

Sample Type : Essential Oil  
 Sample Name : Helichrysum  
 Injection : 0.10

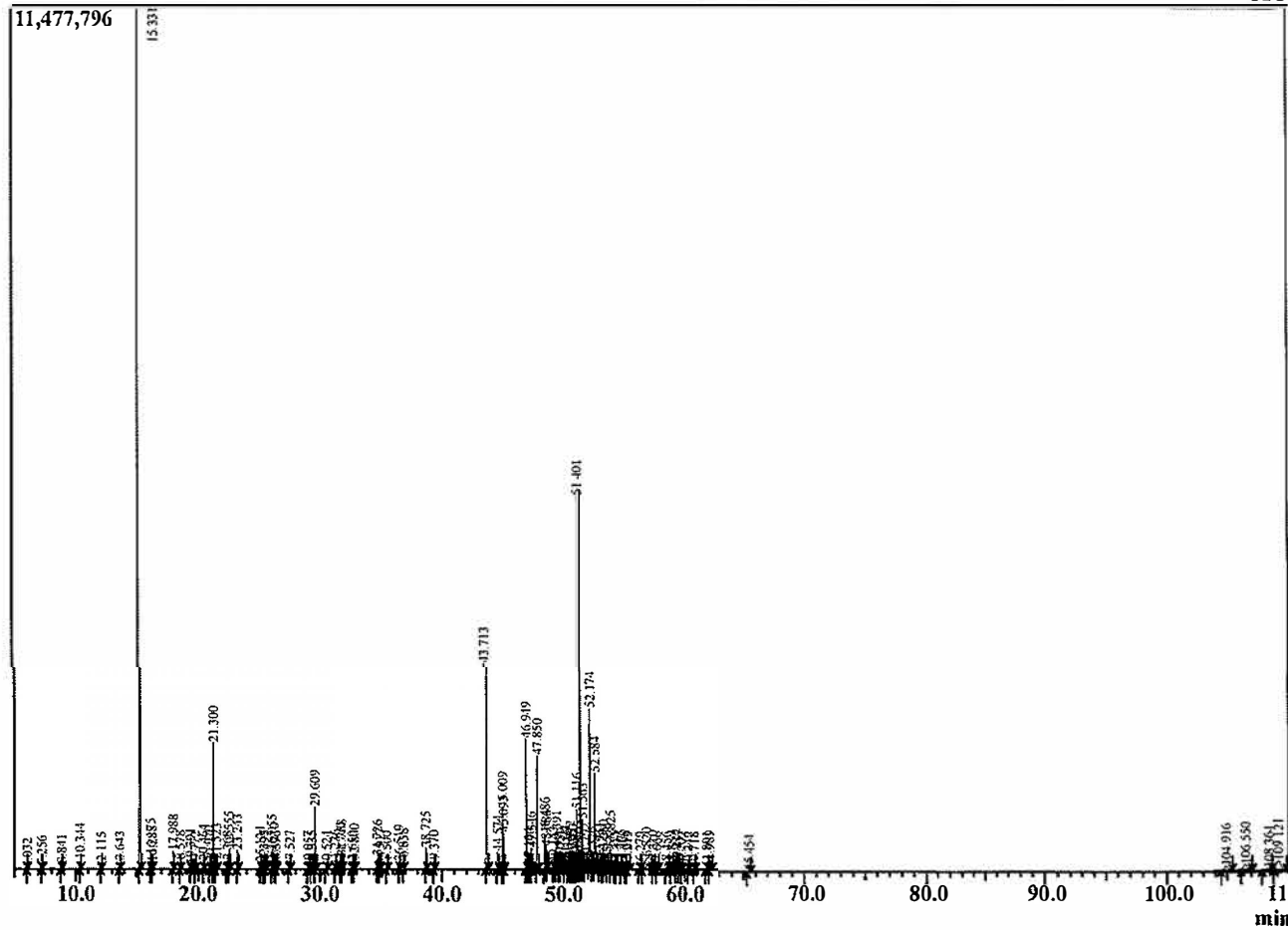
Sample Information

Appalachian Valley Natural Products  
 260 Maple St  
 Friendsville MD 21531

Peak Report TIC

| R.Time | Name                                      | Area% |
|--------|---|-------|
| 6.032  | 3-Pentanone                               | 0.01  |
| 7.256  | 2-Methyl-3-pentanone                      | 0.05  |
| 8.841  | 2-Methyl-2-heptene                        | 0.10  |
| 10.344 | 4-Methyl-3-hexanone                       | 0.18  |
| 12.115 | 2-Methylbutyl acetate                     | 0.01  |
| 13.643 | 2-Bornene                                 | 0.03  |
| 15.331 | alpha-Pinene                              | 25.89 |
| 16.175 | alpha-Fenchene                            | 0.33  |
| 16.288 | Camphene                                  | 0.15  |
| 17.988 | beta-Pinene                               | 0.47  |
| 18.578 | Myrcene                                   | 0.06  |
| 19.391 | Isobutyl-2-methylbutyrate                 | 0.09  |
| 19.772 | alpha-Phellandrene                        | 0.03  |
| 20.464 | alpha-Terpinene                           | 0.21  |
| 20.970 | para-Cymene                               | 0.18  |
| 21.300 | Limonene                                  | 3.48  |
| 21.523 | 1,8-Cineole                               | 0.27  |
| 22.368 | trans-beta-Ocimene                        | 0.05  |
| 22.555 | Isobutyl angelate                         | 0.57  |
| 23.243 | gamma-Terpinene                           | 0.52  |
| 25.124 | Terpinolene                               | 0.17  |
| 25.395 | 2-Nonanone                                | 0.08  |
| 25.497 | 2,4-Dimethyl-3,5-heptanedione             | 0.06  |
| 26.055 | Linalool                                  | 0.48  |
| 26.270 | 2-Methylbutyl-2-methylbutyrate            | 0.25  |
| 26.396 | Nonanal                                   | 0.06  |
| 27.527 | endo-Fenchol                              | 0.07  |
| 29.057 | trans-Pinocarveol                         | 0.06  |
| 29.335 | Isoamyl angelate                          | 0.06  |
| 29.609 | Isoamyl tiglate                           | 1.83  |
| 30.524 | Unidentified                              | 0.05  |
| 31.236 | Borneol                                   | 0.07  |
| 31.700 | 3,5-Dimethyloctane-4,6-dione              | 0.28  |
| 31.768 | 4,6-Dimethyloctane-3,5-dione              | 0.53  |
| 32.650 | 2-Methyl butyl tiglate                    | 0.05  |
| 32.800 | alpha-Terpineol                           | 0.26  |
| 34.726 | Nerol                                     | 0.37  |
| 34.917 | 3,5-Dimethyloctane-4,6-dione stereoisomer | 0.11  |
| 35.500 | Hexyl-2-methylbutyrate                    | 0.05  |
| 36.519 | Unidentified                              | 0.20  |
| 36.838 | Unidentified                              | 0.09  |
| 38.725 | Hexyl angelate                            | 0.63  |
| 39.370 | 2-Undecanone                              | 0.07  |
| 43.713 | Neryl acetate                             | 7.03  |
| 44.574 | alpha-Ylangene                            | 0.61  |
| 45.009 | alpha-Copaene                             | 2.15  |
| 45.093 | Isotalicene                               | 1.08  |
| 46.949 | Italicene                                 | 4.36  |
| 47.104 | alpha-Duprezianene                        | 0.15  |
| 47.240 | Italicene isomer                          | 0.13  |
| 47.346 | cis-alpha-Bergamotene                     | 0.68  |
| 47.850 | beta-Caryophyllene                        | 3.89  |
| 48.486 | 4,6,9-Trimethyldec-8-en-3,5-dione         | 2.46  |
| 48.586 | trans-alpha-Bergamotene                   | 0.64  |
| 49.143 | Guaia-6,9-diene                           | 0.16  |
| 49.391 | Neryl propionate                          | 0.71  |
| 49.651 | Aromadendrene                             | 0.04  |
| 49.739 | E-beta-Farnesene                          | 0.09  |
| 50.074 | alpha-Humulene                            | 0.21  |
| 50.336 | Alloaromadendrene                         | 0.10  |
| 50.572 | alpha-Acoradiene                          | 0.37  |
| 50.705 | Sesquiterpene                             | 0.11  |

Chromatogram Helichrysum



| R.Time  | Name   | Area%  |
|---------|--|--------|
| 50.797  | beta-Acoradiene                              | 0.27   |
| 50.957  | Sesquiterpene                                | 0.08   |
| 51.116  | 5,7,10-Trimethylundec-9-en-4,6-dione         | 2.51   |
| 51.205  | Sesquiterpene                                | 0.22   |
| 51.401  | gamma-Curcumene                              | 14.34  |
| 51.563  | Ar-Curcumene                                 | 1.86   |
| 51.792  | Farnesene isomer                             | 0.32   |
| 52.174  | beta-Selinene                                | 5.50   |
| 52.326  | trans-Muurolo-4(14),5-diene                  | 0.15   |
| 52.584  | alpha-Selinene                               | 3.48   |
| 52.931  | delta-Amorphene                              | 0.32   |
| 53.179  | beta-Bisabolene                              | 0.09   |
| 53.280  | beta-Curcumene                               | 0.36   |
| 53.556  | gamma-Cadinene                               | 0.27   |
| 53.825  | delta-Cadinene                               | 0.72   |
| 54.129  | Zonarene                                     | 0.08   |
| 54.314  | E-gamma-Bisabolene                           | 0.08   |
| 54.706  | trans-Cadina-1,4-diene                       | 0.14   |
| 55.096  | Bisabolene                                   | 0.09   |
| 55.213  | alpha-Calacorene                             | 0.08   |
| 56.279  | trans-Nerolidol                              | 0.04   |
| 56.820  | 3,5,7,10-Tetramethylundec-9-en-4,6-dione + i | 0.88   |
| 57.310  | 3,5,7,10-Tetramethylundec-9-en-4,6-dione ste | 0.13   |
| 57.666  | Caryophyllene oxide                          | 0.05   |
| 58.456  | Guaiol                                       | 0.06   |
| 58.889  | Unidentified                                 | 0.06   |
| 59.222  | Sesquiterpenoid                              | 0.11   |
| 59.457  | Rosifolol                                    | 0.09   |
| 59.702  | Sesquiterpenoid                              | 0.05   |
| 60.249  | Sesquiterpenoid                              | 0.03   |
| 60.718  | beta-Eudesmol                                | 0.04   |
| 61.801  | alpha-Eudesmol                               | 0.09   |
| 61.989  | Sesquiterpenoid                              | 0.09   |
| 65.454  | Neryl hexanoate                              | 0.05   |
| 104.916 | alpha-Amyrin?                                | 0.79   |
| 106.550 | Unidentified                                 | 0.88   |
| 108.364 | Unidentified                                 | 0.23   |
| 109.121 | beta-Amyrin                                  | 1.86   |
|         |  | 100.00 |