LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

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_X\Method\82X051222W.M
Title : SW846 8260

Signal : TIC: VX028806.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.246 | 22 | 26 | 34 | rBV2 | 7892 | 20699 | 1.37% | 0.162% |
| 2 | 1.563 | 69 | 78 | 83 | rBV8 | 9299 | 21999 | 1.46% | 0.173% |
| 3 | 2.380 | 205 | 212 | 222 | rBV | 22378 | 37952 | 2.52% | 0.298% |
| 4 | 5.099 | 643 | 658 | 670 | rBV2 | 18337 | 55690 | 3.70% | 0.437% |
| 5 | 5.385 | 690 | 705 | 720 | rBV | 211634 | 623524 | 41.39% | 4.894% |
| 6 | 5.556 | 722 | 733 | 752 | rVB | 336276 | 936020 | 62.13% | 7.347% |
| 7 | 5.958 | 788 | 799 | 816 | rBV | 203059 | 514623 | 34.16% | 4.040% |
| 8 | 6.763 | 921 | 931 | 946 | rBV | 469335 | 1107876 | 73.54% | 8.696% |
| 9 | 8.653 | 1233 | 1241 | 1250 | rBV | 939462 | 1506432 | 100.00% | 11.825% |
| 10 | 9.525 | 1376 | 1384 | 1395 | rBV | 95209 | 146597 | 9.73% | 1.151% |
| 11 | 10.055 | 1465 | 1471 | 1481 | rBV | 1048490 | 1369234 | 90.89% | 10.748% |
| 12 | 10.768 | 1582 | 1588 | 1598 | rBV | 142008 | 192454 | 12.78% | 1.511% |
| 13 | 10.860 | 1598 | 1603 | 1614 | rVV | 117024 | 164378 | 10.91% | 1.290% |
| 14 | 11.079 | 1634 | 1639 | 1646 | rBV | 811404 | 1057334 | 70.19% | 8.300% |
| 15 | 11.219 | 1654 | 1662 | 1671 | rVB6 | 8318 | 17059 | 1.13% | 0.134% |
| 16 | 11.622 | 1723 | 1728 | 1733 | rVB6 | 7922 | 16673 | 1.11% | 0.131% |
| 17 | 11.756 | 1746 | 1750 | 1759 | rVB8 | 12205 | 24135 | 1.60% | 0.189% |
| 18 | 11.841 | 1759 | 1764 | 1770 | rBV | 785151 | 971009 | 64.46% | 7.622% |
| 19 | 11.902 | 1770 | 1774 | 1784 | rVB2 | 141379 | 224431 | 14.90% | 1.762% |
| 20 | 12.024 | 1789 | 1794 | 1801 | rVV | 1096215 | 1333823 | 88.54% | 10.470% |
| 21 | 12.103 | 1801 | 1807 | 1811 | rVB6 | 11088 | 23412 | 1.55% | 0.184% |
| 22 | 12.219 | 1822 | 1826 | 1829 | rBV | 82929 | 116484 | 7.73% | 0.914% |
| 23 | 12.317 | 1838 | 1842 | 1848 | rVB7 | 13698 | 28724 | 1.91% | 0.225% |
| 24 | 12.408 | 1853 | 1857 | 1861 | rVB2 | 10556 | 16184 | 1.07% | 0.127% |
| 25 | 12.561 | 1875 | 1882 | 1883 | rBV6 | 13075 | 24691 | 1.64% | 0.194% |
| 26 | 12.616 | 1885 | 1891 | 1894 | rVB | 43022 | 70837 | 4.70% | 0.556% |
| 27 | 12.701 | 1900 | 1905 | 1909 | rBV2 | 25373 | 46113 | 3.06% | 0.362% |
| 28 | 12.768 | 1913 | 1916 | 1920 | rVV | 76959 | 100376 | 6.66% | 0.788% |
| 29 | 12.817 | 1921 | 1924 | 1931 | rVB4 | 35711 | 63500 | 4.22% | 0.498% |
| 30 | 12.890 | 1932 | 1936 | 1938 | rBV4 | 13725 | 20273 | 1.35% | 0.159% |
| 31 | 12.920 | 1938 | 1941 | 1945 | rVB | 53603 | 64628 | 4.29% | 0.507% |
| 32 | 12.987 | 1949 | 1952 | 1955 | rBV4 | 23314 | 27185 | 1.80% | 0.213% |
| 33 | 13.091 | 1965 | 1969 | 1974 | rBV5 | 20437 | 37681 | 2.50% | 0.296% |
| 34 | 13.140 | 1974 | 1977 | 1984 | rVB6 | 19171 | 26583 | 1.76% | 0.209% |
| 35 | 13.207 | 1984 | 1988 | 1992 | rBV3 | 23710 | 35192 | 2.34% | 0.276% |
| 36 | 13.286 | 1997 | 2001 | 2008 | rVB2 | 115454 | 184274 | 12.23% | 1.446% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

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_X\Method\82X051222W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.347 | 2008 | 2011 | 2013 | rBV3 | 13577 | 15283 | 1.01% | 0.120% |
| 38 | 13.390 | 2013 | 2018 | 2019 | rBV3 | 12804 | 20891 | 1.39% | 0.164% |
| 39 | 13.420 | 2020 | 2023 | 2026 | rVB3 | 20627 | 24740 | 1.64% | 0.194% |
| 40 | 13.506 | 2033 | 2037 | 2040 | rBV4 | 14515 | 24239 | 1.61% | 0.190% |
| 41 | 13.585 | 2046 | 2050 | 2053 | rBV2 | 26058 | 37289 | 2.48% | 0.293% |
| 42 | 13.664 | 2061 | 2063 | 2067 | rVB2 | 23834 | 28758 | 1.91% | 0.226% |
| 43 | 13.707 | 2067 | 2070 | 2075 | rVB4 | 23302 | 25214 | 1.67% | 0.198% |
| 44 | 13.798 | 2081 | 2085 | 2089 | rVB4 | 44651 | 54146 | 3.59% | 0.425% |
| 45 | 13.847 | 2089 | 2093 | 2099 | rBV2 | 101763 | 147393 | 9.78% | 1.157% |
| 46 | 13.926 | 2099 | 2106 | 2110 | rVB4 | 53460 | 125778 | 8.35% | 0.987% |
| 47 | 13.993 | 2111 | 2117 | 2119 | rBV4 | 19902 | 44335 | 2.94% | 0.348% |
| 48 | 14.073 | 2126 | 2130 | 2132 | rBV5 | 23421 | 32380 | 2.15% | 0.254% |
| 49 | 14.103 | 2132 | 2135 | 2138 | rVV4 | 20860 | 25941 | 1.72% | 0.204% |
| 50 | 14.140 | 2138 | 2141 | 2143 | rVV2 | 16850 | 16853 | 1.12% | 0.132% |
| 51 | 14.213 | 2151 | 2153 | 2160 | rVB2 | 37410 | 54176 | 3.60% | 0.425% |
| 52 | 14.371 | 2176 | 2179 | 2185 | rVB5 | 29351 | 41680 | 2.77% | 0.327% |
| 53 | 14.481 | 2193 | 2197 | 2201 | rBV3 | 56023 | 78722 | 5.23% | 0.618% |
| 54 | 14.615 | 2215 | 2219 | 2225 | rBV2 | 126221 | 166836 | 11.07% | 1.310% |
| 55 | 14.670 | 2225 | 2228 | 2233 | rVB4 | 34437 | 45830 | 3.04% | 0.360% |
| 56 | 14.755 | 2239 | 2242 | 2244 | rBV2 | 20308 | 20696 | 1.37% | 0.162% |
| 57 | 14.792 | 2244 | 2248 | 2252 | rVV4 | 38283 | 52719 | 3.50% | 0.414% |
| 58 | 14.847 | 2254 | 2257 | 2261 | rVB4 | 30243 | 42316 | 2.81% | 0.332% |
| 59 | 15.182 | 2310 | 2312 | 2314 | rBV3 | 20127 | 24102 | 1.60% | 0.189% |
| 60 | 15.213 | 2314 | 2317 | 2321 | rVB | 89029 | 101424 | 6.73% | 0.796% |
| 61 | 15.377 | 2341 | 2344 | 2347 | rBV3 | 14965 | 18020 | 1.20% | 0.141% |
| 62 | 15.414 | 2347 | 2350 | 2356 | rVB4 | 33113 | 50895 | 3.38% | 0.400% |
| 63 | 15.481 | 2357 | 2361 | 2367 | rBV | 39179 | 60703 | 4.03% | 0.476% |
| 64 | 15.615 | 2379 | 2383 | 2388 | rVB | 61085 | 97692 | 6.48% | 0.767% |
| 65 | 16.084 | 2457 | 2460 | 2467 | rVB6 | 19693 | 32525 | 2.16% | 0.255% |

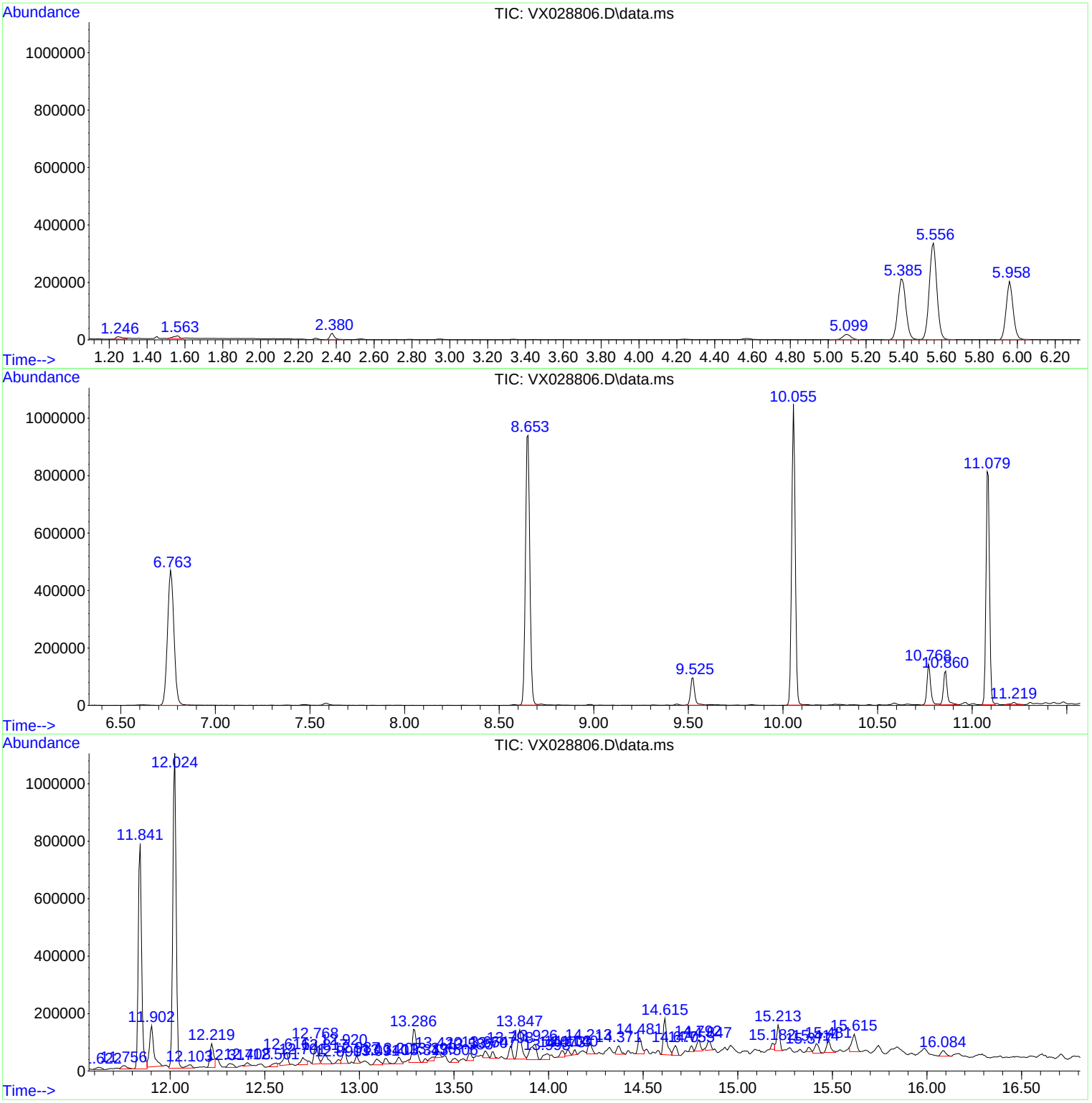
Sum of corrected areas: 12739655

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

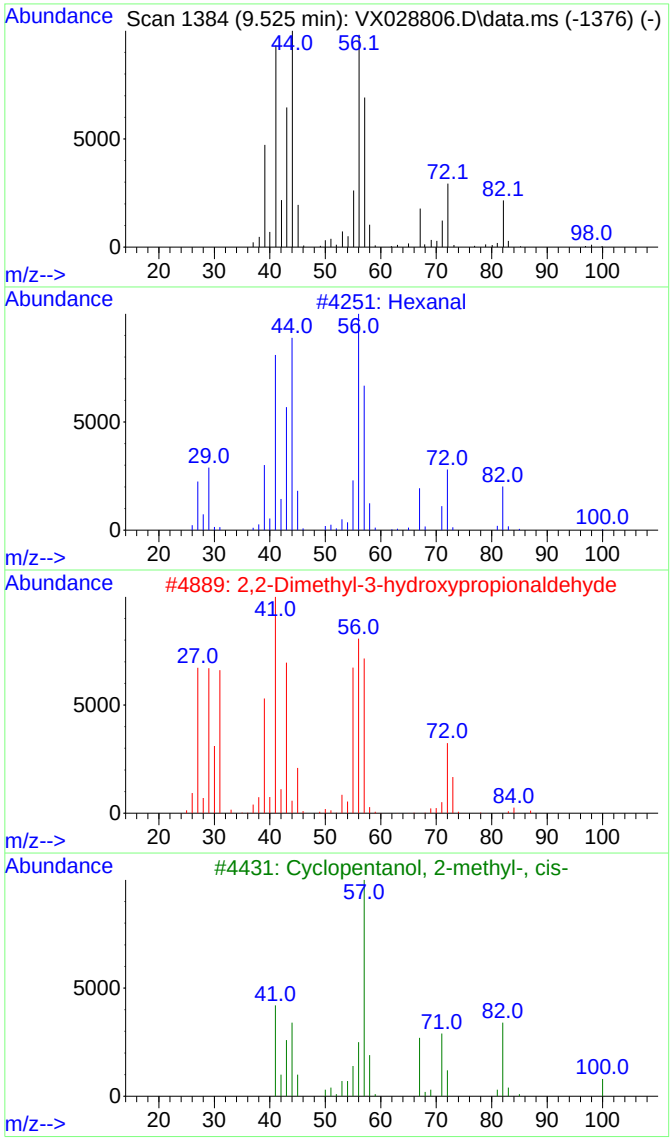
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

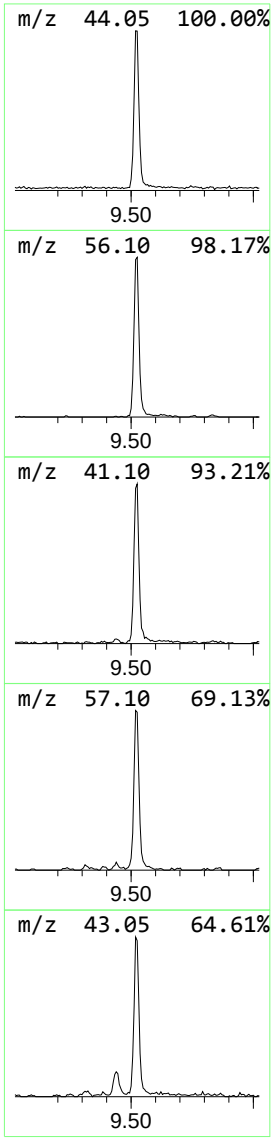
**********

Peak Number 1 Hexanal Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.525 | 5.35 ug/l | 146597 | Chlorobenzene-d5 | 10.055 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 2 | 2,2-Dimethyl-3-hydroxypropionald... | 102 | C5H10O2 | 000597-31-9 | 37 |
| 3 | Cyclopentanol, 2-methyl-, cis- | 100 | C6H12O | 025144-05-2 | 35 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 32 |
| 5 | Glutaraldehyde | 100 | C5H8O2 | 000111-30-8 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

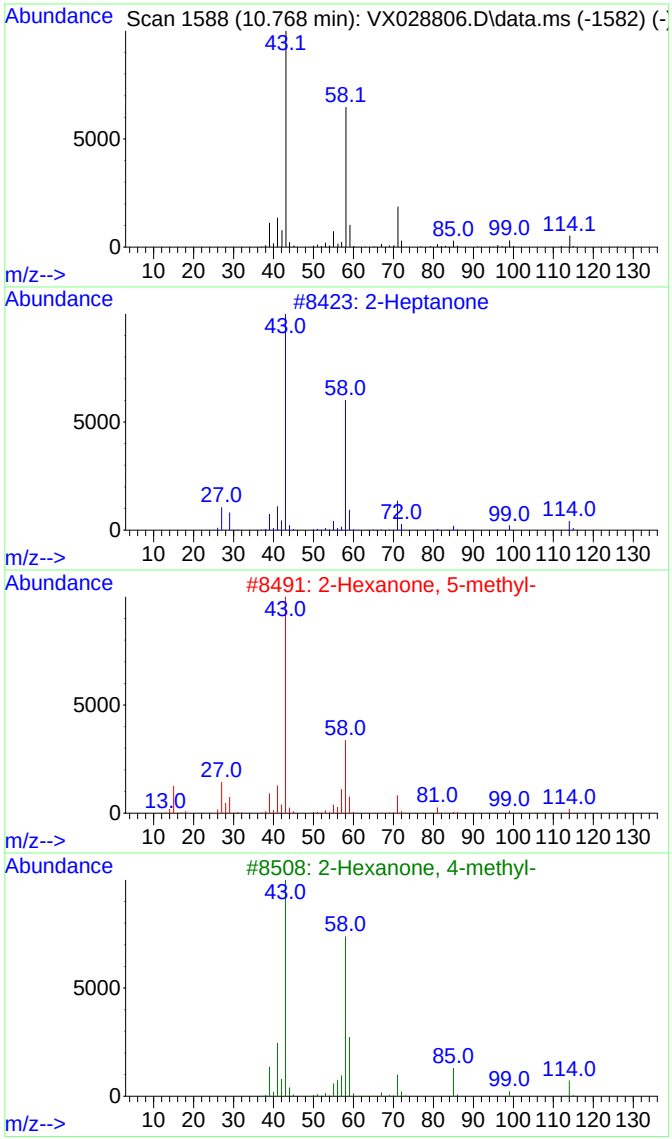
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

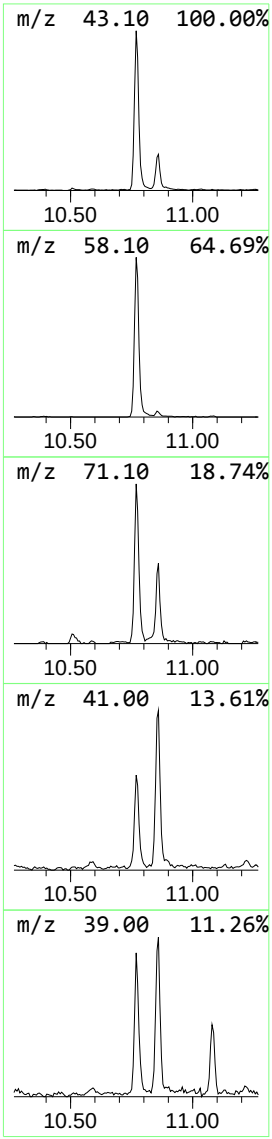
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 2-Heptanone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.768 | 7.03 ug/l | 192454 | Chlorobenzene-d5 | 10.055 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone | 114 | C7H14O | 000110-43-0 | 91 |
| 2 | 2-Hexanone, 5-methyl- | 114 | C7H14O | 000110-12-3 | 78 |
| 3 | 2-Hexanone, 4-methyl- | 114 | C7H14O | 000105-42-0 | 50 |
| 4 | 2-Pentanone, 4,4-dimethyl- | 114 | C7H14O | 000590-50-1 | 50 |
| 5 | N-Cyclohexyl-N'-[2-(dimethylamin... | 213 | C11H23N3O | 097943-37-8 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

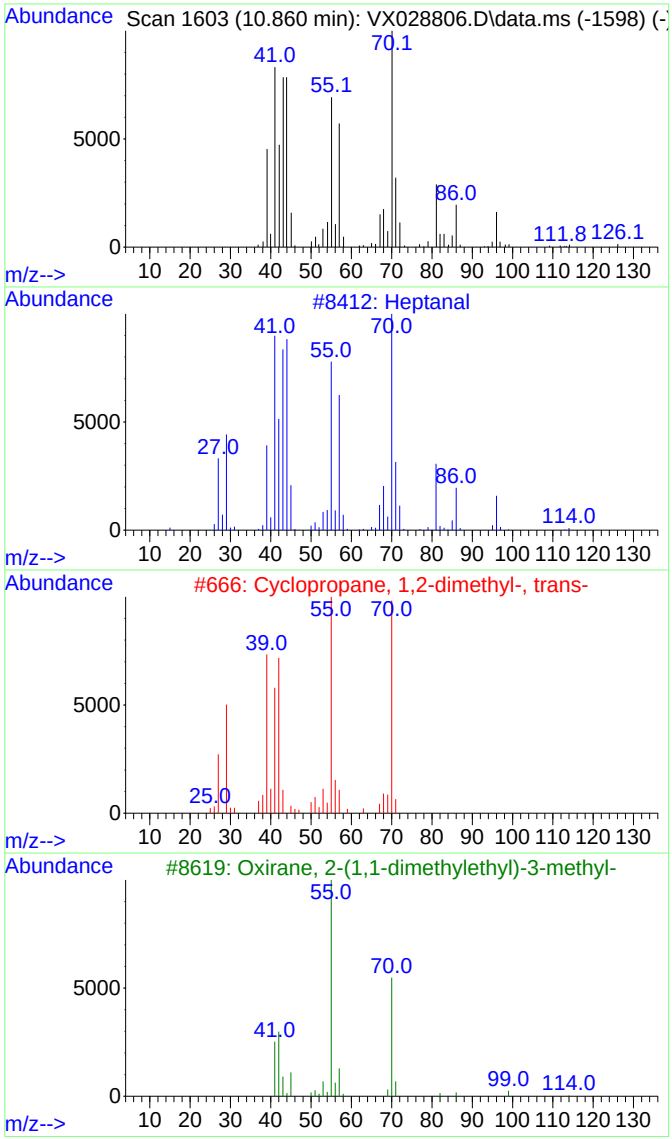
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

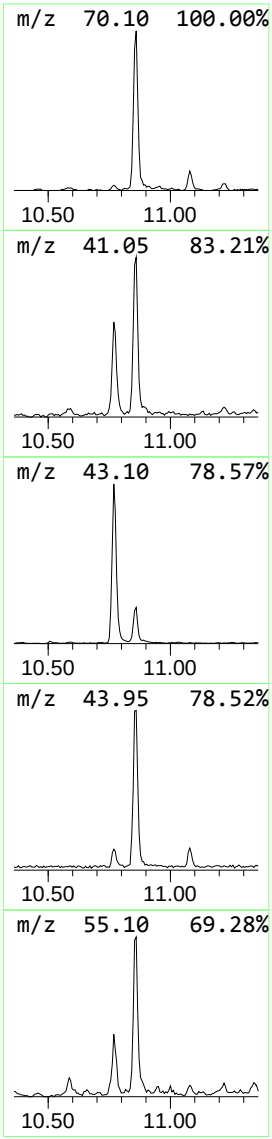
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Heptanal Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.860 | 6.00 ug/l | 164378 | Chlorobenzene-d5 | 10.055 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 96 |
| 2 | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10 | 002402-06-4 | 38 |
| 3 | Oxirane, 2-(1,1-dimethylethyl)-3... | 114 | C7H14O | 053897-30-6 | 38 |
| 4 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 38 |
| 5 | Hexanal, 3-methyl- | 114 | C7H14O | 019269-28-4 | 32 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

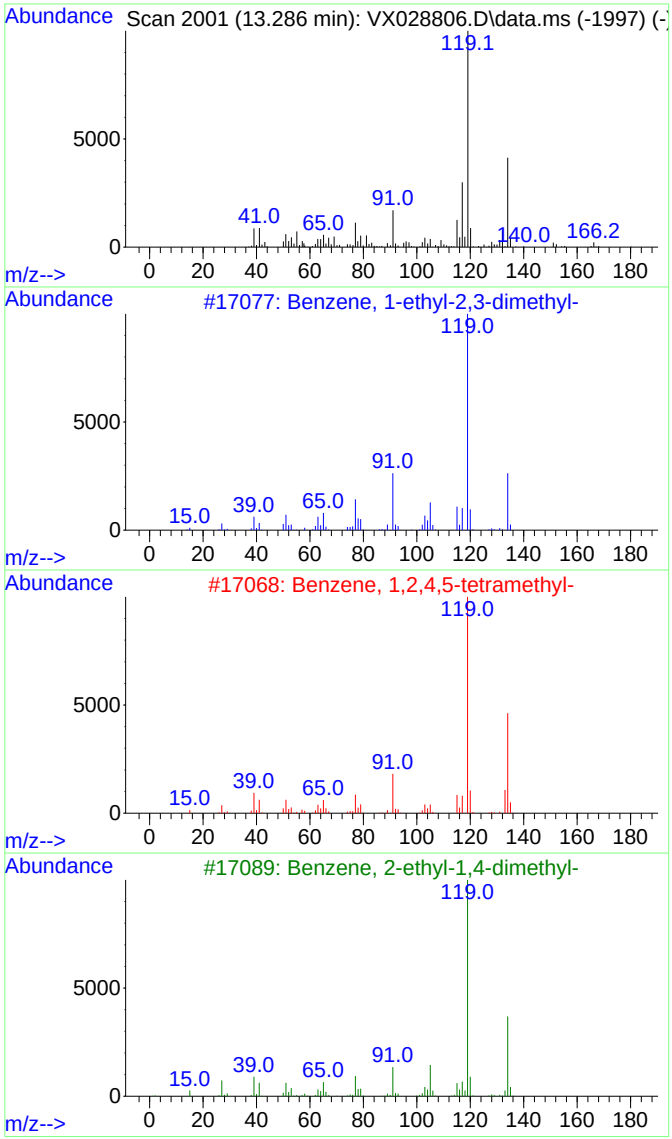
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

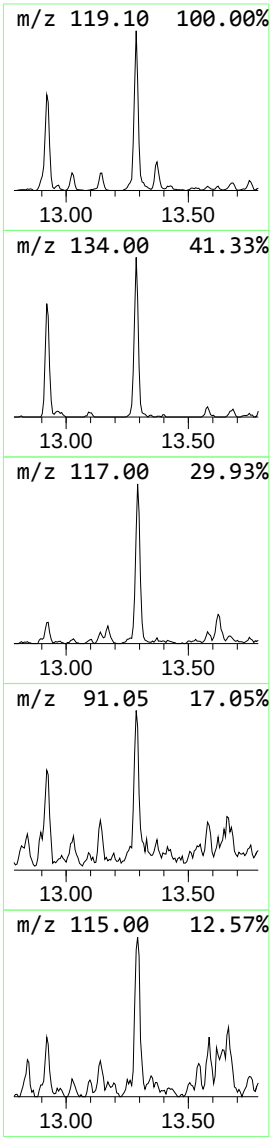
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.286 | 6.91 ug/l | 184274 | 1,4-Dichlorobenzene-d4 | 12.024 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 87 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 87 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 87 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 87 |
| 5 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

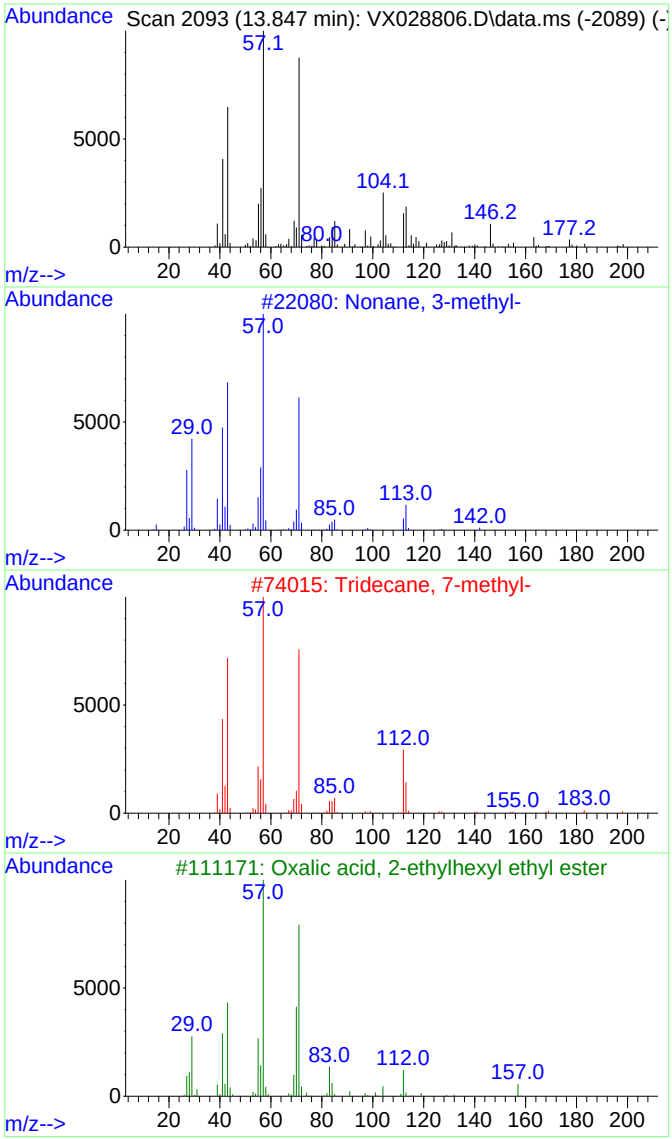
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

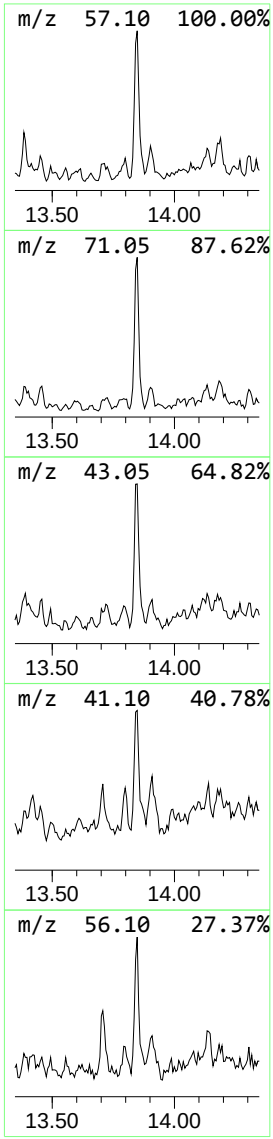
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Nonane, 3-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.847 | 5.53 ug/l | 147393 | 1,4-Dichlorobenzene-d4 | 12.024 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 59 |
| 2 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 58 |
| 3 | Oxalic acid, 2-ethylhexyl ethyl ... | 230 | C12H22O4 | 1000309-38-4 | 53 |
| 4 | Sulfurous acid, 2-ethylhexyl pen... | 264 | C13H28O3S | 1000309-18-9 | 50 |
| 5 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 47 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

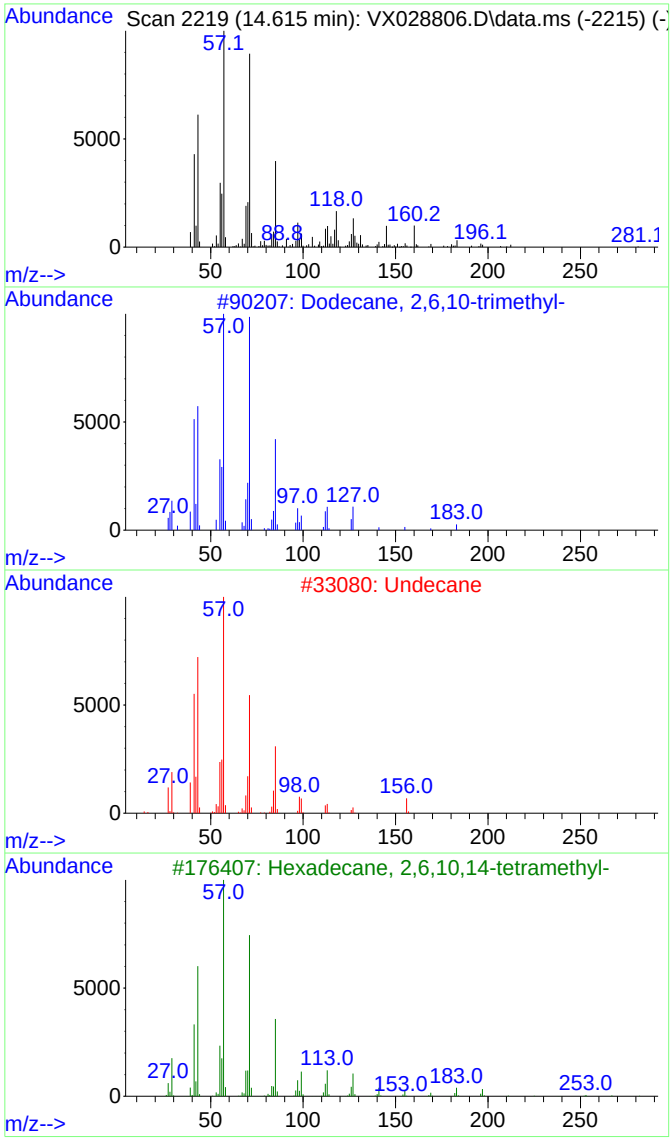
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

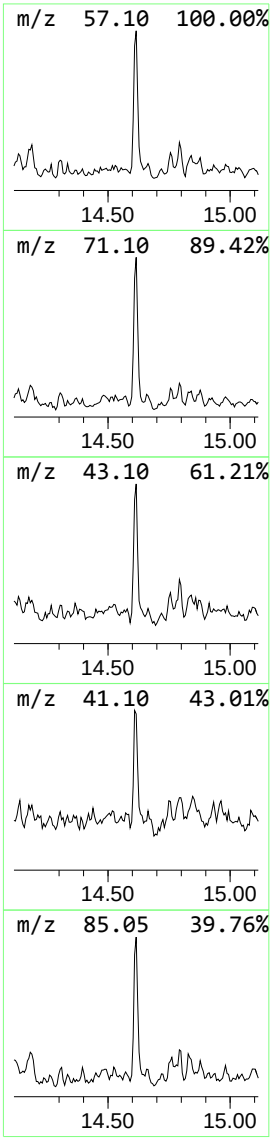
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Dodecane, 2,6,10-trimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.615 | 6.25 ug/l | 166836 | 1,4-Dichlorobenzene-d4 | 12.024 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 87 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 64 |
| 3 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 64 |
| 4 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 59 |
| 5 | Tetradecane, 4-methyl- | 212 | C15H32 | 025117-24-2 | 58 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051822\
Data File : VX028806.D
Acq On : 18 May 2022 15:19
Operator : JC/MD
Sample : N2902-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
WASTE-WATER-5/16/22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051222W.M
Quant Title : SW846 8260

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Hexanal | 9.525 | 5.3 | ug/l | 146597 | 3 | 10.055 | 1369230 | 50.0 |
| 2-Heptanone | 10.768 | 7.0 | ug/l | 192454 | 3 | 10.055 | 1369230 | 50.0 |
| Heptanal | 10.860 | 6.0 | ug/l | 164378 | 3 | 10.055 | 1369230 | 50.0 |
| Benzene, 1-ethy... | 13.286 | 6.9 | ug/l | 184274 | 4 | 12.024 | 1333820 | 50.0 |
| Nonane, 3-methyl- | 13.847 | 5.5 | ug/l | 147393 | 4 | 12.024 | 1333820 | 50.0 |
| Dodecane, 2,6,1... | 14.615 | 6.3 | ug/l | 166836 | 4 | 12.024 | 1333820 | 50.0 |