**Supporting information to**

# CBD, a precursor of THC in e-cigarettes

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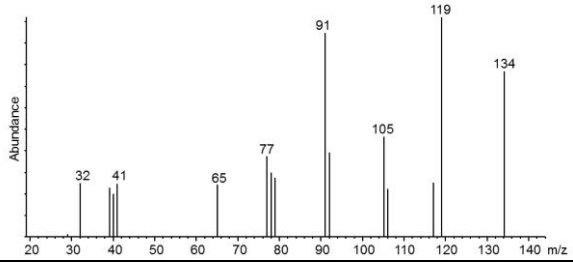
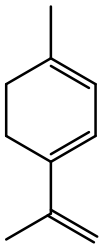
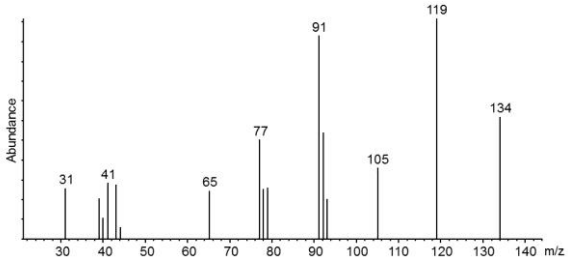
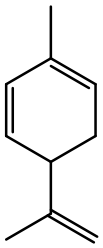
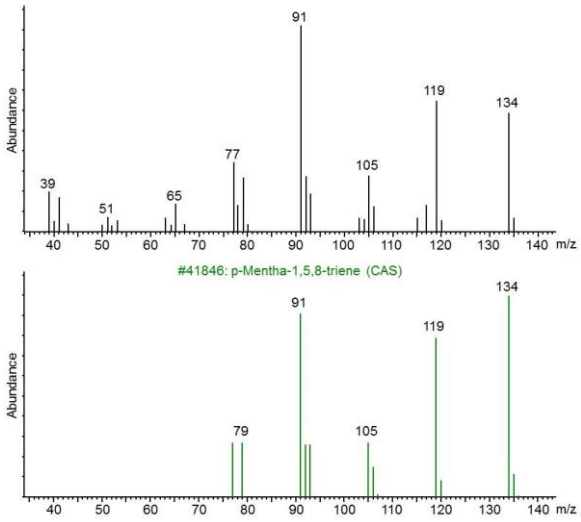
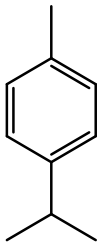
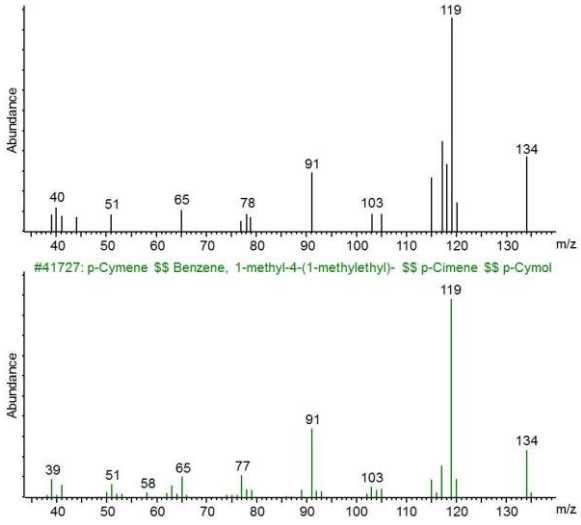
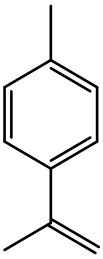
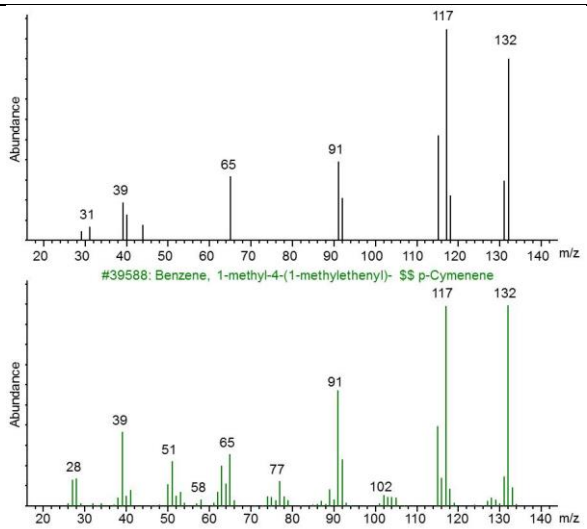
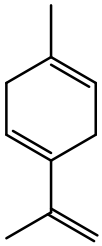
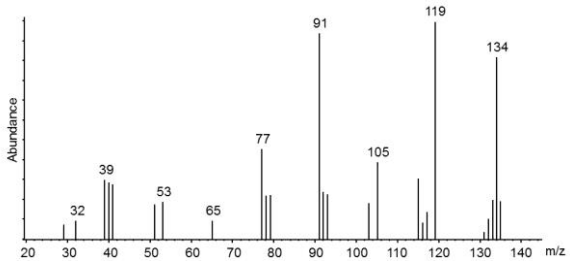
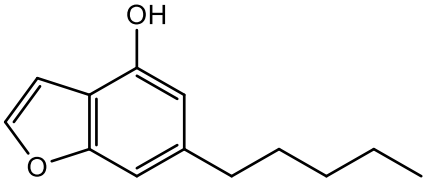
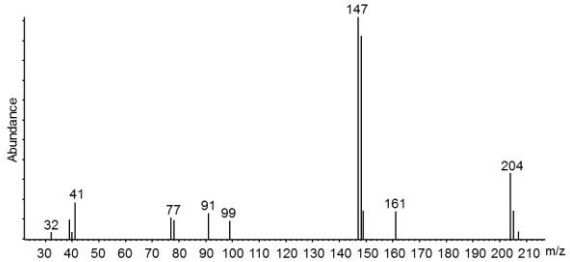
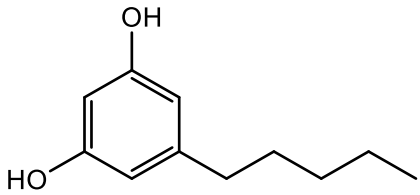
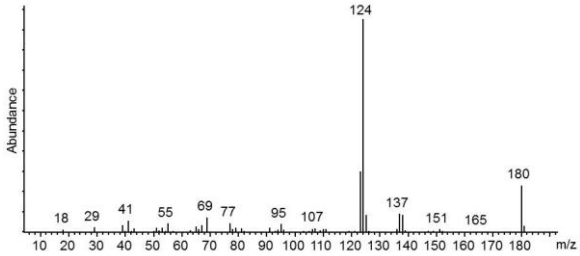
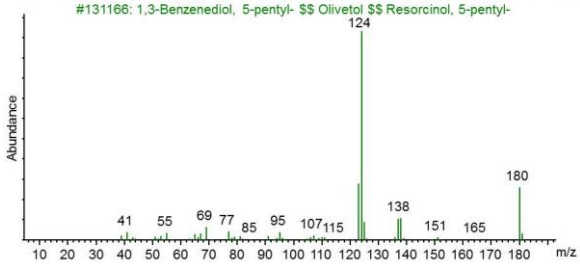
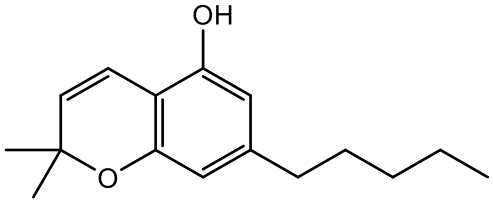
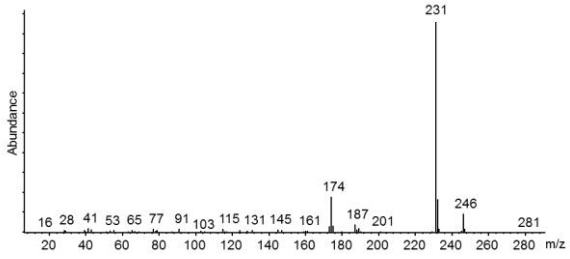
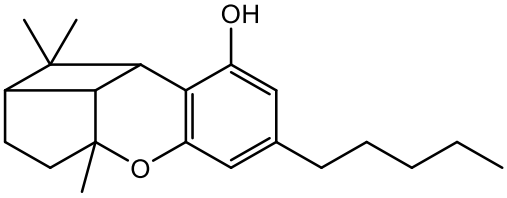
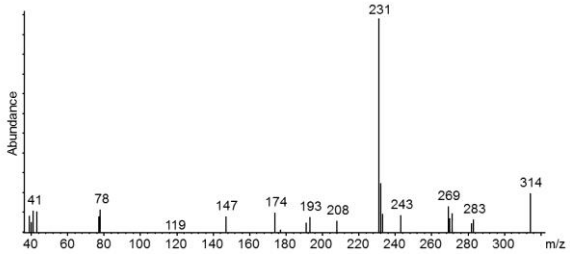
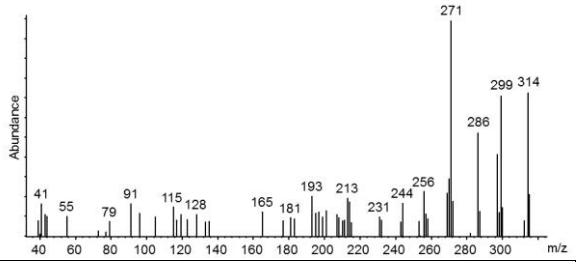
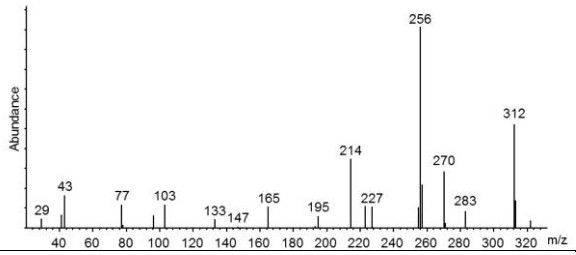
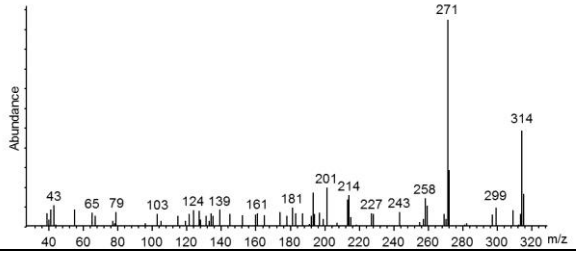
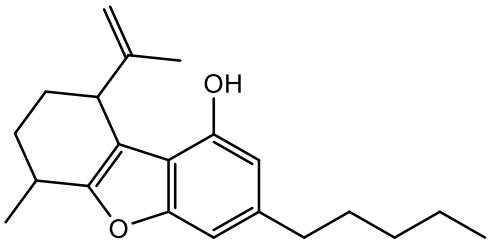
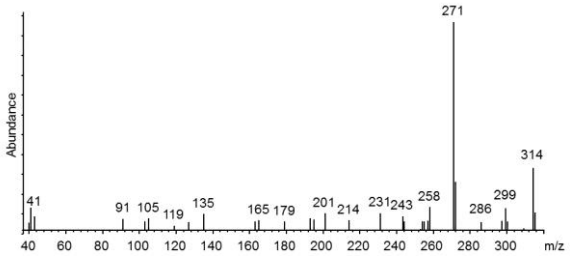
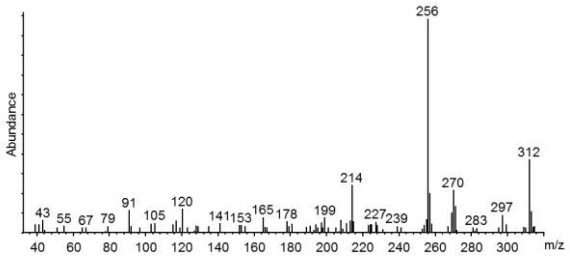
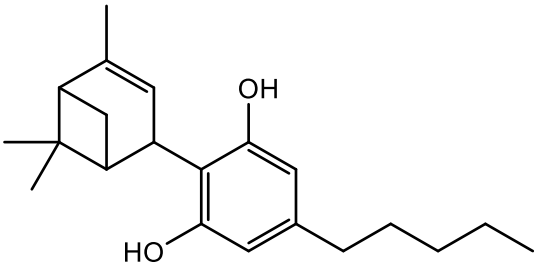
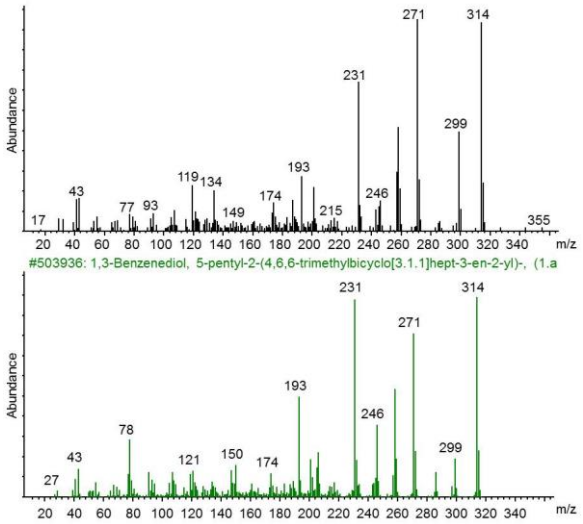
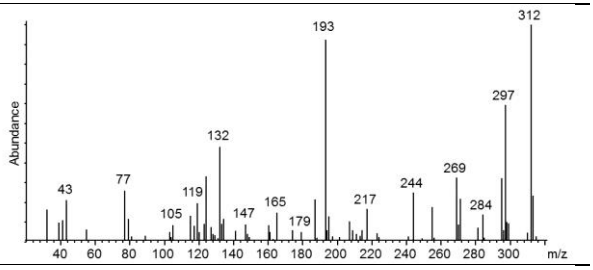
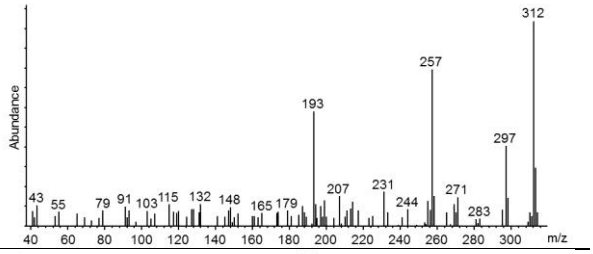
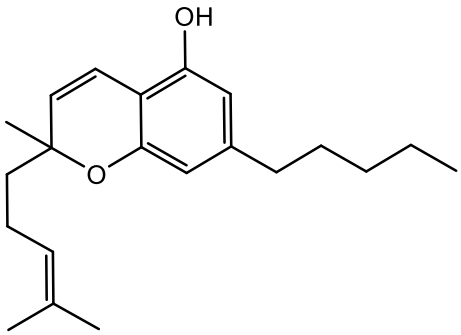
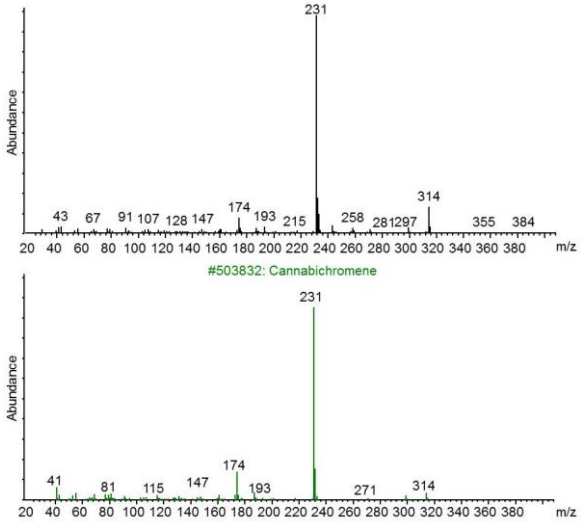
Table S1. EI mass spectra of the detected CBD decomposition products. Library mass spectra for comparison are also indicated in the cases of the identified components.

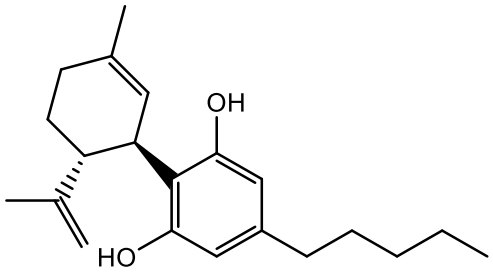
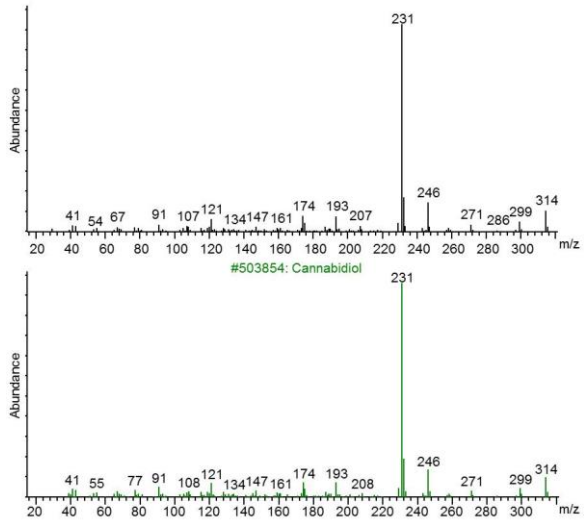
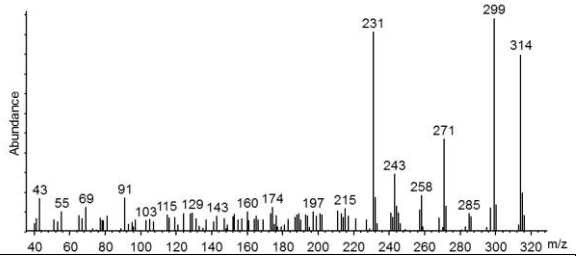
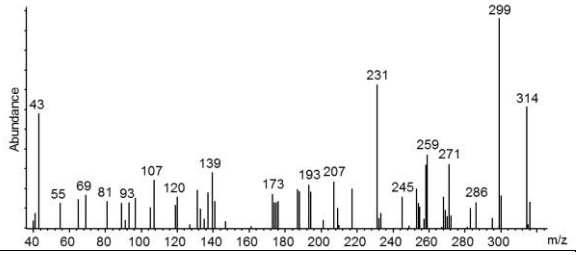
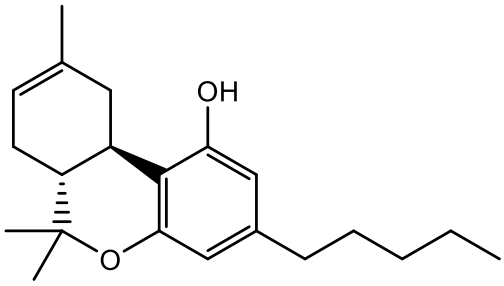
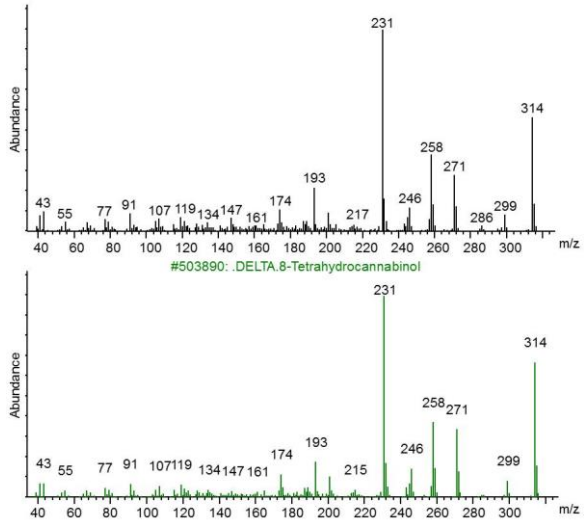
| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 1 | Unidentified monoterpene | 11.62 | 134 |  |
| 2 | *p*-Mentha-1,3,8-triene  | 12.76 | 134 |  |

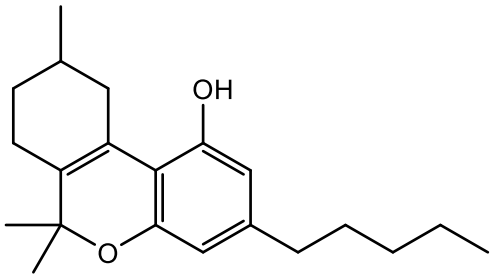
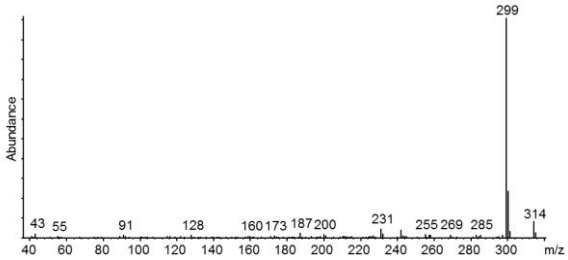
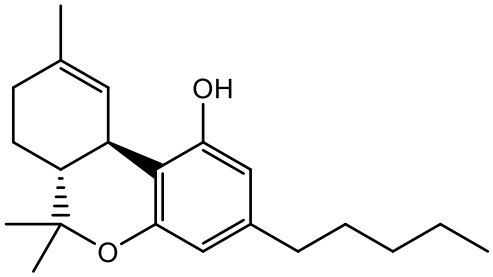
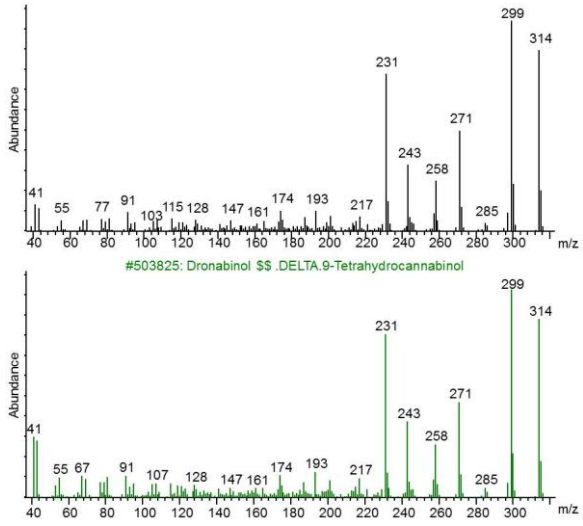
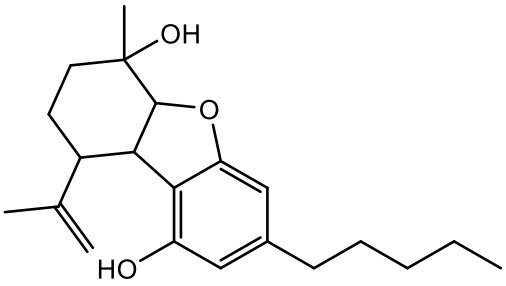
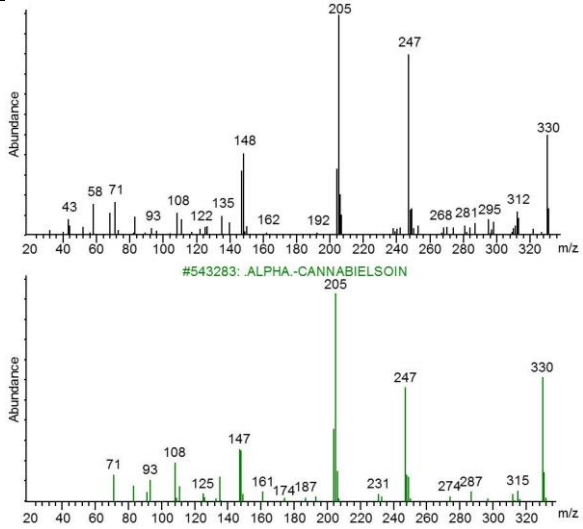
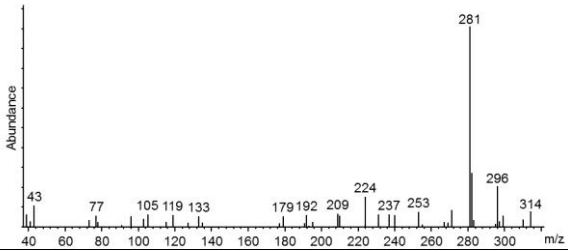
| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 3 | *p*-Mentha-1,5,8-triene  | 13.17 | 134 |   |
| 4 | *p*-Cymene  | 13.32 | 134 |   |
| 5 | *p*-Cymenene  | 14.83 | 132 |   |

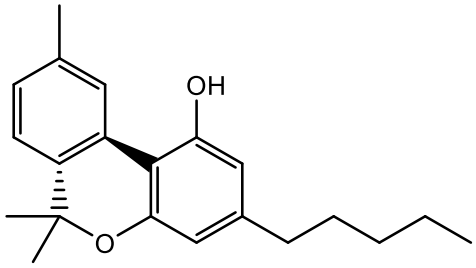
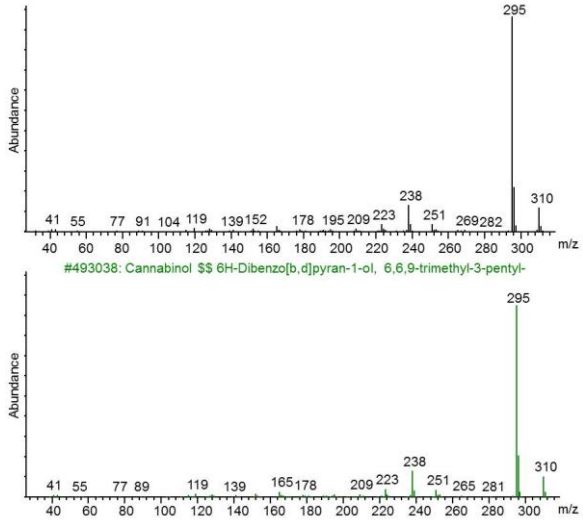
| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 6 | *p*-Mentha-1,4,8-triene  | 14.92 | 134 |  |
| 7 | 6-Pentylbenzofuran-4-ol (identification based on Ref.25 and Ref.29)  | 25.99 | 204 |  |
| 8 | Olivetol  | 26.43 | 180 |   |
| 9 | 2,2-Dimethyl-7-pentyl-2*H*-chromen-5-ol (identification based on Ref.25)  | 27.21 | 246 |  |
| 10 | Cannabicyclol (identification based on Ref.26)  | 29.74 | 314 |  |

| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 11 | Unidentified | 29.83 | 314 |  |
| 12 | Unidentified A | 29.98 | 312 |  |
| 13 | Unidentified | 30.08 | 314 |  |
| 14 | 6-Methyl-3-pentyl-9-(propan-2-ylidene)-5a,6,7,8,9,9a-hexahydrodibenzo[b,d]-furan-1-ol (identification based on Ref. 27)  | 30.28 | 314 |  |
| 15 | Unidentified | 30.45 | 312 |  |

| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 16 | 5-Pentyl-2-(4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-yl)benzene-1,3-diol   | 30.51 | 314 |   |
| 17 | Unidentified | 30.54 | 312 |   |
| 18 | Unidentified B | 30.61 | 312 |   |
| 19 | Cannabichromene   | 30.73 | 314 |   |

| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 20 | CBD  | 30.81 | 314 |  |
| 21 | Unidentified C | 31.10 | 314 |  |
| 22 | Unidentified D | 31.15 | 314 |  |
| 23 | $\Delta^8$-THC  | 31.25 | 314 |  |

| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 24 | $\Delta^{6a,10a}$-THC<br>(identification based on Ref. 28)<br>  | 31.39 | 314 |  |
| 25 | $\Delta^{9}$-THC<br>  | 31.48 | 314 |  |
| 26 | Cannabielsoin<br>  | 31.50 | 330 |  |
| 27 | Unidentified E* | 31.81 | 314 |  |

| # | Compound | $t_R$ (min) | Mw (g/mol) | EI mass spectra |
|---|---|---|---|---|
| 28 | Cannabinol  | 32.41 | 310 |  |