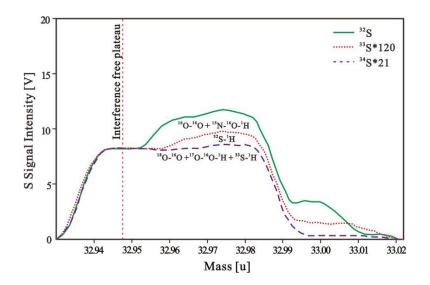
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## **Electronic supplementary information**



**Fig. S1** Peak shapes for <sup>32</sup>S, <sup>33</sup>S and <sup>34</sup>S obtained from P-S-1 with the addition of 6 ml min<sup>-1</sup> N<sub>2</sub> into the central gas flow by using fs-laser. The vertical red dash line represents the interference-free plateau at the low mass side, in which S isotope ratios were determined. Polyatomic interferences of <sup>32</sup>S, <sup>33</sup>S and <sup>34</sup>S were indicated below the corresponding peak shape, respectively. Signal intensities of <sup>33</sup>S and <sup>34</sup>S were multiplied by 120 and 21 to match <sup>32</sup>S signal intensity, respectively.