

## Electronic supplementary information

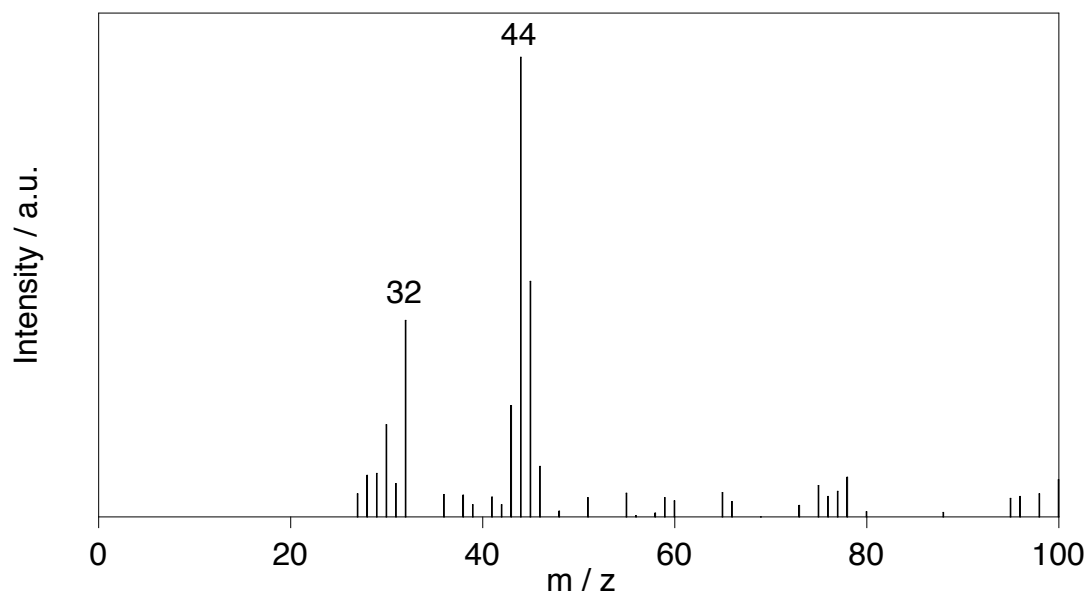


Fig. 1. Mass spectrum of sulfur-modified diamond powders after heating to 300 °C.

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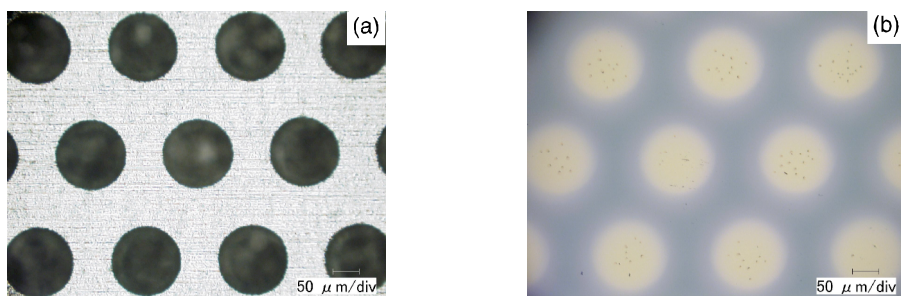


Fig. 2. Optical microscope images of (a) metal mask and (b) Au patterning.