

Table 2

Operation condition of the UV fs LA system coupled to a MC-ICP-MS

UV fs LA system (based on Solstice, Spectra-Physics)

Wavelength [nm]	193
Pulse width [fs]	~ 200
Pulse energy [J cm^{-2}]	2
Spot diameter [μm]	35 - 50
Scan mode	helix, scan speed of 2 mm s^{-1}
Repetition rate [Hz]	5 - 250

MC-ICP-MS (Nu Plasma II, Nu Instruments)

Cool gas [L min^{-1}]	13.0
Auxiliary gas [L min^{-1}]	0.80
Sample Gas Ar [L min^{-1}]	0.90 - 1.02
Mixed gas He [L min^{-1}]	0.38 - 0.44
RF power [W]	1300
Cones	Ni sample / skimmer cone for dry plasma conditions
