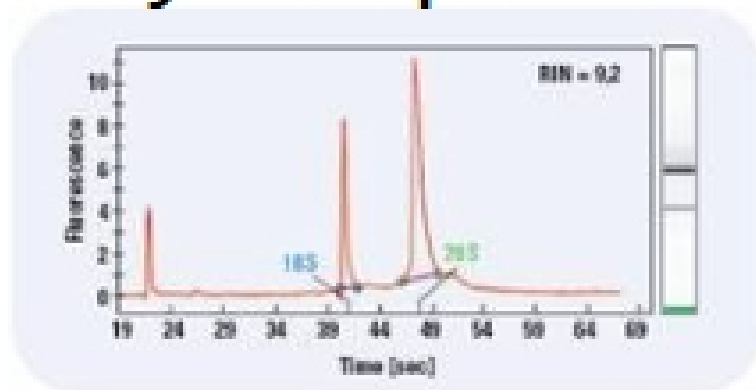
Issues in High-Throughput Data Analysis

BIOS 691-803 Spring 2010

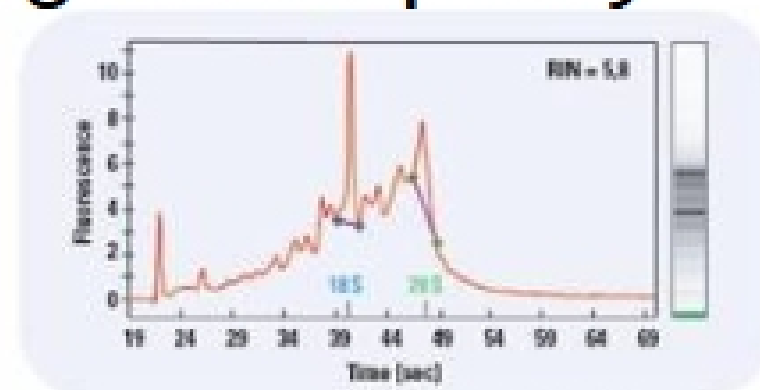
Dr Mark Reimers

Quality Assessment

- Are there any factors that would lead you to doubt or distrust a particular datum (array) ?
- Quality of inputs – e.g. RNA quality



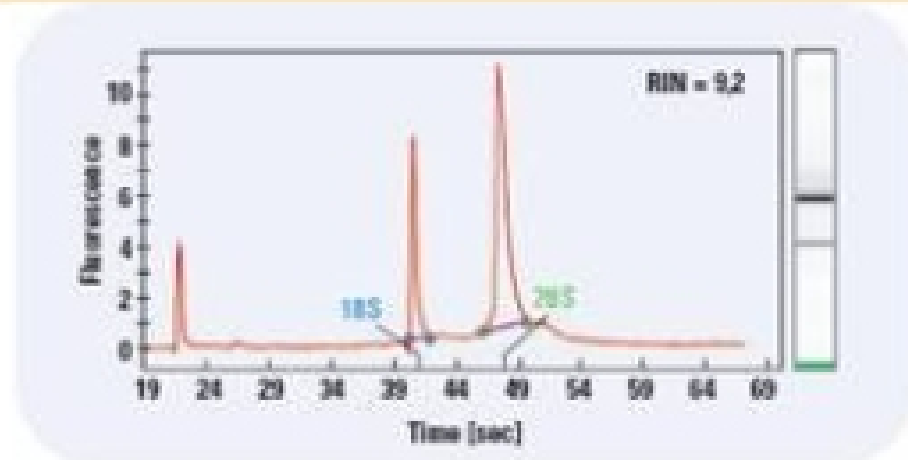
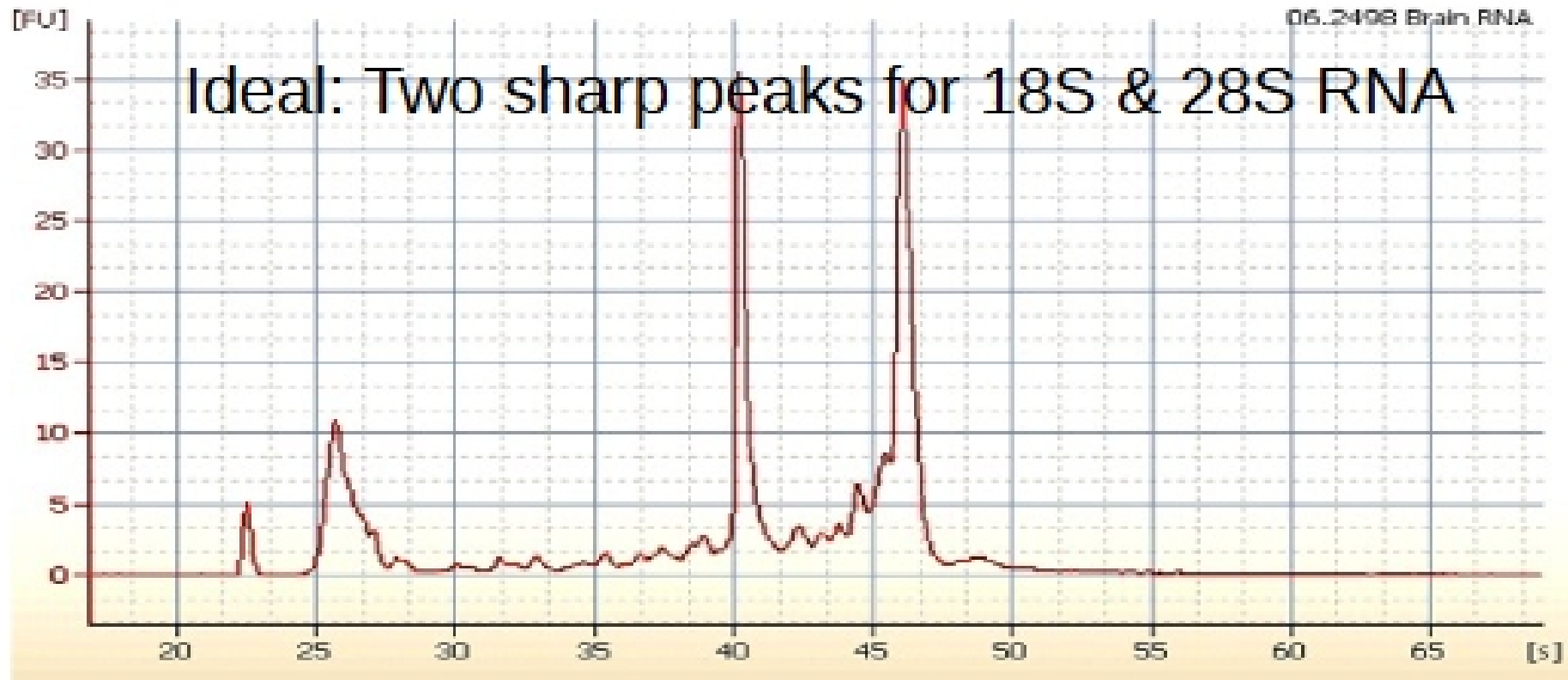
Intact total RNA



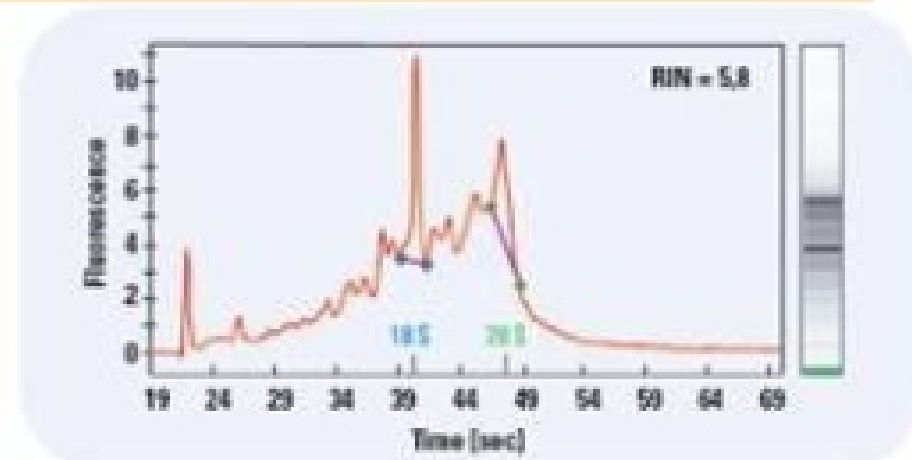
Partially degraded RNA

- Statistical QA – evidence of systematic variation different from others

BioAnalyzer



Intact total RNA



Partially degraded RNA