

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
 Data File : VY006068.D  
 Acq On : 17 Sep 2021 14:05  
 Operator : SY/MD  
 Sample : M3770-03  
 Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SUP-VST-01-(13-15)

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\82Y091421S.M  
 Title : SW846 8260

Signal : TIC: VY006068.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         | 9.185       | 1193          | 1208        | 1215         | rBV2     | 942455         | 2134914       | 2.23%           | 0.271%        |
| 2         | 9.825       | 1307          | 1313        | 1325         | rVB2     | 1243132        | 2880680       | 3.01%           | 0.365%        |
| 3         | 9.965       | 1325          | 1336        | 1348         | rBV      | 1145791        | 2540289       | 2.66%           | 0.322%        |
| 4         | 10.179      | 1365          | 1371        | 1375         | rBV2     | 1569095        | 2861839       | 2.99%           | 0.363%        |
| 5         | 10.374      | 1394          | 1403        | 1410         | rVB2     | 1292462        | 2571172       | 2.69%           | 0.326%        |
| 6         | 10.526      | 1422          | 1428        | 1436         | rVB      | 905675         | 1653750       | 1.73%           | 0.210%        |
| 7         | 10.624      | 1436          | 1444        | 1448         | rBV2     | 514334         | 1103902       | 1.15%           | 0.140%        |
| 8         | 10.715      | 1455          | 1459        | 1465         | rVB      | 876491         | 1363976       | 1.43%           | 0.173%        |
| 9         | 10.807      | 1465          | 1474        | 1480         | rVB      | 1750908        | 2900584       | 3.03%           | 0.368%        |
| 10        | 10.910      | 1480          | 1491        | 1498         | rBV      | 1706008        | 3581212       | 3.74%           | 0.454%        |
| 11        | 10.977      | 1498          | 1502        | 1507         | rVV2     | 818963         | 1551259       | 1.62%           | 0.197%        |
| 12        | 11.038      | 1507          | 1512        | 1517         | rVV      | 2462718        | 4134655       | 4.32%           | 0.524%        |
| 13        | 11.093      | 1517          | 1521        | 1526         | rVV      | 2568292        | 4210925       | 4.40%           | 0.534%        |
| 14        | 11.209      | 1534          | 1540        | 1544         | rBV      | 2930003        | 4896392       | 5.12%           | 0.621%        |
| 15        | 11.282      | 1544          | 1552        | 1563         | rVB4     | 7482667        | 17985867      | 18.80%          | 2.281%        |
| 16        | 11.386      | 1563          | 1569        | 1579         | rBV      | 8882660        | 14133678      | 14.77%          | 1.793%        |
| 17        | 11.483      | 1579          | 1585        | 1590         | rBV2     | 788406         | 1547590       | 1.62%           | 0.196%        |
| 18        | 11.575      | 1595          | 1600        | 1605         | rBV3     | 893461         | 1673177       | 1.75%           | 0.212%        |
| 19        | 11.630      | 1605          | 1609        | 1612         | rBV      | 1242619        | 1746714       | 1.83%           | 0.222%        |
| 20        | 11.721      | 1612          | 1624        | 1626         | rBV2     | 9732427        | 20238282      | 21.16%          | 2.567%        |
| 21        | 11.782      | 1632          | 1634        | 1640         | rVB      | 4738062        | 6870041       | 7.18%           | 0.871%        |
| 22        | 11.898      | 1646          | 1653        | 1655         | rBV2     | 1487237        | 3526115       | 3.69%           | 0.447%        |
| 23        | 11.941      | 1655          | 1660        | 1664         | rVB2     | 8102055        | 12525778      | 13.09%          | 1.589%        |
| 24        | 12.014      | 1664          | 1672        | 1678         | rBV4     | 19451250       | 41895290      | 43.79%          | 5.314%        |
| 25        | 12.069      | 1678          | 1681        | 1684         | rVB2     | 3497869        | 3859144       | 4.03%           | 0.489%        |
| 26        | 12.136      | 1687          | 1692        | 1696         | rVB      | 23843912       | 33793664      | 35.33%          | 4.286%        |
| 27        | 12.209      | 1696          | 1704        | 1706         | rBV3     | 15117570       | 27375556      | 28.62%          | 3.472%        |
| 28        | 12.252      | 1706          | 1711        | 1717         | rVB3     | 23301951       | 44765197      | 46.79%          | 5.678%        |
| 29        | 12.331      | 1721          | 1724        | 1726         | rBV3     | 1466668        | 1683192       | 1.76%           | 0.213%        |
| 30        | 12.386      | 1726          | 1733        | 1736         | rBV3     | 17828175       | 41897317      | 43.80%          | 5.314%        |
| 31        | 12.422      | 1736          | 1739        | 1742         | rBV      | 16222536       | 18534638      | 19.37%          | 2.351%        |
| 32        | 12.501      | 1748          | 1752        | 1754         | rBV5     | 4078551        | 6129089       | 6.41%           | 0.777%        |
| 33        | 12.532      | 1754          | 1757        | 1761         | rVV      | 19737603       | 24937043      | 26.07%          | 3.163%        |
| 34        | 12.581      | 1761          | 1765        | 1769         | rVV3     | 4575447        | 7687604       | 8.04%           | 0.975%        |
| 35        | 12.623      | 1769          | 1772        | 1773         | rVV      | 2240264        | 2808690       | 2.94%           | 0.356%        |
| 36        | 12.654      | 1773          | 1777        | 1784         | rVB3     | 13387676       | 29040511      | 30.36%          | 3.683%        |

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 Sample : M3770-03  
 Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SUP-VST-01-(13-15)

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\82Y091421S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 37 | 12.739 | 1784 | 1791 | 1794 | rBV5 | 8403262  | 16671606 | 17.43%  | 2.114%  |
| 38 | 12.812 | 1794 | 1803 | 1809 | rVV3 | 51128948 | 95664353 | 100.00% | 12.133% |
| 39 | 12.867 | 1809 | 1812 | 1818 | rVB  | 11902403 | 17213727 | 17.99%  | 2.183%  |
| 40 | 12.959 | 1822 | 1827 | 1831 | rBV2 | 11871040 | 19520534 | 20.41%  | 2.476%  |
| 41 | 13.007 | 1831 | 1835 | 1838 | rVV3 | 8130413  | 13039283 | 13.63%  | 1.654%  |
| 42 | 13.044 | 1838 | 1841 | 1848 | rVB  | 23977337 | 35580968 | 37.19%  | 4.513%  |
| 43 | 13.123 | 1848 | 1854 | 1859 | rVB2 | 26025750 | 41325001 | 43.20%  | 5.241%  |
| 44 | 13.172 | 1859 | 1862 | 1867 | rVB2 | 6723026  | 8686612  | 9.08%   | 1.102%  |
| 45 | 13.233 | 1867 | 1872 | 1874 | rBV2 | 5460818  | 9710989  | 10.15%  | 1.232%  |
| 46 | 13.324 | 1879 | 1887 | 1891 | rBV3 | 17636975 | 31872641 | 33.32%  | 4.042%  |
| 47 | 13.367 | 1891 | 1894 | 1898 | rVV2 | 10950712 | 14617183 | 15.28%  | 1.854%  |
| 48 | 13.404 | 1898 | 1900 | 1902 | rVV  | 3527298  | 3232778  | 3.38%   | 0.410%  |
| 49 | 13.434 | 1902 | 1905 | 1908 | rVB  | 2523644  | 2395108  | 2.50%   | 0.304%  |
| 50 | 13.507 | 1913 | 1917 | 1923 | rVB3 | 3655635  | 5954585  | 6.22%   | 0.755%  |
| 51 | 13.599 | 1924 | 1932 | 1934 | rBV3 | 2890504  | 5378016  | 5.62%   | 0.682%  |
| 52 | 13.623 | 1934 | 1936 | 1940 | rVB  | 4301396  | 4881733  | 5.10%   | 0.619%  |
| 53 | 13.672 | 1940 | 1944 | 1952 | rVB4 | 8066381  | 16000271 | 16.73%  | 2.029%  |
| 54 | 13.751 | 1952 | 1957 | 1962 | rBV2 | 8558296  | 13215297 | 13.81%  | 1.676%  |
| 55 | 13.824 | 1966 | 1969 | 1972 | rVB  | 1154068  | 1386686  | 1.45%   | 0.176%  |
| 56 | 13.885 | 1976 | 1979 | 1981 | rVV  | 2053336  | 2597096  | 2.71%   | 0.329%  |
| 57 | 13.916 | 1981 | 1984 | 1989 | rVB3 | 3342714  | 4975026  | 5.20%   | 0.631%  |
| 58 | 13.971 | 1989 | 1993 | 1998 | rVB  | 4487909  | 6454760  | 6.75%   | 0.819%  |
| 59 | 14.080 | 2005 | 2011 | 2016 | rVB3 | 2850476  | 4661314  | 4.87%   | 0.591%  |
| 60 | 14.135 | 2016 | 2020 | 2027 | rVB6 | 958958   | 2379153  | 2.49%   | 0.302%  |
| 61 | 14.215 | 2027 | 2033 | 2037 | rBV4 | 870220   | 1820817  | 1.90%   | 0.231%  |
| 62 | 14.269 | 2037 | 2042 | 2044 | rBV2 | 1116615  | 1875908  | 1.96%   | 0.238%  |
| 63 | 14.336 | 2050 | 2053 | 2057 | rVB  | 1180321  | 1519707  | 1.59%   | 0.193%  |
| 64 | 14.379 | 2057 | 2060 | 2064 | rBV2 | 930746   | 1290994  | 1.35%   | 0.164%  |
| 65 | 14.672 | 2103 | 2108 | 2115 | rBV3 | 766857   | 1486354  | 1.55%   | 0.189%  |

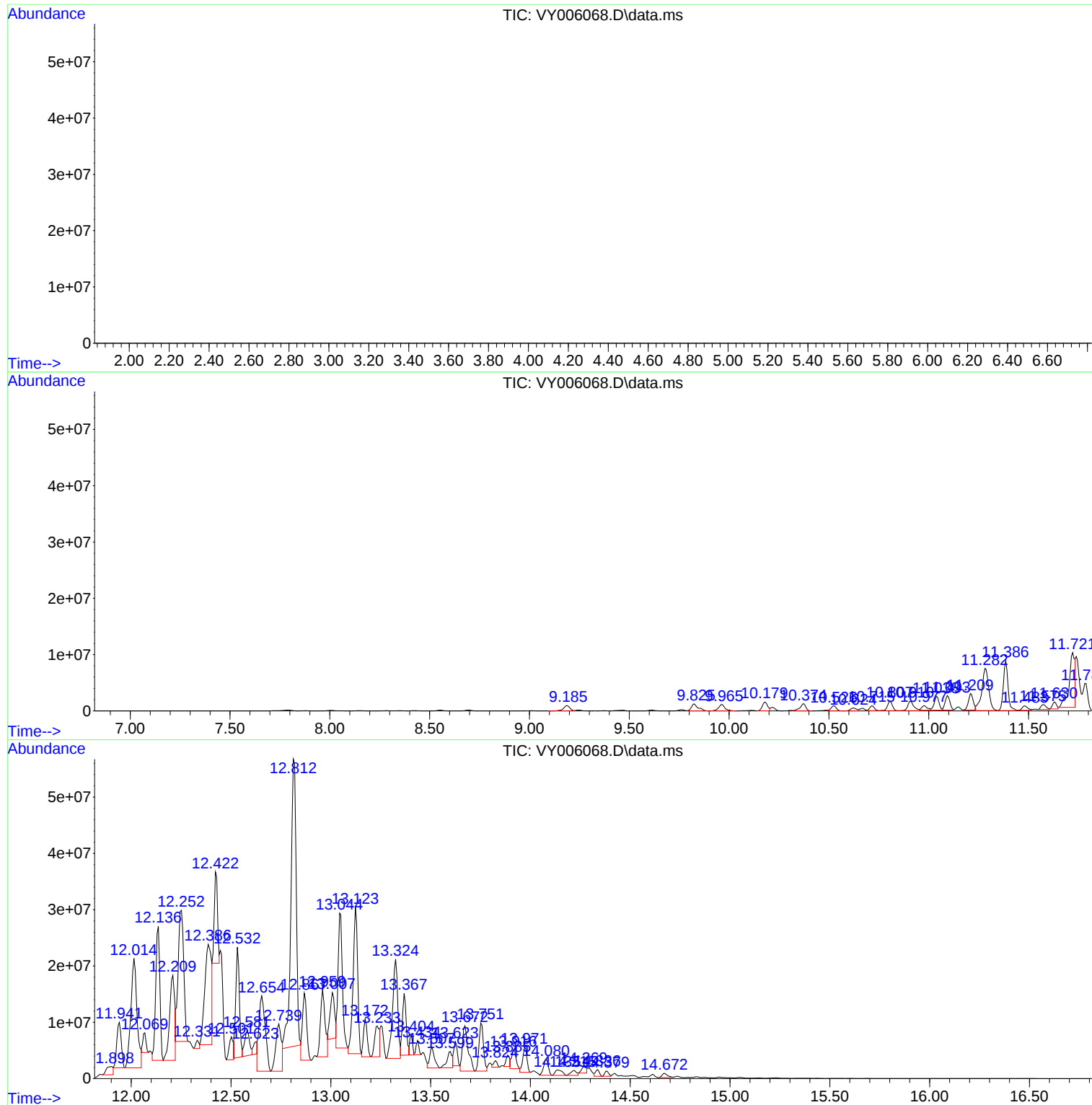
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Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

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



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Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

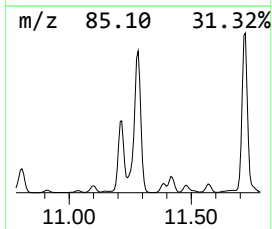
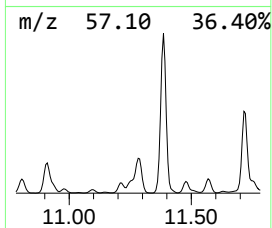
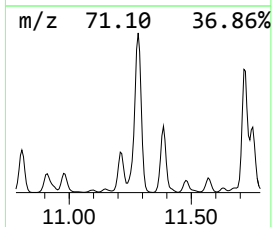
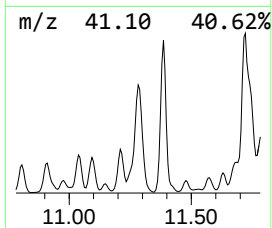
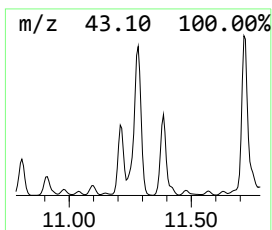
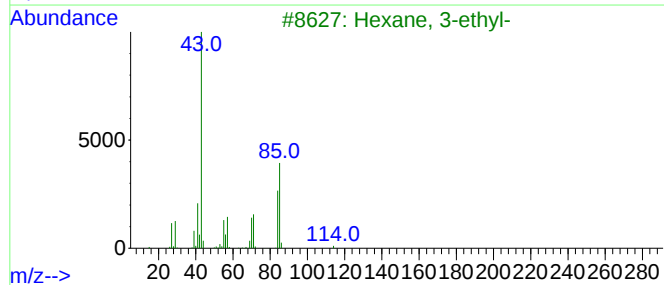
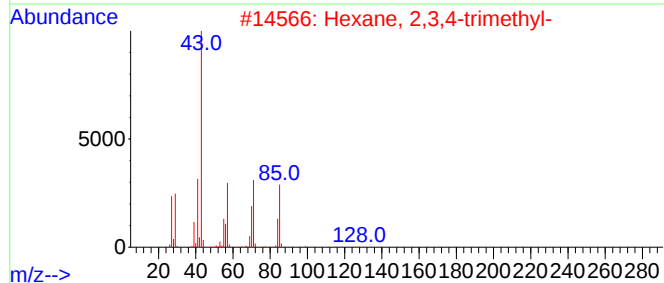
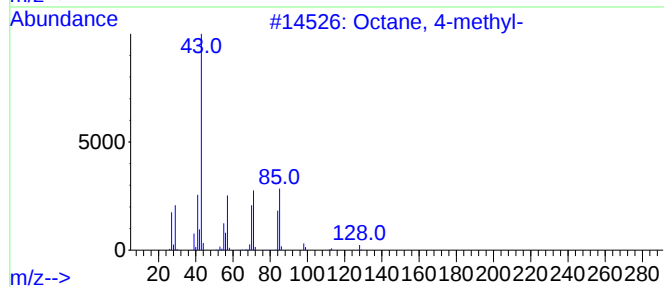
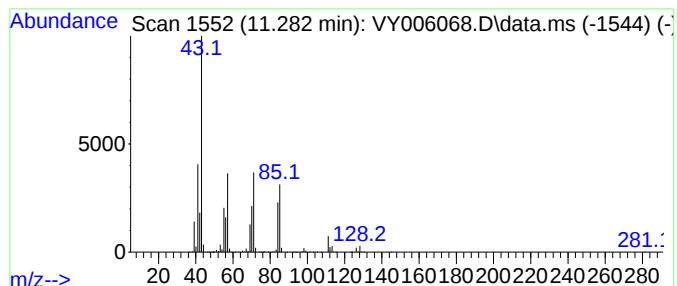
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Octane, 4-methyl- Concentration Rank 5

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.282 | 581.09 ug/l | 17985900 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 4-methyl-        | 128 | C9H20   | 002216-34-4 | 90   |
| 2    |    |   | Hexane, 2,3,4-trimethyl- | 128 | C9H20   | 000921-47-1 | 72   |
| 3    |    |   | Hexane, 3-ethyl-         | 114 | C8H18   | 000619-99-8 | 72   |
| 4    |    |   | Heptane, 2,4-dimethyl-   | 128 | C9H20   | 002213-23-2 | 64   |
| 5    |    |   | Octane                   | 114 | C8H18   | 000111-65-9 | 59   |



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Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

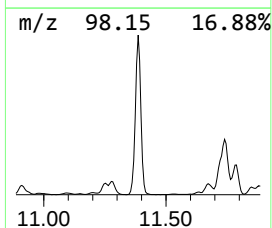
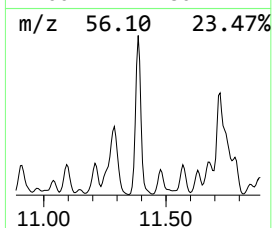
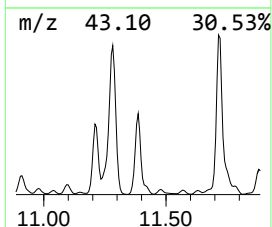
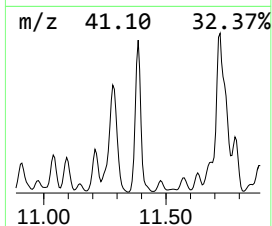
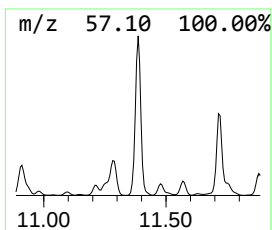
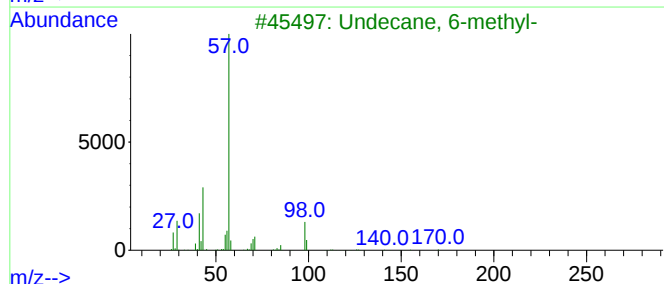
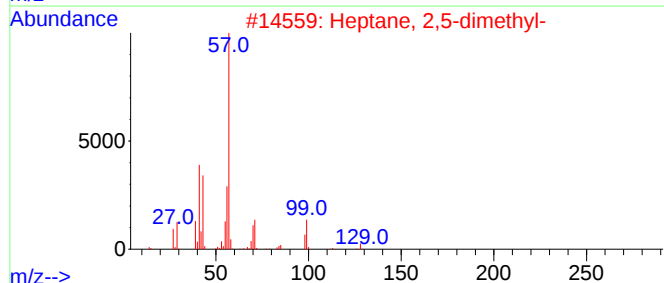
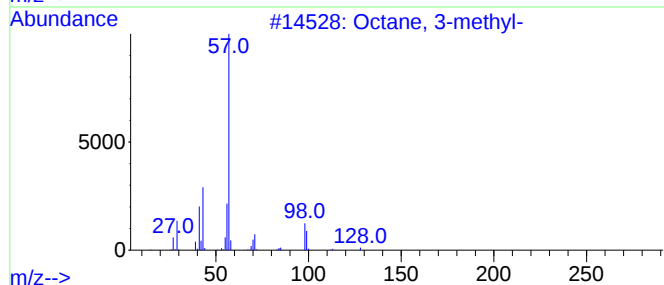
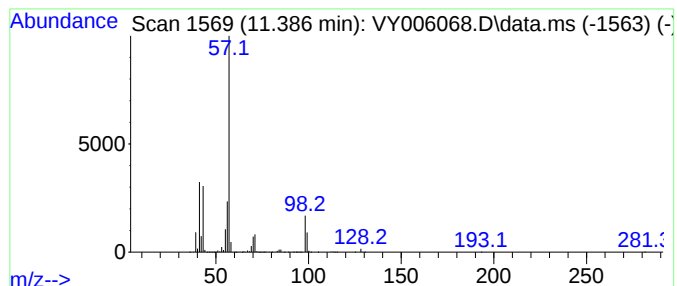
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Octane, 3-methyl- Concentration Rank 7

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.386 | 456.63 ug/l | 14133700 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 3-methyl-      | 128 | C9H20   | 002216-33-3 | 91   |
| 2    |    |   | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 81   |
| 3    |    |   | Undecane, 6-methyl-    | 170 | C12H26  | 017302-33-9 | 50   |
| 4    |    |   | Heptane, 3-ethyl-      | 128 | C9H20   | 015869-80-4 | 50   |
| 5    |    |   | Heptane, 3,5-dimethyl- | 128 | C9H20   | 000926-82-9 | 49   |



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MSVOA\_Y  
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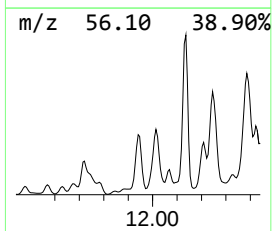
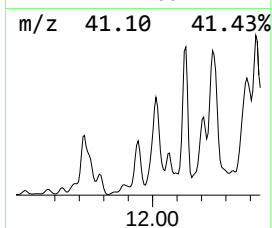
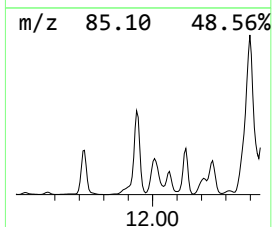
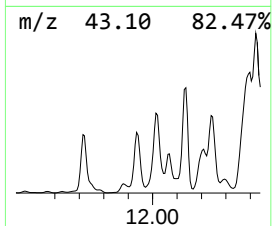
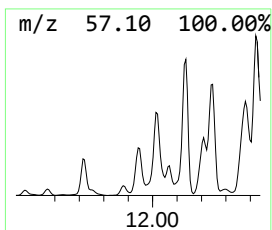
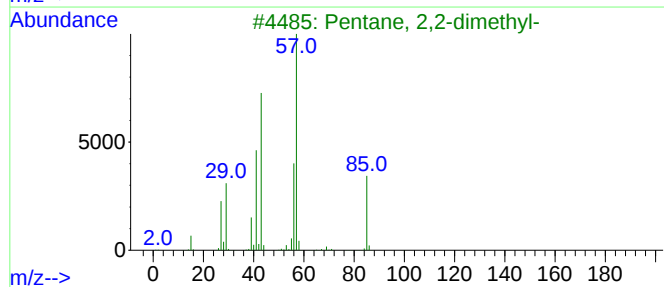
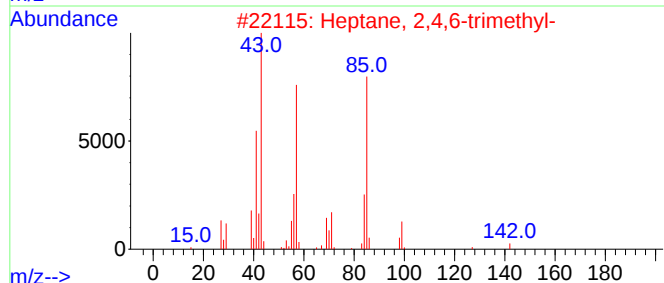
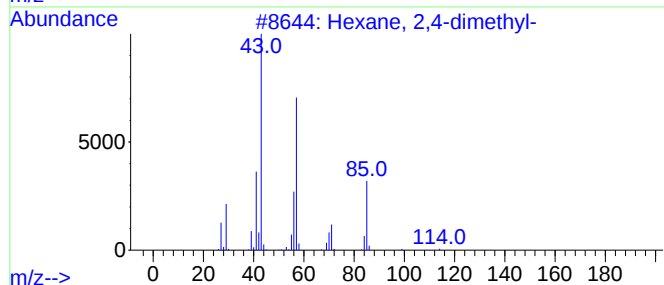
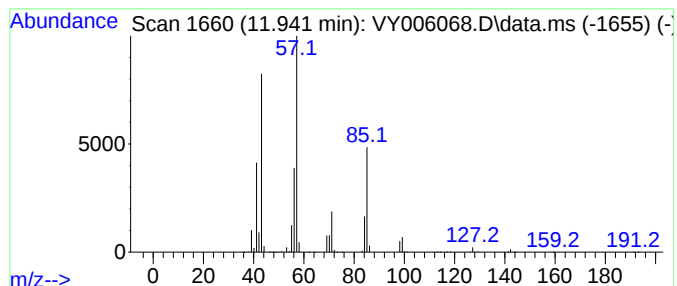
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Hexane, 2,4-dimethyl- Concentration Rank 9

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.941 | 404.69 ug/l | 12525800 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2,4-dimethyl-     | 114 | C8H18   | 000589-43-5 | 78   |
| 2    |    |   | Heptane, 2,4,6-trimethyl- | 142 | C10H22  | 002613-61-8 | 64   |
| 3    |    |   | Pentane, 2,2-dimethyl-    | 100 | C7H16   | 000590-35-2 | 53   |
| 4    |    |   | 2,2-Dimethyl-3-heptanone  | 142 | C9H18O  | 019078-97-8 | 46   |
| 5    |    |   | Hexane, 2,3,3-trimethyl-  | 128 | C9H20   | 016747-28-7 | 43   |



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Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

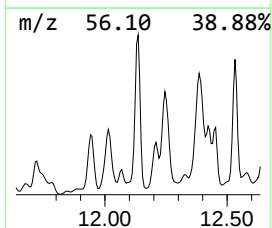
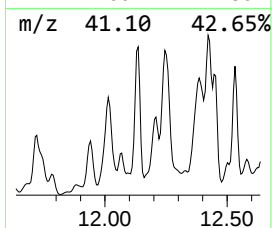
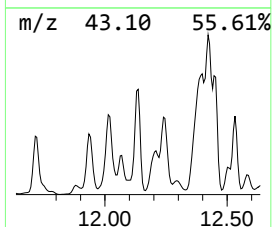
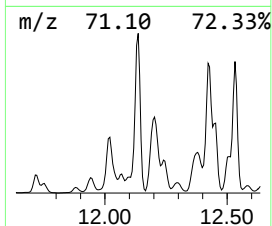
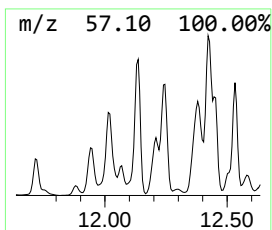
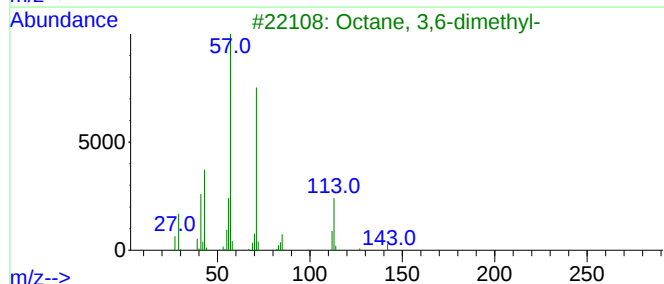
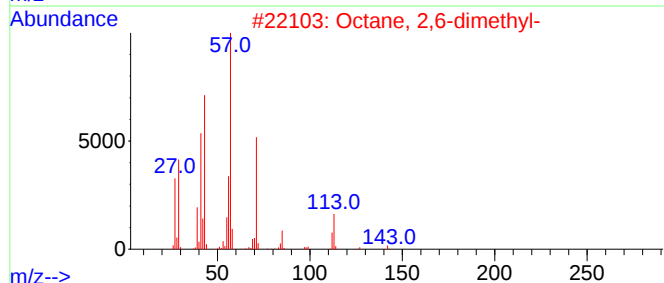
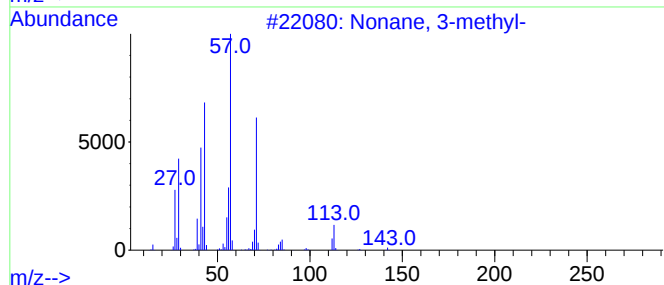
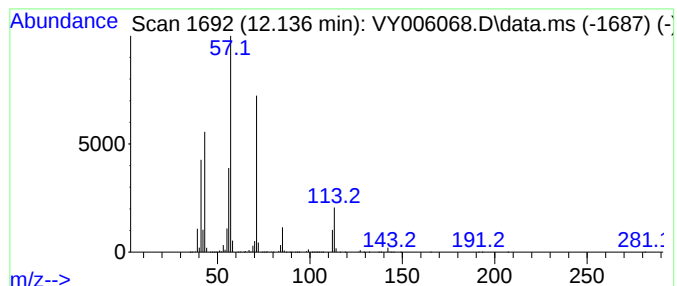
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Nonane, 3-methyl- Concentration Rank 2

| R.T.   | EstConc      | Area     | Relative to ISTD | R.T.   |
|--------|--------------|----------|------------------|--------|
| 12.136 | 1091.82 ug/l | 33793700 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 91   |
| 2    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 90   |
| 3    |    |   | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 70   |
| 4    |    |   | Hexane, 2,2,5,5-tetramethyl-        | 142 | C10H22    | 001071-81-4  | 53   |
| 5    |    |   | Sulfurous acid, 2-ethylhexyl hep... | 432 | C25H52O3S | 1000309-20-0 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

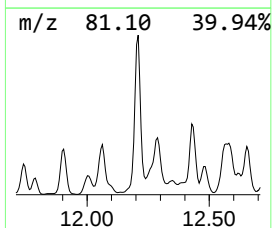
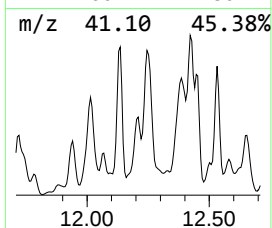
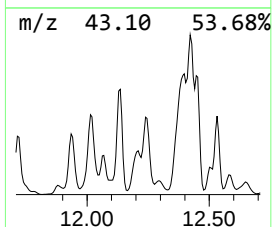
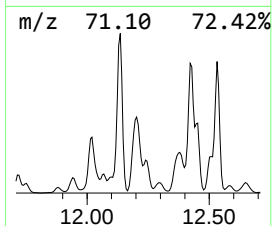
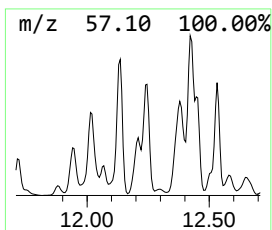
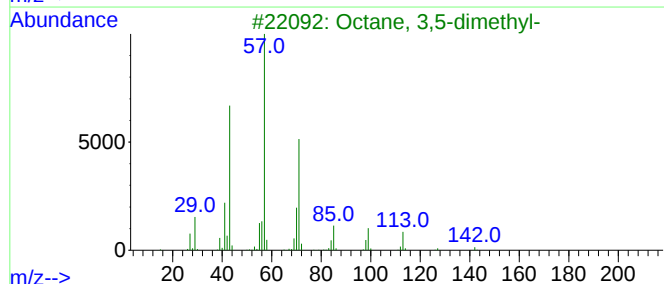
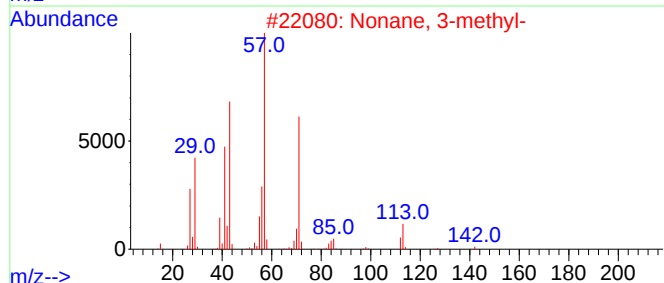
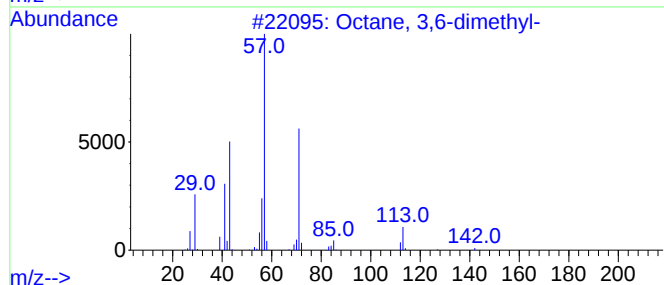
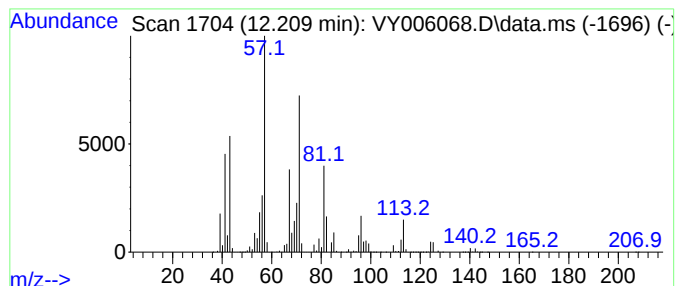
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Quant Title : SW846 8260

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

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Peak Number 5 Octane, 3,6-dimethyl- Concentration Rank 3

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 12.209 | 884.46 ug/l | 27375600 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Octane, 3,6-dimethyl-              | 142 | C10H22   | 015869-94-0  | 55   |
| 2    |    |   | Nonane, 3-methyl-                  | 142 | C10H22   | 005911-04-6  | 55   |
| 3    |    |   | Octane, 3,5-dimethyl-              | 142 | C10H22   | 015869-93-9  | 46   |
| 4    |    |   | Octane, 2,6-dimethyl-              | 142 | C10H22   | 002051-30-1  | 46   |
| 5    |    |   | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

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

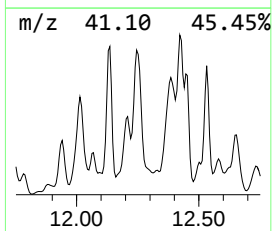
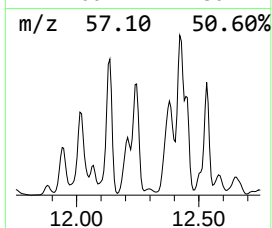
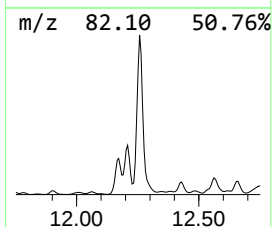
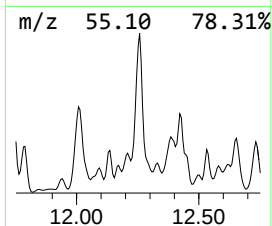
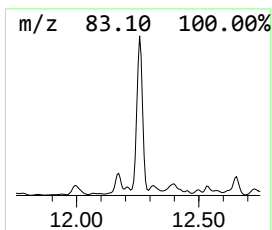
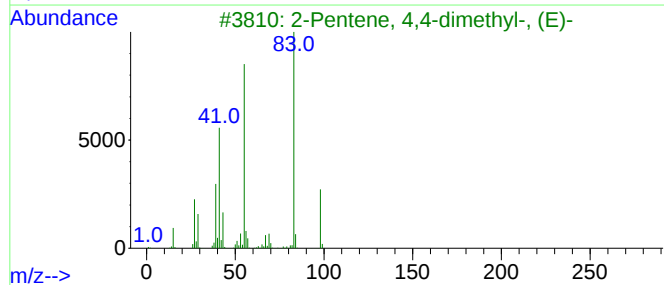
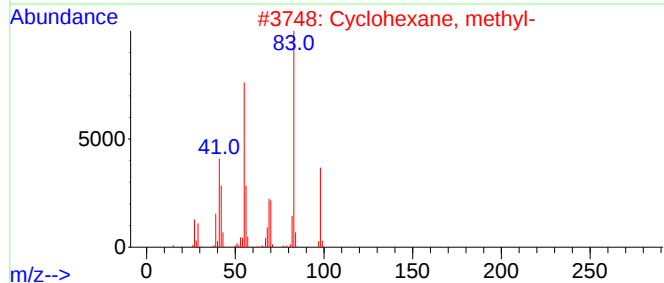
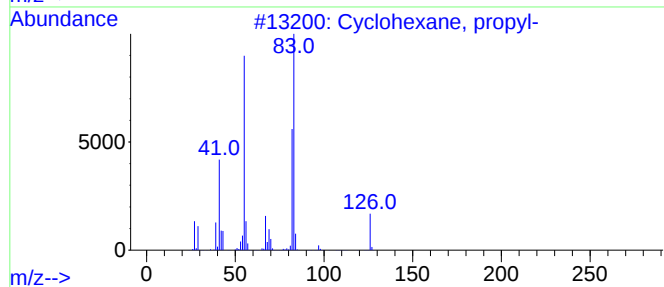
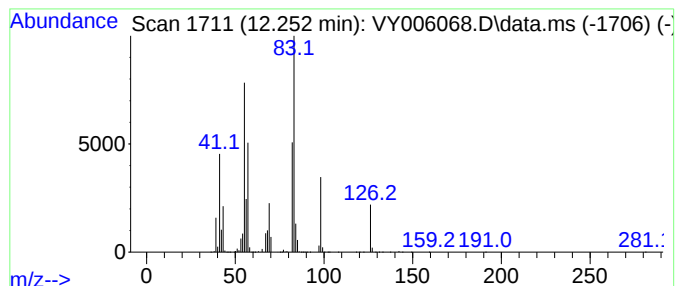
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Peak Number 6 Cyclohexane, propyl- Concentration Rank 1

| R.T.   | EstConc      | Area     | Relative to ISTD | R.T.   |
|--------|--------------|----------|------------------|--------|
| 12.252 | 1446.29 ug/l | 44765200 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, propyl-               | 126 | C9H18   | 001678-92-8 | 76   |
| 2    |    |   | Cyclohexane, methyl-               | 98  | C7H14   | 000108-87-2 | 64   |
| 3    |    |   | 2-Pentene, 4,4-dimethyl-, (E)-     | 98  | C7H14   | 000690-08-4 | 49   |
| 4    |    |   | Cyclopropane, 1,1,2,2-tetramethyl- | 98  | C7H14   | 004127-47-3 | 47   |
| 5    |    |   | 2-Pentene, 4,4-dimethyl-           | 98  | C7H14   | 026232-98-4 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

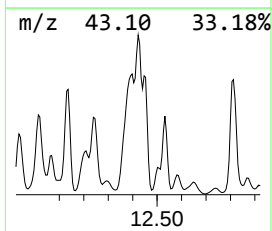
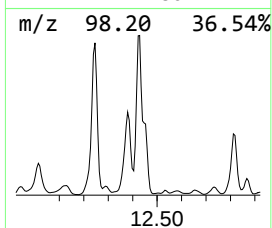
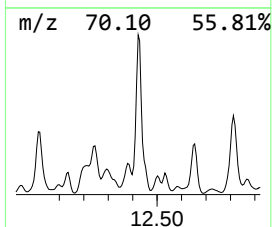
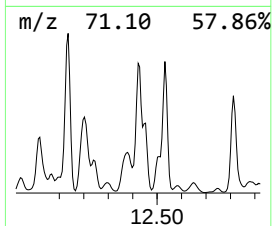
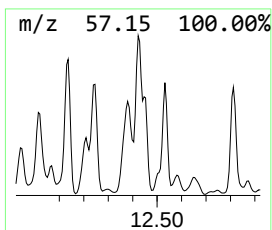
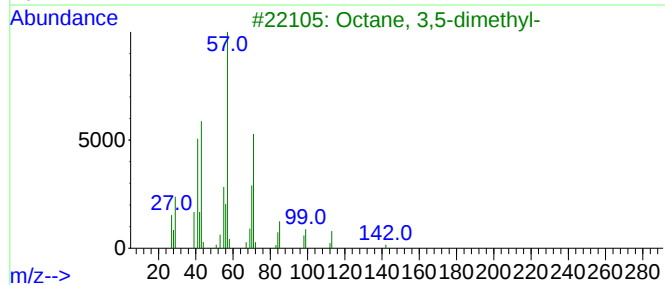
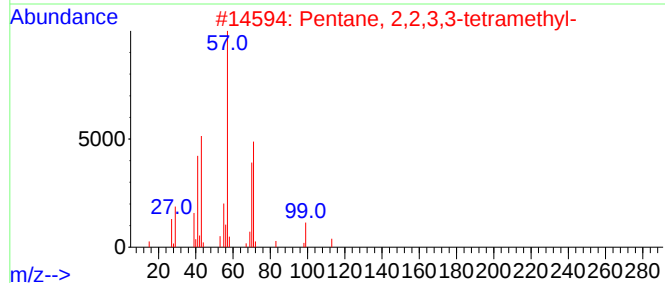
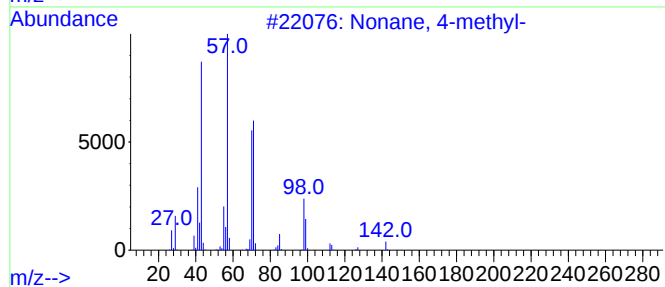
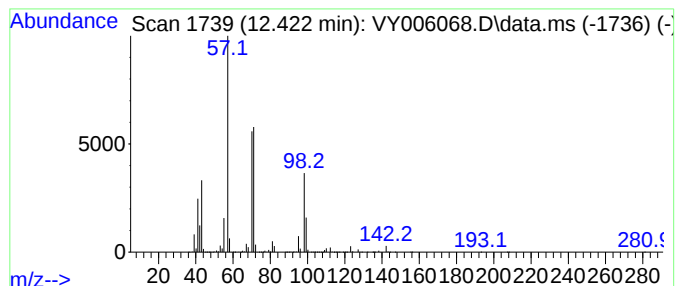
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 7 Nonane, 4-methyl- Concentration Rank 4

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 12.422 | 598.82 ug/l | 18534600 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 72   |
| 2    |    |   | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 59   |
| 3    |    |   | Octane, 3,5-dimethyl-         | 142 | C10H22  | 015869-93-9 | 50   |
| 4    |    |   | Octane, 2,6-dimethyl-         | 142 | C10H22  | 002051-30-1 | 43   |
| 5    |    |   | 3,4-Diethyl hexane            | 142 | C10H22  | 019398-77-7 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

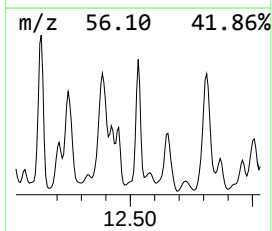
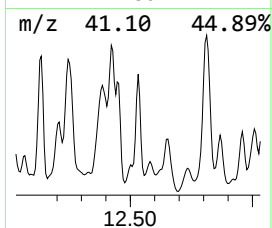
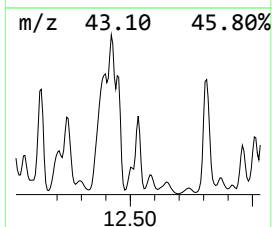
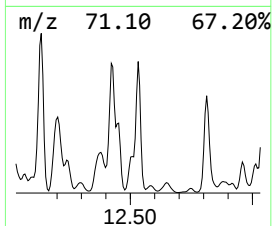
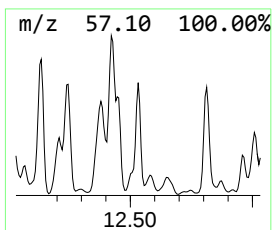
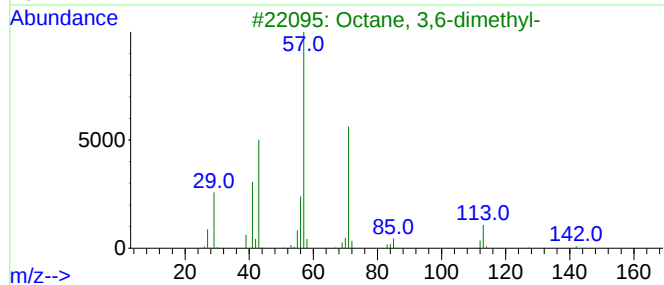
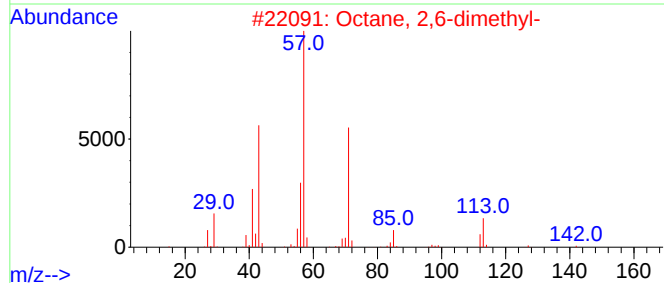
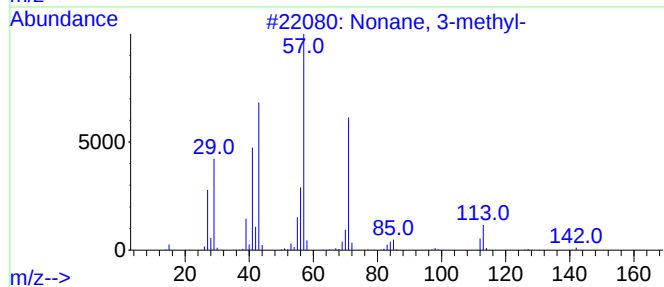
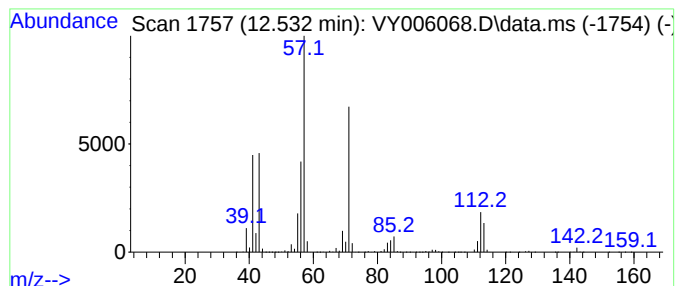
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Octane, 2,6-dimethyl- Concentration Rank 6

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 12.532 | 520.58 ug/l | 24937000 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 87   |
| 2    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 59   |
| 3    |    |   | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 59   |
| 4    |    |   | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 47   |
| 5    |    |   | Sulfurous acid, di(2-ethylhexyl)... | 306 | C16H34O3S | 1000309-19-1 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

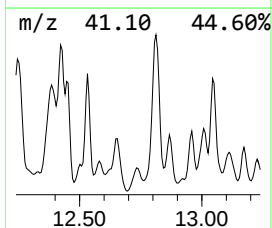
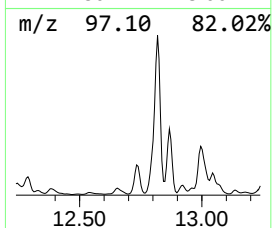
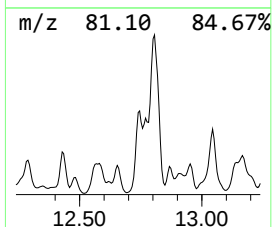
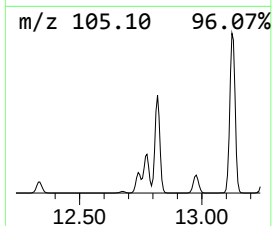
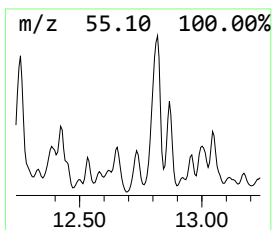
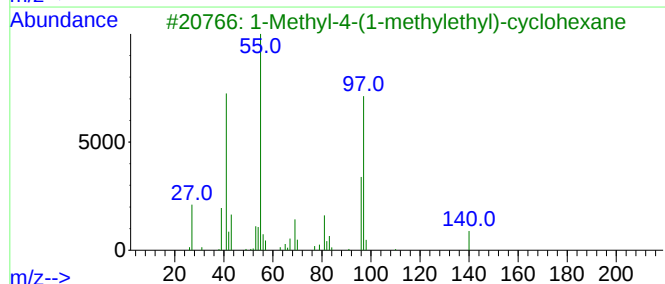
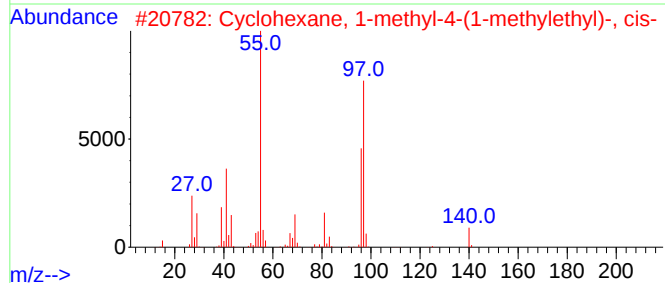
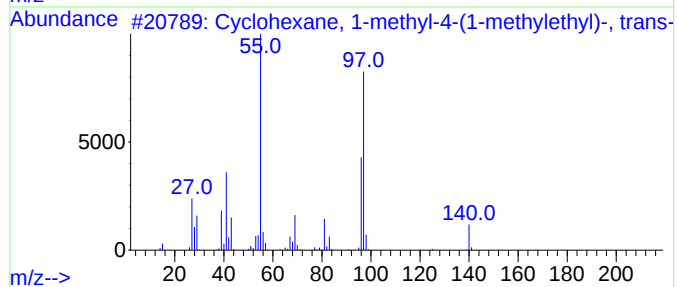
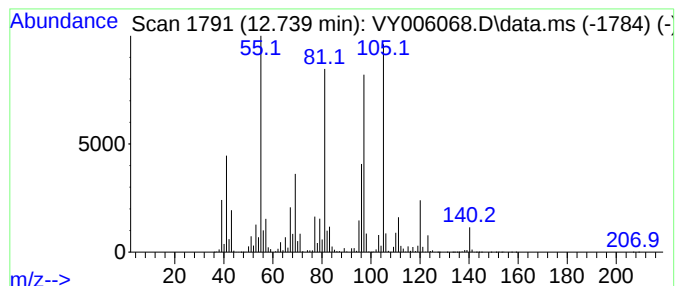
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 unknown12.739 Concentration Rank 10

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 12.739 | 348.04 ug/l | 16671600 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 49   |
| 2    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 46   |
| 3    |    |   | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20  | 000099-82-1 | 45   |
| 4    |    |   | 2,4-Hexadiene, 3-methyl-            | 96  | C7H12   | 028823-42-9 | 38   |
| 5    |    |   | m-Menthane, (1S,3S)-(+)-            | 140 | C10H20  | 013837-67-7 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
Quant Title : SW846 8260

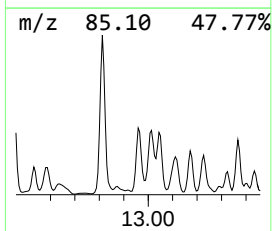
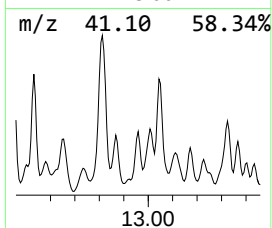
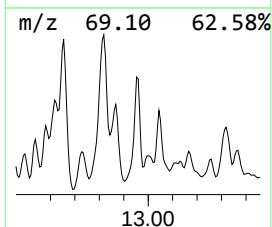
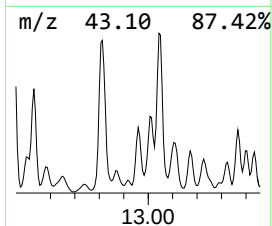
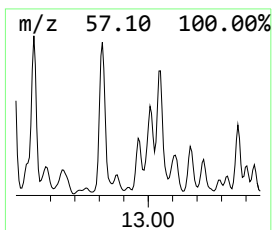
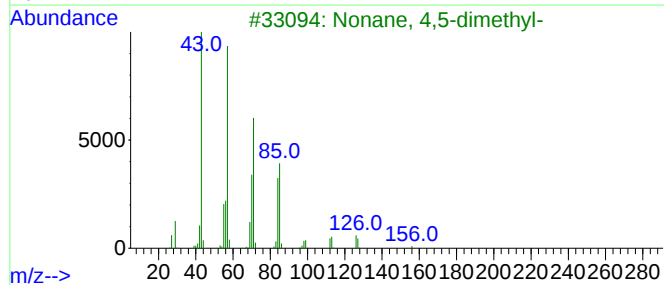
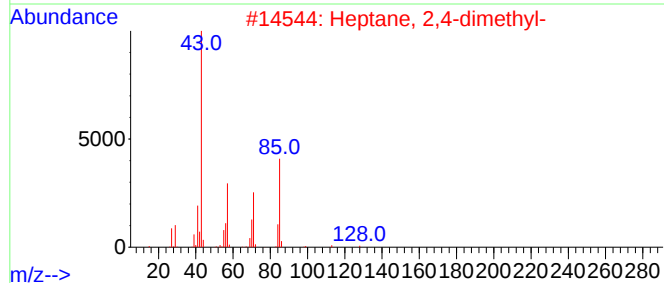
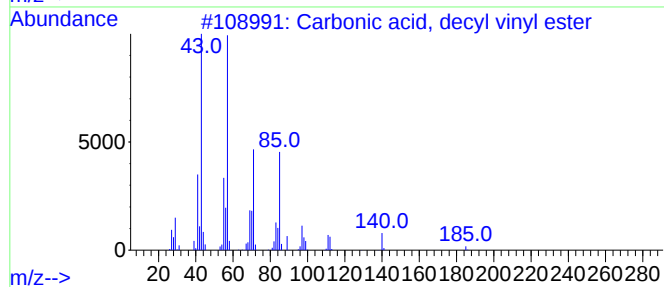
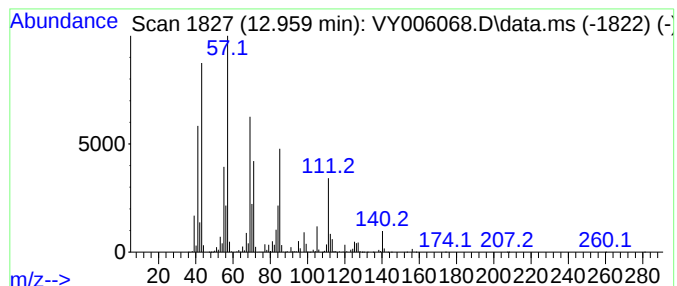
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Carbonic acid, decyl vinyl ... Concentration Rank 8

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 12.959 | 407.51 ug/l | 19520500 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Carbonic acid, decyl vinyl ester    | 228 | C13H24O3  | 1000383-25-7 | 72   |
| 2    |    |   | Heptane, 2,4-dimethyl-              | 128 | C9H20     | 002213-23-2  | 53   |
| 3    |    |   | Nonane, 4,5-dimethyl-               | 156 | C11H24    | 017302-23-7  | 50   |
| 4    |    |   | Sulfurous acid, butyl undecyl ester | 292 | C15H32O3S | 1000309-17-8 | 47   |
| 5    |    |   | Hexane, 2,3,4-trimethyl-            | 128 | C9H20     | 000921-47-1  | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091721\  
Data File : VY006068.D  
Acq On : 17 Sep 2021 14:05  
Operator : SY/MD  
Sample : M3770-03  
Misc : 7.48G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SUP-VST-01-(13-15)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.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 |
| Octane, 4-methyl-  | 11.282 | 581.1   | ug/l  | 17985900 | 3                     | 11.496 | 1547590 | 50.0 |
| Octane, 3-methyl-  | 11.386 | 456.6   | ug/l  | 14133700 | 3                     | 11.496 | 1547590 | 50.0 |
| Hexane, 2,4-dim... | 11.941 | 404.7   | ug/l  | 12525800 | 3                     | 11.496 | 1547590 | 50.0 |
| Nonane, 3-methyl-  | 12.136 | 1091.8  | ug/l  | 33793700 | 3                     | 11.496 | 1547590 | 50.0 |
| Octane, 3,6-dim... | 12.209 | 884.5   | ug/l  | 27375600 | 3                     | 11.496 | 1547590 | 50.0 |
| Cyclohexane, pr... | 12.252 | 1446.3  | ug/l  | 44765200 | 3                     | 11.496 | 1547590 | 50.0 |
| Nonane, 4-methyl-  | 12.422 | 598.8   | ug/l  | 18534600 | 3                     | 11.496 | 1547590 | 50.0 |
| Octane, 2,6-dim... | 12.532 | 520.6   | ug/l  | 24937000 | 4                     | 13.428 | 2395110 | 50.0 |
| unknown12.739      | 12.739 | 348.0   | ug/l  | 16671600 | 4                     | 13.428 | 2395110 | 50.0 |
| Carbonic acid, ... | 12.959 | 407.5   | ug/l  | 19520500 | 4                     | 13.428 | 2395110 | 50.0 |