

**Table 2**

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

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<b>UV fs LA system (based on Solstice, Spectra-Physics)</b>	
Wavelength [nm]	193
Pulse width [fs]	~ 200
Pulse energy [ $\text{J cm}^{-2}$ ]	2
Spot diameter [ $\mu\text{m}$ ]	35 - 50
Scan mode	helix, scan speed of $2 \text{ mm s}^{-1}$
Repetition rate [Hz]	5 - 250
<b>MC-ICP-MS (Nu Plasma II, Nu Instruments)</b>	
Cool gas [ $\text{L min}^{-1}$ ]	13.0
Auxiliary gas [ $\text{L min}^{-1}$ ]	0.80
Sample Gas Ar [ $\text{L min}^{-1}$ ]	0.90 - 1.02
Mixed gas He [ $\text{L min}^{-1}$ ]	0.38 - 0.44
RF power [W]	1300
Cones	Ni sample / skimmer cone for dry plasma conditions

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