

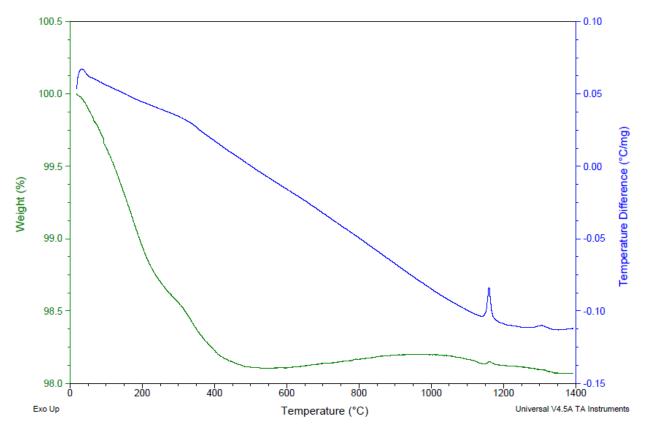
## **Supporting Information**

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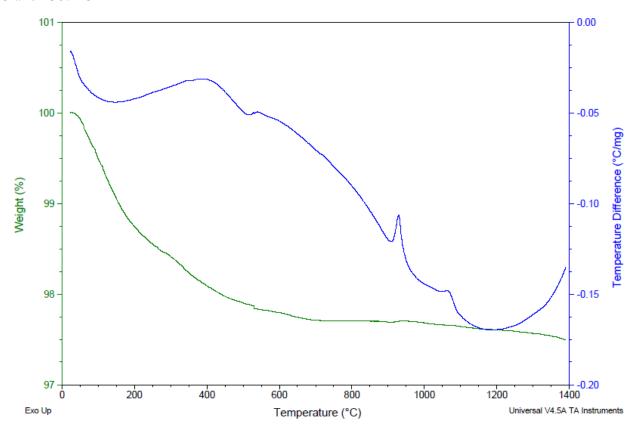
Extrusion of YAG Tubes Shows that Bottom-up Processing is Not Always Optimal

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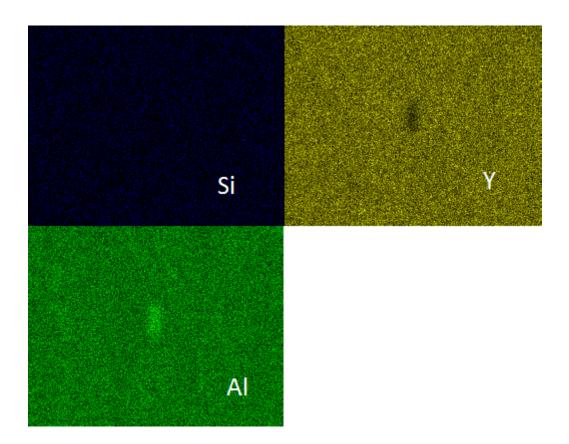
## **Supporting Information**



**Figure S1**. TGA/DTA traces for  $Y_2O_3$ -Al $_2O_3$  to 1400° C. DTA exotherms are present at 1160° C and 1307° C



**Figure S2**. TGA/DTA traces for Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> to 1400° C. DTA exotherms are present at 915° C and 1061° C, corresponding to YAP/YAM and YAG formation, respectively.



**Figure S3**. EDS atomic maps of dark inclusion grain from SEM, showing the secondary phase is aluminum rich and yttrium poor.