

4571-KAAK

Instrument 6890

C:\HPCHEM\2\DATA\2021\  
45710001.D

Black Pepper Organic Fair Trade

HP-5 5% Phenyl Methyl Siloxane

4571-KAAK

30.000m

Sri Lanka

250.000um

Piper nigrum

0.250um

Sample/Solvent Ratio: 0.06g/0.51g

Injection Amount: 0.2uL

20:1 Split Ratio

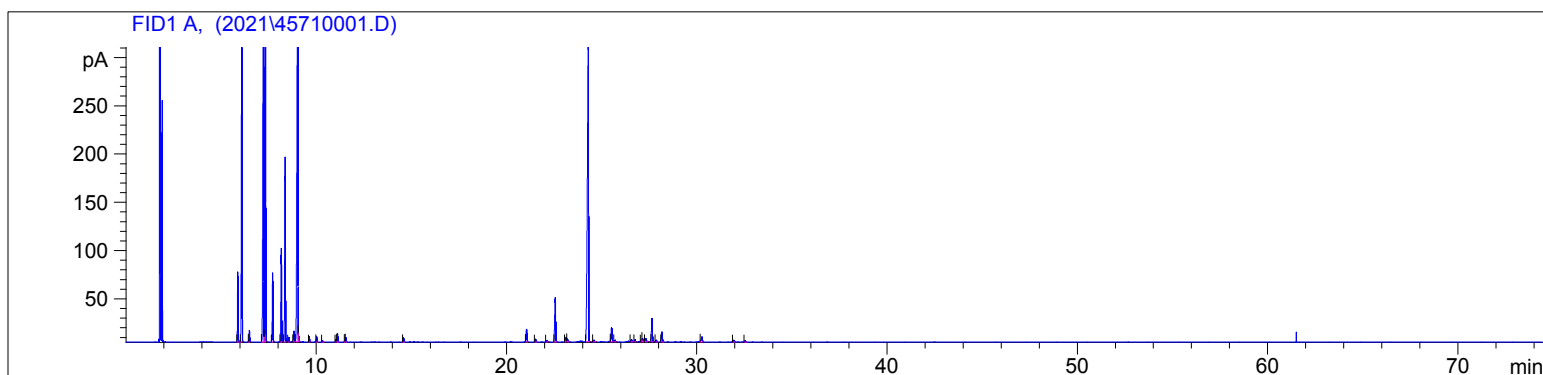
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| #  | Compound Name        | Meas. Ret. | Amount | Response | Height | Area    | Area % |
|----|----------------------|------------|--------|----------|--------|---------|--------|
| 1  | alpha thujene        | 5.87       | 100.00 | 157.69   | 72.41  | 157.69  | 2.02   |
| 2  | alpha pinene         | 6.08       | 100.00 | 1093.93  | 464.99 | 1093.93 | 14.00  |
| 3  | camphene             | 6.48       | 100.00 | 28.16    | 12.04  | 28.16   | 0.36   |
| 4  | sabinene             | 7.21       | 100.00 | 1178.31  | 408.88 | 1178.31 | 15.08  |
| 5  | beta pinene          | 7.32       | 100.00 | 982.35   | 386.39 | 982.35  | 12.58  |
| 6  | myrcene              | 7.70       | 100.00 | 169.83   | 71.43  | 169.83  | 2.17   |
| 7  | alpha phellandrene   | 8.16       | 100.00 | 247.57   | 96.79  | 247.57  | 3.17   |
| 8  | delta-3-carene       | 8.36       | 100.00 | 497.96   | 191.28 | 497.96  | 6.37   |
| 9  | alpha terpinene      | 8.56       | 100.00 | 12.09    | 4.80   | 12.09   | 0.15   |
| 10 | para cymene          | 8.82       | 100.00 | 31.87    | 11.11  | 31.87   | 0.41   |
| 11 | d-limonene           | 9.01       | 100.00 | 1408.27  | 434.52 | 1408.27 | 18.03  |
| 12 | 1.8 cineol           | 9.05       | 100.00 | 13.60    | 8.73   | 13.60   | 0.17   |
| 13 | trans-beta ocimene   | 9.64       | 100.00 | 14.26    | 5.55   | 14.26   | 0.18   |
| 14 | gamma terpinene      | 10.03      | 100.00 | 13.96    | 5.20   | 13.96   | 0.18   |
| 15 | cis sabinene hydrate | 10.34      | 100.00 | 4.02     | 1.41   | 4.02    | 0.05   |
| 16 |                      | 11.04      | 100.00 | 6.01     | 2.18   | 6.01    | 0.08   |
| 17 | terpinolene          | 11.12      | 100.00 | 25.15    | 8.61   | 25.15   | 0.32   |
| 18 |                      | 11.50      | 100.00 | 1.96     | 0.82   | 1.96    | 0.03   |
| 19 | linalool             | 11.56      | 100.00 | 14.00    | 4.68   | 14.00   | 0.18   |
| 20 | terpin-4-ol          | 14.60      | 100.00 | 13.32    | 4.09   | 13.32   | 0.17   |
| 21 | delta elemene        | 21.06      | 100.00 | 43.59    | 12.94  | 43.59   | 0.56   |
| 22 | alpha cubebene       | 21.53      | 100.00 | 10.02    | 2.85   | 10.02   | 0.13   |
| 23 | cyclosativene        | 22.13      | 100.00 | 4.68     | 1.27   | 4.68    | 0.06   |
| 24 | alpha copaene        | 22.57      | 100.00 | 158.03   | 45.83  | 158.03  | 2.02   |
| 25 | beta cubebene        | 23.12      | 100.00 | 15.80    | 4.66   | 15.80   | 0.20   |
| 26 | beta elemene         | 23.21      | 100.00 | 10.34    | 3.13   | 10.34   | 0.13   |
| 27 | beta caryophyllene   | 24.30      | 100.00 | 1378.95  | 310.69 | 1378.95 | 17.65  |
| 28 |                      | 24.61      | 100.00 | 7.51     | 1.84   | 7.51    | 0.10   |
| 29 | alpha humulene       | 25.53      | 100.00 | 51.73    | 14.88  | 51.73   | 0.66   |
| 30 | trans-beta farnesene | 25.71      | 100.00 | 6.31     | 1.90   | 6.31    | 0.08   |
| 31 |                      | 26.57      | 100.00 | 9.02     | 2.47   | 9.02    | 0.12   |
| 32 | germacrene D         | 26.76      | 100.00 | 6.57     | 1.98   | 6.57    | 0.08   |
| 33 |                      | 27.12      | 100.00 | 6.97     | 2.52   | 6.97    | 0.09   |
| 34 |                      | 27.16      | 100.00 | 13.17    | 3.35   | 13.17   | 0.17   |

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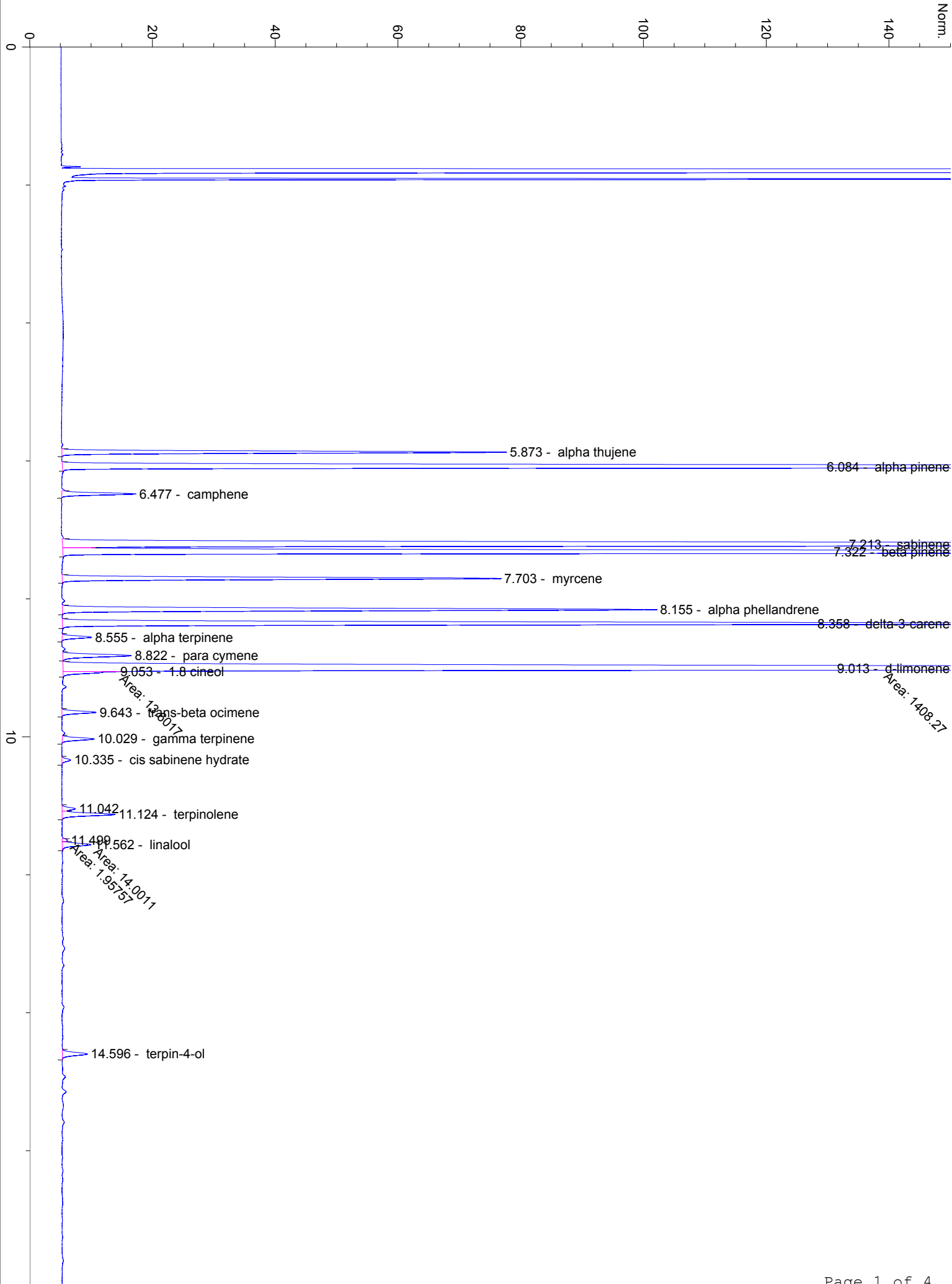
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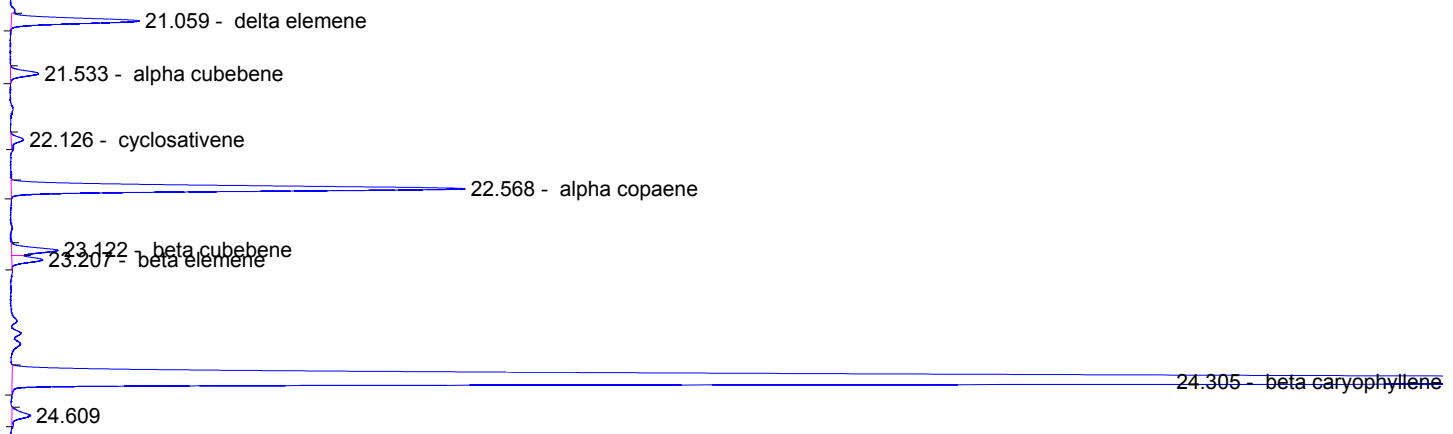
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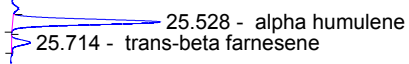
| #  | Compound Name     | Meas. Ret. | Amount | Response | Height | Area  | Area % |
|----|-------------------|------------|--------|----------|--------|-------|--------|
| 35 | bicyclogermacrene | 27.33      | 100.00 | 14.93    | 3.23   | 14.93 | 0.19   |
| 36 |                   | 27.65      | 100.00 | 83.67    | 24.46  | 83.67 | 1.07   |
| 37 | beta bisabolene   | 27.87      | 100.00 | 6.47     | 1.78   | 6.47  | 0.08   |
| 38 |                   | 28.17      | 100.00 | 37.01    | 10.35  | 37.01 | 0.47   |
| 39 | spathulenol       | 30.27      | 100.00 | 21.45    | 5.11   | 21.45 | 0.27   |
| 40 |                   | 31.95      | 100.00 | 6.22     | 1.67   | 6.22  | 0.08   |
| 41 |                   | 32.55      | 100.00 | 4.72     | 1.30   | 4.72  | 0.06   |



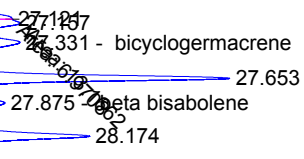
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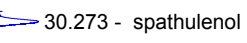
24.609



26.572  
26.761 - germacrene D



30



31.947

32.548

40

50

