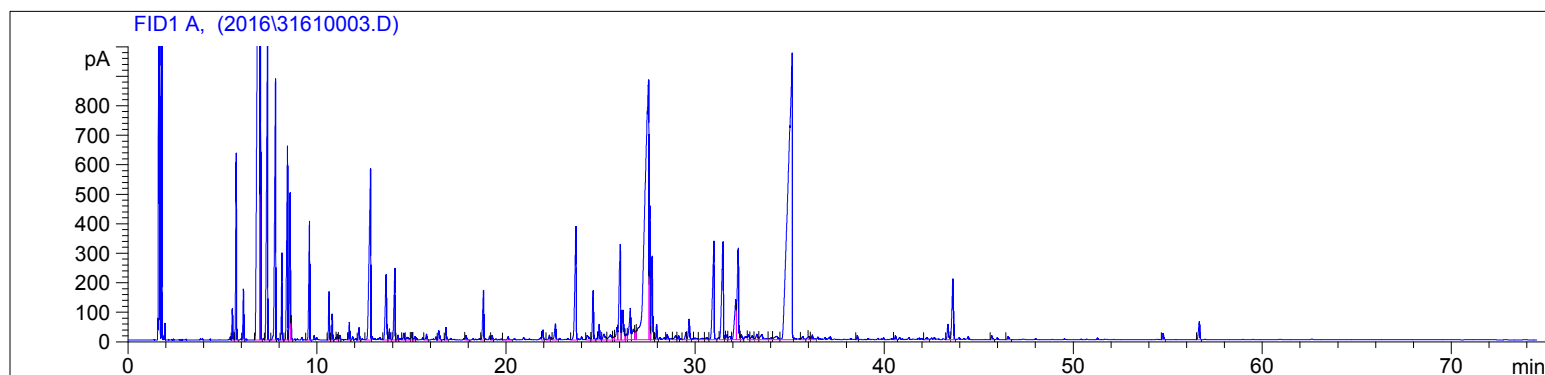


Chamomile, Blue Moroccan  
3161-JJBDT  
Morocco  
tanacetum annuum  
Sample/Hexane: 0.25g/0.09g  
Injection: 0.2uL

HP-5 5% Phenyl Methyl Siloxane  
30.000m  
250.000um  
0.250um

10/26/2016 10:32:27 AM  
10/26/2016 10:32:27 AM

11/2/2016  
2:01:23 PM



| #  | Compound Name      | Meas. Ret. | Amount | Response | Height  | Area     | Area % |
|----|--------------------|------------|--------|----------|---------|----------|--------|
| 1  | alpha thujene      | 5.51       | 100.00 | 285.66   | 106.55  | 285.66   | 0.31   |
| 2  | alpha pinene       | 5.72       | 100.00 | 1699.27  | 623.13  | 1699.27  | 1.86   |
| 3  | camphene           | 6.10       | 100.00 | 484.02   | 170.72  | 484.02   | 0.53   |
| 4  | sabinene           | 6.94       | 100.00 | 15450.91 | 2214.45 | 15450.91 | 16.89  |
| 5  | beta pinene        | 7.00       | 100.00 | 3248.95  | 1320.79 | 3248.95  | 3.55   |
| 6  | myrcene            | 7.37       | 100.00 | 3940.60  | 1024.38 | 3940.60  | 4.31   |
| 7  | alpha phellandrene | 7.79       | 100.00 | 3358.14  | 891.33  | 3358.14  | 3.67   |
| 8  | alpha terpinene    | 8.14       | 100.00 | 790.12   | 292.09  | 790.12   | 0.86   |
| 9  | para cymene        | 8.43       | 100.00 | 2410.93  | 650.70  | 2410.93  | 2.64   |
| 10 | d-limonene         | 8.57       | 100.00 | 1627.86  | 491.39  | 1627.86  | 1.78   |
| 11 | 1.8 cineol         | 8.61       | 100.00 | 149.67   | 58.01   | 149.67   | 0.16   |
| 12 | gamma terpinene    | 9.59       | 100.00 | 1319.18  | 393.48  | 1319.18  | 1.44   |
| 13 |                    | 10.63      | 0.00   | 490.64   | 163.07  | 490.64   | 0.54   |
| 14 |                    | 10.79      | 0.00   | 252.30   | 87.58   | 252.30   | 0.28   |
| 15 | linalool           | 11.06      | 100.00 | 69.88    | 18.89   | 69.88    | 0.08   |
| 16 |                    | 11.21      | 0.00   | 56.86    | 15.74   | 56.86    | 0.06   |
| 17 |                    | 11.70      | 0.00   | 189.42   | 59.32   | 189.42   | 0.21   |
| 18 |                    | 12.21      | 0.00   | 156.74   | 41.61   | 156.74   | 0.17   |
| 19 | camphor            | 12.82      | 100.00 | 3319.45  | 583.61  | 3319.45  | 3.63   |
| 20 | borneol            | 13.65      | 100.00 | 1108.90  | 220.22  | 1108.90  | 1.21   |
| 21 |                    | 13.82      | 0.00   | 122.37   | 37.03   | 122.37   | 0.13   |
| 22 | terpin-4-ol        | 14.11      | 100.00 | 992.71   | 242.87  | 992.71   | 1.09   |
| 23 |                    | 14.28      | 0.00   | 53.38    | 16.51   | 53.38    | 0.06   |
| 24 |                    | 14.58      | 0.00   | 83.85    | 23.00   | 83.85    | 0.09   |
| 25 |                    | 14.76      | 0.00   | 76.29    | 9.07    | 76.29    | 0.08   |
| 26 |                    | 15.01      | 0.00   | 83.19    | 24.44   | 83.19    | 0.09   |
| 27 |                    | 15.18      | 0.00   | 52.01    | 11.33   | 52.01    | 0.06   |
| 28 |                    | 15.78      | 0.00   | 75.42    | 19.63   | 75.42    | 0.08   |
| 29 |                    | 16.43      | 0.00   | 148.91   | 31.74   | 148.91   | 0.16   |
| 30 | pulegone           | 16.81      | 29.71  | 151.87   | 41.98   | 151.87   | 0.17   |
| 31 |                    | 17.88      | 0.00   | 59.57    | 15.04   | 59.57    | 0.07   |
| 32 | thymol             | 18.79      | 156.33 | 653.55   | 167.80  | 653.55   | 0.71   |
| 33 |                    | 19.26      | 0.00   | 52.85    | 14.64   | 52.85    | 0.06   |
| 34 |                    | 20.10      | 0.00   | 55.85    | 10.57   | 55.85    | 0.06   |
| 35 |                    | 21.94      | 0.00   | 124.19   | 33.42   | 124.19   | 0.14   |
| 36 |                    | 22.28      | 0.00   | 73.47    | 16.02   | 73.47    | 0.08   |
| 37 |                    | 22.60      | 0.00   | 273.39   | 53.58   | 273.39   | 0.30   |

3161-JJBDT

Instrument 6890

C:\HPCHEM\2\DATA\2016\  
31610003.DChamomile, Blue Moroccan  
3161-JJBDT  
Morocco  
tanacetum annuum  
Sample/Hexane: 0.25g/0.09g  
Injection: 0.2uLHP-5 5% Phenyl Methyl Siloxane  
30.000m  
250.000um  
0.250um

10/26/2016 10:32:27 AM

11/2/2016

10/26/2016 10:32:27 AM

2:01:23 PM

| #  | Compound Name            | Meas. Ret. | Amount  | Response | Height | Area     | Area % |
|----|--------------------------|------------|---------|----------|--------|----------|--------|
| 38 | methyl eugenol           | 23.69      | 0.00    | 1948.18  | 386.36 | 1948.18  | 2.13   |
| 39 |                          | 24.29      | 0.00    | 120.96   | 14.95  | 120.96   | 0.13   |
| 40 | beta caryophyllene       | 24.60      | 4.39    | 644.08   | 165.31 | 644.08   | 0.70   |
| 41 |                          | 24.92      | 0.00    | 211.36   | 52.77  | 211.36   | 0.23   |
| 42 |                          | 25.17      | 0.00    | 157.40   | 19.18  | 157.40   | 0.17   |
| 43 |                          | 25.51      | 0.00    | 175.08   | 17.29  | 175.08   | 0.19   |
| 44 |                          | 25.71      | 0.00    | 54.09    | 10.40  | 54.09    | 0.06   |
| 45 |                          | 25.86      | 0.00    | 243.08   | 42.11  | 243.08   | 0.27   |
| 46 |                          | 26.03      | 0.00    | 1733.30  | 317.20 | 1733.30  | 1.89   |
| 47 |                          | 26.18      | 0.00    | 553.75   | 99.86  | 553.75   | 0.61   |
| 48 |                          | 26.36      | 0.00    | 117.69   | 19.62  | 117.69   | 0.13   |
| 49 | germacrene D             | 26.56      | 274.28  | 646.76   | 106.53 | 646.76   | 0.71   |
| 50 |                          | 26.72      | 0.00    | 282.08   | 36.44  | 282.08   | 0.31   |
| 51 |                          | 26.86      | 0.00    | 149.35   | 29.91  | 149.35   | 0.16   |
| 52 | dihydrochamzulene isomer | 27.53      | 0.00    | 12786.46 | 878.14 | 12786.46 | 13.98  |
| 53 | alpha selinene           | 27.61      | 0.00    | 1278.12  | 441.03 | 1278.12  | 1.40   |
| 54 | bicyclogermacrene        | 27.72      | 0.00    | 1165.21  | 280.22 | 1165.21  | 1.27   |
| 55 |                          | 27.95      | 0.00    | 177.69   | 52.32  | 177.69   | 0.19   |
| 56 |                          | 28.52      | 0.00    | 90.97    | 18.12  | 90.97    | 0.10   |
| 57 |                          | 28.97      | 0.00    | 101.93   | 13.78  | 101.93   | 0.11   |
| 58 |                          | 29.11      | 0.00    | 67.71    | 14.15  | 67.71    | 0.07   |
| 59 |                          | 29.50      | 0.00    | 121.22   | 25.31  | 121.22   | 0.13   |
| 60 | beta bisabolene          | 29.68      | 235.31  | 317.06   | 69.13  | 317.06   | 0.35   |
| 61 |                          | 29.98      | 0.00    | 58.26    | 5.96   | 58.26    | 0.06   |
| 62 |                          | 30.38      | 0.00    | 59.49    | 5.40   | 59.49    | 0.07   |
| 63 |                          | 30.59      | 0.00    | 58.25    | 6.84   | 58.25    | 0.06   |
| 64 | caryophyllene oxide      | 30.99      | 2766.25 | 1976.39  | 336.65 | 1976.39  | 2.16   |
| 65 |                          | 31.47      | 0.00    | 2026.10  | 330.63 | 2026.10  | 2.21   |
| 66 |                          | 31.68      | 0.00    | 76.70    | 16.12  | 76.70    | 0.08   |
| 67 |                          | 31.84      | 0.00    | 92.08    | 11.51  | 92.08    | 0.10   |
| 68 | beta bisabolol oxide     | 32.14      | 1080.22 | 883.03   | 135.52 | 883.03   | 0.97   |
| 69 | alpha bisabolol oxide B  | 32.27      | 103.98  | 1590.99  | 311.57 | 1590.99  | 1.74   |
| 70 |                          | 32.44      | 0.00    | 94.53    | 16.63  | 94.53    | 0.10   |
| 71 | beta bisabolol           | 32.83      | 0.00    | 90.89    | 16.61  | 90.89    | 0.10   |
| 72 |                          | 33.02      | 0.00    | 98.07    | 13.89  | 98.07    | 0.11   |
| 73 | alpha bisabolol          | 33.26      | 8.17    | 129.57   | 18.51  | 129.57   | 0.14   |
| 74 |                          | 33.52      | 0.00    | 214.34   | 17.85  | 214.34   | 0.23   |
| 75 |                          | 34.01      | 0.00    | 67.46    | 6.53   | 67.46    | 0.07   |
| 76 |                          | 34.30      | 0.00    | 161.09   | 11.98  | 161.09   | 0.18   |
| 77 | chamazulene              | 35.12      | 100.00  | 14859.36 | 954.92 | 14859.36 | 16.24  |
| 78 | alpha bisabolol oxide A  | 35.68      | 100.00  | 73.73    | 10.16  | 73.73    | 0.08   |
| 79 |                          | 36.03      | 0.00    | 55.73    | 10.65  | 55.73    | 0.06   |
| 80 |                          | 36.19      | 0.00    | 103.36   | 16.71  | 103.36   | 0.11   |
| 81 |                          | 38.57      | 0.00    | 50.66    | 14.17  | 50.66    | 0.06   |
| 82 |                          | 40.59      | 0.00    | 55.87    | 13.13  | 55.87    | 0.06   |
| 83 |                          | 42.24      | 0.00    | 54.58    | 7.70   | 54.58    | 0.06   |
| 84 |                          | 43.36      | 0.00    | 245.11   | 52.43  | 245.11   | 0.27   |
| 85 |                          | 43.63      | 0.00    | 1124.47  | 205.23 | 1124.47  | 1.23   |
| 86 |                          | 45.68      | 0.00    | 63.68    | 12.78  | 63.68    | 0.07   |
| 87 |                          | 46.54      | 0.00    | 60.34    | 9.90   | 60.34    | 0.07   |
| 88 |                          | 54.75      | 0.00    | 82.49    | 20.80  | 82.49    | 0.09   |
| 89 |                          | 56.66      | 0.00    | 297.46   | 61.23  | 297.46   | 0.33   |

