

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080521\  
 Data File : VY005550.D  
 Acq On : 05 Aug 2021 13:04  
 Operator : SY/MD  
 Sample : M3289-03  
 Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 26240

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\82Y080221S.M

Title : SW846 8260

Signal : TIC: VY005550.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         | 2.052       | 33            | 38          | 46           | rBV3     | 5639           | 12119         | 4.10%           | 0.842%        |
| 2         | 2.655       | 135           | 137         | 141          | rVB      | 2371           | 3325          | 1.12%           | 0.231%        |
| 3         | 4.728       | 467           | 477         | 485          | rVB2     | 2527           | 7102          | 2.40%           | 0.493%        |
| 4         | 5.765       | 637           | 647         | 652          | rBV5     | 2121           | 6003          | 2.03%           | 0.417%        |
| 5         | 7.722       | 959           | 968         | 974          | rBV2     | 19923          | 48786         | 16.49%          | 3.389%        |
| 6         | 7.801       | 974           | 981         | 992          | rVB      | 39567          | 90641         | 30.63%          | 6.297%        |
| 7         | 8.148       | 1031          | 1038        | 1047         | rBV2     | 20736          | 45040         | 15.22%          | 3.129%        |
| 8         | 8.697       | 1121          | 1128        | 1137         | rBV      | 57633          | 118219        | 39.96%          | 8.212%        |
| 9         | 10.185      | 1366          | 1372        | 1378         | rBV      | 93986          | 169189        | 57.18%          | 11.753%       |
| 10        | 11.495      | 1582          | 1587        | 1595         | rVB      | 91967          | 147436        | 49.83%          | 10.242%       |
| 11        | 12.483      | 1746          | 1749        | 1754         | rVB2     | 72034          | 114034        | 38.54%          | 7.922%        |
| 12        | 13.428      | 1899          | 1904        | 1915         | rVB2     | 119773         | 295880        | 100.00%         | 20.554%       |
| 13        | 14.263      | 2037          | 2041        | 2045         | rBV6     | 41081          | 85414         | 28.87%          | 5.934%        |
| 14        | 14.684      | 2106          | 2110        | 2115         | rVB3     | 38034          | 60120         | 20.32%          | 4.176%        |
| 15        | 15.147      | 2183          | 2186        | 2191         | rVB2     | 28172          | 37063         | 12.53%          | 2.575%        |
| 16        | 15.214      | 2193          | 2197        | 2203         | rVB      | 54284          | 84282         | 28.49%          | 5.855%        |
| 17        | 15.732      | 2278          | 2282        | 2288         | rVB6     | 32495          | 58311         | 19.71%          | 4.051%        |
| 18        | 16.159      | 2348          | 2352        | 2356         | rVB3     | 21367          | 34820         | 11.77%          | 2.419%        |
| 19        | 16.482      | 2401          | 2405        | 2410         | rBV7     | 11613          | 21731         | 7.34%           | 1.510%        |

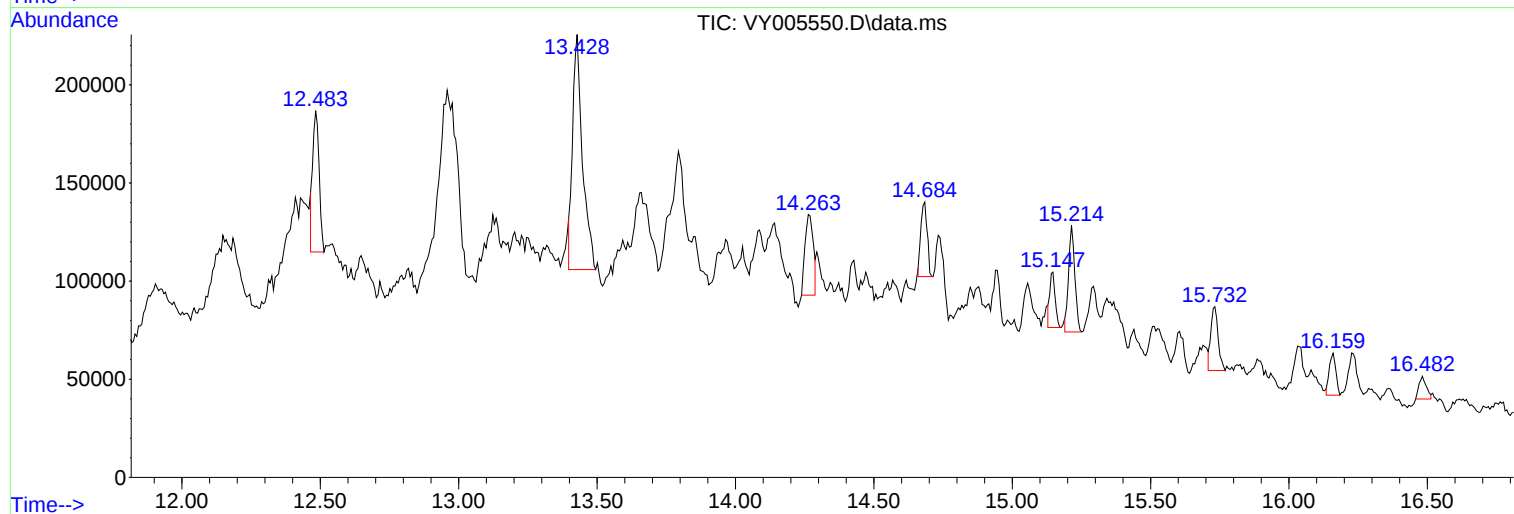
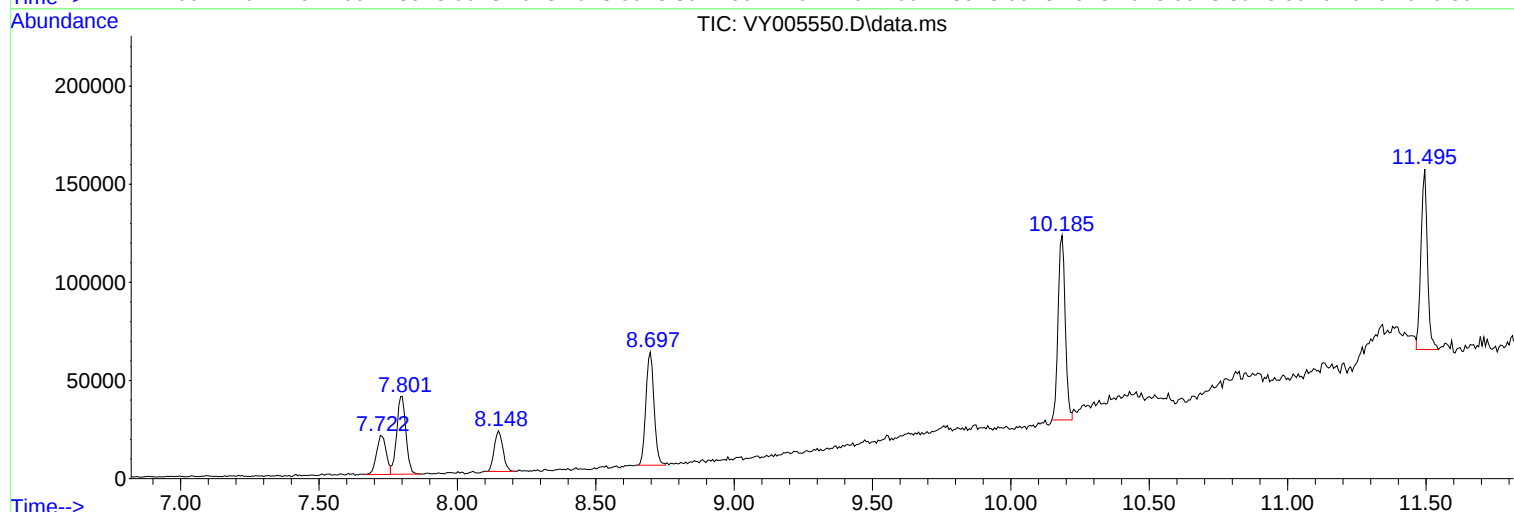
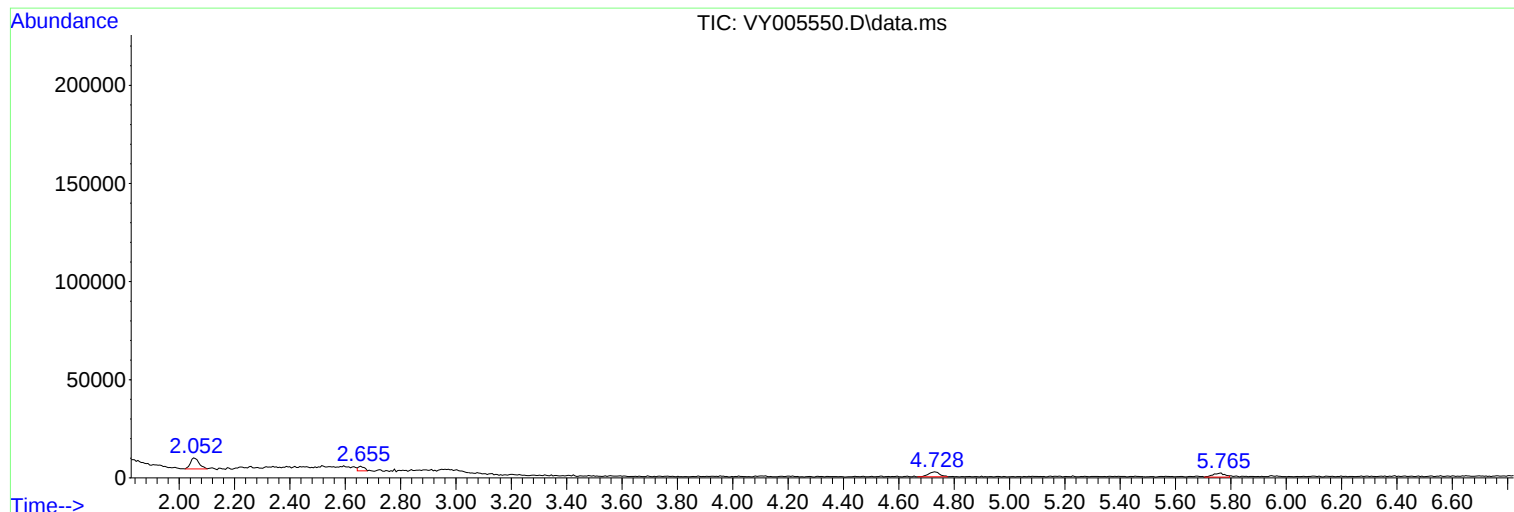
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Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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



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Quant Title : SW846 8260

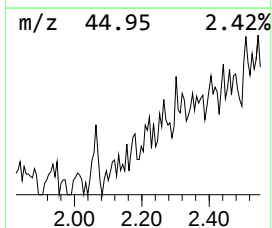
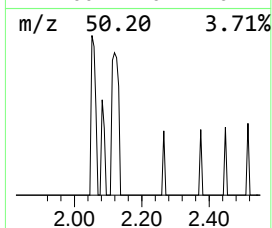
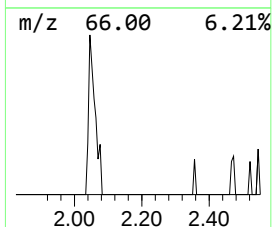
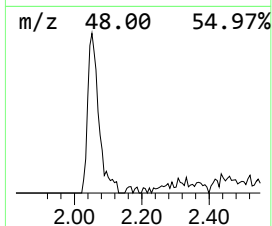
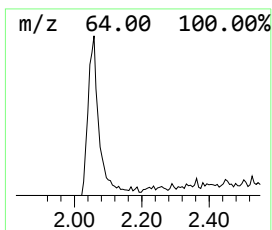
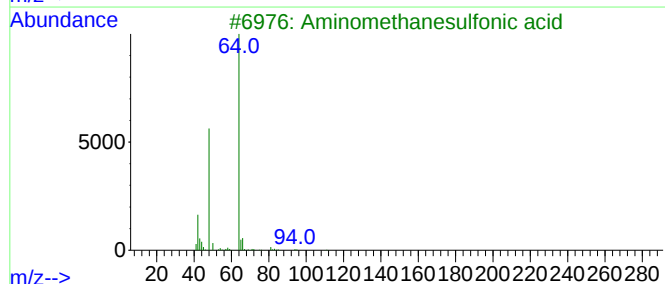
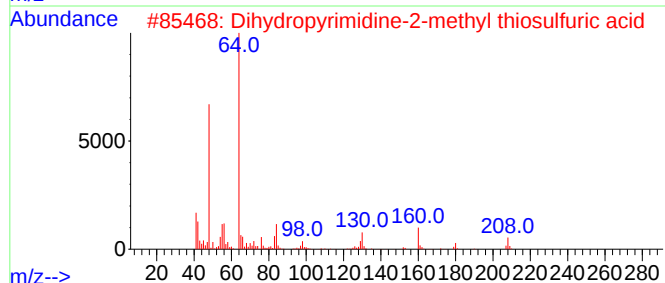
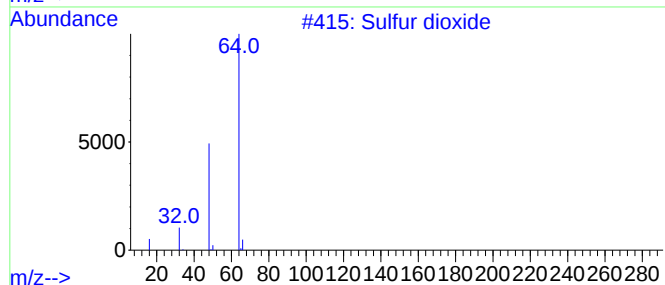
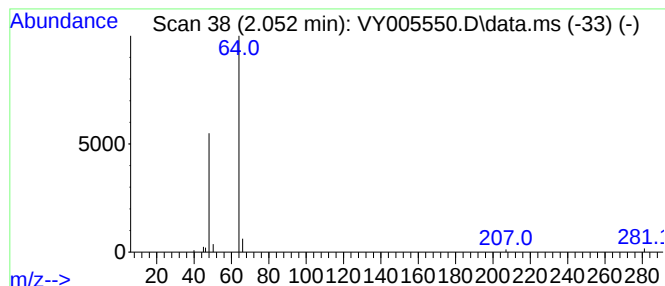
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Sulfur dioxide Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 2.052 | 6.69 ug/l | 12119 | Pentafluorobenzene | 7.801 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|--------------|--------------|------|
| 1    |    |   | Sulfur dioxide                      | 64  | O2S          | 007446-09-5  | 74   |
| 2    |    |   | Dihydropyrimidine-2-methyl thios... | 208 | C5H8N2O3S2   | 1000256-28-8 | 74   |
| 3    |    |   | Aminomethanesulfonic acid           | 111 | CH5NO3S      | 013881-91-9  | 64   |
| 4    |    |   | N,N'-Nonamethylenebis[-S-3-amino... | 466 | C15H34N2O6S4 | 035871-58-0  | 64   |
| 5    |    |   | 2-Benzimidazolyl methane thiosul... | 244 | C8H8N2O3S2   | 1010256-39-2 | 64   |



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Sample : M3289-03  
Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

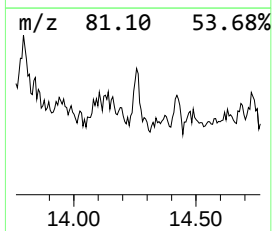
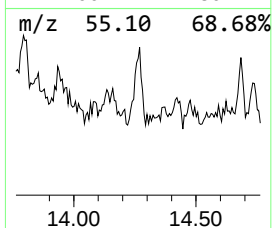
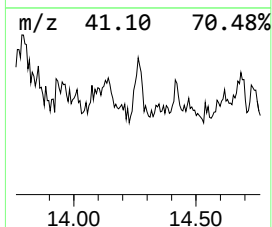
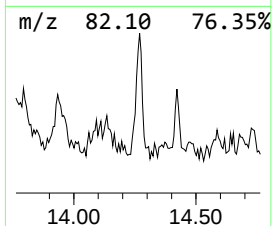
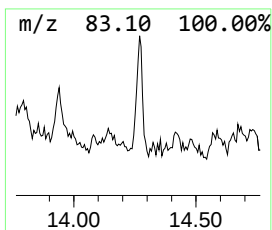
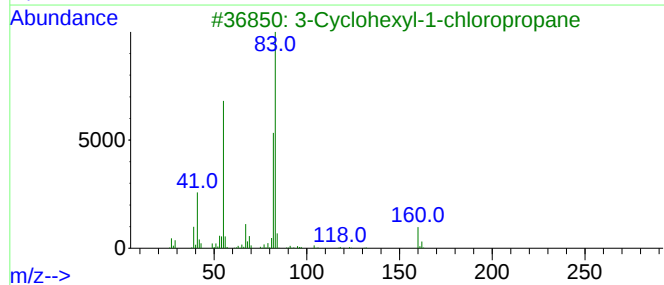
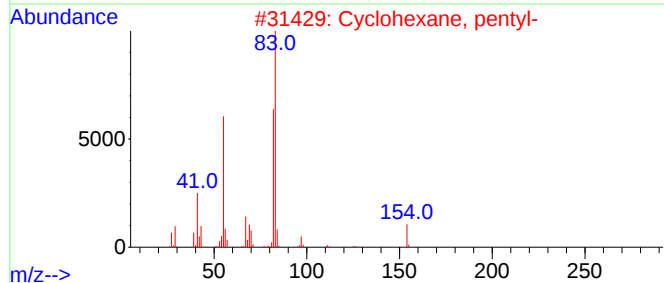
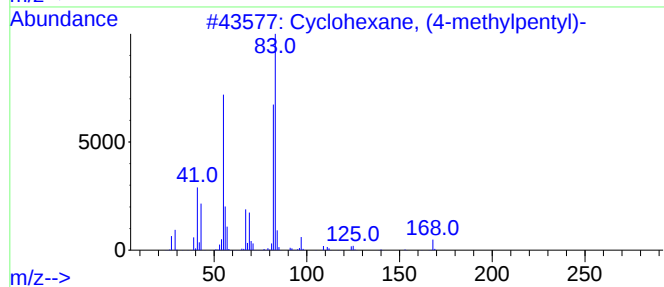
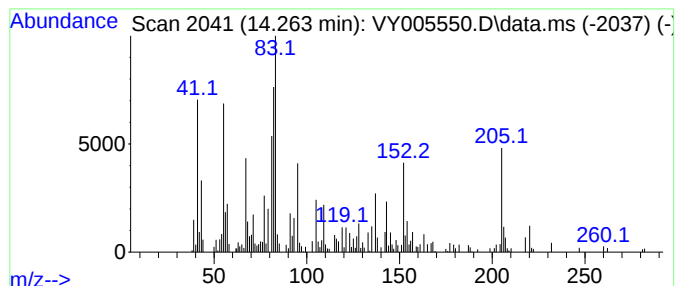
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

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Peak Number 2 unknown14.263 Concentration Rank 1

| R.T.   | EstConc    | Area  | Relative to ISTD       | R.T.   |
|--------|------------|-------|------------------------|--------|
| 14.263 | 14.43 ug/l | 85414 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, (4-methylpentyl)-      | 168 | C12H24  | 061142-20-9 | 38   |
| 2    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 38   |
| 3    |    |   | 3-Cyclohexyl-1-chloropropane        | 160 | C9H17Cl | 001124-62-5 | 35   |
| 4    |    |   | Bicyclo[3.1.1]heptan-2-one, 6,6-... | 138 | C9H14O  | 038651-65-9 | 30   |
| 5    |    |   | 1H-3a,7-Methanoazulene, octahydr... | 206 | C15H26  | 013567-54-9 | 25   |



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Sample : M3289-03  
Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

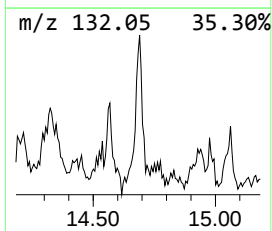
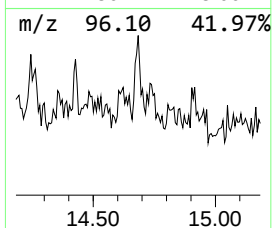
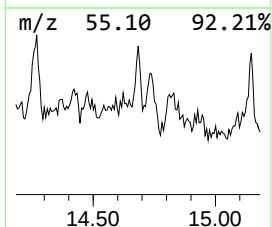
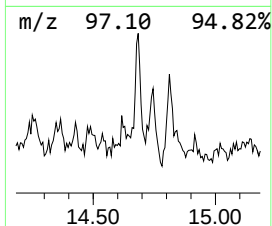
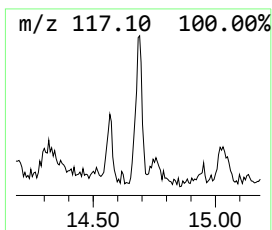
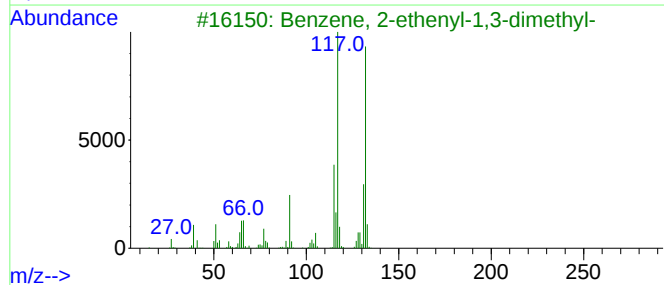
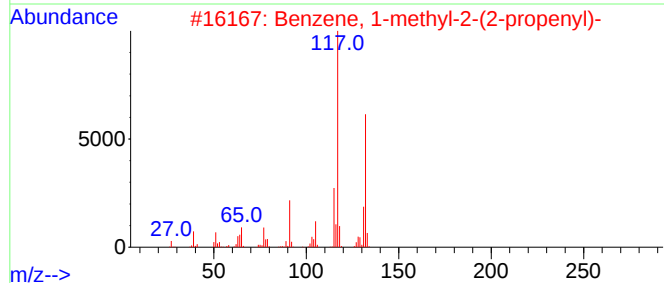
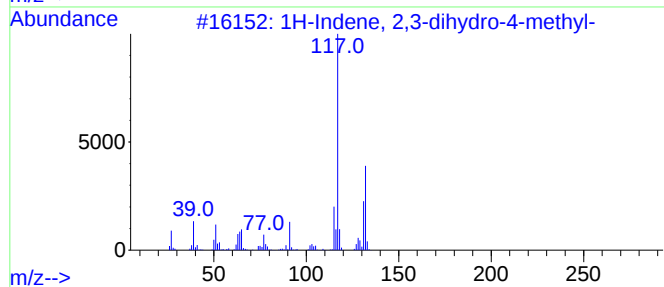
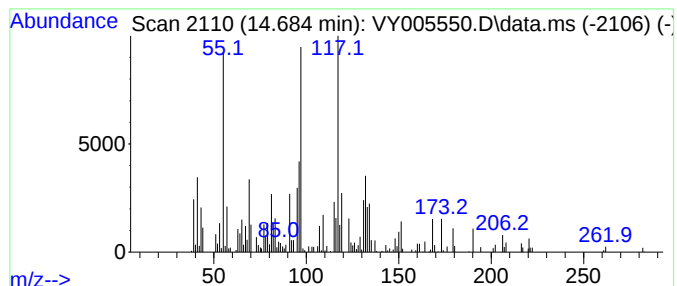
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown14.684 Concentration Rank 3

| R.T.   | EstConc    | Area  | Relative to ISTD       | R.T.   |
|--------|------------|-------|------------------------|--------|
| 14.684 | 10.16 ug/l | 60120 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2,3-dihydro-4-methyl-    | 132 | C10H12  | 000824-22-6 | 42   |
| 2    |    |   | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 25   |
| 3    |    |   | Benzene, 2-ethenyl-1,3-dimethyl-    | 132 | C10H12  | 002039-90-9 | 25   |
| 4    |    |   | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3 | 25   |
| 5    |    |   | 1H-Indene, 2,3-dihydro-5-methyl-    | 132 | C10H12  | 000874-35-1 | 22   |



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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

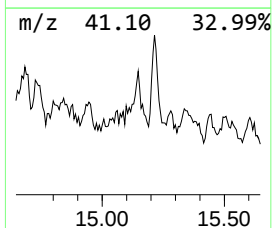
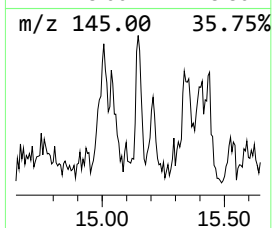
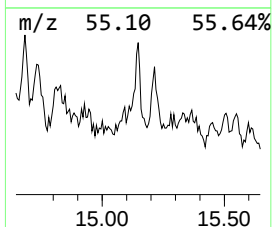
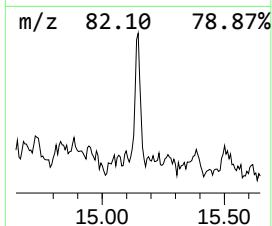
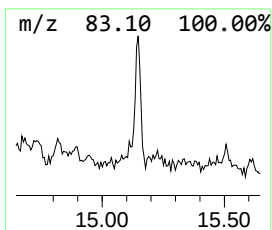
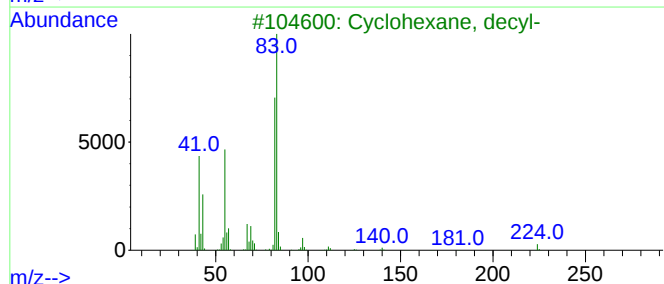
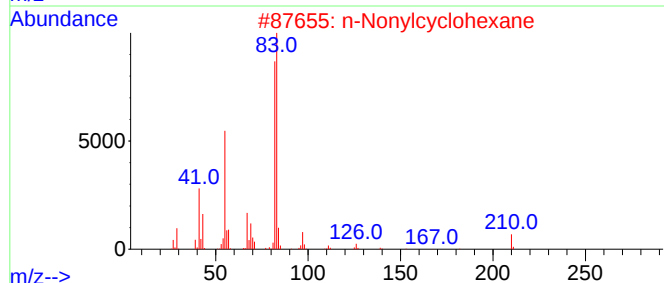
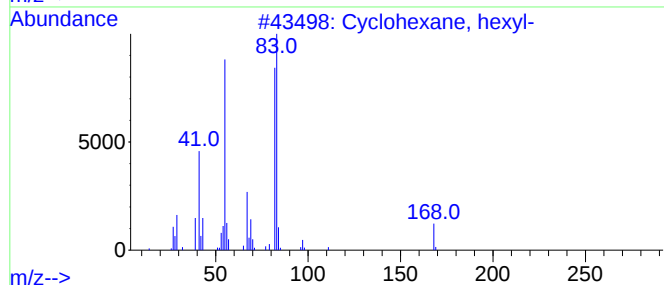
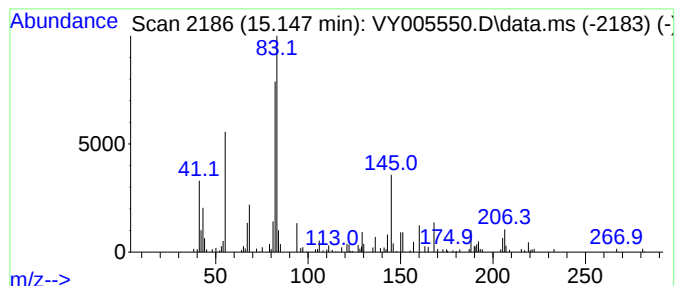
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

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Peak Number 4 Cyclohexane, hexyl- Concentration Rank 6

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 15.147 | 6.26 ug/l | 37063 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, hexyl-   | 168 | C12H24  | 004292-75-5 | 53   |
| 2    |    |   | n-Nonylcyclohexane    | 210 | C15H30  | 002883-02-5 | 50   |
| 3    |    |   | Cyclohexane, decyl-   | 224 | C16H32  | 001795-16-0 | 50   |
| 4    |    |   | Cyclohexane, butyl-   | 140 | C10H20  | 001678-93-9 | 50   |
| 5    |    |   | Cyclohexane, eicosyl- | 364 | C26H52  | 004443-55-4 | 50   |



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Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

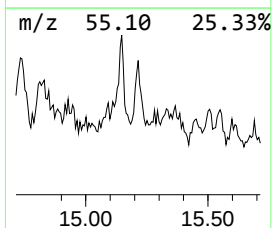
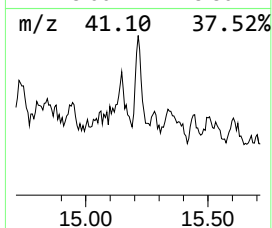
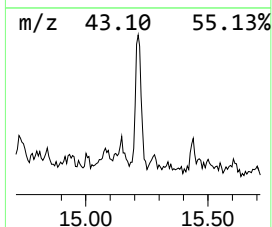
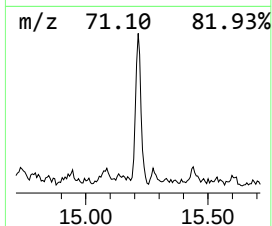
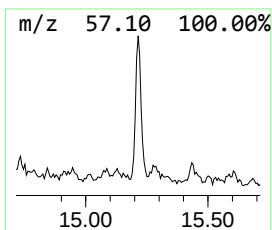
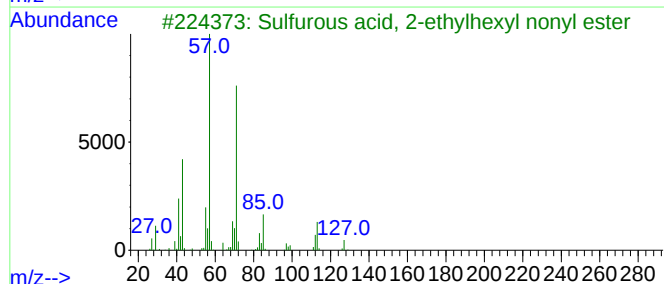
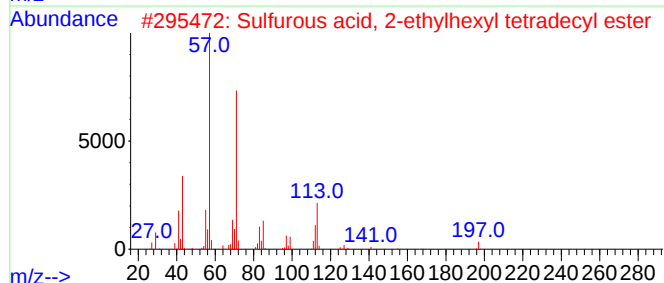
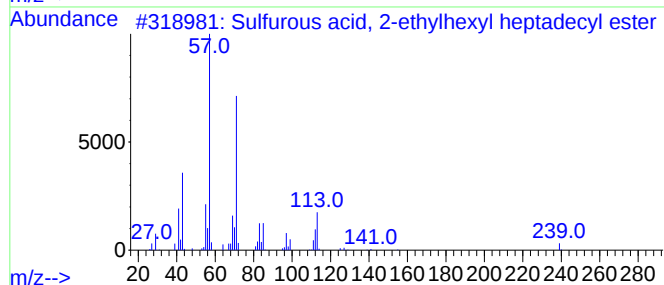
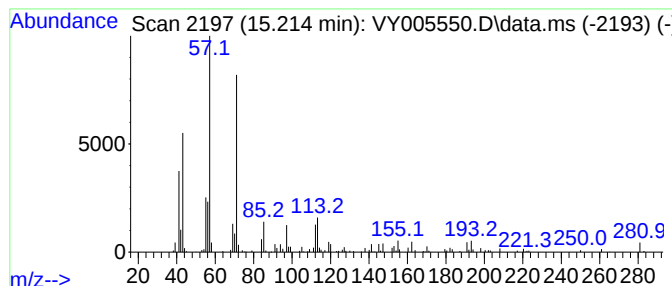
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Sulfurous acid, 2-ethylhexy... Concentration Rank 2

| R.T.   | EstConc    | Area  | Relative to ISTD       | R.T.   |
|--------|------------|-------|------------------------|--------|
| 15.214 | 14.24 ug/l | 84282 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, 2-ethylhexyl hep... | 432 | C25H52O3S | 1000309-20-0 | 80   |
| 2    |    |   | Sulfurous acid, 2-ethylhexyl tet... | 390 | C22H46O3S | 1000309-19-7 | 72   |
| 3    |    |   | Sulfurous acid, 2-ethylhexyl non... | 320 | C17H36O3S | 1010309-19-2 | 72   |
| 4    |    |   | Tridecane, 7-methyl-                | 198 | C14H30    | 026730-14-3  | 64   |
| 5    |    |   | Sulfurous acid, 2-ethylhexyl und... | 348 | C19H40O3S | 1000309-19-4 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080521\  
Data File : VY005550.D  
Acq On : 05 Aug 2021 13:04  
Operator : SY/MD  
Sample : M3289-03  
Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

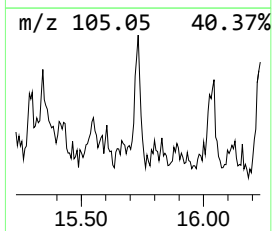
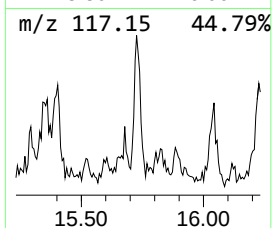
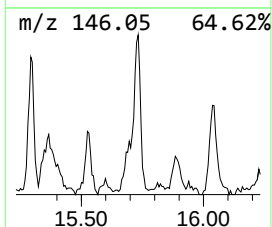
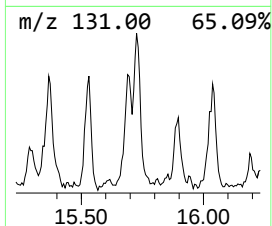
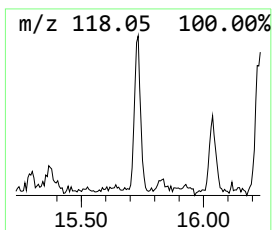
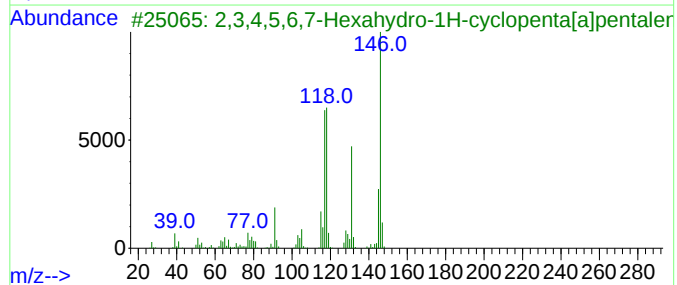
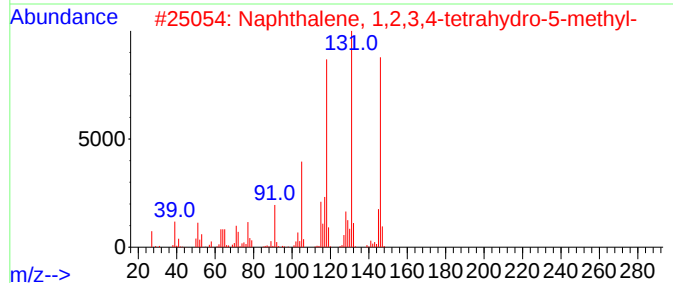
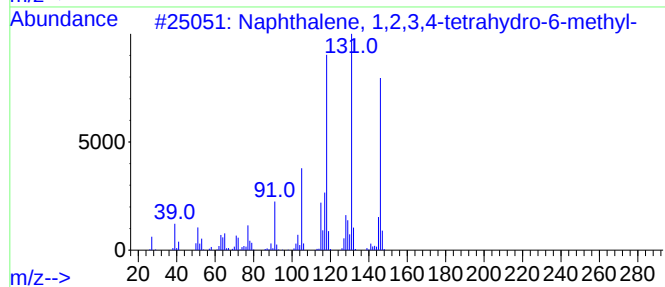
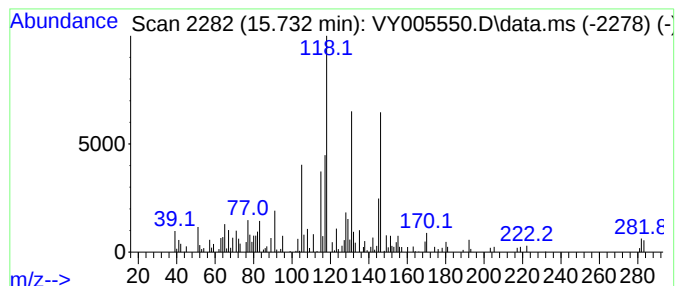
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 4

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 15.732 | 9.85 ug/l | 58311 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 001680-51-9  | 76   |
| 2    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 002809-64-5  | 68   |
| 3    |    |   | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14   | 1010189-31-0 | 47   |
| 4    |    |   | Cyclohexanecarboxylic acid, 3-ph... | 246 | C16H22O2 | 070275-61-5  | 35   |
| 5    |    |   | 1H-Benzimidazole, 1-ethyl-          | 146 | C9H10N2  | 007035-68-9  | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080521\  
Data File : VY005550.D  
Acq On : 05 Aug 2021 13:04  
Operator : SY/MD  
Sample : M3289-03  
Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

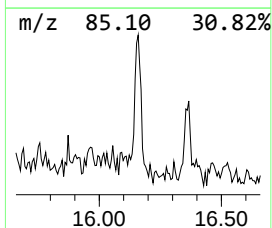
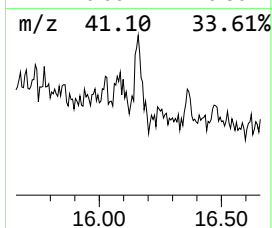
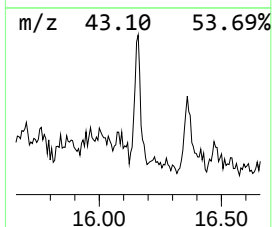
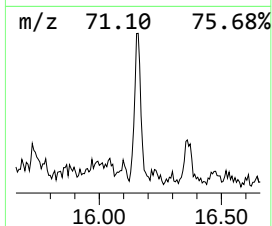
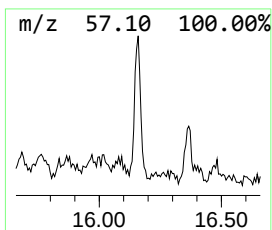
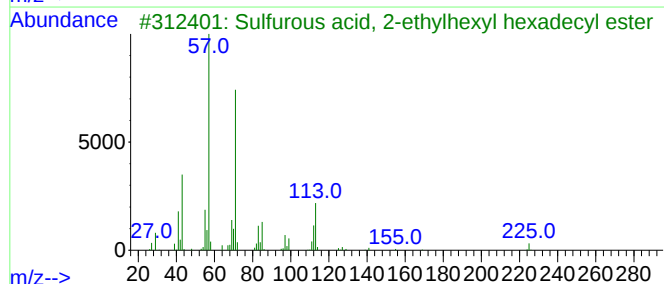
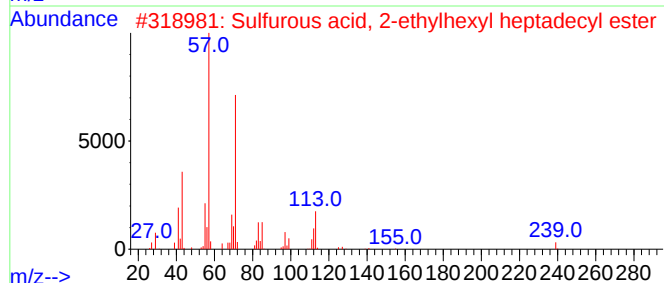
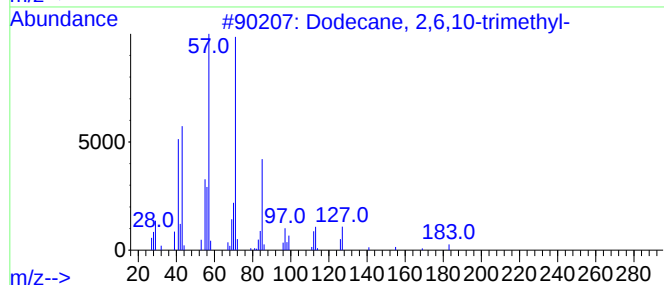
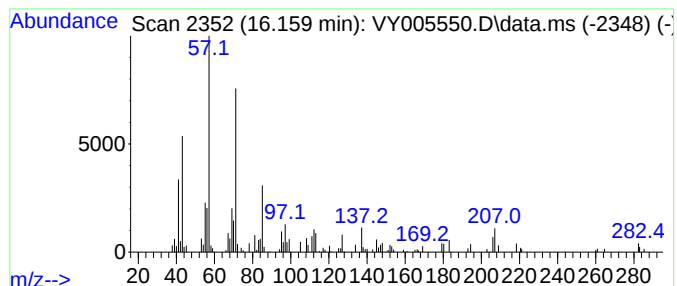
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

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Peak Number 7 Dodecane, 2,6,10-trimethyl- Concentration Rank 7

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 16.159 | 5.88 ug/l | 34820 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32    | 003891-98-3  | 58   |
| 2    |    |   | Sulfurous acid, 2-ethylhexyl hep... | 432 | C25H52O3S | 1000309-20-0 | 52   |
| 3    |    |   | Sulfurous acid, 2-ethylhexyl hex... | 418 | C24H50O3S | 1000309-19-9 | 50   |
| 4    |    |   | Dodecane, 2,6,11-trimethyl-         | 212 | C15H32    | 031295-56-4  | 50   |
| 5    |    |   | Sulfurous acid, 2-ethylhexyl tet... | 390 | C22H46O3S | 1000309-19-7 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080521\  
Data File : VY005550.D  
Acq On : 05 Aug 2021 13:04  
Operator : SY/MD  
Sample : M3289-03  
Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
26240

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.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 |
| Sulfur dioxide     | 2.052  | 6.7     | ug/l  | 12119    | 1                     | 7.801  | 90641  | 50.0 |
| unknown14.263      | 14.263 | 14.4    | ug/l  | 85414    | 4                     | 13.428 | 295880 | 50.0 |
| unknown14.684      | 14.684 | 10.2    | ug/l  | 60120    | 4                     | 13.428 | 295880 | 50.0 |
| Cyclohexane, he... | 15.147 | 6.3     | ug/l  | 37063    | 4                     | 13.428 | 295880 | 50.0 |
| Sulfurous acid,... | 15.214 | 14.2    | ug/l  | 84282    | 4                     | 13.428 | 295880 | 50.0 |
| Naphthalene, 1,... | 15.732 | 9.8     | ug/l  | 58311    | 4                     | 13.428 | 295880 | 50.0 |
| Dodecane, 2,6,1... | 16.159 | 5.9     | ug/l  | 34820    | 4                     | 13.428 | 295880 | 50.0 |