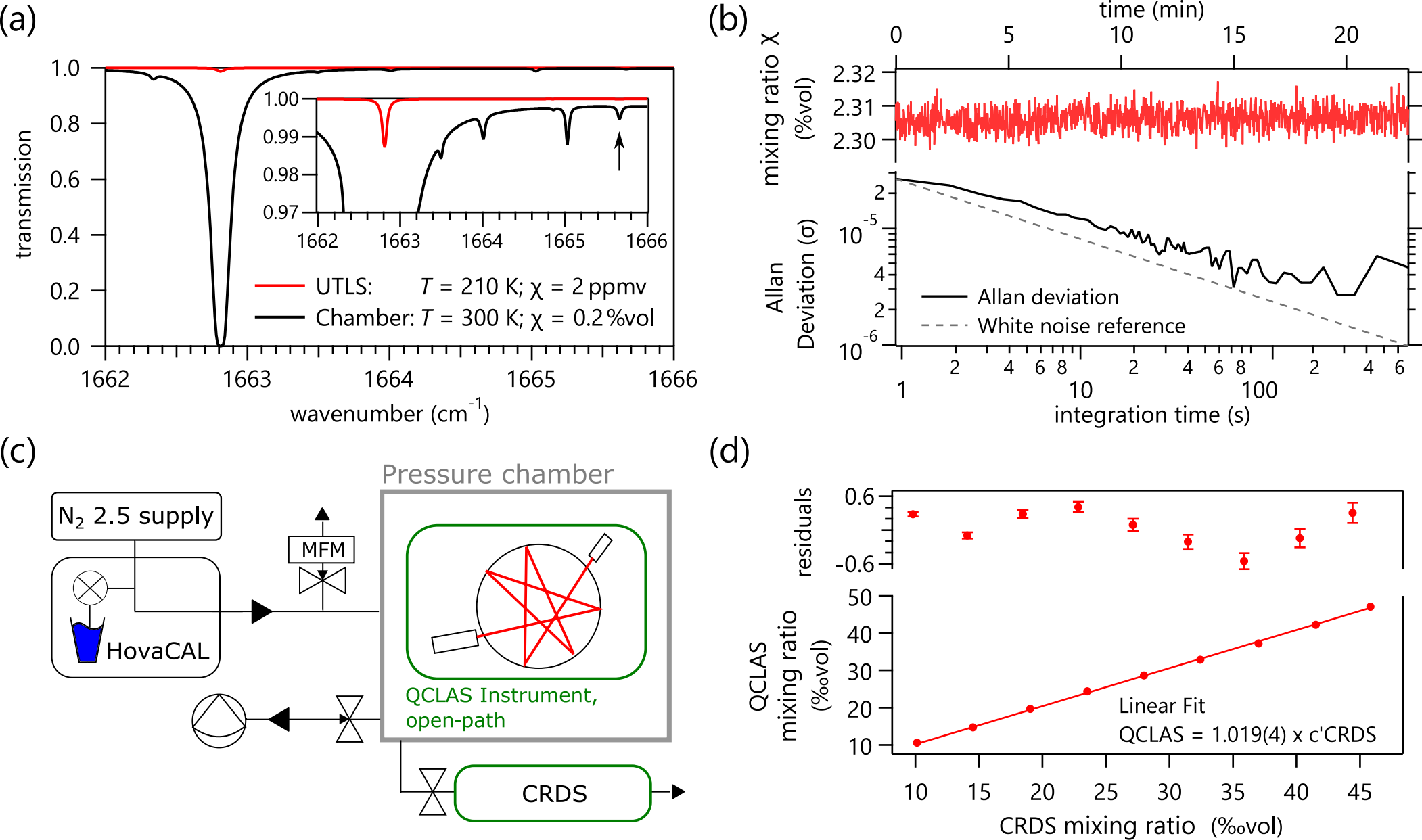
(a)
transmission
wavenumber (cm-1)
UTLS: T = 210 K; χ = 2 ppmv
Chamber: T = 300 K; χ = 0.2 %vol
(b)
time (min)
mixing ratio χ (%vol)
Allan Deviation (σ)
Allan deviation
White noise reference
integration time (s)
(c)
Pressure chamber
N2 2.5 supply
MFM
HovaCAL
QCLAS Instrument, open-path
CRDS
(d)
residuals
QCLAS mixing ratio (‰vol)
Linear Fit
QCLAS = 1.019(4) x c'CRDS
CRDS mixing ratio (‰vol)