

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
 Data File : VY007470.D  
 Acq On : 10 Feb 2022 14:37  
 Operator : SY/MD  
 Sample : N1465-02  
 Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 A5-2-6.5

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\82Y020222S.M  
 Title : SW846 8260

Signal : TIC: VY007470.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         | 2.077       | 36            | 42          | 54           | rVB      | 108480         | 153270        | 1.79%           | 0.405%        |
| 2         | 2.253       | 60            | 71          | 81           | rBV      | 527719         | 876260        | 10.23%          | 2.314%        |
| 3         | 2.906       | 169           | 178         | 198          | rBV      | 695879         | 1557360       | 18.18%          | 4.113%        |
| 4         | 3.259       | 226           | 236         | 254          | rBV      | 262727         | 631948        | 7.38%           | 1.669%        |
| 5         | 3.704       | 298           | 309         | 326          | rVB2     | 75067          | 198396        | 2.32%           | 0.524%        |
| 6         | 3.942       | 335           | 348         | 362          | rBV2     | 34421          | 108019        | 1.26%           | 0.285%        |
| 7         | 4.710       | 462           | 474         | 476          | rBV2     | 72986          | 201255        | 2.35%           | 0.532%        |
| 8         | 4.777       | 478           | 485         | 504          | rVV4     | 149776         | 805281        | 9.40%           | 2.127%        |
| 9         | 4.954       | 504           | 514         | 531          | rVB      | 63812          | 248710        | 2.90%           | 0.657%        |
| 10        | 5.229       | 542           | 559         | 580          | rBV4     | 261162         | 1050416       | 12.26%          | 2.774%        |
| 11        | 5.753       | 629           | 645         | 662          | rBV      | 66496          | 204610        | 2.39%           | 0.540%        |
| 12        | 6.106       | 689           | 703         | 716          | rBV2     | 69354          | 235896        | 2.75%           | 0.623%        |
| 13        | 6.545       | 764           | 775         | 788          | rVB3     | 43001          | 130359        | 1.52%           | 0.344%        |
| 14        | 6.795       | 806           | 816         | 826          | rVV      | 183605         | 574456        | 6.71%           | 1.517%        |
| 15        | 7.533       | 929           | 937         | 946          | rVB      | 65022          | 168638        | 1.97%           | 0.445%        |
| 16        | 7.722       | 957           | 968         | 972          | rBV      | 96016          | 235648        | 2.75%           | 0.622%        |
| 17        | 7.789       | 972           | 979         | 987          | rVV3     | 247190         | 651475        | 7.60%           | 1.721%        |
| 18        | 7.874       | 987           | 993         | 1005         | rVB2     | 68562          | 179601        | 2.10%           | 0.474%        |
| 19        | 8.002       | 1005          | 1014        | 1021         | rBV2     | 57673          | 135455        | 1.58%           | 0.358%        |
| 20        | 8.161       | 1030          | 1040        | 1049         | rBV      | 3802098        | 8567296       | 100.00%         | 22.627%       |
| 21        | 8.240       | 1049          | 1053        | 1062         | rVV2     | 126029         | 372283        | 4.35%           | 0.983%        |
| 22        | 8.332       | 1063          | 1068        | 1077         | rVV2     | 80955          | 251811        | 2.94%           | 0.665%        |
| 23        | 8.551       | 1093          | 1104        | 1113         | rVB3     | 41039          | 96543         | 1.13%           | 0.255%        |
| 24        | 8.691       | 1117          | 1127        | 1139         | rBV      | 291948         | 656604        | 7.66%           | 1.734%        |
| 25        | 9.185       | 1194          | 1208        | 1214         | rBV3     | 108099         | 290504        | 3.39%           | 0.767%        |
| 26        | 9.618       | 1273          | 1279        | 1288         | rVB      | 55188          | 108464        | 1.27%           | 0.286%        |
| 27        | 9.709       | 1288          | 1294        | 1297         | rBV      | 53059          | 99989         | 1.17%           | 0.264%        |
| 28        | 9.752       | 1297          | 1301        | 1308         | rVB2     | 75748          | 153988        | 1.80%           | 0.407%        |
| 29        | 9.978       | 1325          | 1338        | 1346         | rBV2     | 100886         | 282341        | 3.30%           | 0.746%        |
| 30        | 10.179      | 1365          | 1371        | 1377         | rVV      | 391217         | 692027        | 8.08%           | 1.828%        |
| 31        | 10.246      | 1377          | 1382        | 1386         | rVV      | 89116          | 160037        | 1.87%           | 0.423%        |
| 32        | 10.295      | 1386          | 1390        | 1395         | rVV      | 98491          | 164540        | 1.92%           | 0.435%        |
| 33        | 10.374      | 1395          | 1403        | 1409         | rVB6     | 36060          | 87302         | 1.02%           | 0.231%        |
| 34        | 11.490      | 1579          | 1586        | 1596         | rBV      | 418664         | 703550        | 8.21%           | 1.858%        |
| 35        | 11.593      | 1596          | 1603        | 1612         | rVB      | 922686         | 1467004       | 17.12%          | 3.874%        |
| 36        | 11.703      | 1612          | 1621        | 1631         | rBV      | 581247         | 1106729       | 12.92%          | 2.923%        |

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 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 A5-2-6.5

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\82Y020222S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 37 | 12.026 | 1664 | 1674 | 1682 | rVB  | 129091 | 231937  | 2.71%  | 0.613% |
| 38 | 12.331 | 1719 | 1724 | 1729 | rBV  | 63346  | 100522  | 1.17%  | 0.265% |
| 39 | 12.489 | 1743 | 1750 | 1759 | rVB2 | 917026 | 1652892 | 19.29% | 4.365% |
| 40 | 12.672 | 1772 | 1780 | 1785 | rVB  | 180289 | 275683  | 3.22%  | 0.728% |
| 41 | 12.733 | 1785 | 1790 | 1793 | rBV  | 236497 | 366951  | 4.28%  | 0.969% |
| 42 | 12.770 | 1793 | 1796 | 1799 | rVB  | 126212 | 152069  | 1.77%  | 0.402% |
| 43 | 12.813 | 1799 | 1803 | 1806 | rBV2 | 155425 | 230574  | 2.69%  | 0.609% |
| 44 | 12.971 | 1821 | 1829 | 1837 | rBV  | 253587 | 423113  | 4.94%  | 1.117% |
| 45 | 13.117 | 1847 | 1853 | 1859 | rVB  | 594001 | 895901  | 10.46% | 2.366% |
| 46 | 13.251 | 1866 | 1875 | 1878 | rBV3 | 39489  | 97429   | 1.14%  | 0.257% |
| 47 | 13.428 | 1897 | 1904 | 1906 | rVV  | 377069 | 641457  | 7.49%  | 1.694% |
| 48 | 13.453 | 1906 | 1908 | 1913 | rVV  | 466461 | 664984  | 7.76%  | 1.756% |
| 49 | 13.593 | 1925 | 1931 | 1932 | rBV  | 145304 | 183184  | 2.14%  | 0.484% |
| 50 | 13.623 | 1932 | 1936 | 1940 | rVV  | 634328 | 1026303 | 11.98% | 2.711% |
| 51 | 13.666 | 1940 | 1943 | 1952 | rVB4 | 241109 | 484751  | 5.66%  | 1.280% |
| 52 | 13.751 | 1952 | 1957 | 1962 | rBV2 | 165732 | 238254  | 2.78%  | 0.629% |
| 53 | 13.818 | 1962 | 1968 | 1973 | rBV2 | 107026 | 201544  | 2.35%  | 0.532% |
| 54 | 13.886 | 1974 | 1979 | 1982 | rBV2 | 128737 | 228248  | 2.66%  | 0.603% |
| 55 | 13.916 | 1982 | 1984 | 1988 | rVB  | 120172 | 133355  | 1.56%  | 0.352% |
| 56 | 13.971 | 1988 | 1993 | 1998 | rVB2 | 439900 | 657257  | 7.67%  | 1.736% |
| 57 | 14.081 | 2006 | 2011 | 2016 | rVB  | 247206 | 367988  | 4.30%  | 0.972% |
| 58 | 14.215 | 2027 | 2033 | 2037 | rBV3 | 80722  | 157238  | 1.84%  | 0.415% |
| 59 | 14.294 | 2042 | 2046 | 2050 | rVV  | 206242 | 375791  | 4.39%  | 0.992% |
| 60 | 14.337 | 2050 | 2053 | 2057 | rVV  | 147761 | 201017  | 2.35%  | 0.531% |
| 61 | 14.379 | 2057 | 2060 | 2064 | rVV2 | 103949 | 149313  | 1.74%  | 0.394% |
| 62 | 14.422 | 2064 | 2067 | 2072 | rVB3 | 65844  | 90281   | 1.05%  | 0.238% |
| 63 | 14.562 | 2086 | 2090 | 2095 | rVV  | 207557 | 349378  | 4.08%  | 0.923% |
| 64 | 14.611 | 2095 | 2098 | 2103 | rVB  | 185499 | 244917  | 2.86%  | 0.647% |
| 65 | 14.684 | 2103 | 2110 | 2115 | rBV3 | 348517 | 732149  | 8.55%  | 1.934% |
| 66 | 14.733 | 2115 | 2118 | 2125 | rVB3 | 112172 | 207320  | 2.42%  | 0.548% |
| 67 | 14.837 | 2130 | 2135 | 2139 | rVV  | 60225  | 87642   | 1.02%  | 0.231% |
| 68 | 14.946 | 2148 | 2153 | 2156 | rBV2 | 92859  | 139495  | 1.63%  | 0.368% |
| 69 | 15.056 | 2165 | 2171 | 2177 | rBV3 | 93688  | 194865  | 2.27%  | 0.515% |
| 70 | 15.233 | 2191 | 2200 | 2206 | rBV  | 373052 | 729427  | 8.51%  | 1.926% |
| 71 | 15.343 | 2213 | 2218 | 2223 | rBV5 | 63855  | 122832  | 1.43%  | 0.324% |
| 72 | 15.434 | 2229 | 2233 | 2241 | rVB3 | 93455  | 164148  | 1.92%  | 0.434% |
| 73 | 15.525 | 2241 | 2248 | 2255 | rBV2 | 67394  | 158465  | 1.85%  | 0.419% |
| 74 | 15.690 | 2268 | 2275 | 2278 | rVV5 | 36354  | 89419   | 1.04%  | 0.236% |
| 75 | 16.288 | 2367 | 2373 | 2381 | rVB  | 246653 | 479476  | 5.60%  | 1.266% |
| 76 | 16.489 | 2399 | 2406 | 2419 | rVB  | 137033 | 328070  | 3.83%  | 0.866% |

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

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\82Y020222S.M

Title : SW846 8260

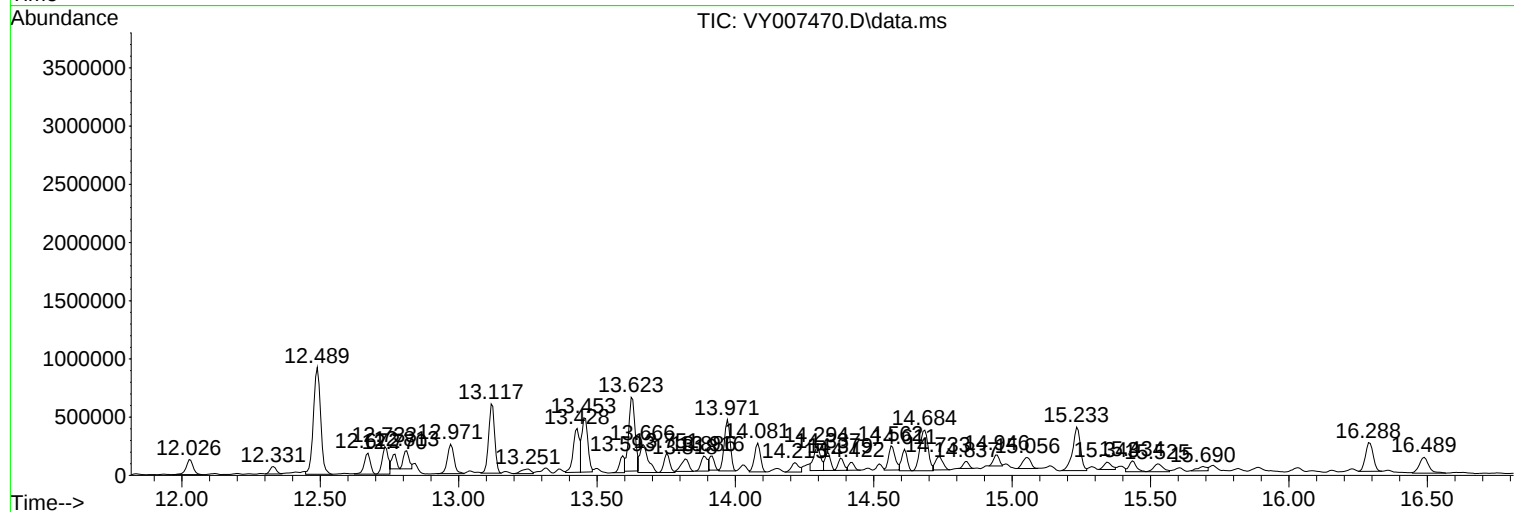
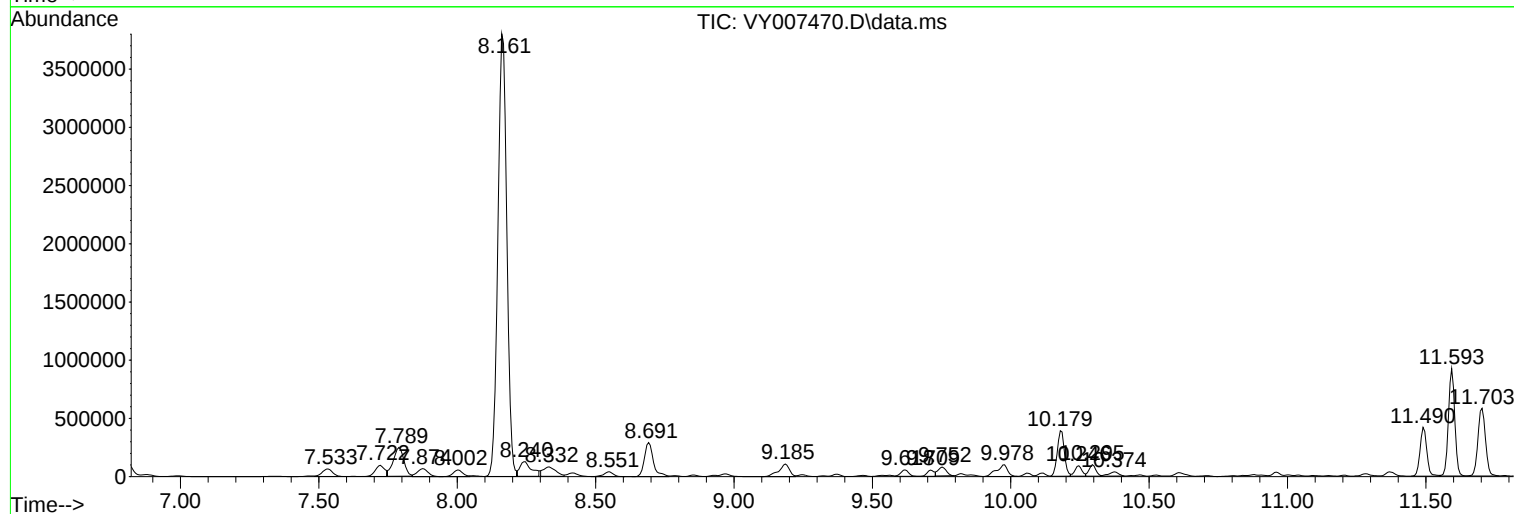
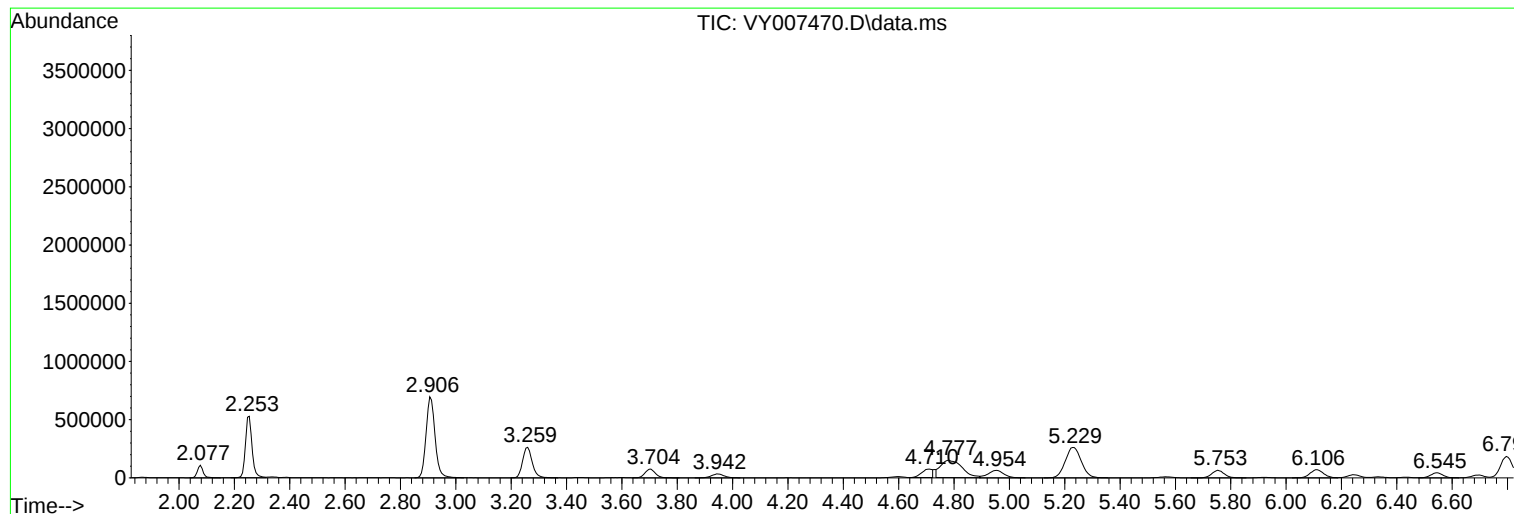
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Instrument :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

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



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ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

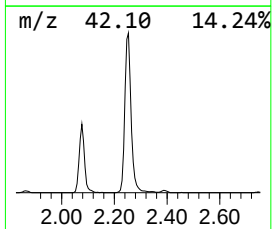
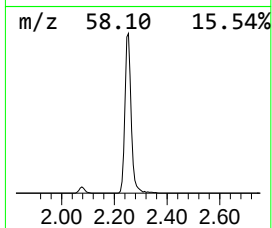
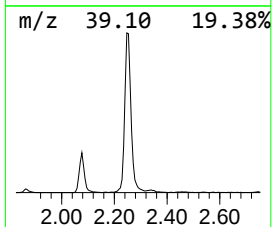
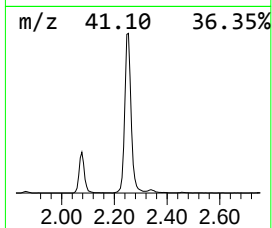
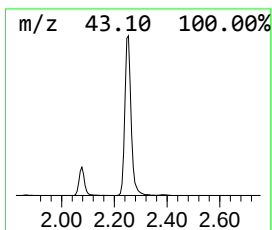
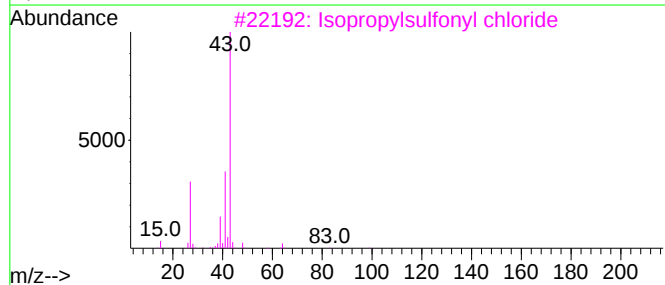
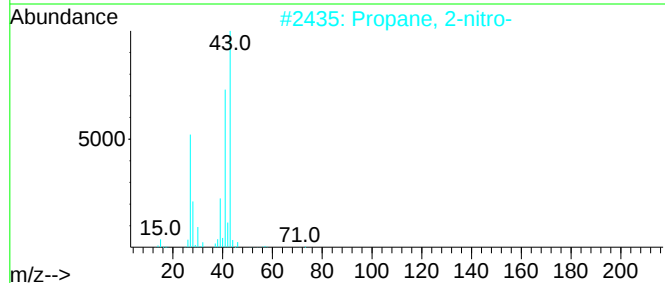
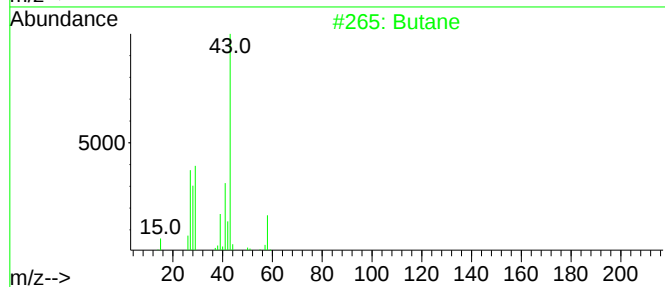
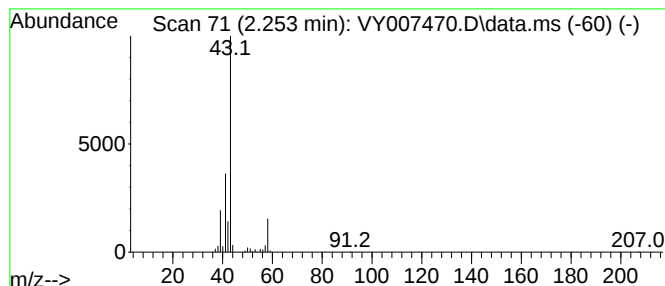
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 2.253 | 67.25 ug/l | 876260 | Pentafluorobenzene | 7.795 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm   | CAS#        | Qual |
|------|----|---|----------------------------|-----|-----------|-------------|------|
| 1    |    |   | Butane                     | 58  | C4H10     | 000106-97-8 | 72   |
| 2    |    |   | Propane, 2-nitro-          | 89  | C3H7NO2   | 000079-46-9 | 9    |
| 3    |    |   | Isopropylsulfonyl chloride | 142 | C3H7ClO2S | 010147-37-2 | 9    |
| 4    |    |   | Isobutane                  | 58  | C4H10     | 000075-28-5 | 9    |
| 5    |    |   | Propane, 1-nitro-          | 89  | C3H7NO2   | 000108-03-2 | 9    |



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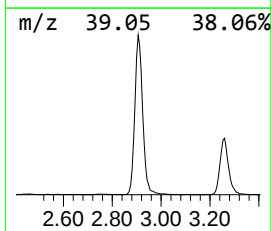
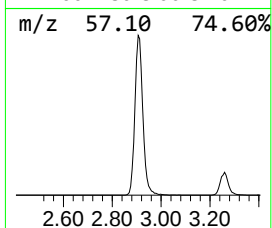
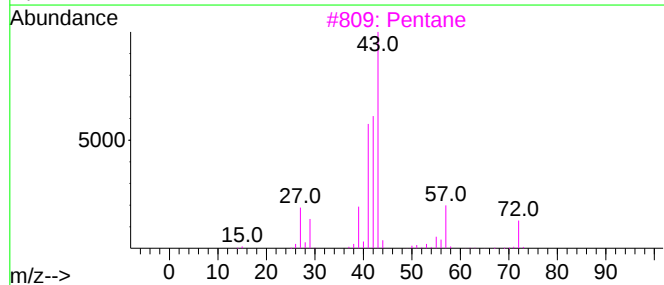
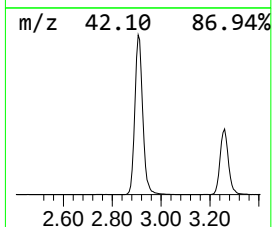
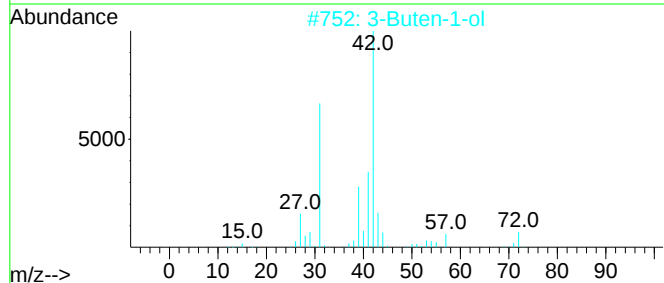
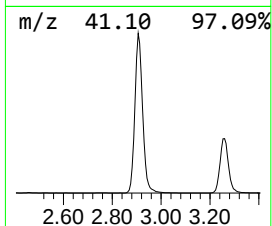
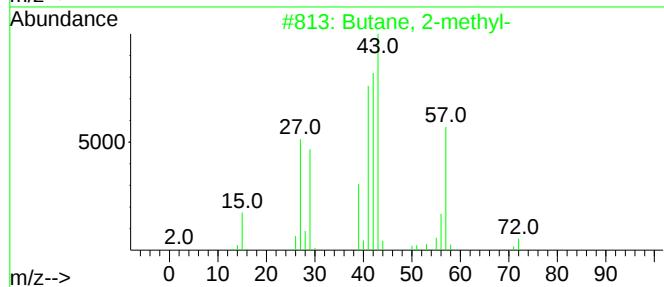
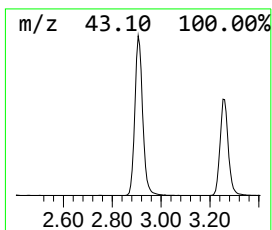
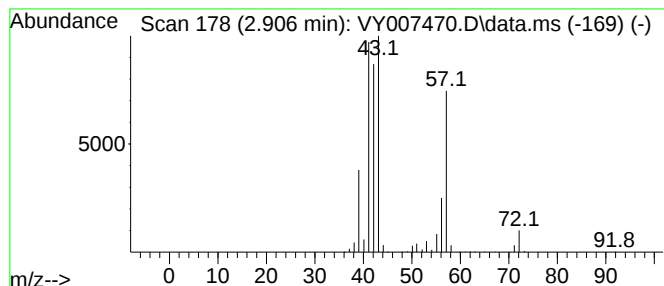
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Butane, 2-methyl- Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 2.906 | 119.53 ug/l | 1557360 | Pentafluorobenzene | 7.795 |

| Hit# | of | 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------|----|---------|-------------|------|
| 1    |    |   | Butane, 2-methyl-    | 72 | C5H12   | 000078-78-4 | 64   |
| 2    |    |   | 3-Buten-1-ol         | 72 | C4H8O   | 000627-27-0 | 38   |
| 3    |    |   | Pentane              | 72 | C5H12   | 000109-66-0 | 36   |
| 4    |    |   | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 27   |
| 5    |    |   | 1-Butene             | 56 | C4H8    | 000106-98-9 | 22   |



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Quant Title : SW846 8260

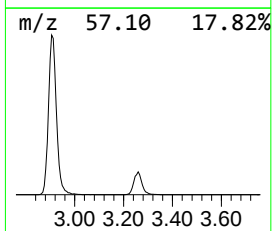
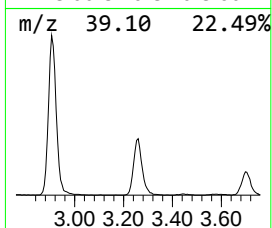
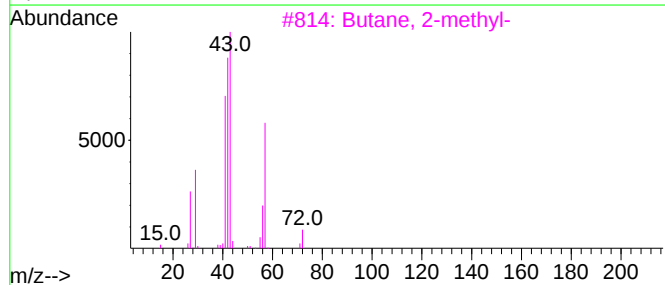
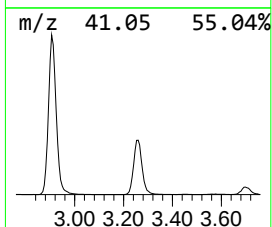
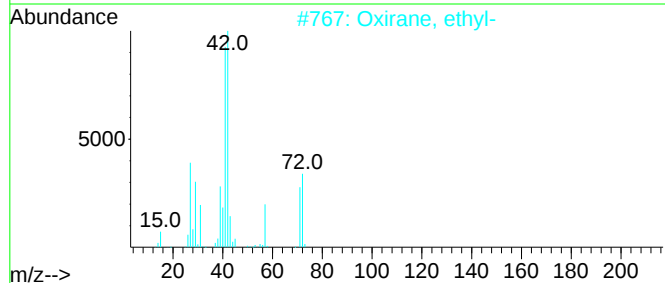
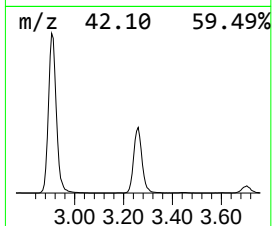
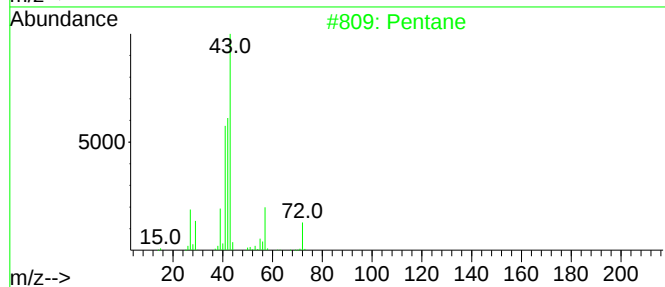
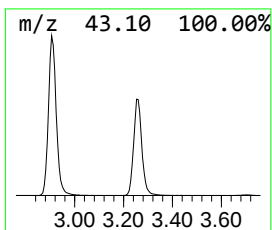
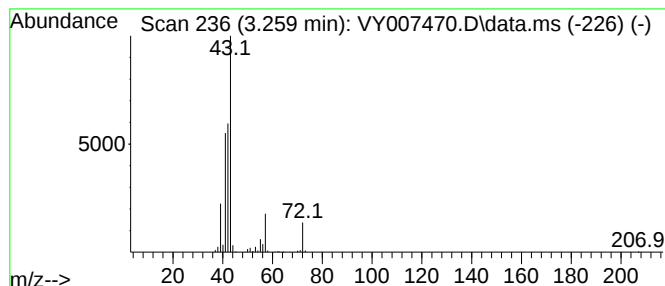
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Pentane Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 3.259 | 48.50 ug/l | 631948 | Pentafluorobenzene | 7.795 |

| Hit# | of | 5 | Tentative ID              | MW | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|----|---------|-------------|------|
| 1    |    |   | Pentane                   | 72 | C5H12   | 000109-66-0 | 91   |
| 2    |    |   | Oxirane, ethyl-           | 72 | C4H8O   | 000106-88-7 | 50   |
| 3    |    |   | Butane, 2-methyl-         | 72 | C5H12   | 000078-78-4 | 38   |
| 4    |    |   | Propanal, 2-methyl-       | 72 | C4H8O   | 000078-84-2 | 25   |
| 5    |    |   | Diaziridine,3,3-dimethyl- | 72 | C3H8N2  | 004901-76-2 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

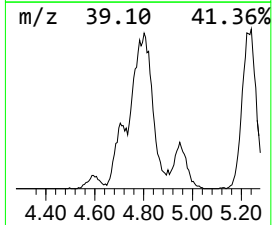
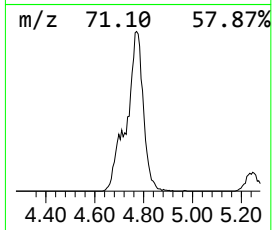
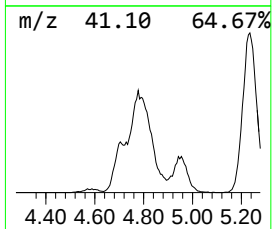
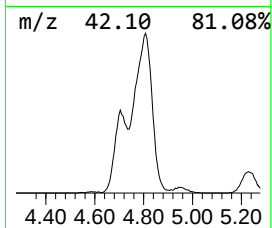
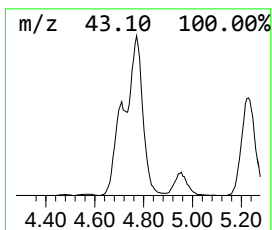
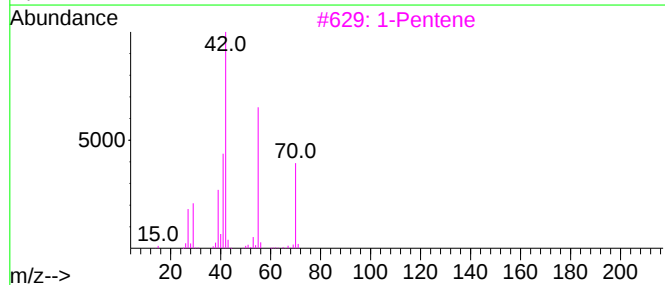
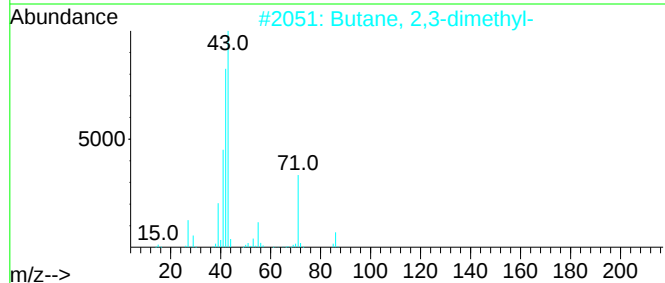
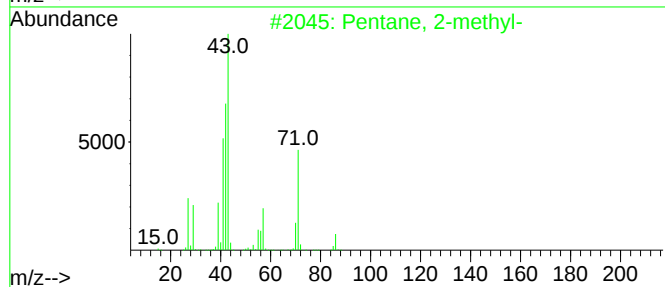
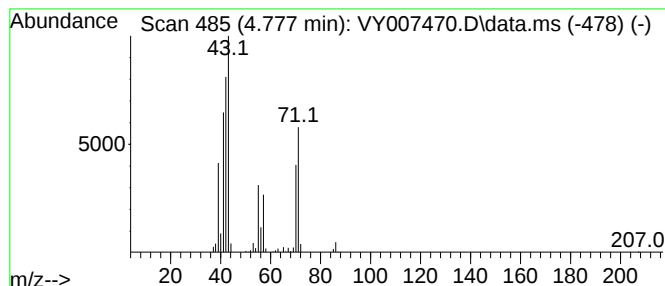
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Quant Title : SW846 8260

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

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Peak Number 4 Pentane, 2-methyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 4.777 | 61.80 ug/l | 805281 | Pentafluorobenzene | 7.795 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Pentane, 2-methyl-                  | 86  | C6H14    | 000107-83-5 | 70   |
| 2    |    |   | Butane, 2,3-dimethyl-               | 86  | C6H14    | 000079-29-8 | 43   |
| 3    |    |   | 1-Pentene                           | 70  | C5H10    | 000109-67-1 | 43   |
| 4    |    |   | Propanoic acid, 2-methyl-, 2-eth... | 200 | C12H24O2 | 035061-61-1 | 38   |
| 5    |    |   | 1-Hexene, 4,5-dimethyl-             | 112 | C8H16    | 016106-59-5 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

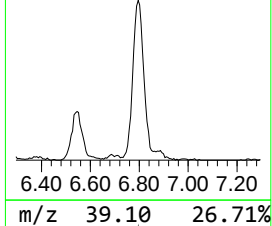
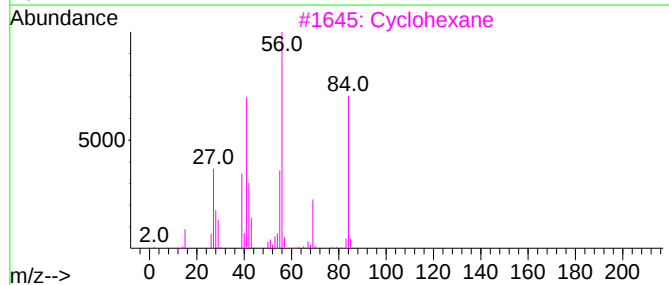
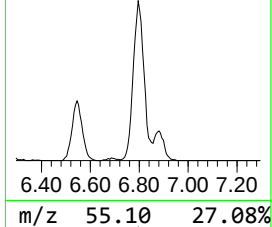
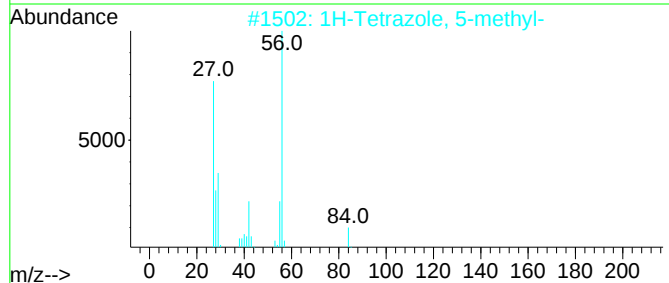
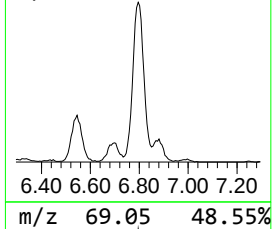
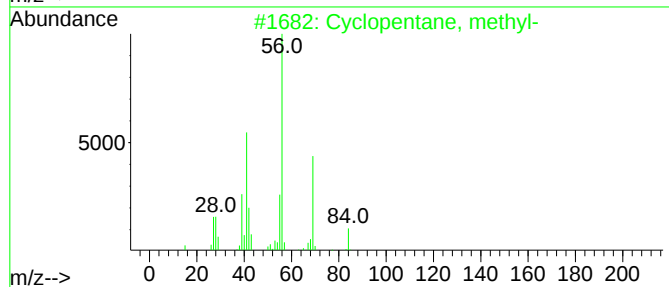
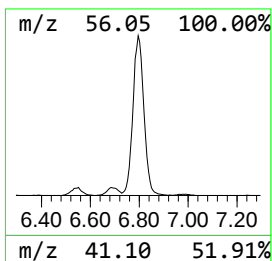
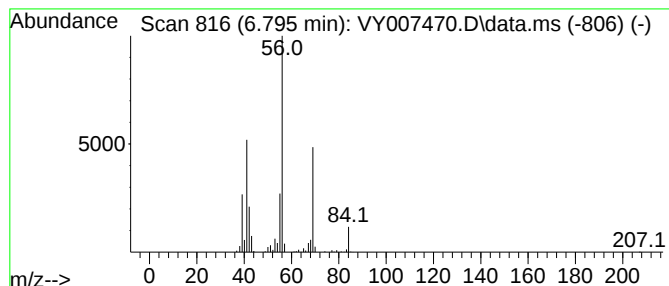
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Cyclopentane, methyl- Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 6.795 | 44.09 ug/l | 574456 | Pentafluorobenzene | 7.795 |

| Hit# | of | 5 | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|----|---------|-------------|------|
| 1    |    |   | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 94   |
| 2    |    |   | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4  | 004076-36-2 | 80   |
| 3    |    |   | Cyclohexane             | 84 | C6H12   | 000110-82-7 | 78   |
| 4    |    |   | Cyclobutane, ethyl-     | 84 | C6H12   | 004806-61-5 | 72   |
| 5    |    |   | Cyclobutane             | 56 | C4H8    | 000287-23-0 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

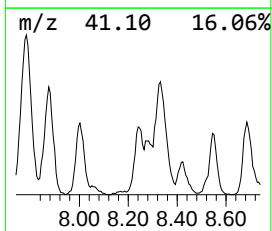
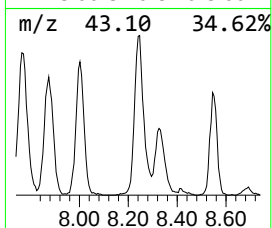
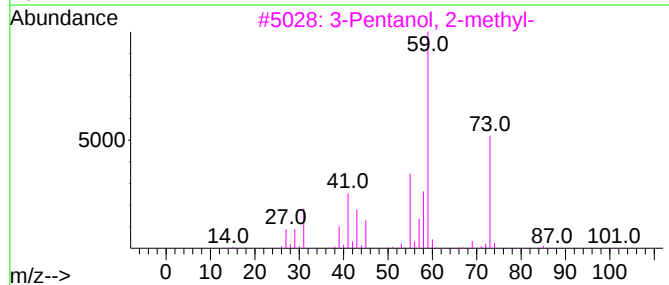
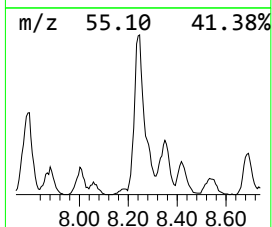
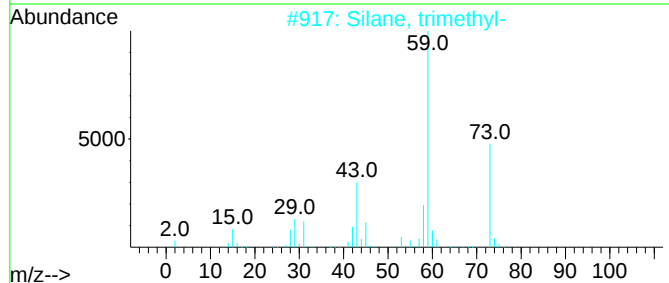
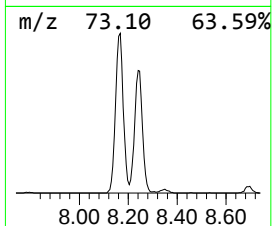
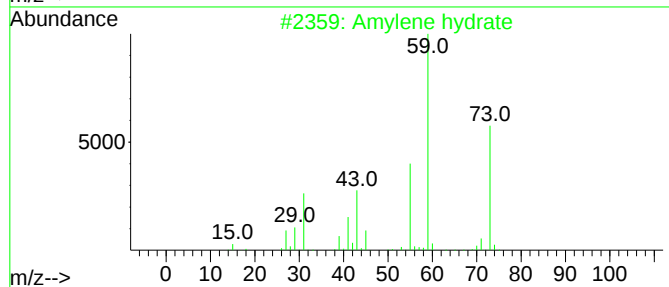
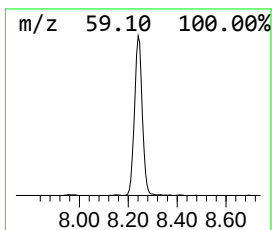
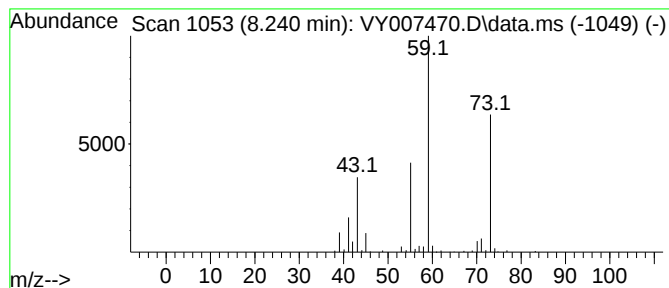
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Amylene hydrate Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 8.240 | 28.57 ug/l | 372283 | Pentafluorobenzene | 7.795 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Amylene hydrate       | 88  | C5H12O  | 000075-85-4 | 83   |
| 2    |    |   | Silane, trimethyl-    | 74  | C3H10Si | 000993-07-7 | 9    |
| 3    |    |   | 3-Pentanol, 2-methyl- | 102 | C6H14O  | 000565-67-3 | 9    |
| 4    |    |   | 3-Hexanol             | 102 | C6H14O  | 000623-37-0 | 9    |
| 5    |    |   | Silane, tetramethyl-  | 88  | C4H12Si | 000075-76-3 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

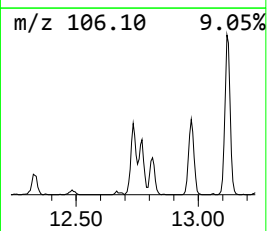
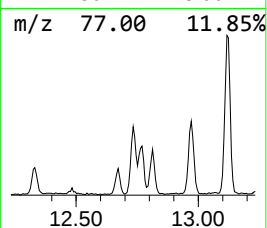
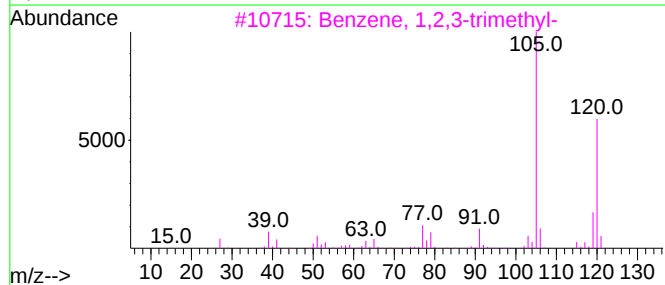
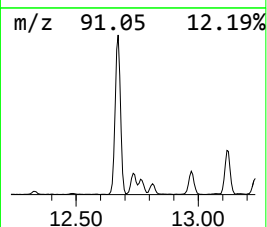
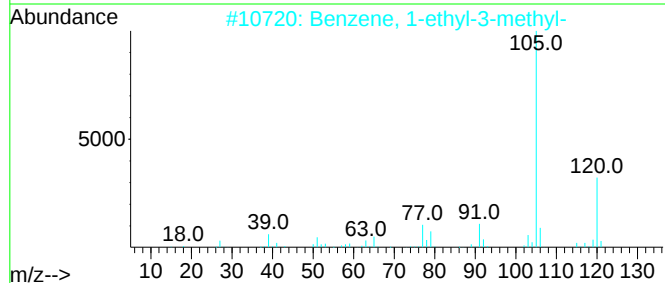
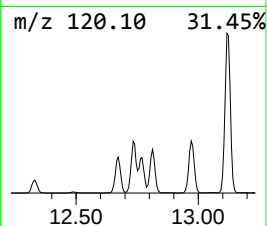
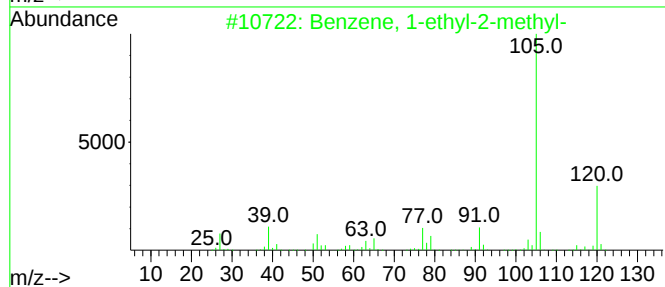
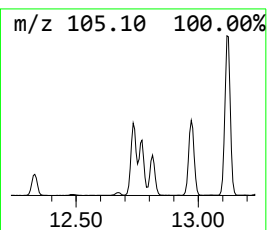
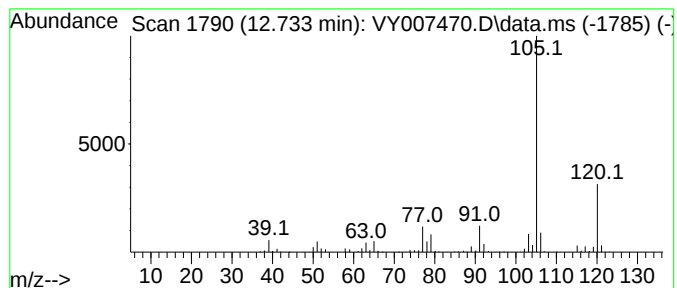
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 13

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.733 | 28.60 ug/l | 366951 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    |   | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 4    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    |   | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

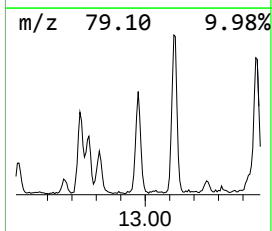
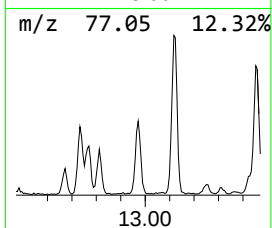
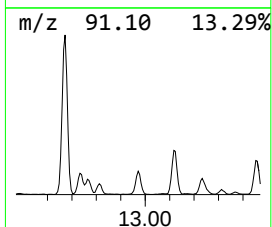
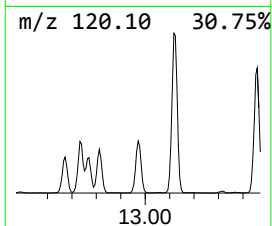
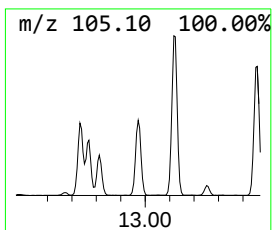
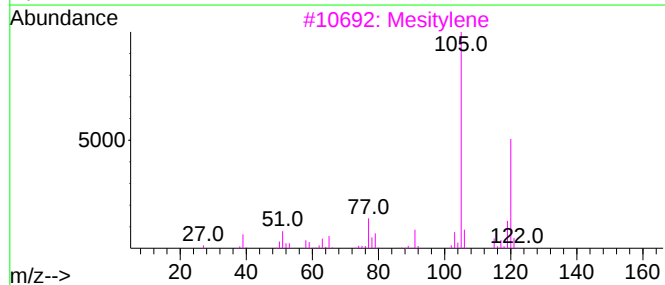
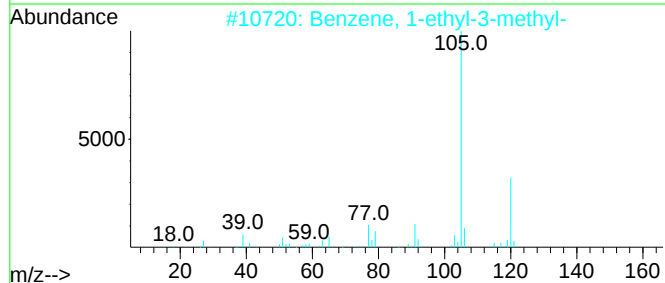
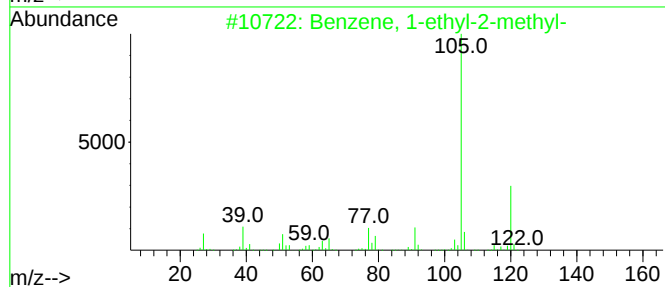
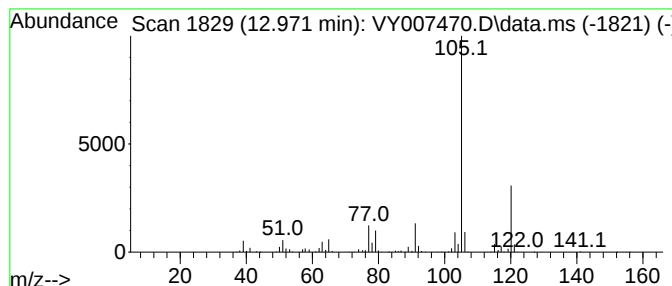
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Quant Title : SW846 8260

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

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Peak Number 8 Benzene, 1-ethyl-3-methyl- Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.971 | 32.98 ug/l | 423113 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    |   | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    |   | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

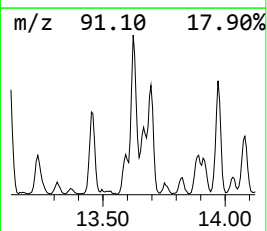
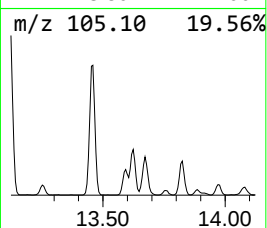
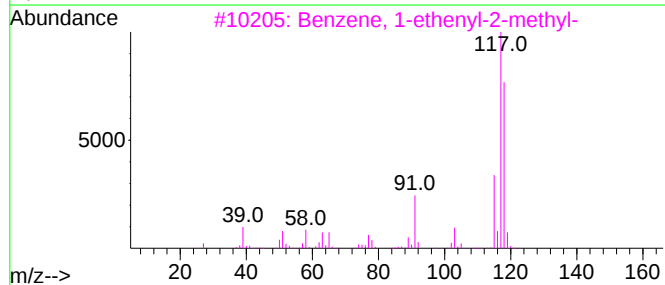
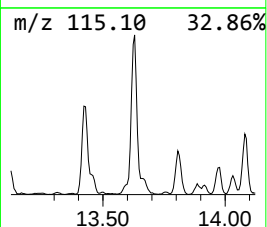
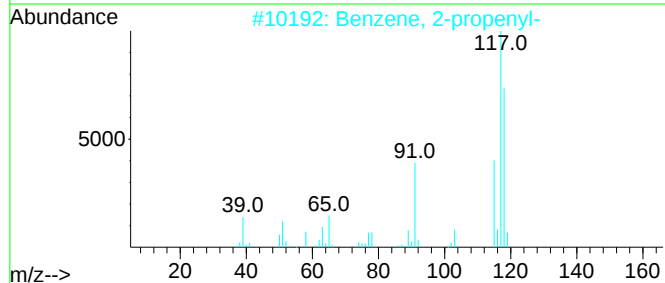
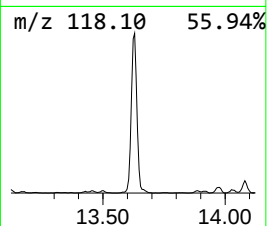
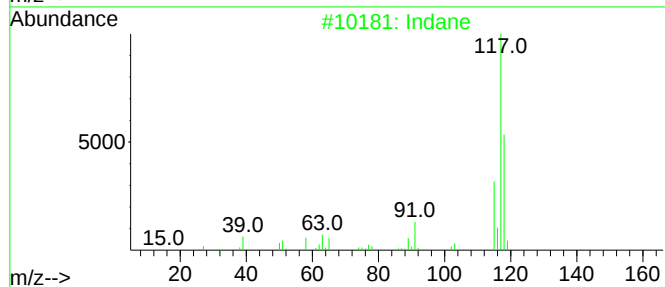
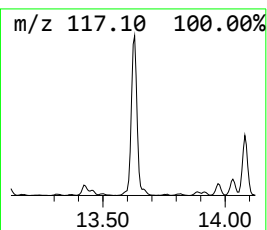
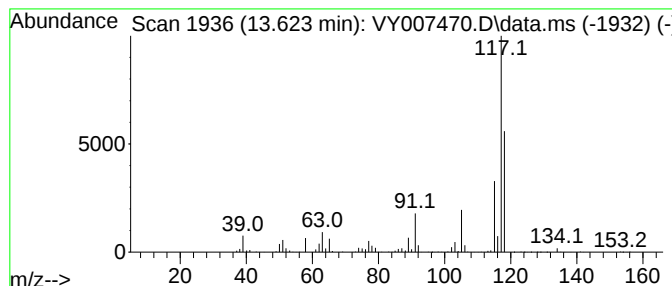
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Indane Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.623 | 80.00 ug/l | 1026300 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Indane                              | 118 | C9H10   | 000496-11-7  | 81   |
| 2    |    |   | Benzene, 2-propenyl-                | 118 | C9H10   | 000300-57-2  | 76   |
| 3    |    |   | Benzene, 1-ethenyl-2-methyl-        | 118 | C9H10   | 000611-15-4  | 70   |
| 4    |    |   | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10   | 1000191-13-7 | 64   |
| 5    |    |   | Benzene, cyclopropyl-               | 118 | C9H10   | 000873-49-4  | 62   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

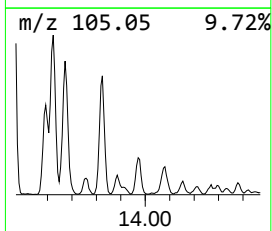
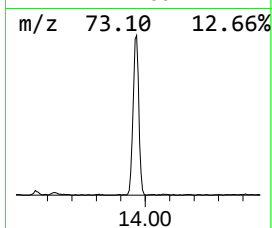
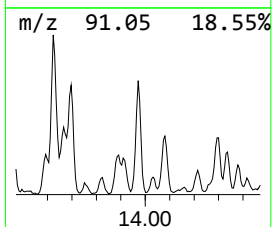
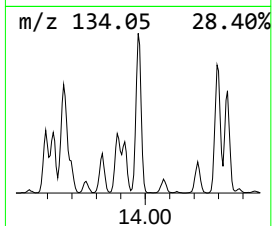
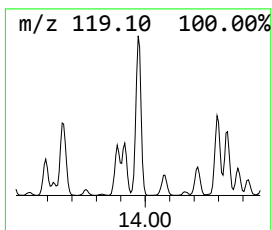
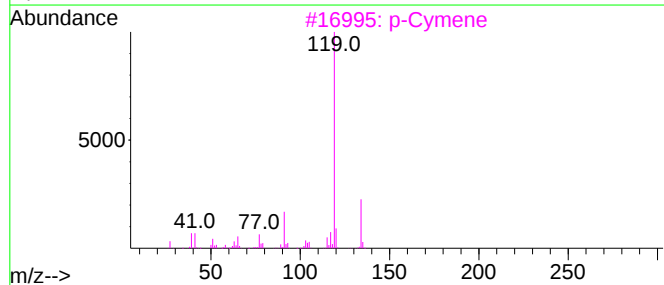
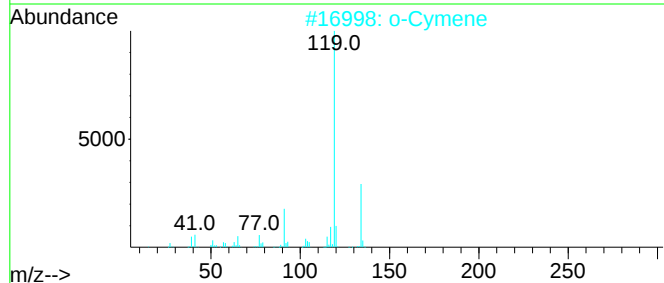
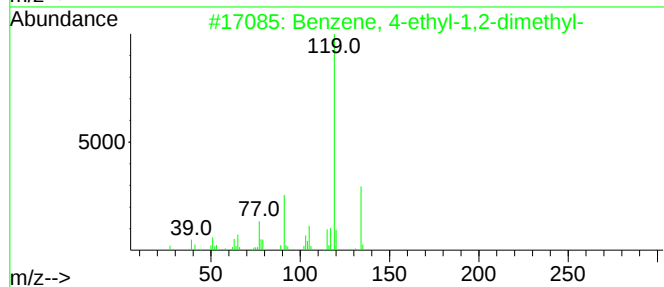
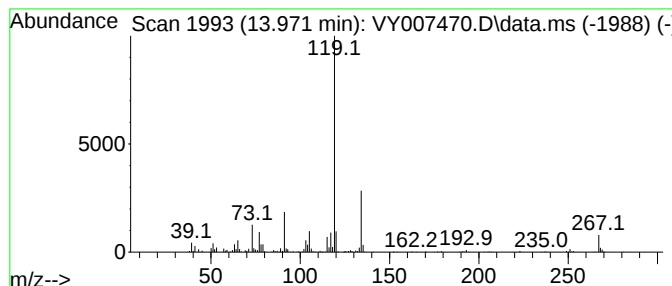
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Quant Title : SW846 8260

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

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Peak Number 10 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.971 | 51.23 ug/l | 657257 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 96   |
| 2    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 3    |    |   | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 95   |
| 4    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 94   |
| 5    |    |   | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

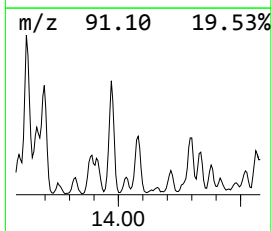
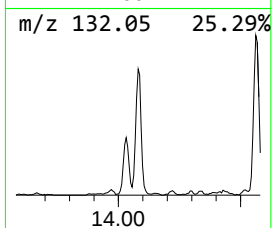
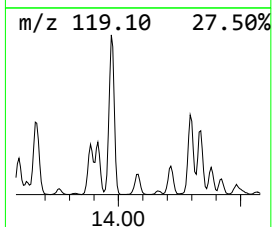
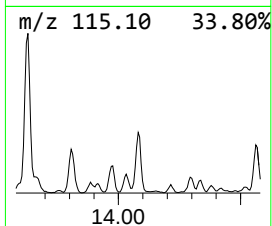
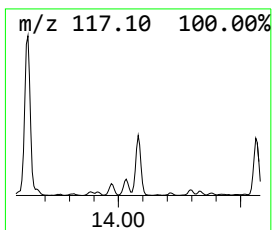
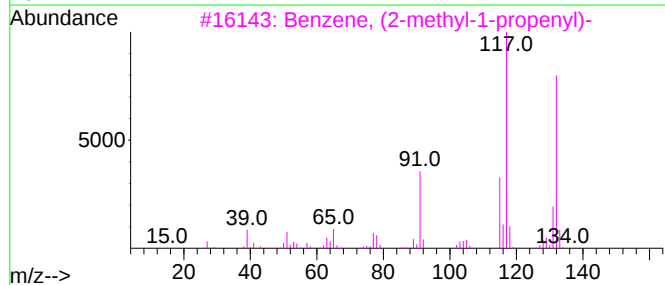
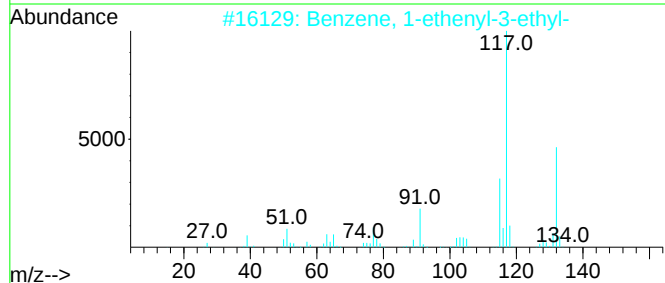
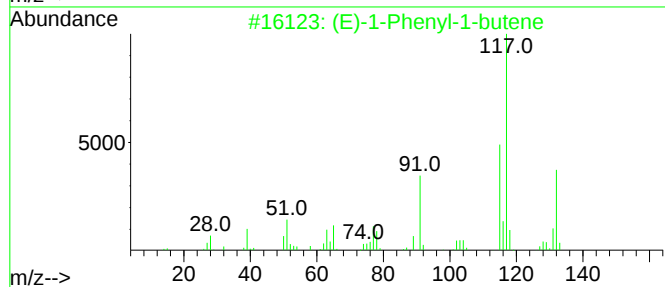
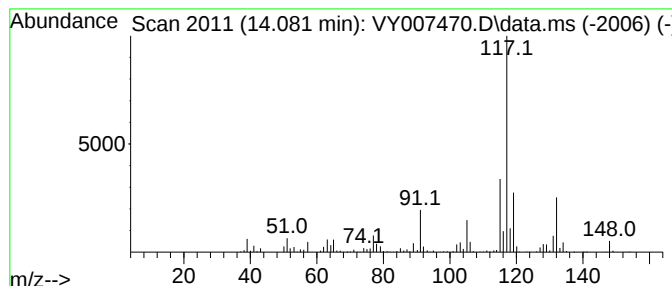
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Quant Title : SW846 8260

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

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Peak Number 11 (E)-1-Phenyl-1-butene Concentration Rank 12

| R.T.   | EstConc    | Area                              | Relative to ISTD       | R.T.           |
|--------|------------|-----------------------------------|------------------------|----------------|
| 14.081 | 28.68 ug/l | 367988                            | 1,4-Dichlorobenzene-d4 | 13.428         |
| Hit#   | of 5       | Tentative ID                      | MW MolForm             | CAS# Qual      |
| 1      |            | (E)-1-Phenyl-1-butene             | 132 C10H12             | 001005-64-7 90 |
| 2      |            | Benzene, 1-ethenyl-3-ethyl-       | 132 C10H12             | 007525-62-4 81 |
| 3      |            | Benzene, (2-methyl-1-propenyl)-   | 132 C10H12             | 000768-49-0 81 |
| 4      |            | Benzene, 1-methyl-2-(2-propenyl)- | 132 C10H12             | 001587-04-8 81 |
| 5      |            | 1-Methyl-2-phenylcyclopropane     | 132 C10H12             | 003145-76-4 76 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

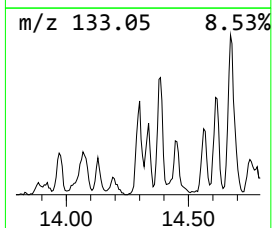
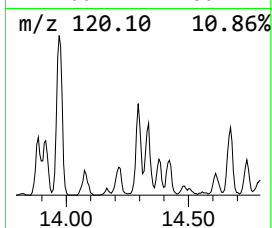
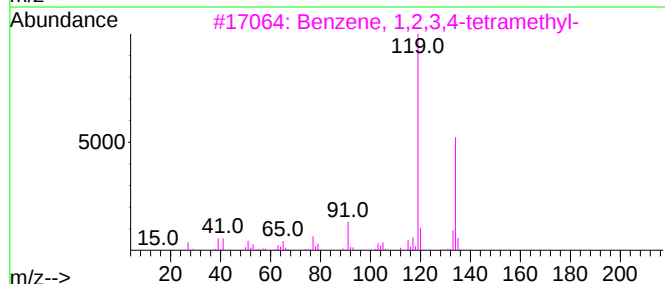
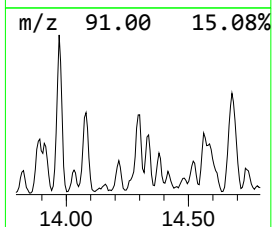
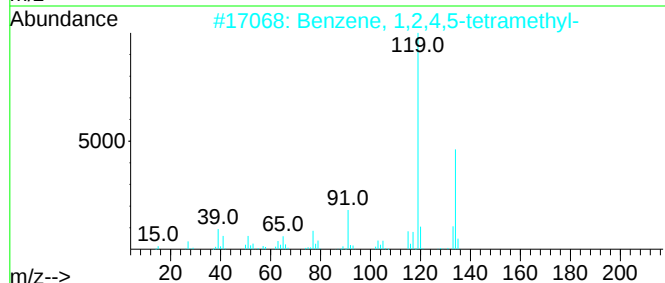
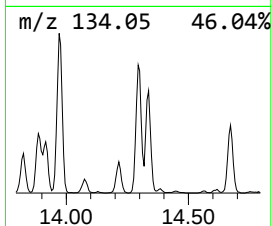
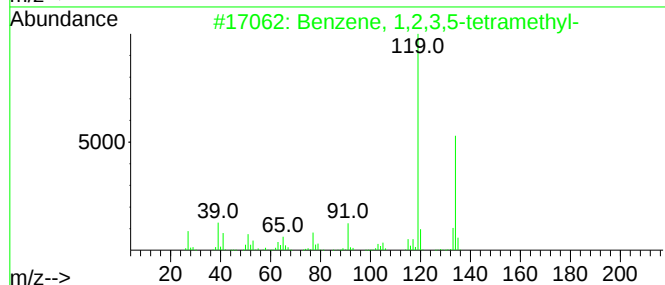
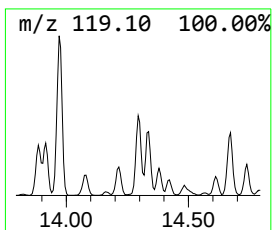
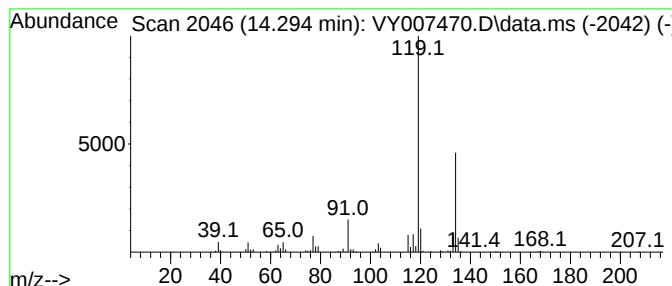
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 11

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.294 | 29.29 ug/l | 375791 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 95   |
| 2    |    |   | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 95   |
| 3    |    |   | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 95   |
| 4    |    |   | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 94   |
| 5    |    |   | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

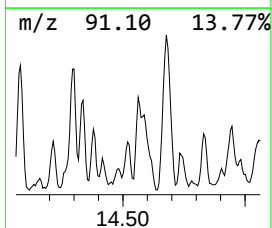
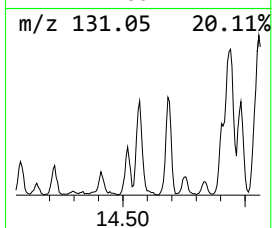
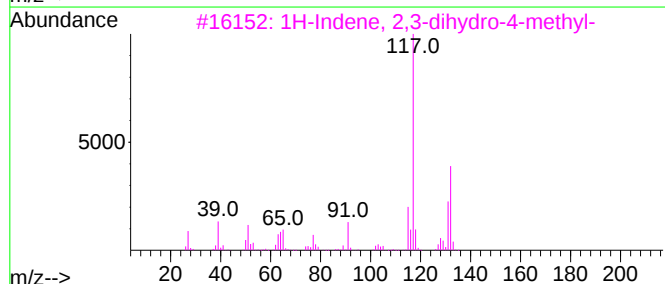
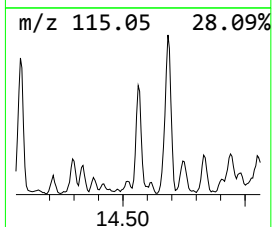
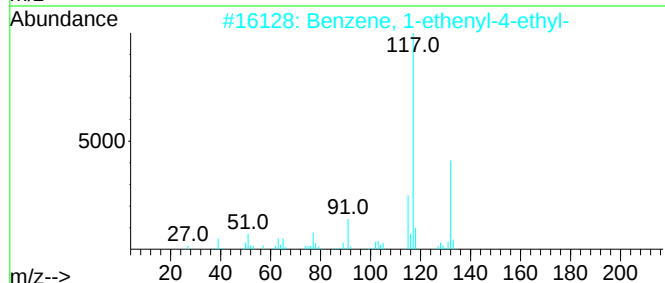
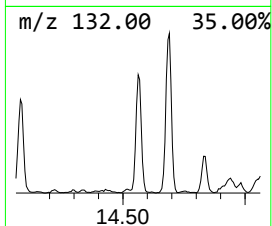
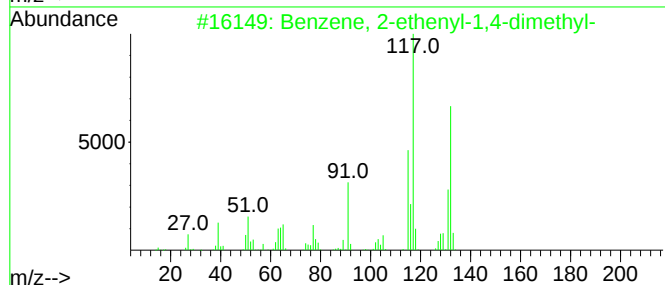
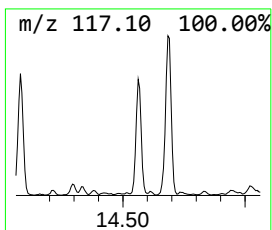
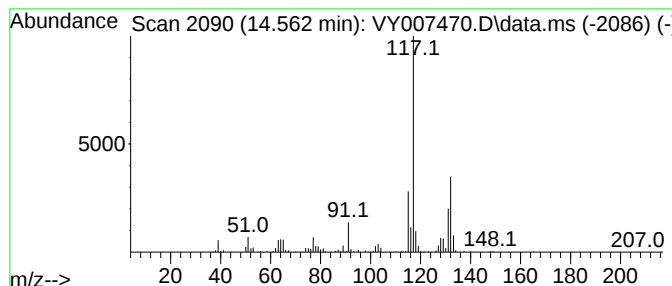
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 15

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.562 | 27.23 ug/l | 349378 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 93   |
| 2    |    |   | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 93   |
| 3    |    |   | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12  | 000824-22-6 | 91   |
| 4    |    |   | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 91   |
| 5    |    |   | Indan, 1-methyl-                 | 132 | C10H12  | 000767-58-8 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

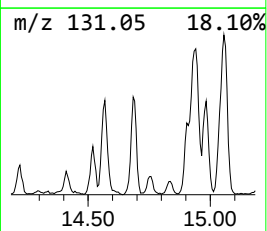
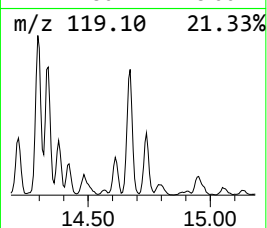
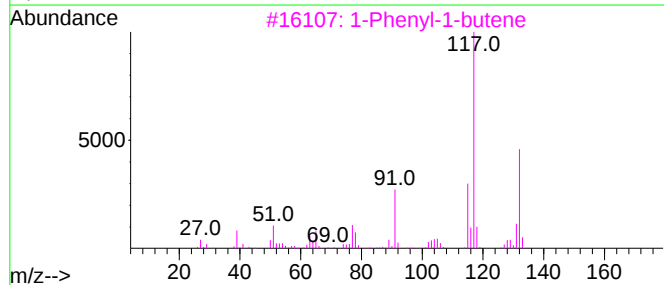
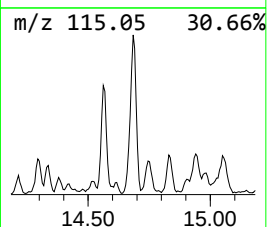
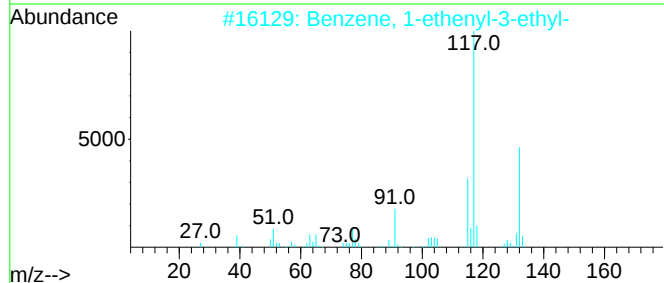
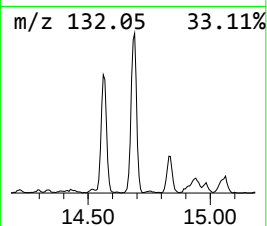
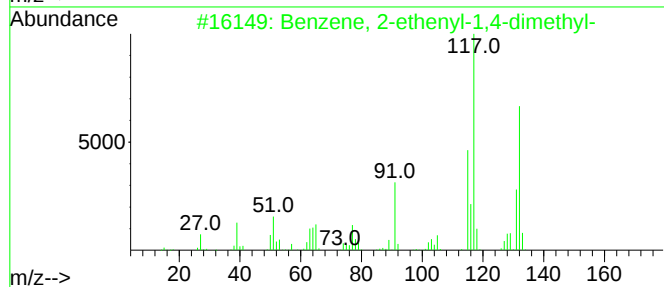
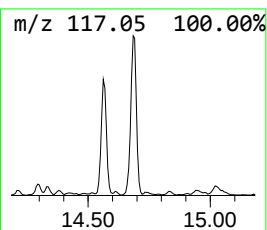
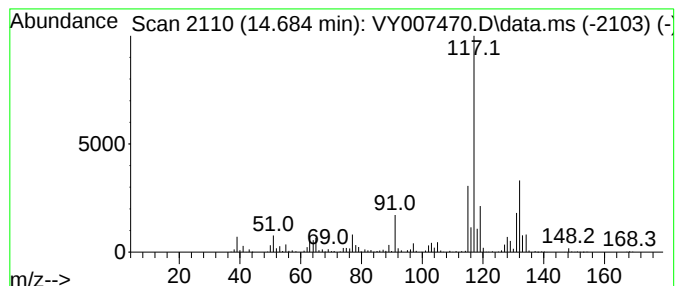
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Quant Title : SW846 8260

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

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Peak Number 14 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.684 | 57.07 ug/l | 732149 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 91   |
| 2    |    |   | Benzene, 1-ethenyl-3-ethyl-       | 132 | C10H12  | 007525-62-4 | 90   |
| 3    |    |   | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8 | 90   |
| 4    |    |   | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 87   |
| 5    |    |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

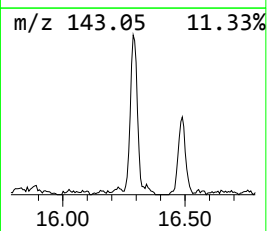
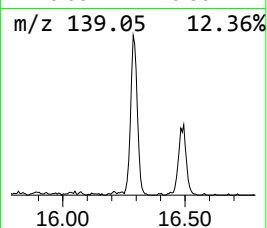
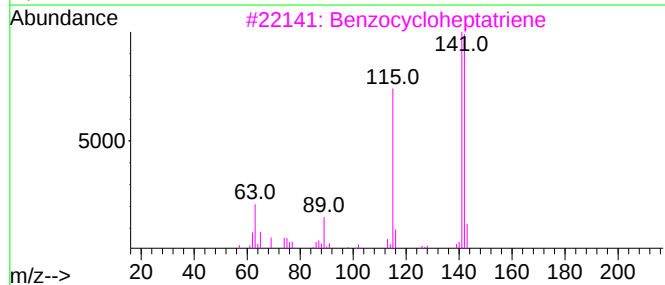
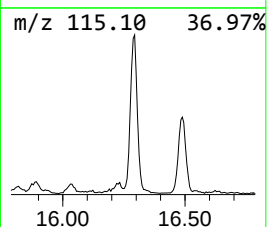
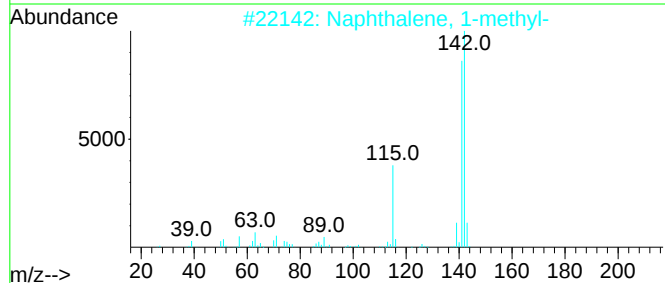
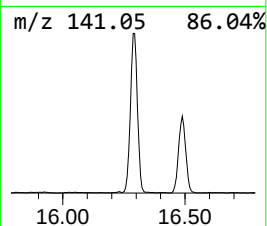
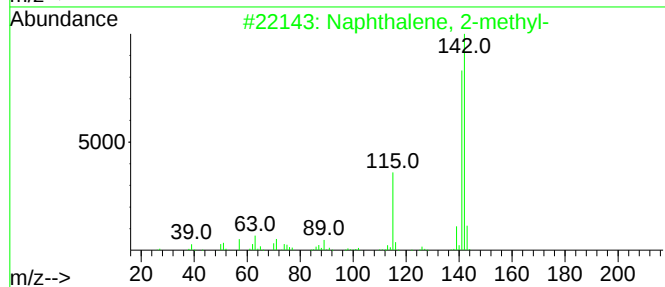
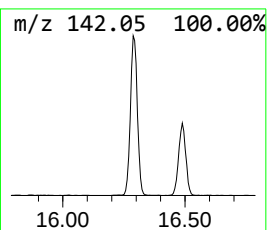
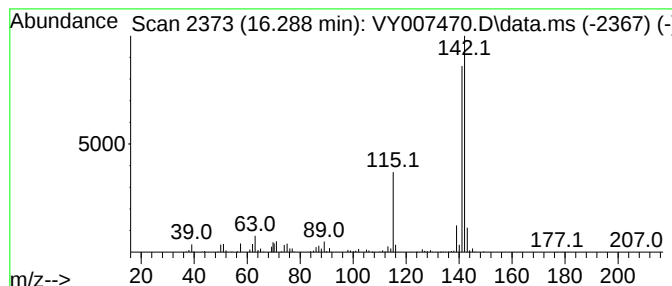
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 15 Naphthalene, 1-methyl- Concentration Rank 9

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.288 | 37.37 ug/l | 479476 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2    |    |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3    |    |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4    |    |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 5    |    |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021022\  
Data File : VY007470.D  
Acq On : 10 Feb 2022 14:37  
Operator : SY/MD  
Sample : N1465-02  
Misc : 6.42g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
A5-2-6.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Butane             | 2.253  | 67.3    | ug/l  | 876260   | 1                     | 7.795  | 651475 | 50.0 |
| Butane, 2-methyl-  | 2.906  | 119.5   | ug/l  | 1557360  | 1                     | 7.795  | 651475 | 50.0 |
| Pentane            | 3.259  | 48.5    | ug/l  | 631948   | 1                     | 7.795  | 651475 | 50.0 |
| Pentane, 2-methyl- | 4.777  | 61.8    | ug/l  | 805281   | 1                     | 7.795  | 651475 | 50.0 |
| Cyclopentane, m... | 6.795  | 44.1    | ug/l  | 574456   | 1                     | 7.795  | 651475 | 50.0 |
| Amylene hydrate    | 8.240  | 28.6    | ug/l  | 372283   | 1                     | 7.795  | 651475 | 50.0 |
| Benzene, 1-ethy... | 12.733 | 28.6    | ug/l  | 366951   | 4                     | 13.428 | 641457 | 50.0 |
| Benzene, 1-ethy... | 12.971 | 33.0    | ug/l  | 423113   | 4                     | 13.428 | 641457 | 50.0 |
| Indane             | 13.623 | 80.0    | ug/l  | 1026300  | 4                     | 13.428 | 641457 | 50.0 |
| Benzene, 4-ethy... | 13.971 | 51.2    | ug/l  | 657257   | 4                     | 13.428 | 641457 | 50.0 |
| (E)-1-Phenyl-1-... | 14.081 | 28.7    | ug/l  | 367988   | 4                     | 13.428 | 641457 | 50.0 |
| Benzene, 1,2,3,... | 14.294 | 29.3    | ug/l  | 375791   | 4                     | 13.428 | 641457 | 50.0 |
| Benzene, 2-ethe... | 14.562 | 27.2    | ug/l  | 349378   | 4                     | 13.428 | 641457 | 50.0 |
| Benzene, 1-ethe... | 14.684 | 57.1    | ug/l  | 732149   | 4                     | 13.428 | 641457 | 50.0 |
| Naphthalene, 1-... | 16.288 | 37.4    | ug/l  | 479476   | 4                     | 13.428 | 641457 | 50.0 |