

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032223\  
 Data File : VY013050.D  
 Acq On : 22 Mar 2023 15:31  
 Operator : KP/MD  
 Sample : 02028-01  
 Misc : 5.03g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TR-05-032123

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Title : SW846 8260

Signal : TIC: VY013050.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.912       | 176           | 179         | 181          | rVB      | 433            | 449           | 1.21%           | 0.155%        |
| 2         | 3.131       | 212           | 215         | 218          | rBV2     | 280            | 458           | 1.23%           | 0.158%        |
| 3         | 3.948       | 341           | 349         | 354          | rBV3     | 317            | 878           | 2.37%           | 0.303%        |
| 4         | 4.180       | 384           | 387         | 390          | rBV3     | 326            | 469           | 1.26%           | 0.162%        |
| 5         | 4.704       | 468           | 473         | 484          | rBV2     | 1088           | 2772          | 7.47%           | 0.958%        |
| 6         | 6.972       | 833           | 845         | 852          | rBV2     | 3015           | 8919          | 24.05%          | 3.082%        |
| 7         | 7.716       | 958           | 967         | 972          | rBV3     | 6894           | 16156         | 43.56%          | 5.582%        |
| 8         | 7.783       | 972           | 978         | 988          | rVB3     | 9637           | 21477         | 57.91%          | 7.420%        |
| 9         | 8.136       | 1027          | 1036        | 1049         | rVB3     | 8412           | 18964         | 51.13%          | 6.552%        |
| 10        | 8.685       | 1120          | 1126        | 1134         | rVB      | 14685          | 27726         | 74.76%          | 9.579%        |
| 11        | 10.179      | 1363          | 1371        | 1379         | rBV      | 21067          | 37088         | 100.00%         | 12.814%       |
| 12        | 10.575      | 1428          | 1436        | 1443         | rBV2     | 1097           | 1810          | 4.88%           | 0.625%        |
| 13        | 10.947      | 1493          | 1497        | 1503         | rBV4     | 478            | 808           | 2.18%           | 0.279%        |
| 14        | 11.313      | 1553          | 1557        | 1562         | rBV2     | 678            | 958           | 2.58%           | 0.331%        |
| 15        | 11.490      | 1579          | 1586        | 1593         | rVV      | 20538          | 33610         | 90.62%          | 11.612%       |
| 16        | 11.697      | 1616          | 1620        | 1624         | rBV2     | 410            | 701           | 1.89%           | 0.242%        |
| 17        | 12.477      | 1742          | 1748        | 1756         | rBV2     | 15743          | 25935         | 69.93%          | 8.961%        |
| 18        | 12.727      | 1786          | 1789        | 1794         | rBV2     | 688            | 1034          | 2.79%           | 0.357%        |
| 19        | 12.800      | 1798          | 1801        | 1806         | rVB4     | 2196           | 3254          | 8.77%           | 1.124%        |
| 20        | 12.922      | 1820          | 1821        | 1822         | rVV      | 812            | 555           | 1.50%           | 0.192%        |
| 21        | 12.941      | 1822          | 1824        | 1825         | rVV      | 1056           | 1028          | 2.77%           | 0.355%        |
| 22        | 12.965      | 1825          | 1828        | 1835         | rVV5     | 1286           | 2560          | 6.90%           | 0.884%        |
| 23        | 13.044      | 1835          | 1841        | 1843         | rVV3     | 821            | 1155          | 3.11%           | 0.399%        |
| 24        | 13.117      | 1847          | 1853        | 1858         | rVV4     | 1316           | 2229          | 6.01%           | 0.770%        |
| 25        | 13.178      | 1858          | 1863        | 1866         | rVB4     | 376            | 498           | 1.34%           | 0.172%        |
| 26        | 13.319      | 1882          | 1886        | 1891         | rVB3     | 591            | 893           | 2.41%           | 0.309%        |
| 27        | 13.367      | 1891          | 1894        | 1896         | rBV2     | 389            | 538           | 1.45%           | 0.186%        |
| 28        | 13.422      | 1896          | 1903        | 1912         | rVB      | 19989          | 31197         | 84.12%          | 10.779%       |
| 29        | 13.550      | 1918          | 1924        | 1925         | rBV3     | 584            | 806           | 2.17%           | 0.278%        |
| 30        | 13.568      | 1925          | 1927        | 1930         | rVV3     | 618            | 677           | 1.83%           | 0.234%        |
| 31        | 13.629      | 1932          | 1937        | 1940         | rVV4     | 831            | 1450          | 3.91%           | 0.501%        |
| 32        | 13.660      | 1940          | 1942        | 1947         | rVB5     | 1305           | 1598          | 4.31%           | 0.552%        |
| 33        | 13.696      | 1947          | 1948        | 1951         | rVB2     | 526            | 457           | 1.23%           | 0.158%        |
| 34        | 13.745      | 1951          | 1956        | 1963         | rBV5     | 2574           | 4658          | 12.56%          | 1.609%        |
| 35        | 13.806      | 1963          | 1966        | 1968         | rBV4     | 489            | 657           | 1.77%           | 0.227%        |
| 36        | 13.885      | 1975          | 1979        | 1980         | rBV3     | 384            | 470           | 1.27%           | 0.162%        |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TR-05-032123

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Title : SW846 8260

|    |        |      |      |      |      |      |      |        |        |
|----|--------|------|------|------|------|------|------|--------|--------|
| 37 | 13.910 | 1980 | 1983 | 1987 | rVB3 | 839  | 964  | 2.60%  | 0.333% |
| 38 | 13.959 | 1987 | 1991 | 1997 | rVB5 | 1121 | 1823 | 4.92%  | 0.630% |
| 39 | 14.081 | 2007 | 2011 | 2016 | rBV4 | 779  | 1294 | 3.49%  | 0.447% |
| 40 | 14.227 | 2030 | 2035 | 2036 | rBV2 | 414  | 695  | 1.87%  | 0.240% |
| 41 | 14.251 | 2036 | 2039 | 2044 | rVV4 | 991  | 1516 | 4.09%  | 0.524% |
| 42 | 14.294 | 2044 | 2046 | 2048 | rVV2 | 532  | 547  | 1.47%  | 0.189% |
| 43 | 14.324 | 2048 | 2051 | 2057 | rVB5 | 566  | 1164 | 3.14%  | 0.402% |
| 44 | 14.373 | 2057 | 2059 | 2063 | rVB  | 462  | 520  | 1.40%  | 0.180% |
| 45 | 14.416 | 2063 | 2066 | 2070 | rBV  | 492  | 714  | 1.93%  | 0.247% |
| 46 | 14.513 | 2080 | 2082 | 2085 | rVV3 | 370  | 448  | 1.21%  | 0.155% |
| 47 | 14.568 | 2088 | 2091 | 2094 | rVV3 | 528  | 785  | 2.12%  | 0.271% |
| 48 | 14.605 | 2094 | 2097 | 2103 | rVV4 | 1562 | 2431 | 6.55%  | 0.840% |
| 49 | 14.666 | 2103 | 2107 | 2108 | rVV2 | 739  | 998  | 2.69%  | 0.345% |
| 50 | 14.690 | 2108 | 2111 | 2113 | rVV3 | 952  | 1560 | 4.21%  | 0.539% |
| 51 | 14.721 | 2115 | 2116 | 2123 | rVB4 | 1120 | 2034 | 5.48%  | 0.703% |
| 52 | 14.830 | 2131 | 2134 | 2138 | rBV5 | 1266 | 1537 | 4.14%  | 0.531% |
| 53 | 15.044 | 2166 | 2169 | 2176 | rVB3 | 619  | 1100 | 2.97%  | 0.380% |
| 54 | 15.233 | 2191 | 2200 | 2205 | rBV2 | 4367 | 8480 | 22.86% | 2.930% |
| 55 | 15.282 | 2205 | 2208 | 2209 | rBV2 | 415  | 418  | 1.13%  | 0.144% |
| 56 | 15.397 | 2223 | 2227 | 2229 | rBV2 | 407  | 630  | 1.70%  | 0.218% |
| 57 | 15.727 | 2272 | 2281 | 2286 | rBV6 | 790  | 2081 | 5.61%  | 0.719% |
| 58 | 16.105 | 2341 | 2343 | 2346 | rBV  | 315  | 372  | 1.00%  | 0.129% |
| 59 | 16.287 | 2371 | 2373 | 2378 | rVB2 | 599  | 745  | 2.01%  | 0.257% |
| 60 | 16.391 | 2385 | 2390 | 2395 | rVB2 | 200  | 429  | 1.16%  | 0.148% |
| 61 | 16.495 | 2402 | 2407 | 2411 | rVB3 | 431  | 780  | 2.10%  | 0.269% |
| 62 | 16.550 | 2413 | 2416 | 2417 | rBV2 | 408  | 479  | 1.29%  | 0.165% |

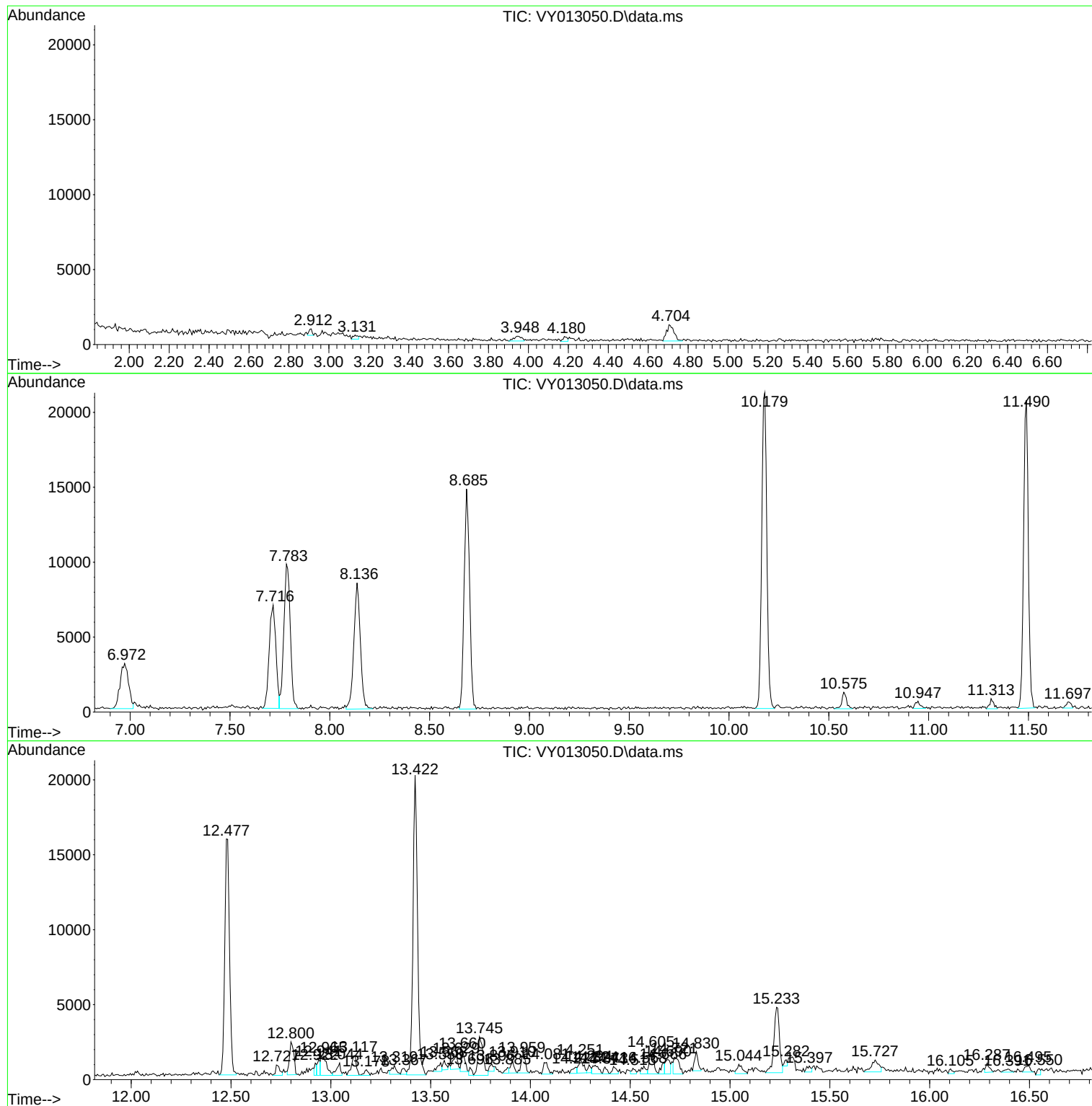
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-032123

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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Instrument :  
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ClientSampleId :  
TR-05-032123

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
Quant Title : SW846 8260

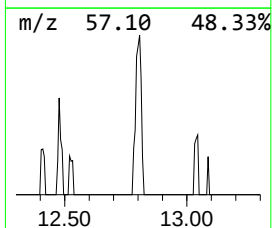
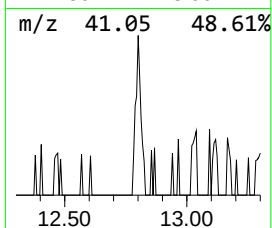
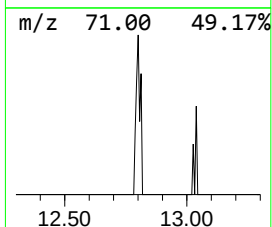
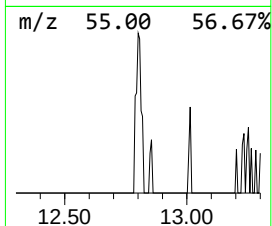
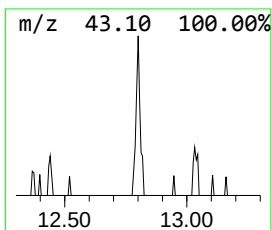
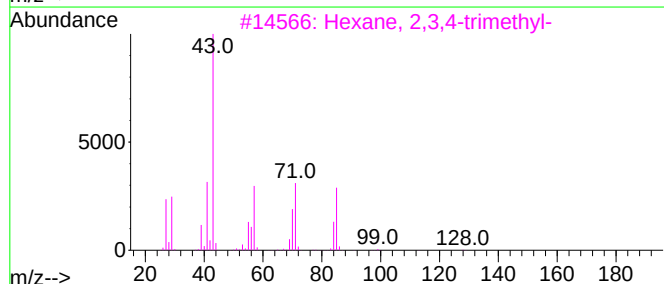
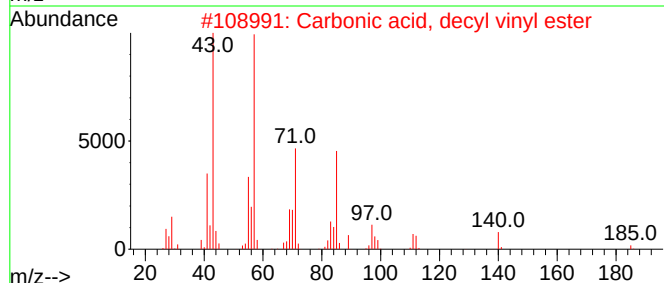
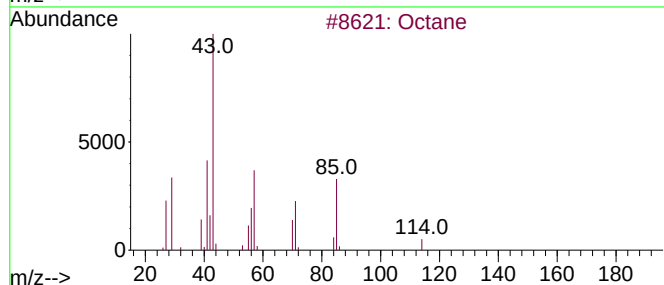
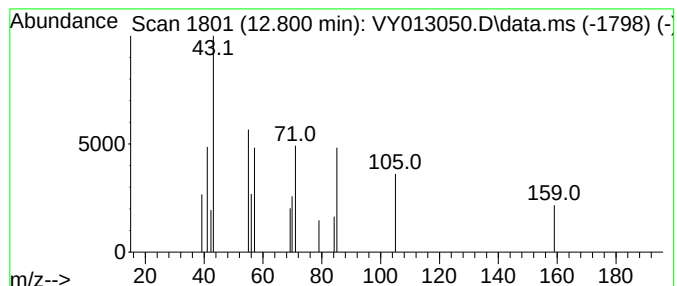
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Octane Concentration Rank 5

| R.T.   | EstConc   | Area | Relative to ISTD       | R.T.   |
|--------|-----------|------|------------------------|--------|
| 12.800 | 5.22 ug/l | 3254 | 1,4-Dichlorobenzene-d4 | 13.422 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#         | Qual |
|------|----|---|----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Octane                           | 114 | C8H18    | 000111-65-9  | 59   |
| 2    |    |   | Carbonic acid, decyl vinyl ester | 228 | C13H24O3 | 1000383-25-7 | 53   |
| 3    |    |   | Hexane, 2,3,4-trimethyl-         | 128 | C9H20    | 000921-47-1  | 50   |
| 4    |    |   | Heptane, 2,4-dimethyl-           | 128 | C9H20    | 002213-23-2  | 50   |
| 5    |    |   | Hexane, 3,3-dimethyl-            | 114 | C8H18    | 000563-16-6  | 47   |



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Sample : 02028-01  
Misc : 5.03g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TR-05-032123

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
Quant Title : SW846 8260

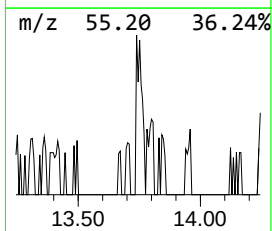
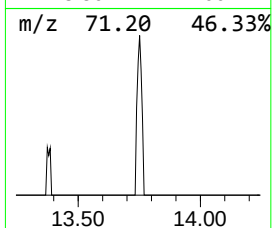
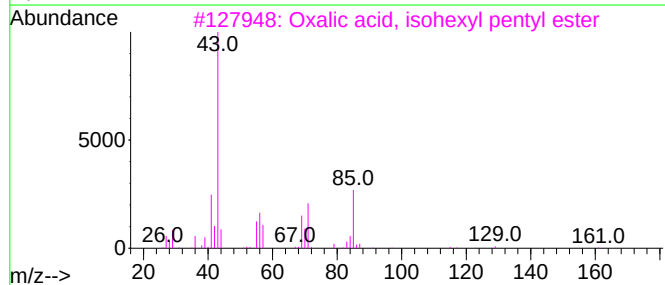
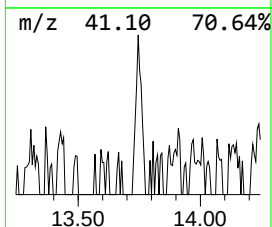
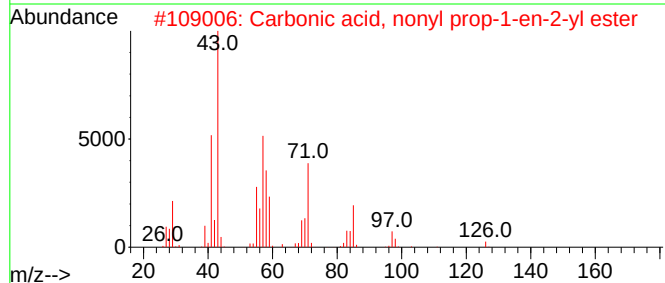
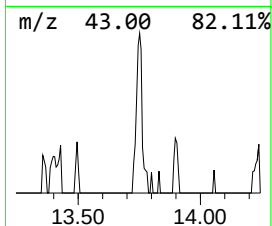
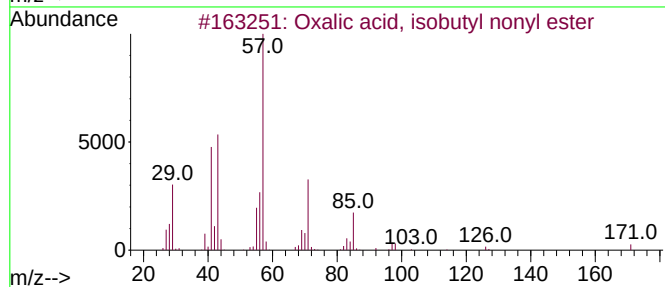
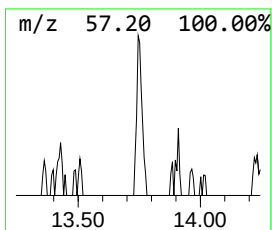
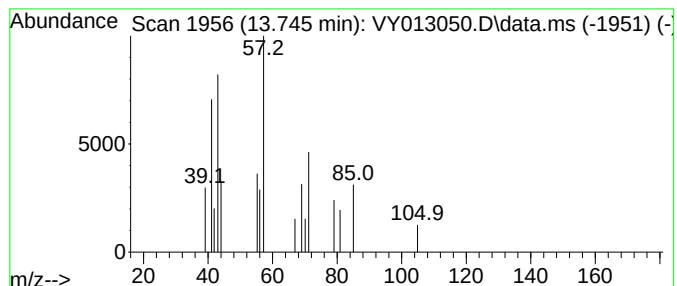
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown13.745 Concentration Rank 3

| R.T.   | EstConc   | Area | Relative to ISTD       | R.T.   |
|--------|-----------|------|------------------------|--------|
| 13.745 | 7.47 ug/l | 4658 | 1,4-Dichlorobenzene-d4 | 13.422 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Oxalic acid, isobutyl nonyl ester   | 272 | C15H28O4 | 1010309-37-4 | 32   |
| 2    |    |   | Carbonic acid, nonyl prop-1-en-2... | 228 | C13H24O3 | 1000382-53-9 | 28   |
| 3    |    |   | Oxalic acid, isohexyl pentyl ester  | 244 | C13H24O4 | 1000309-32-8 | 28   |
| 4    |    |   | 1-Pentanol, 4-methyl-2-methylene-   | 114 | C7H14O   | 121505-31-5  | 25   |
| 5    |    |   | Decane                              | 142 | C10H22   | 000124-18-5  | 25   |



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ClientSampleId :  
TR-05-032123

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
Quant Title : SW846 8260

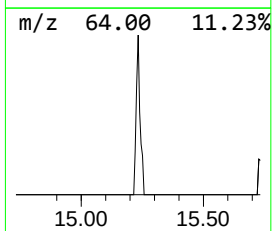
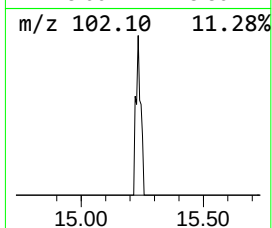
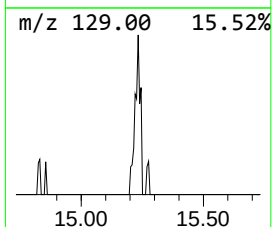
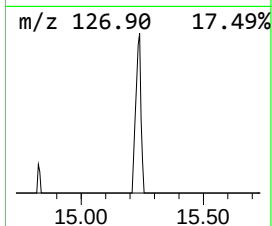
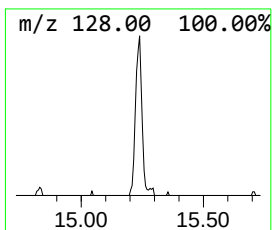
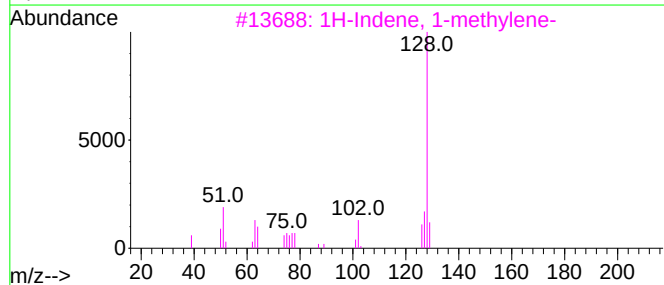
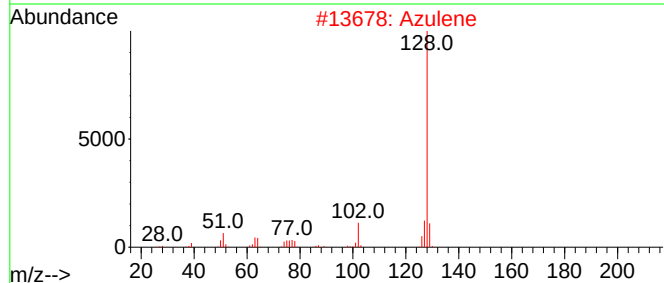
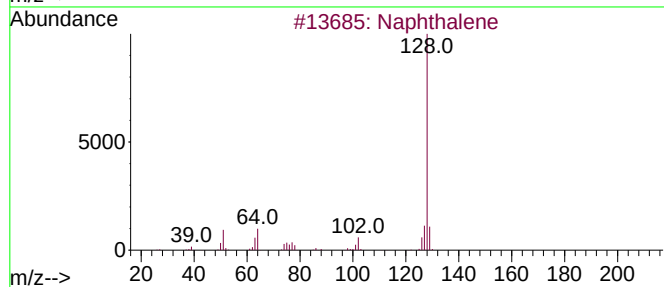
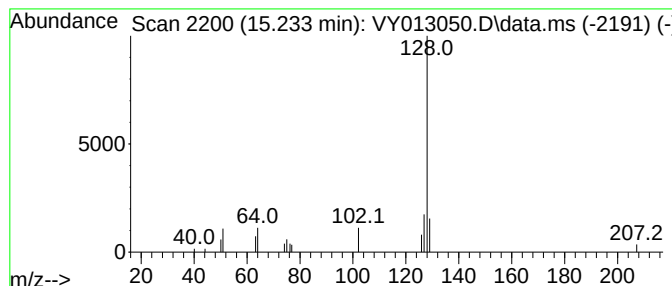
TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Azulene Concentration Rank 2

| R.T.   | EstConc    | Area | Relative to ISTD       | R.T.   |
|--------|------------|------|------------------------|--------|
| 15.233 | 13.59 ug/l | 8480 | 1,4-Dichlorobenzene-d4 | 13.422 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Naphthalene                         | 128 | C10H8     | 000091-20-3 | 91   |
| 2    |    |   | Azulene                             | 128 | C10H8     | 000275-51-4 | 90   |
| 3    |    |   | 1H-Indene, 1-methylene-             | 128 | C10H8     | 002471-84-3 | 86   |
| 4    |    |   | 4a,8a-(Methaniminomethano)naphth... | 275 | C18H13NO2 | 069915-10-2 | 64   |
| 5    |    |   | [4.2.2]Propella-2,4,7,9-tetraene    | 128 | C10H8     | 088090-34-0 | 50   |



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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT     | EstConc | Units | Response | --Internal Standard-- |        |       |      |
|------------------|--------|---------|-------|----------|-----------------------|--------|-------|------|
|                  |        |         |       |          | #                     | RT     | Resp  | Conc |
| Octane           | 12.800 | 5.2     | ug/l  | 3254     | 4                     | 13.422 | 31197 | 50.0 |
| unknown13.745    | 13.745 | 7.5     | ug/l  | 4658     | 4                     | 13.422 | 31197 | 50.0 |
| Azulene          | 15.233 | 13.6    | ug/l  | 8480     | 4                     | 13.422 | 31197 | 50.0 |