

Table OA17. Selected biomarker ratios for liquid pyrolysates. See Table OA9 for ratio definitions.

| Sample# | C ₁₉ / C ₂₃ tri | C ₂₄ tet / C ₂₃ tri | Ts / Tm | olean / hop | C ₃₂ / C ₃₀ hop | C ₃₅ / C ₃₁ - C ₃₅ hop | normor / norhop | C ₂₃ tri / hop | 24/24+27 norchol | C ₂₇ ster | C ₂₈ ster | C ₂₉ ster | C ₃₀ ster |
|---------|--|--|---------|----------------|--|--|--------------------|------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| 31A | 0.15 | 0.13 | 0.21 | 0.00 | 0.26 | 0.023 | 0.14 | 2.47 | | 0.41 | 0.26 | 0.33 | 0.10 |
| 31B | 0.14 | 0.15 | 0.20 | 0.00 | 0.21 | 0.034 | 0.14 | 0.99 | 0.19 | 0.38 | 0.27 | 0.35 | 0.11 |
| 31C | 0.24 | 0.20 | 0.19 | 0.00 | 0.23 | 0.036 | 0.13 | 0.76 | | 0.41 | 0.30 | 0.29 | |
| 31D | 1.94 | 0.40 | 0.18 | 0.00 | 0.24 | | 0.13 | 1.56 | | | | | |
| 33A | 0.15 | 0.30 | 0.26 | 0.04 | 0.33 | 0.097 | 0.22 | 0.27 | 0.55 | 0.33 | 0.39 | 0.28 | 0.11 |
| 34A | 0.12 | 0.32 | 0.28 | 0.00 | 0.50 | 0.056 | 0.06 | 0.23 | | 0.36 | 0.29 | 0.35 | |
| 34B | 0.30 | 0.54 | 0.22 | 0.00 | 0.53 | 0.065 | 0.07 | 0.15 | | 0.37 | 0.29 | 0.35 | |
| 34C | 0.77 | 0.94 | 0.18 | 0.00 | 0.53 | 0.075 | 0.10 | 0.16 | | 0.37 | 0.32 | 0.31 | |
| 34D | 1.72 | 0.62 | 0.30 | 0.05 | 0.45 | 0.061 | 0.15 | 0.45 | | | | | |
| 38B | 0.74 | 0.60 | 0.01 | 0.02 | 0.24 | 0.052 | 0.21 | 0.27 | | 0.38 | 0.32 | 0.30 | |
| 42A | 0.64 | 0.40 | 0.01 | 0.00 | 0.27 | 0.032 | 0.39 | 0.40 | | 0.45 | 0.24 | 0.31 | 0.09 |
| 42B | 0.73 | 0.39 | 0.07 | 0.00 | 0.26 | 0.030 | 0.32 | 0.38 | | 0.46 | 0.24 | 0.30 | |
| 42C | 1.40 | 0.52 | 0.07 | 0.00 | 0.29 | 0.049 | 0.23 | 0.52 | | | | | |
| 42D | 4.02 | 0.46 | | | | | | | | | | | |

Red numbers signify poor data quality.

**C₂₇ dia /
ster**

0.22

0.13

0.14

1.36

1.60

1.41

1.50

1.59

0.80

0.78