Supplementary Materials

Figure S1: The insertion of AtaPT in MCS-1 of pCDFDuet-1 vector

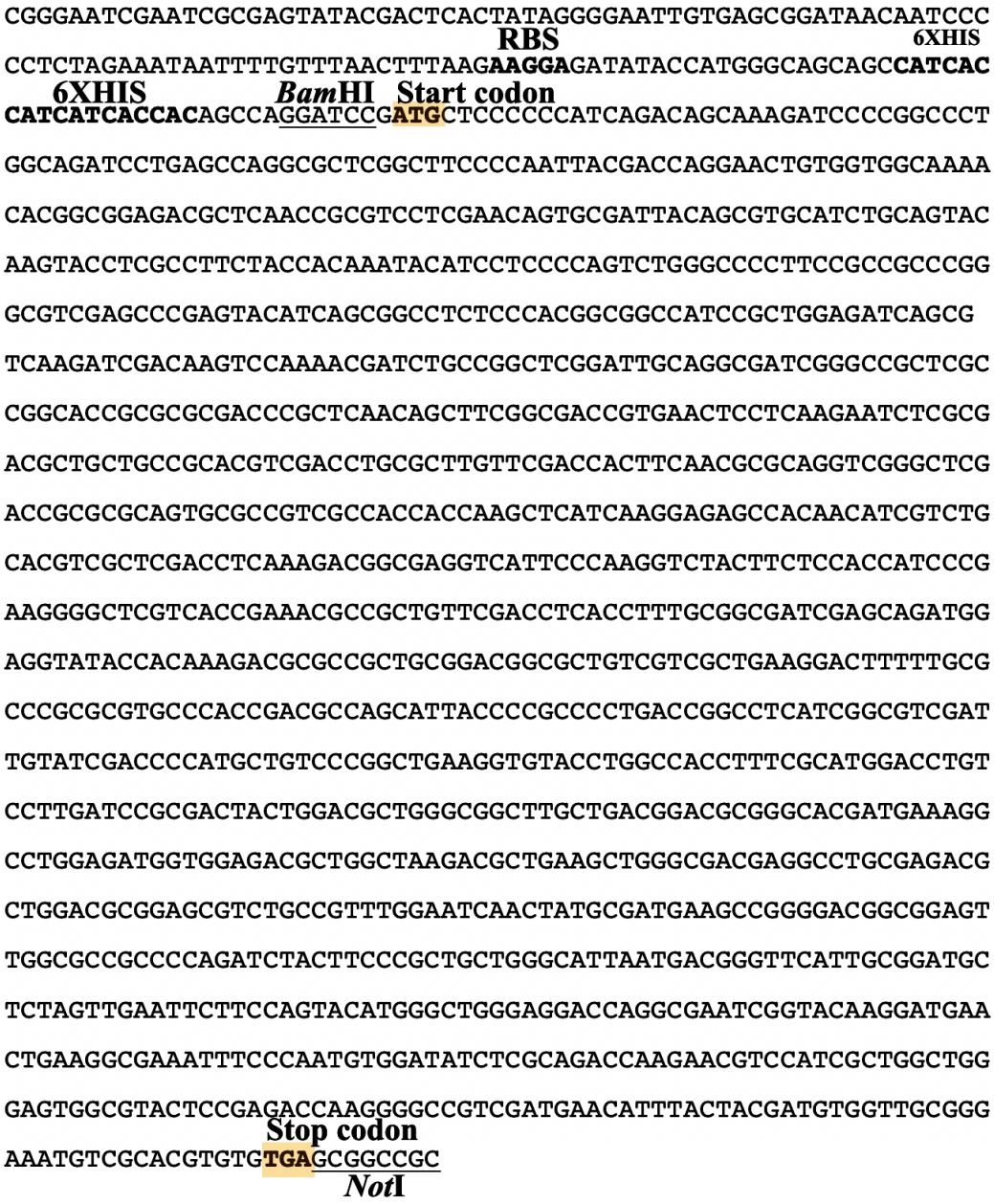

Figure S2: The insertion of CstDXS in MCS-2 of pCDFDuet-1 vector

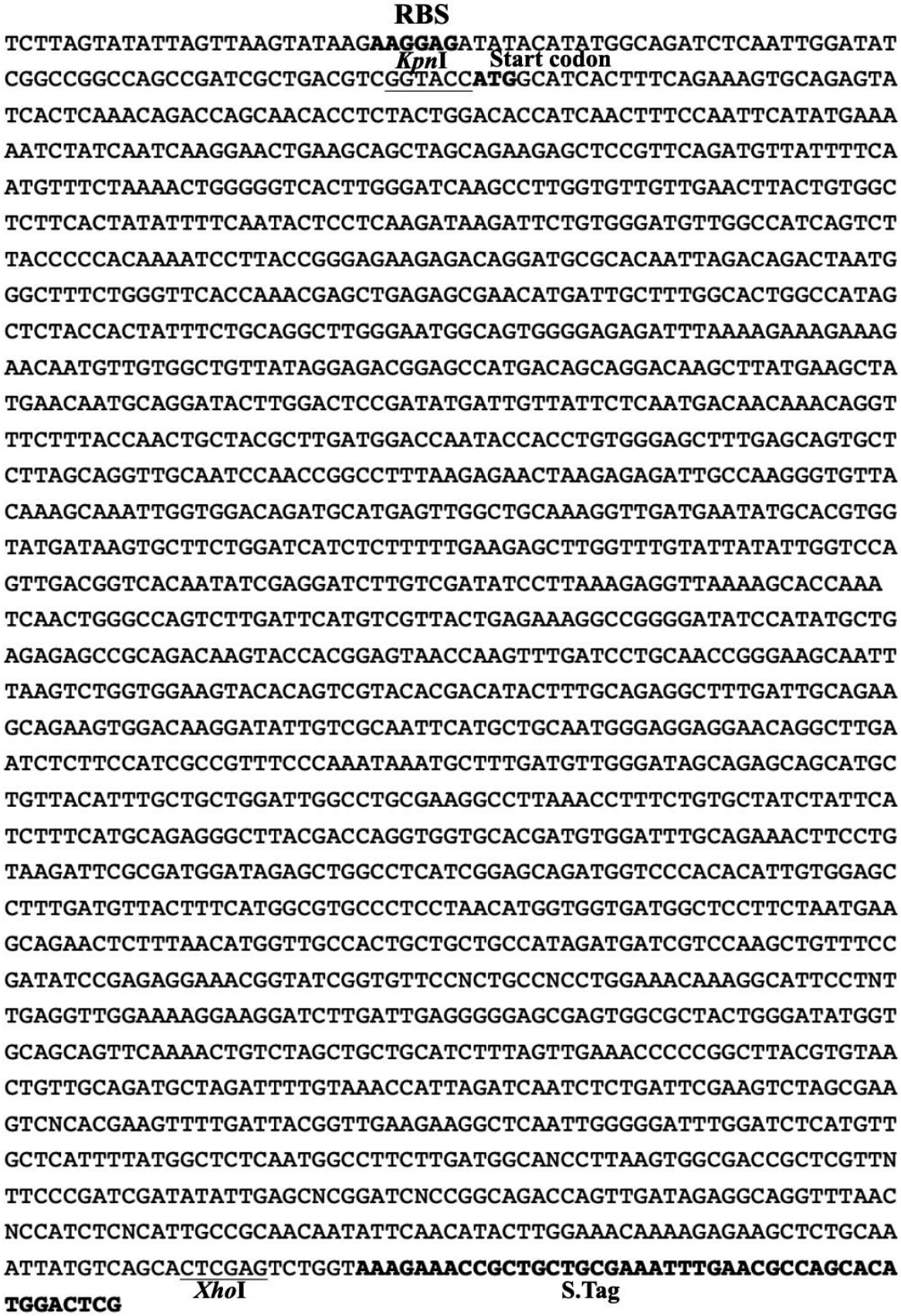

Figure S3: Verified insertion of CstDXS (~1992 bp) in pCDFDuet-AtaPT (~5,020 bp) via *Kpn*I and *Xho*I digestion

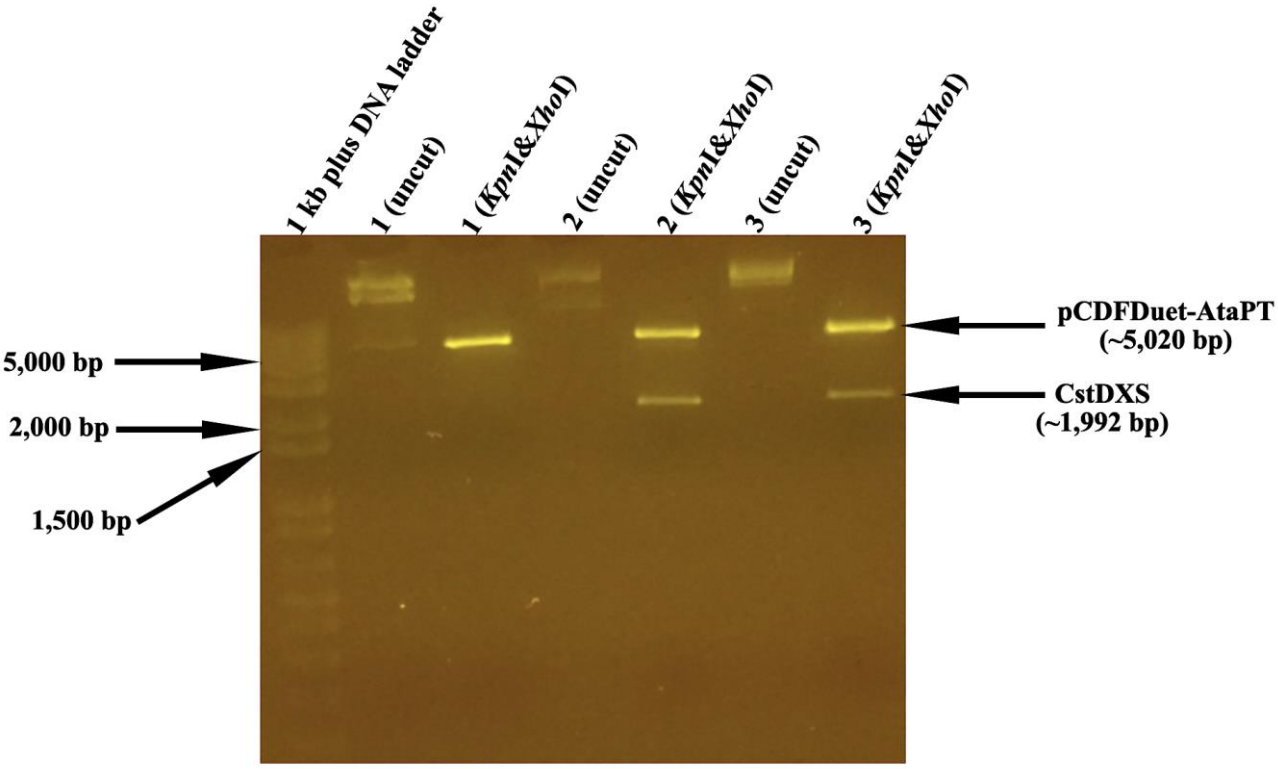

Figure S4: The raw mass data for putative ferulenol (2)

Compound-1 Molecular ion 365.2120 RT 21.3 min	
m/z	**Intensity**
96.9611	128
120.0216	132
161.0249	400
174.0305	436
187.0397	580
200.0827	172
213.0559	656
214.0597	308
227.0714	604
228.02792	1432
229.02792	416
365.2154	960

Figure S5: The proposed reaction mechanisms illustrating the various chemical losses present in the MS/MS spectrum of compound-1

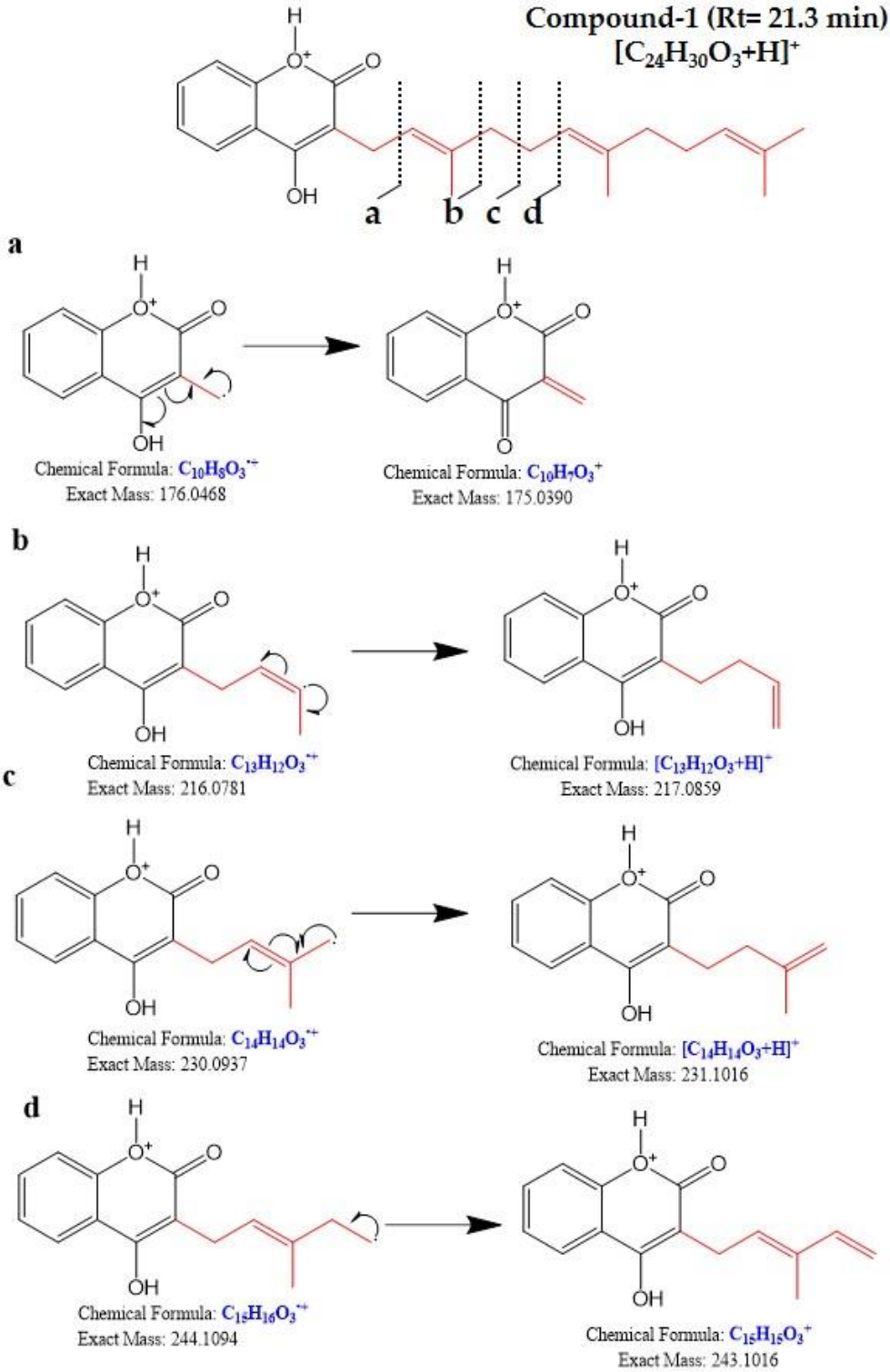

Figure S6: The proposed reaction mechanisms illustrating the various chemical losses present in the MS/MS spectrum of compound-2

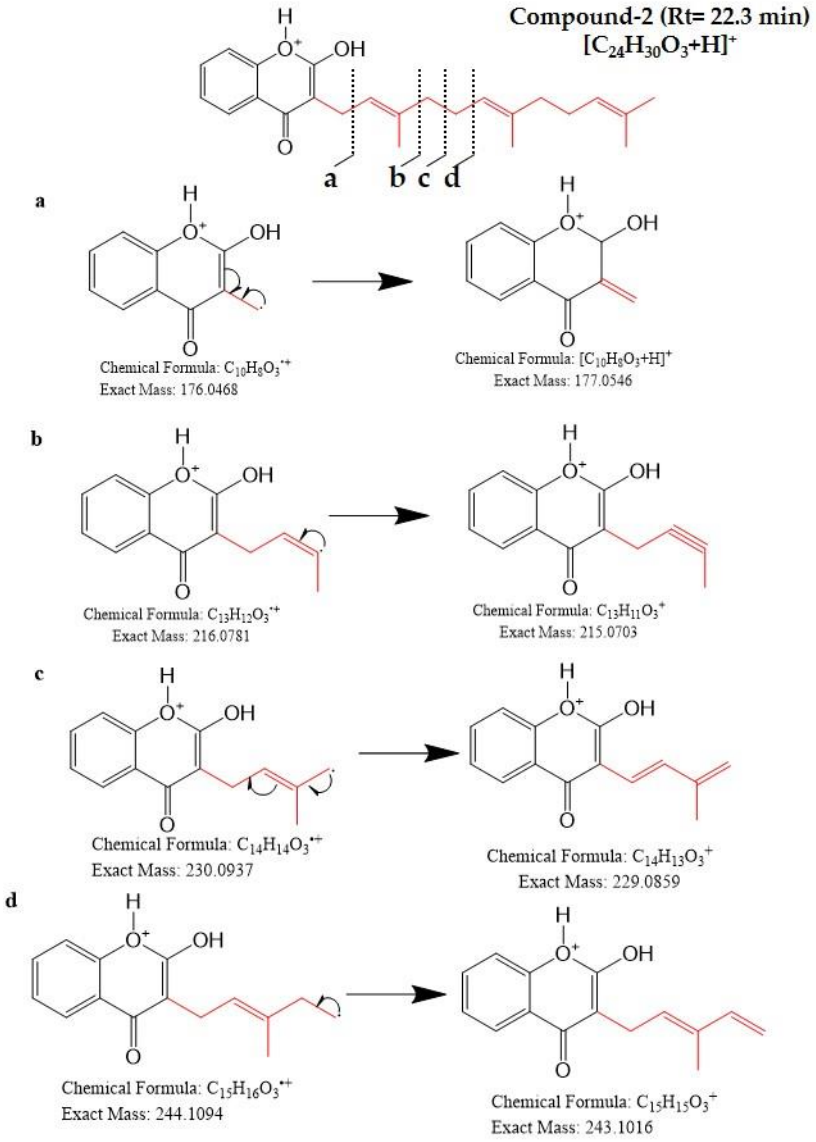

Figure S7: Figure S7: The postulated mechanisms underlying the formation of ion *m/z* 189.05 of compound-1

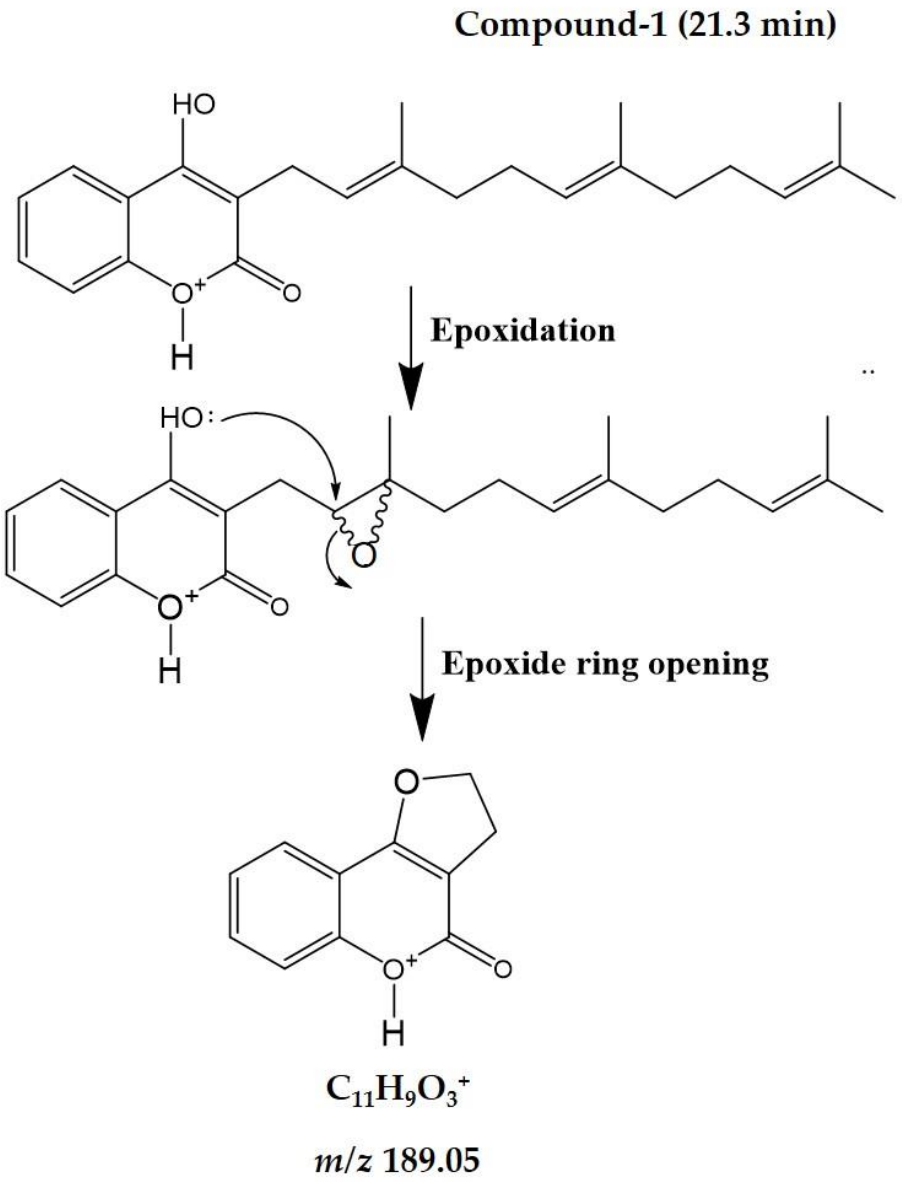

Figure S8 The postulated mechanisms underlying the formation of ion *m/z* 189.05 of compound-2