

Supporting Information

Phosphonium nitrate ionic liquid catalysed electrophilic aromatic oxychlorination

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Representative experimental set up

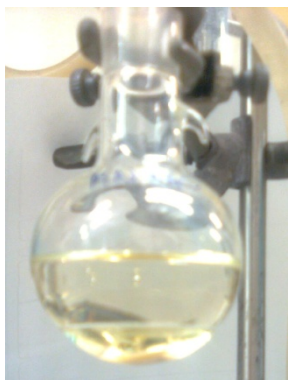


Figure S1 Reaction mixture before reaction .

Upper layer: $P_{8,8,8,1}NO_3$ + Anisole;
Lower layer: aqueous HCl

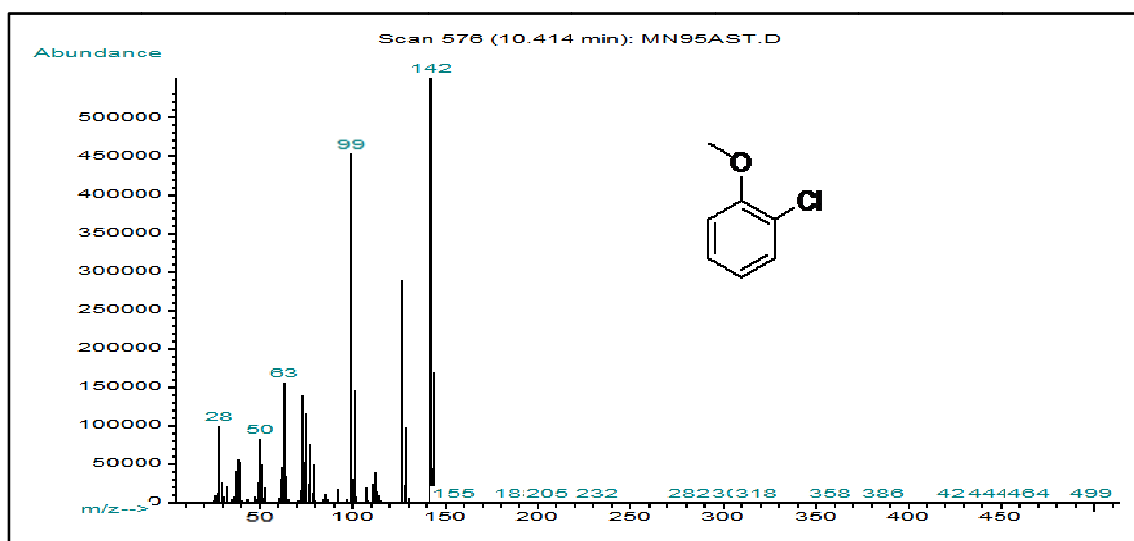
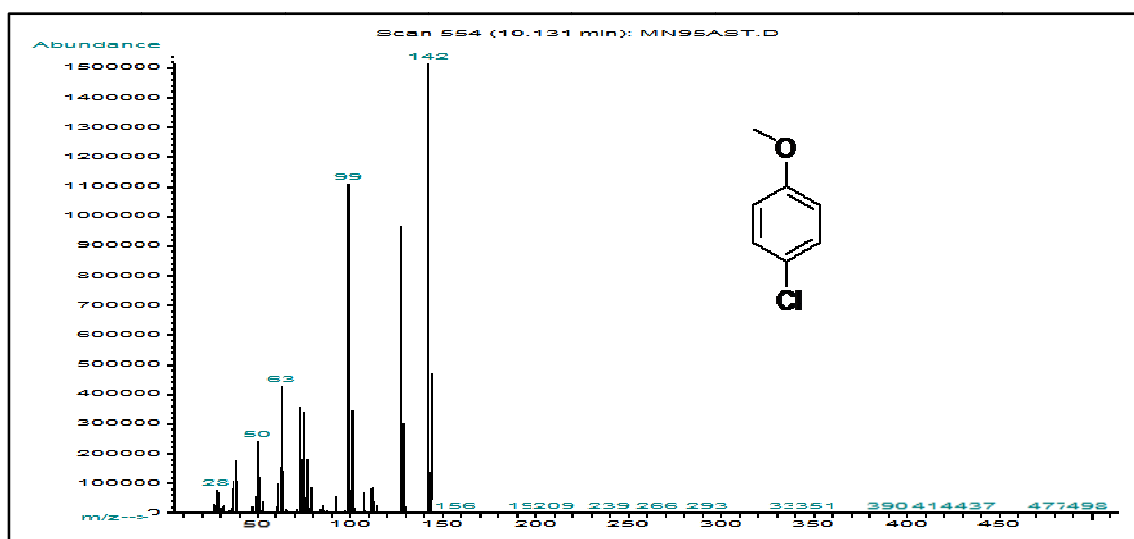
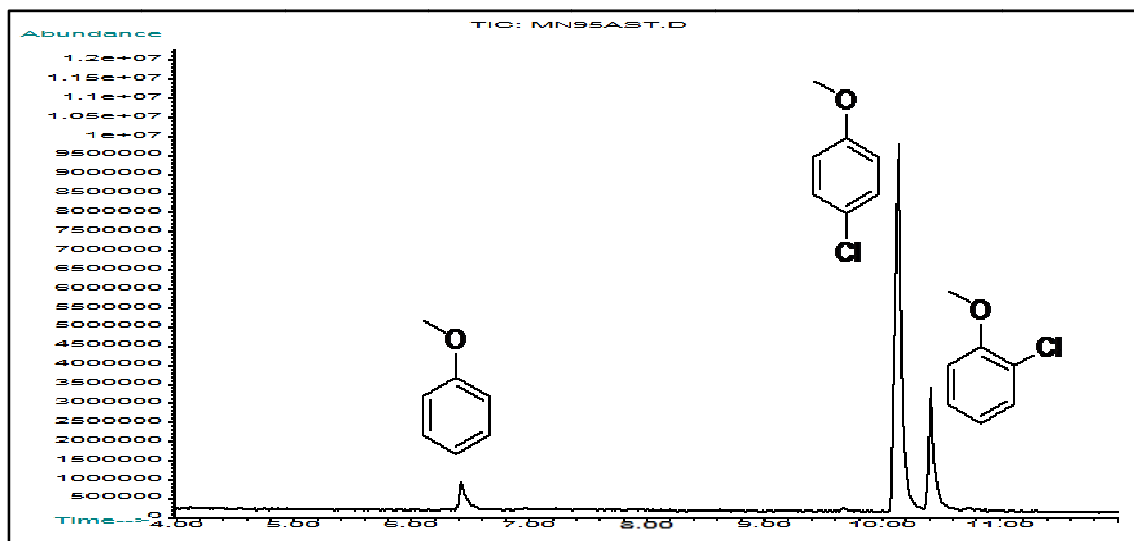


Figure S2 Brown fumes evolving at the beginning of reaction

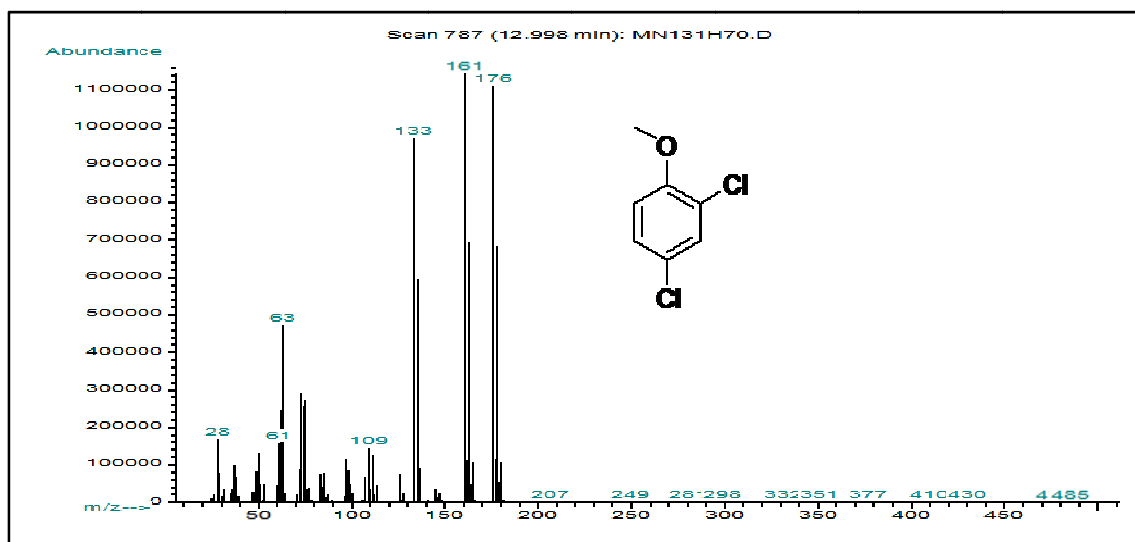
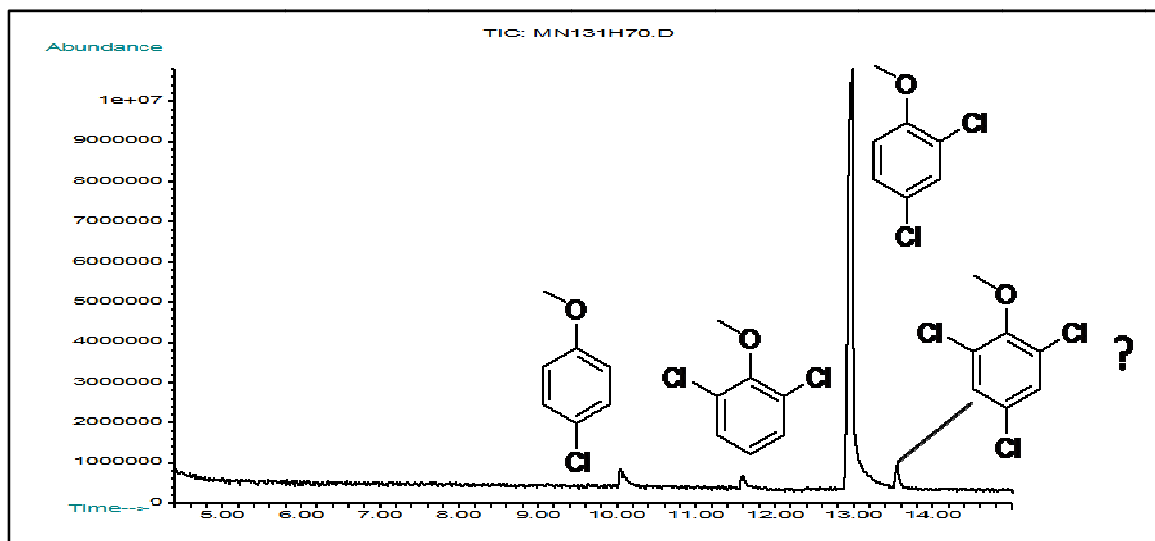


Figure S3 After reaction completion

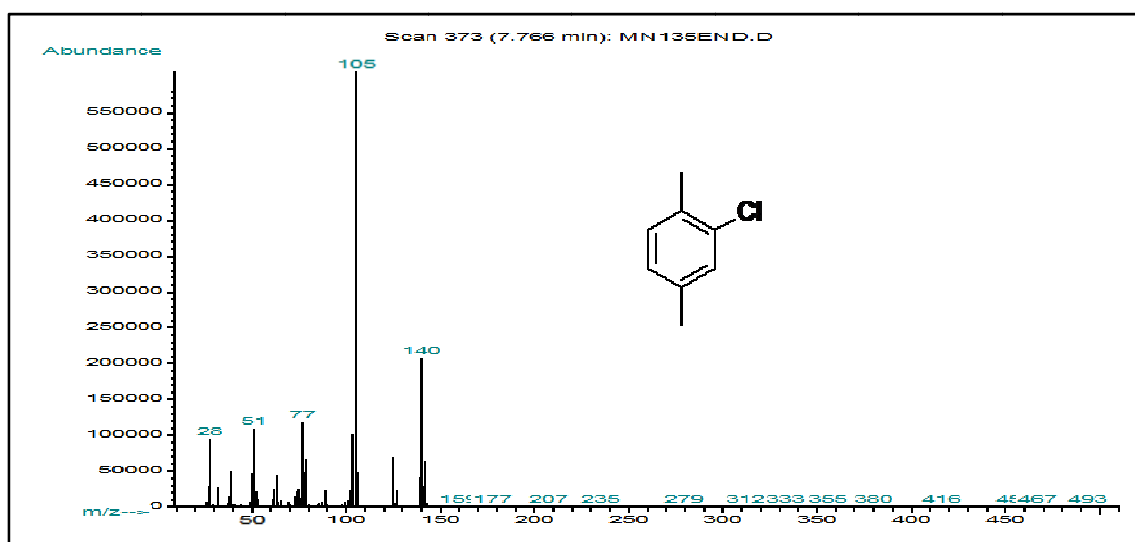
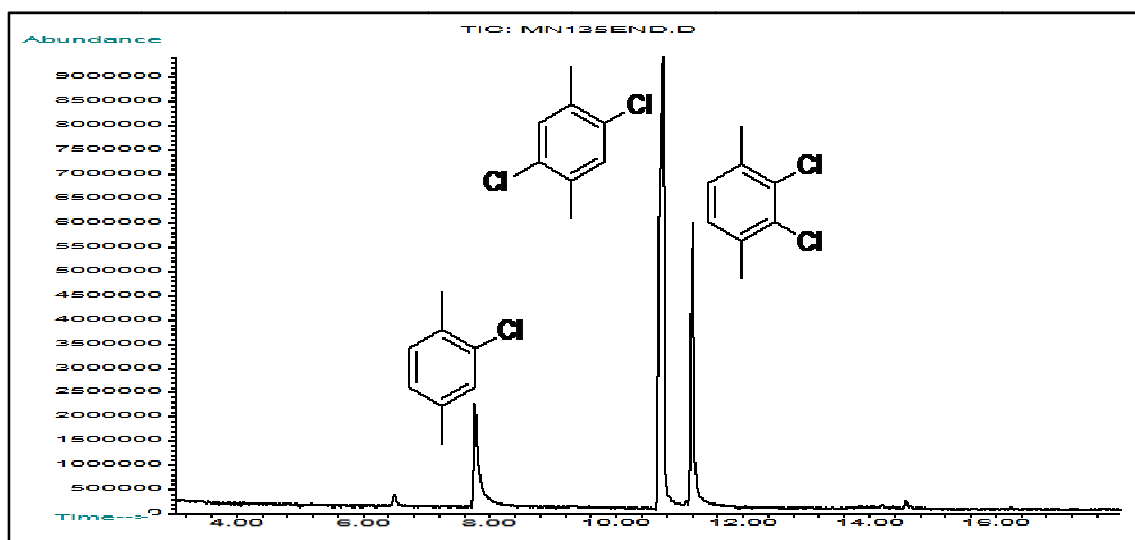
Anisole chlorination GC/MS data

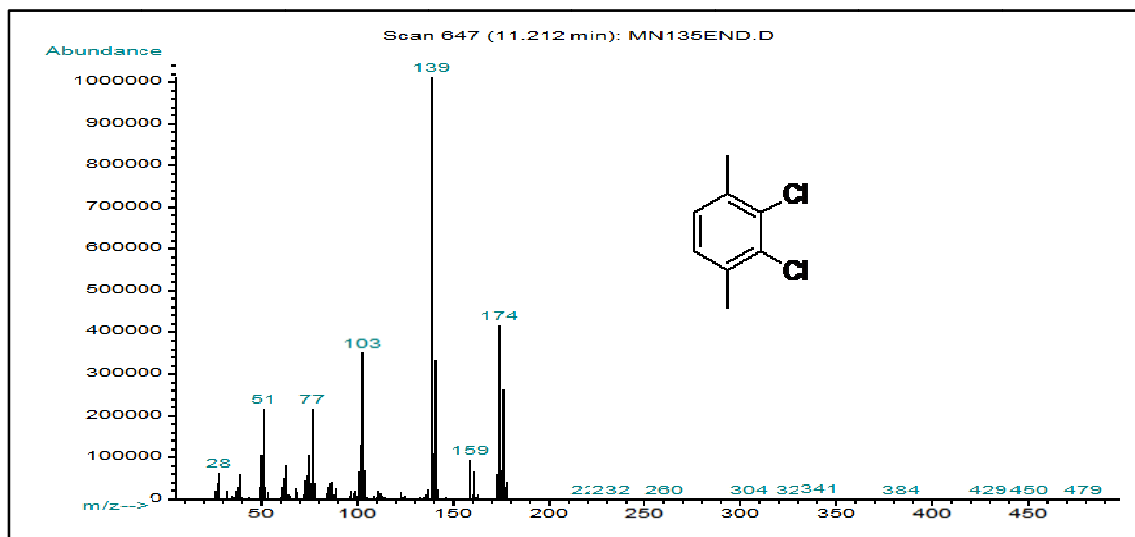
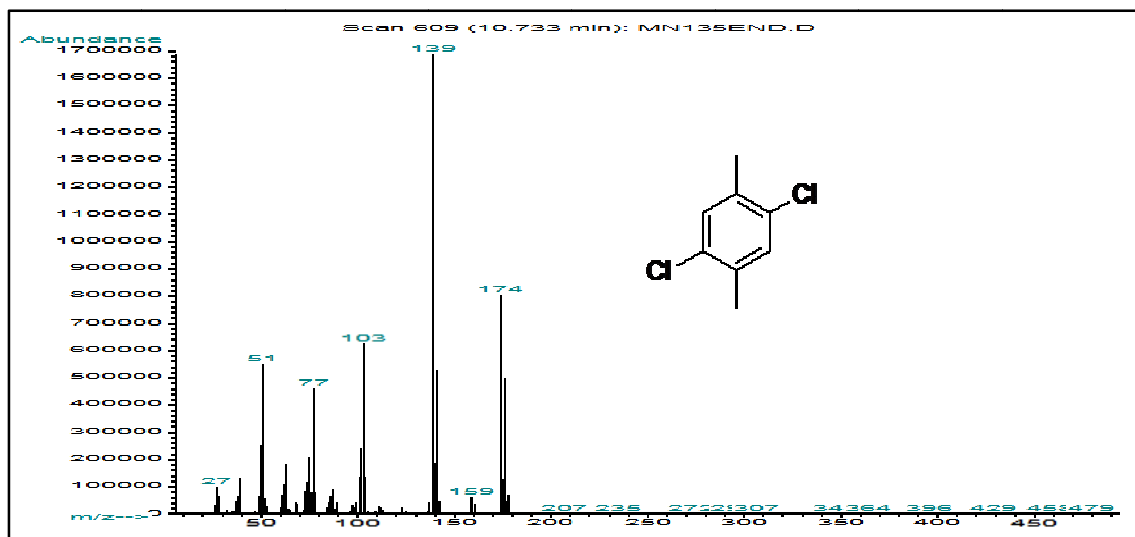


Anisole dichlorination GC/MS data



p-xylene dichlorination GC/MS data





Isolated dichlo-*p*-Xylenes $^1\text{H-NMR}$ spectrum in CDCl_3

