

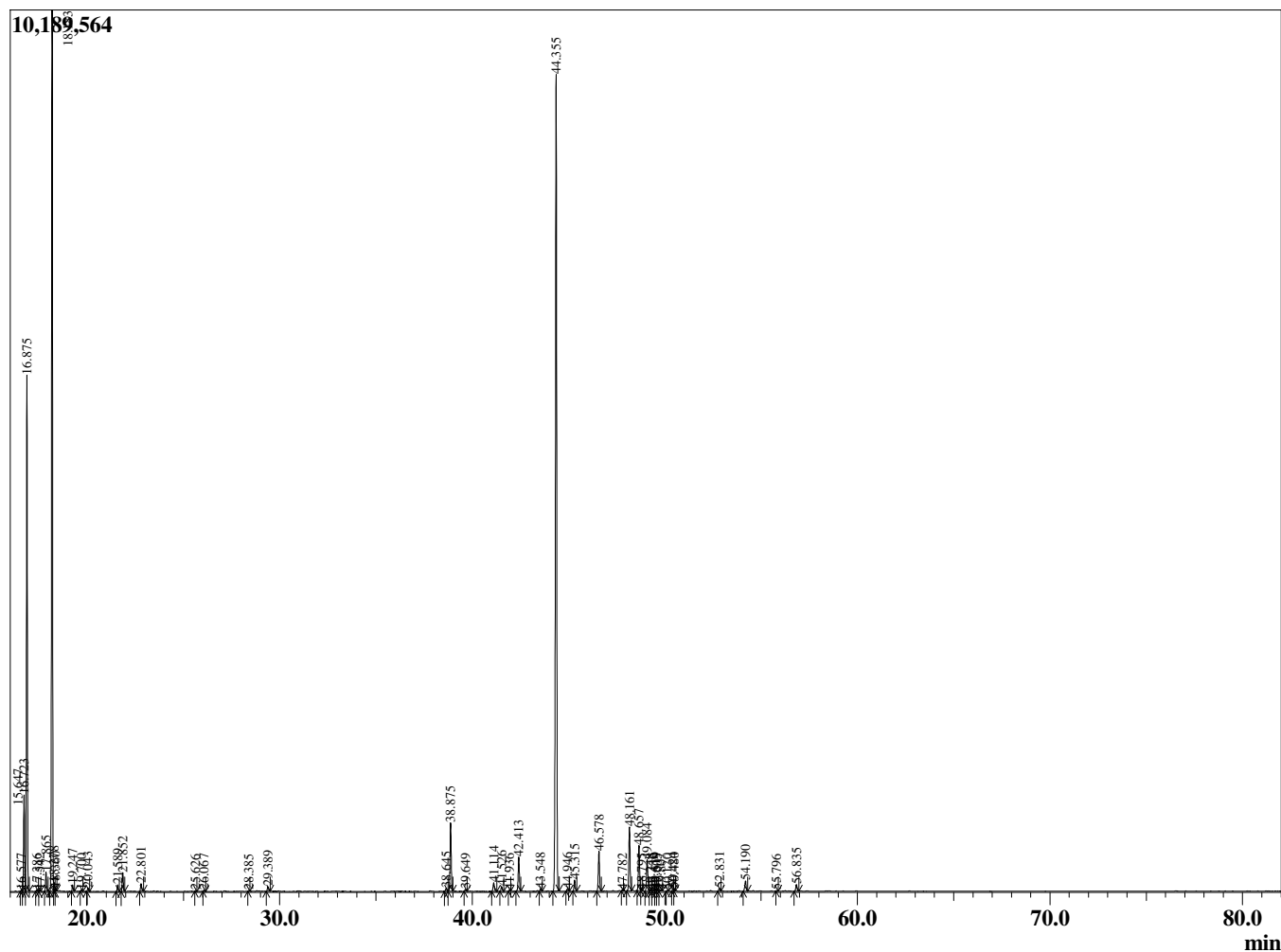
Sample Information

Sample Type : Essential Oil
 Sample Name : Piper nigrum
 Injection Volume : 0.10

Pepper Black
 Lot# MAW28-WC
 Country: Madagascar



Chromatogram Piper nigrum



Peak Report TIC

| R.Time | Name | Area% |
|--------|-------------------------------|-------|
| 11.972 | Tricyclene | 0.02 |
| 12.123 | alpha-Thujene | 0.07 |
| 12.545 | alpha-Pinene | 18.94 |
| 13.348 | alpha-Fenchene | 0.01 |
| 13.444 | Camphene | 0.37 |
| 14.718 | Sabinene | 2.62 |
| 15.031 | beta-Pinene | 13.27 |
| 15.647 | Myrcene | 1.64 |
| 16.577 | Pseudolimonene | 0.02 |
| 16.723 | alpha-Phellandrene | 1.94 |
| 16.875 | 3-Carene | 10.13 |
| 17.386 | alpha-Terpinene | 0.04 |
| 17.542 | ortho-Cymene | 0.03 |
| 17.865 | para-Cymene | 0.39 |
| 18.183 | Limonene | 18.26 |
| 18.278 | beta-Phellandrene | 0.15 |
| 18.360 | 1,8-Cineole | 0.06 |
| 19.247 | (E)-beta-Ocimene | 0.13 |
| 19.700 | Unidentified | 0.03 |
| 20.043 | gamma-Terpinene | 0.07 |
| 21.589 | Isoterpinolene | 0.14 |
| 21.852 | Terpinolene | 0.41 |
| 22.801 | Linalool | 0.17 |
| 25.626 | trans-Pinocarveol | 0.01 |
| 26.067 | Camphor | 0.02 |
| 28.385 | Terpinen-4-ol | 0.02 |
| 29.389 | alpha-Terpineol | 0.12 |
| 38.645 | Bicycloelemene | 0.08 |
| 38.875 | delta-Elemene | 1.75 |
| 39.649 | alpha-Cubebene | 0.05 |
| 41.114 | Isoledene | 0.24 |
| 41.526 | alpha-Copaene | 0.12 |
| 41.936 | cis-beta-Elemene | 0.03 |
| 42.413 | trans-beta-Elemene | 0.89 |
| 43.548 | alpha-Gurjunene | 0.06 |
| 44.355 | trans-beta-Caryophyllene | 21.71 |
| 44.946 | gamma-Elemene | 0.06 |
| 45.315 | alpha-Guaiene | 0.28 |
| 46.578 | alpha-Humulene | 1.04 |
| 47.782 | trans-Cadina-1(6),4-diene | 0.02 |
| 48.161 | Germacrene D | 1.64 |
| 48.657 | beta-Selinene | 1.19 |
| 48.795 | Unidentified | 0.03 |
| 49.084 | alpha-Selinene | 0.85 |
| 49.248 | Unidentified | 0.03 |
| 49.430 | alpha-Bulnesene | 0.03 |
| 49.519 | delta-Amorphene | 0.05 |
| 49.605 | (E,E)-alpha-Farnesene | 0.03 |
| 49.807 | beta-Bisabolene | 0.04 |
| 50.120 | gamma-Cadinene | 0.01 |
| 50.424 | delta-Cadinene | 0.07 |
| 50.480 | alpha-Panasinsene | 0.03 |
| 52.831 | Germacrene B | 0.08 |
| 54.190 | Caryophyllene oxide | 0.31 |
| 55.796 | Humulene epoxide | 0.01 |
| 56.835 | Guaia-6,10(14),diene-4beta-ol | 0.18 |

R.Time Name

Area%
100.00