

## 7 Bibliography

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## **8 Appendix**

### **8.1 Product formation for the oligomerisation of DMB**

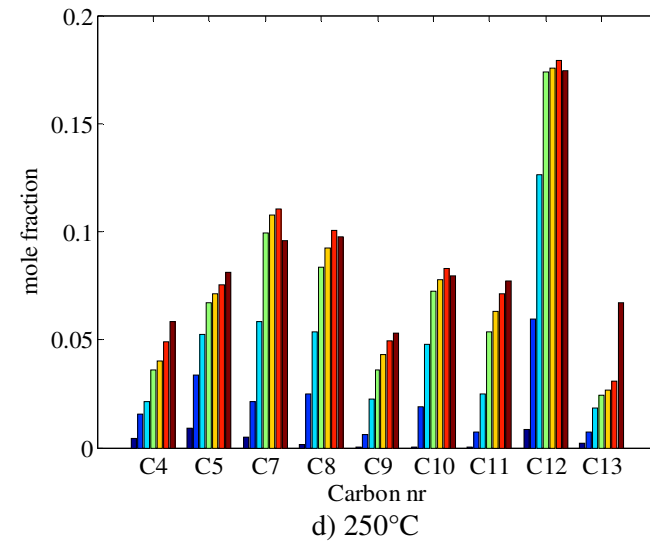
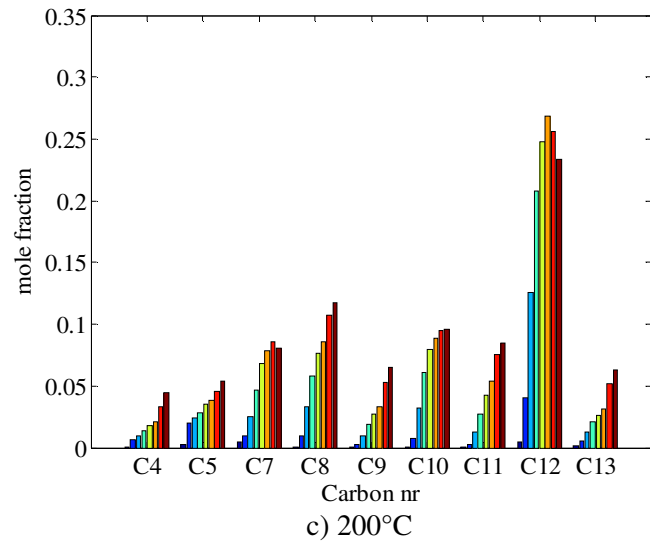
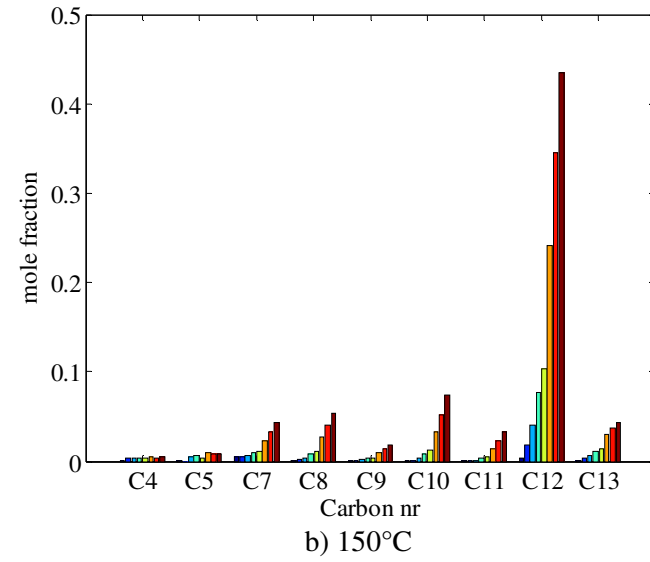
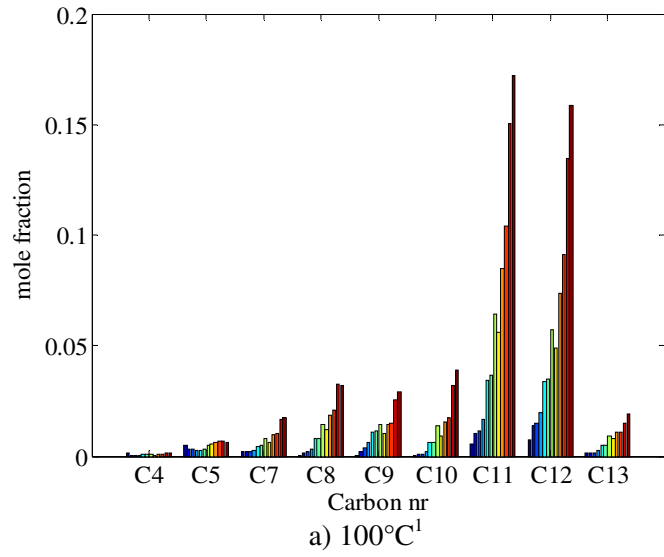


Figure 8-1: Formation of oligomerised and cracked products for DMB oligomerisation.

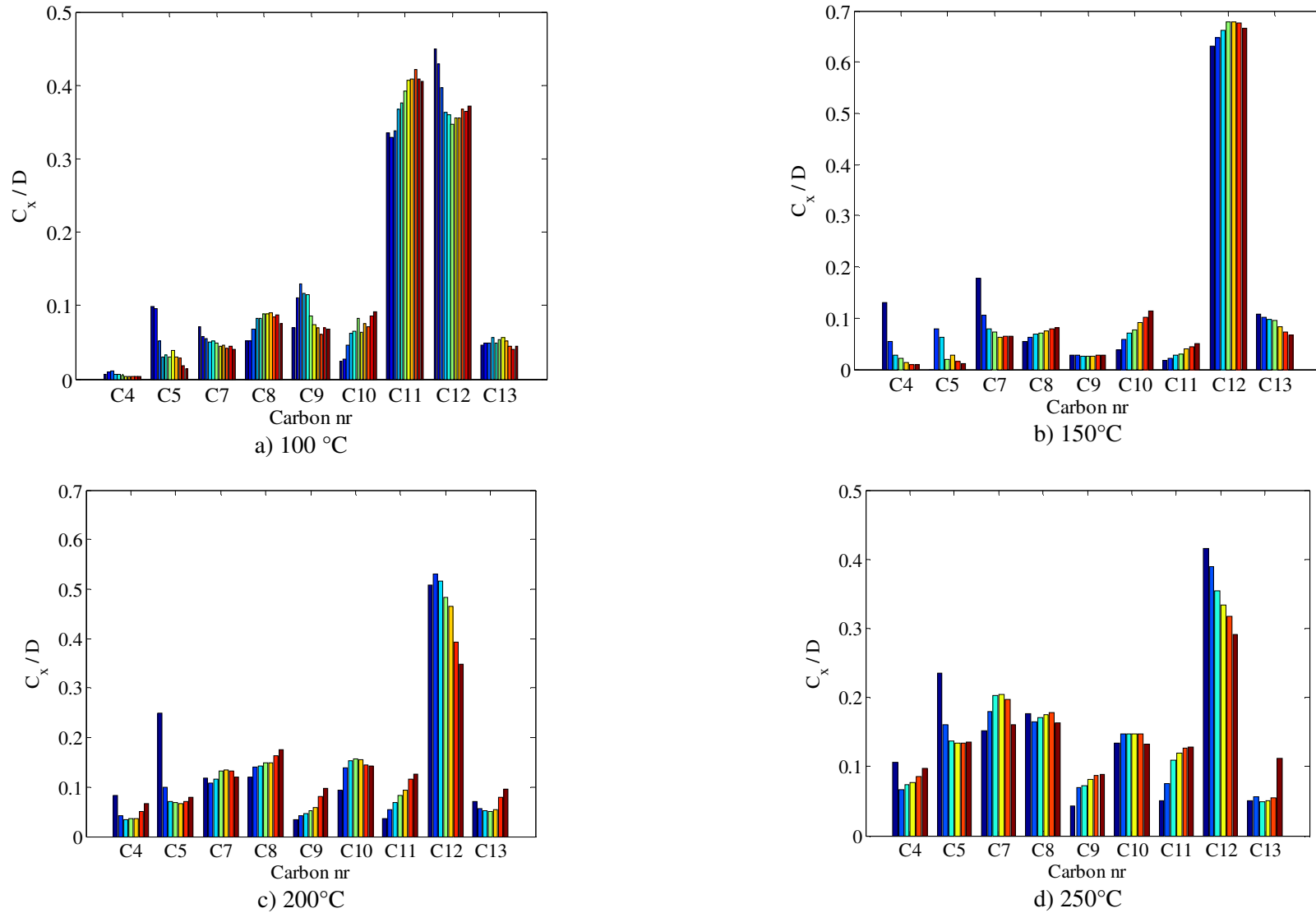
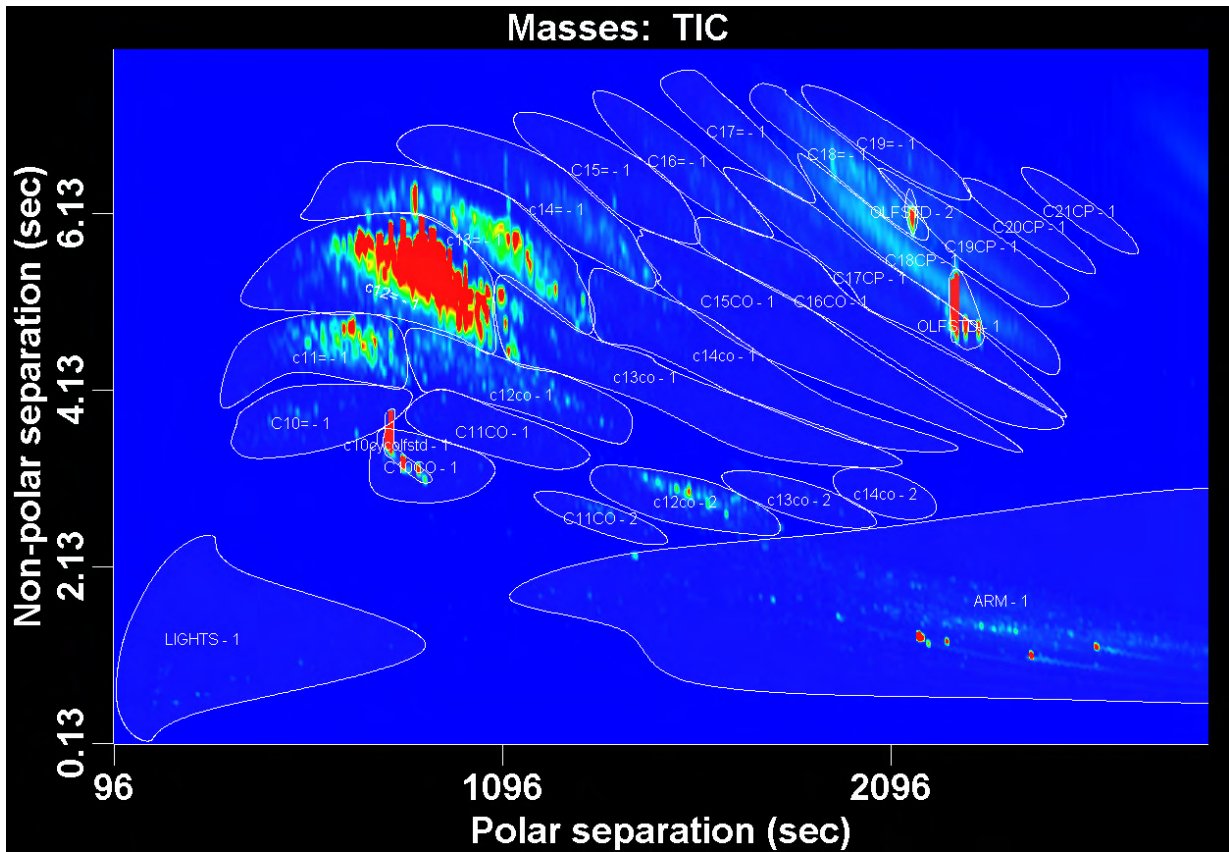


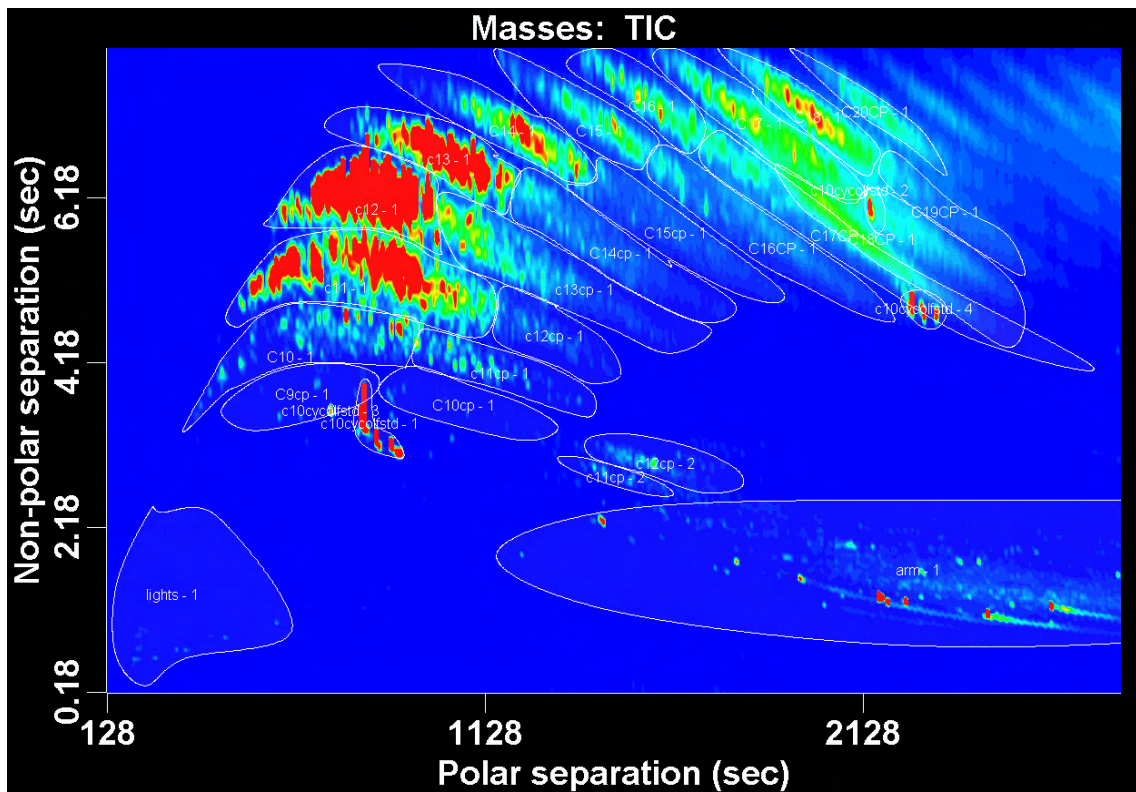
Figure 8-2: Distribution of cracked and oligomerised product for DMB oligomerisation.

<sup>1</sup> The large spike in the formation of  $C_{11}$  olefins is due to branched  $C_{12}$  product overlapping, this was not noted for 1-hexene oligomerisation.

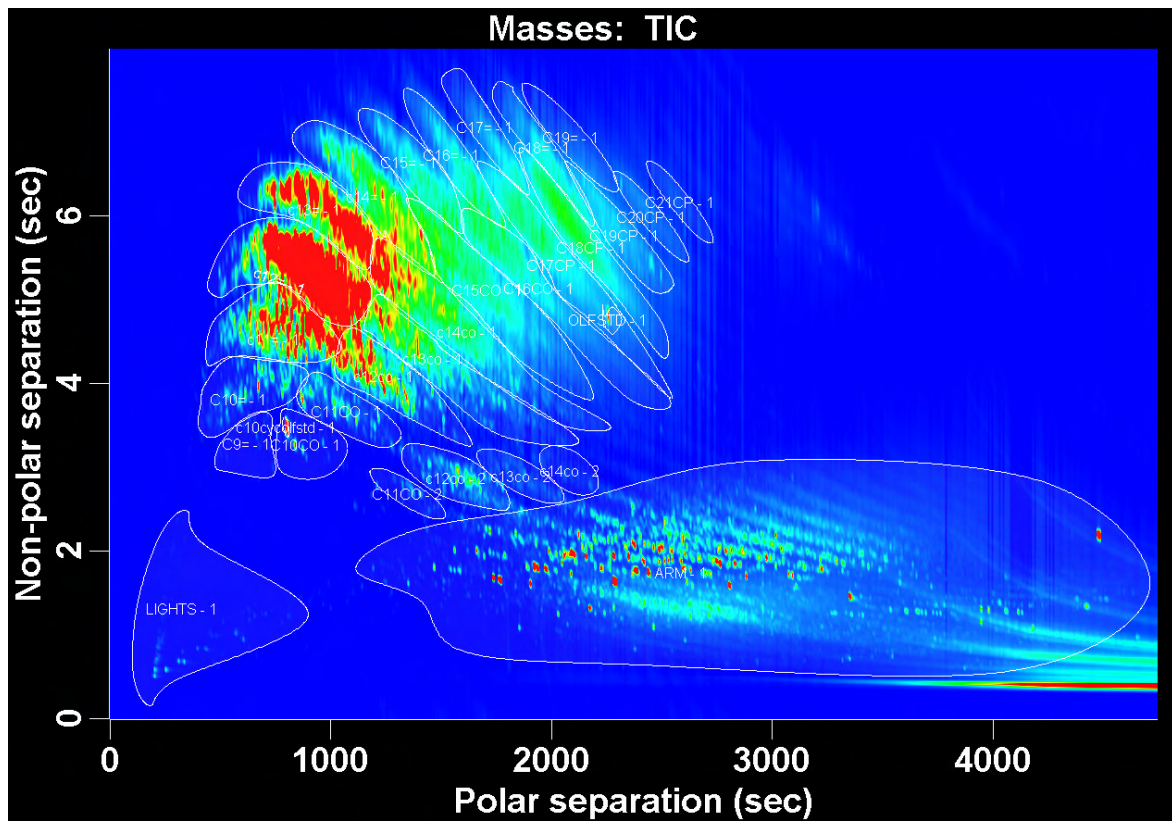
## 8.2 GCxGC results



a) 100 °C



b) 150 °C



c) 250 °C

Figure 8-3: GCxGC results for 1-hexene product at a) 100 °C, b) 150 °C and c) 250 °C.