

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
 Data File : VY022885.D  
 Acq On : 30 Jun 2025 17:12  
 Operator : SY/MD  
 Sample : Q2447-07  
 Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LAW-25-0100

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\82Y062325S.M  
 Title : SW846 8260

Signal : TIC: VY022885.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         | 3.897       | 336           | 357         | 379          | rBV      | 152559         | 649950        | 1.37%           | 0.774%        |
| 2         | 4.647       | 460           | 480         | 497          | rBV3     | 153515         | 763882        | 1.61%           | 0.910%        |
| 3         | 5.634       | 628           | 642         | 661          | rBV2     | 193395         | 613614        | 1.29%           | 0.731%        |
| 4         | 6.683       | 806           | 814         | 825          | rVB      | 182411         | 561224        | 1.18%           | 0.668%        |
| 5         | 7.439       | 920           | 938         | 949          | rBV      | 196902         | 573098        | 1.21%           | 0.682%        |
| 6         | 7.677       | 961           | 977         | 988          | rBV4     | 2142241        | 6517854       | 13.74%          | 7.761%        |
| 7         | 7.787       | 988           | 995         | 1006         | rVB      | 717454         | 1774450       | 3.74%           | 2.113%        |
| 8         | 7.915       | 1006          | 1016        | 1032         | rBV      | 2709311        | 6318429       | 13.32%          | 7.524%        |
| 9         | 8.067       | 1032          | 1041        | 1052         | rBV3     | 384229         | 990628        | 2.09%           | 1.180%        |
| 10        | 8.189       | 1052          | 1061        | 1066         | rBV3     | 442323         | 1145526       | 2.41%           | 1.364%        |
| 11        | 8.244       | 1066          | 1070        | 1080         | rVV3     | 428169         | 1233968       | 2.60%           | 1.469%        |
| 12        | 8.335       | 1080          | 1085        | 1096         | rVB      | 237361         | 541758        | 1.14%           | 0.645%        |
| 13        | 8.469       | 1096          | 1107        | 1122         | rBV      | 1952504        | 3783025       | 7.97%           | 4.505%        |
| 14        | 8.610       | 1122          | 1130        | 1138         | rBV      | 675200         | 1382301       | 2.91%           | 1.646%        |
| 15        | 9.103       | 1197          | 1211        | 1217         | rBV2     | 733053         | 1863156       | 3.93%           | 2.219%        |
| 16        | 9.676       | 1292          | 1305        | 1311         | rBV3     | 280516         | 742535        | 1.57%           | 0.884%        |
| 17        | 9.884       | 1329          | 1339        | 1350         | rBV      | 247345         | 572071        | 1.21%           | 0.681%        |
| 18        | 10.103      | 1369          | 1375        | 1379         | rBV      | 952484         | 1606755       | 3.39%           | 1.913%        |
| 19        | 10.170      | 1379          | 1386        | 1394         | rVB      | 28500181       | 47439898      | 100.00%         | 56.488%       |
| 20        | 11.414      | 1583          | 1590        | 1597         | rBV      | 634425         | 1037706       | 2.19%           | 1.236%        |
| 21        | 11.518      | 1600          | 1607        | 1614         | rVV      | 403742         | 659269        | 1.39%           | 0.785%        |
| 22        | 11.621      | 1614          | 1624        | 1635         | rVB      | 827029         | 1632539       | 3.44%           | 1.944%        |
| 23        | 11.950      | 1666          | 1678        | 1686         | rBV      | 267029         | 486108        | 1.02%           | 0.579%        |
| 24        | 12.255      | 1722          | 1728        | 1738         | rBV      | 334976         | 585829        | 1.23%           | 0.698%        |
| 25        | 12.402      | 1747          | 1752        | 1757         | rVB      | 343165         | 506242        | 1.07%           | 0.603%        |

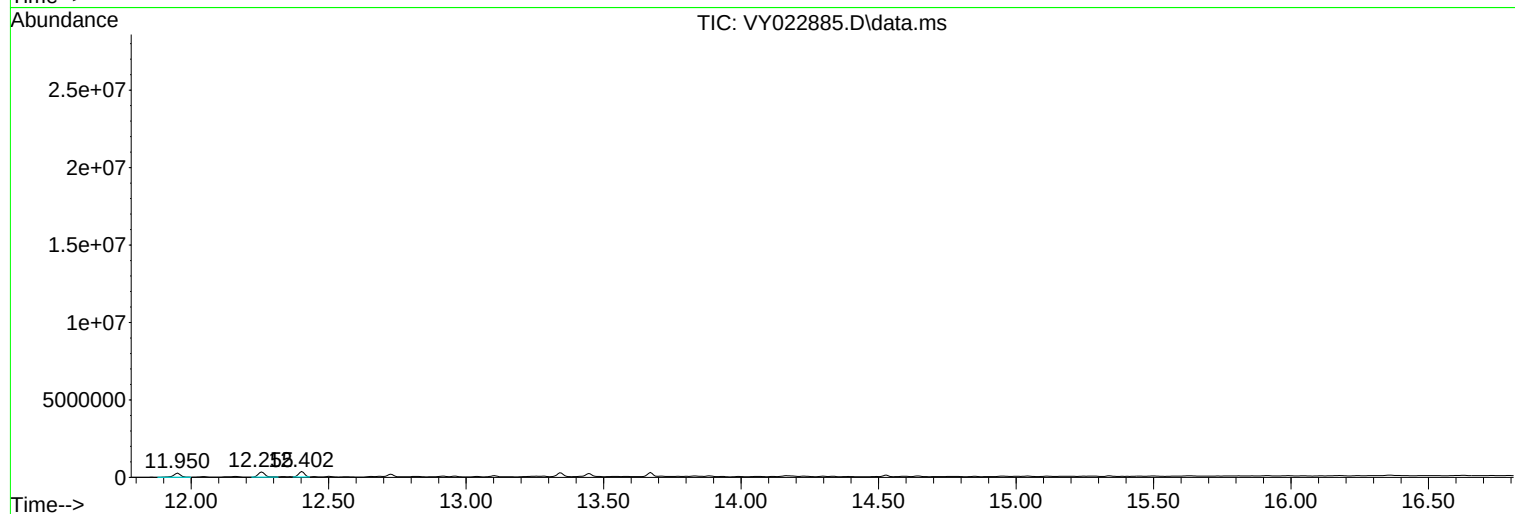
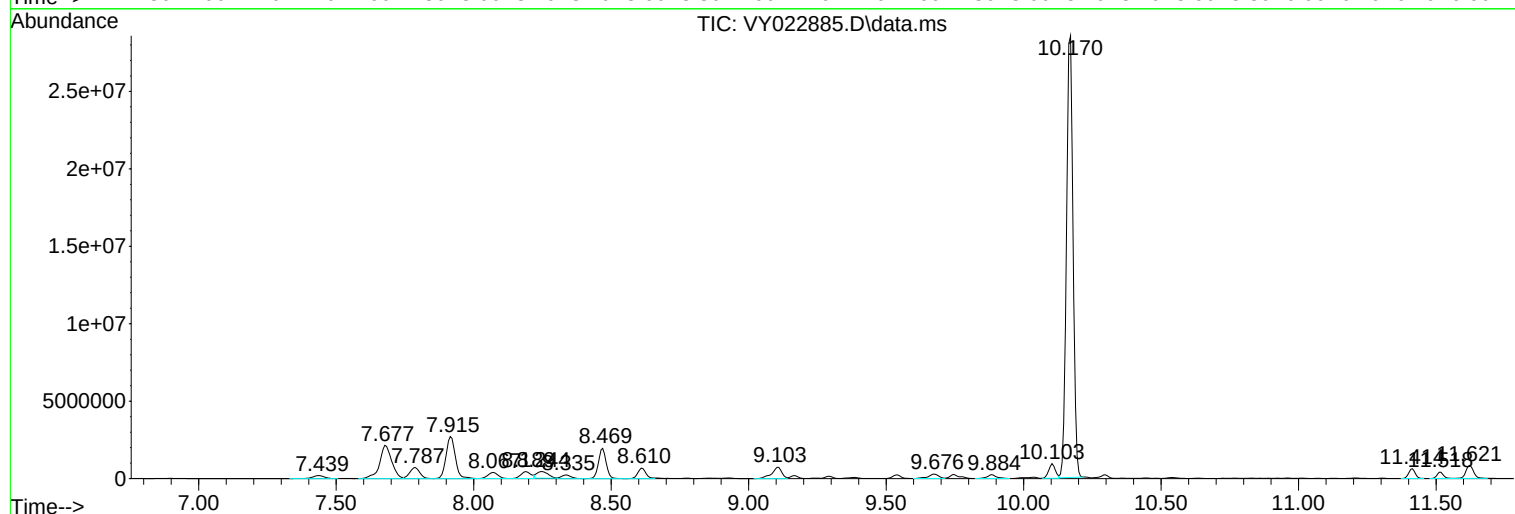
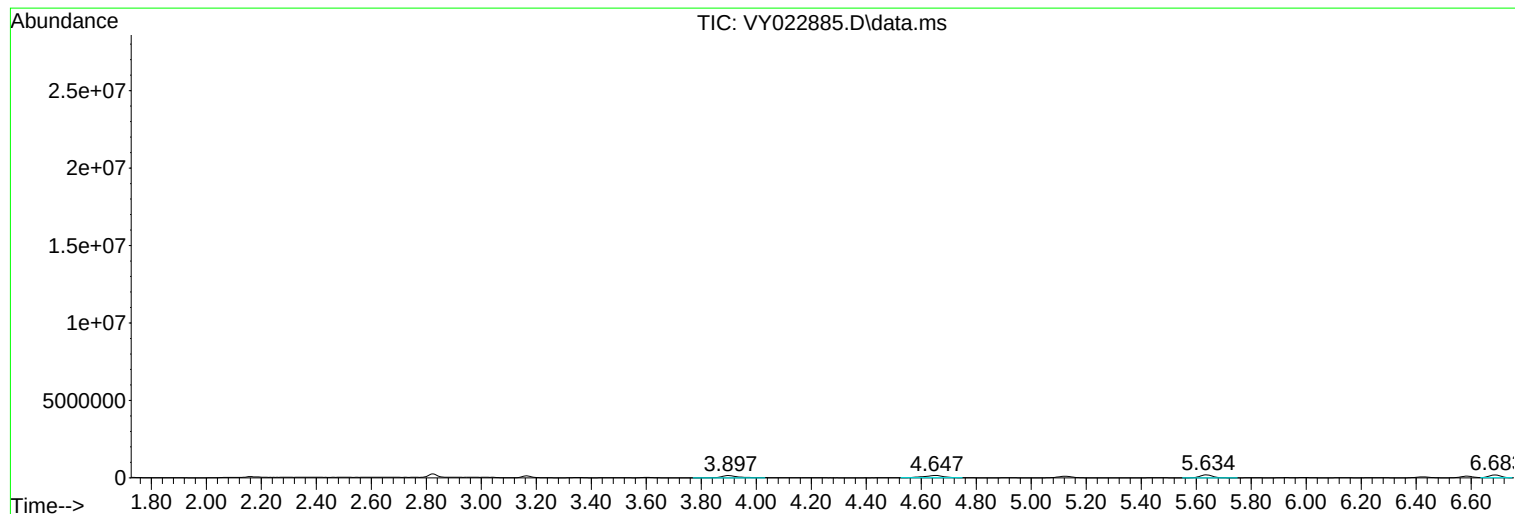
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260

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



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Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

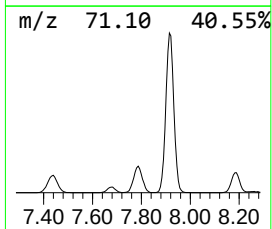
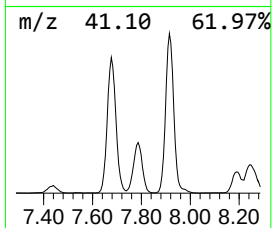
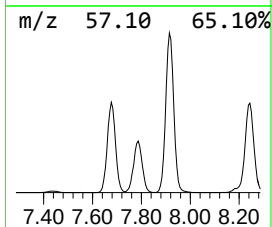
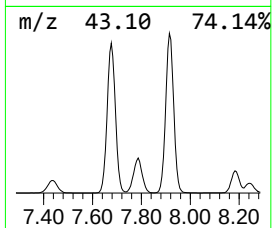
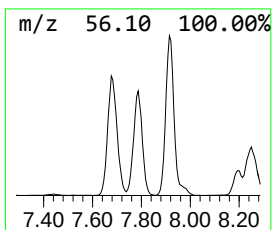
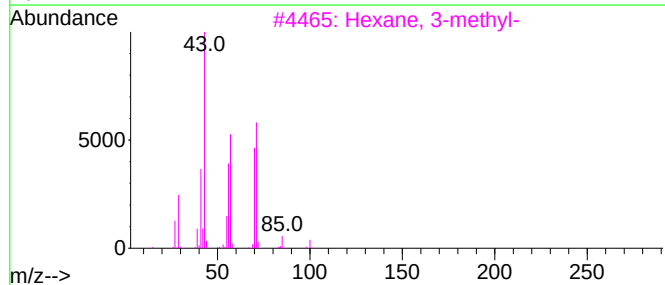
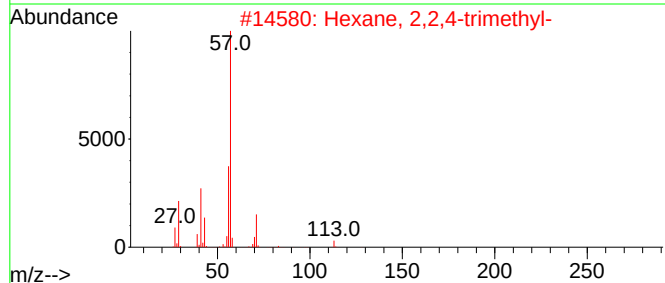
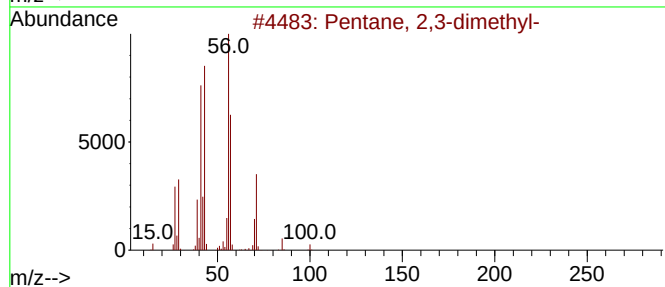
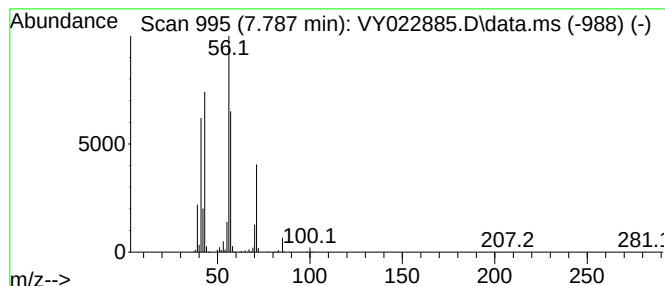
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Pentane, 2,3-dimethyl- Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD   | R.T.  |
|-------|------------|---------|--------------------|-------|
| 7.787 | 13.61 ug/l | 1774450 | Pentafluorobenzene | 7.707 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Pentane, 2,3-dimethyl-             | 100 | C7H16    | 000565-59-3  | 95   |
| 2    |    |   | Hexane, 2,2,4-trimethyl-           | 128 | C9H20    | 016747-26-5  | 42   |
| 3    |    |   | Hexane, 3-methyl-                  | 100 | C7H16    | 000589-34-4  | 38   |
| 4    |    |   | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 38   |
| 5    |    |   | Hexane, 2,2,5,5-tetramethyl-       | 142 | C10H22   | 001071-81-4  | 37   |



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Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

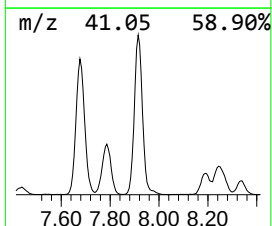
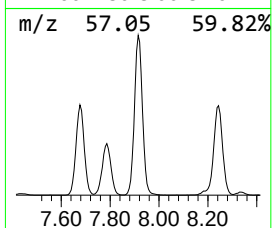
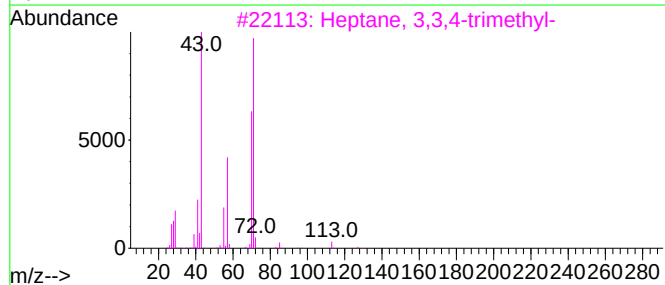
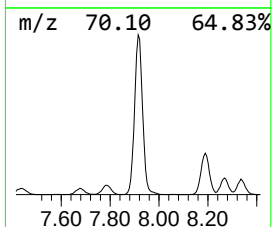
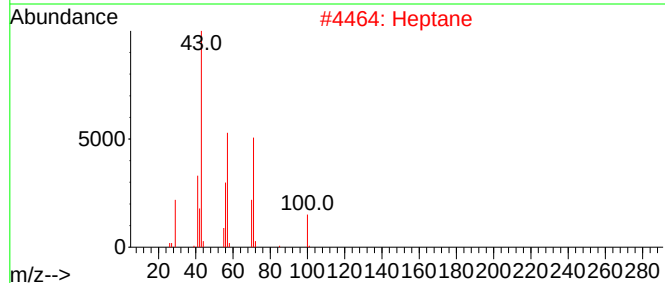
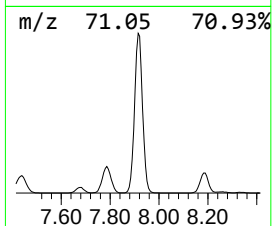
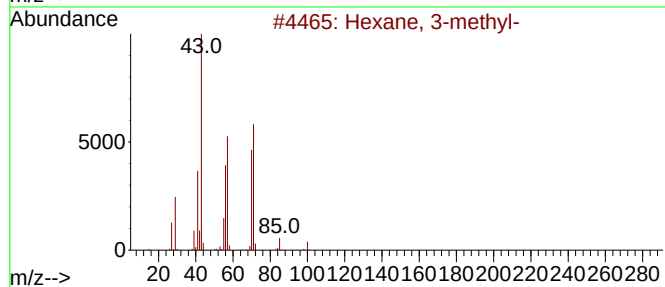
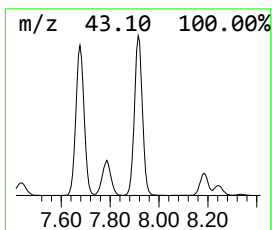
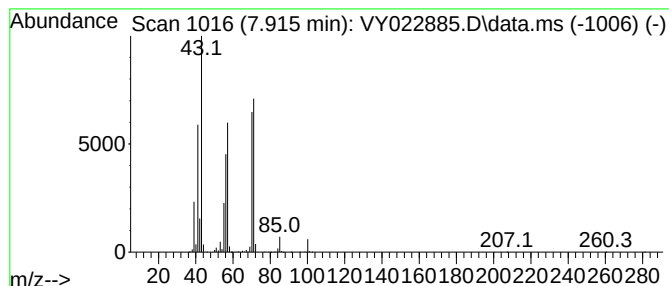
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Hexane, 3-methyl- Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD   | R.T.  |
|-------|------------|---------|--------------------|-------|
| 7.915 | 48.47 ug/l | 6318430 | Pentafluorobenzene | 7.707 |

| Hit# | of 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|------|---------------------------|-----|---------|-------------|------|
| 1    |      | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 91   |
| 2    |      | Heptane                   | 100 | C7H16   | 000142-82-5 | 80   |
| 3    |      | Heptane, 3,3,4-trimethyl- | 142 | C10H22  | 020278-87-9 | 53   |
| 4    |      | Pentane, 3-ethyl-         | 100 | C7H16   | 000617-78-7 | 53   |
| 5    |      | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 53   |



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Sample : Q2447-07  
Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

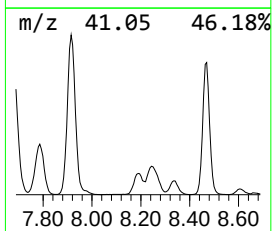
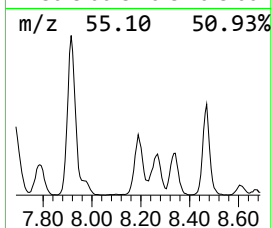
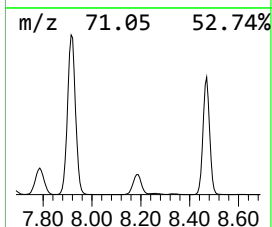
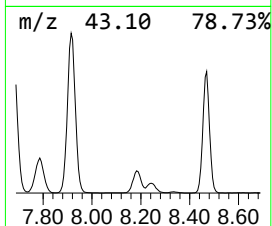
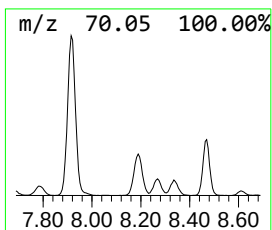
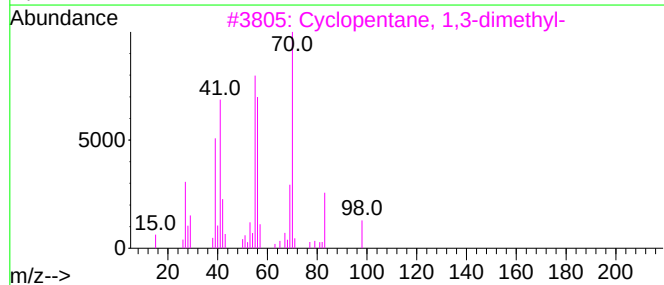
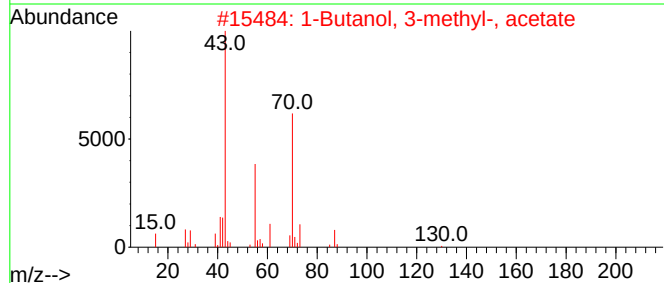
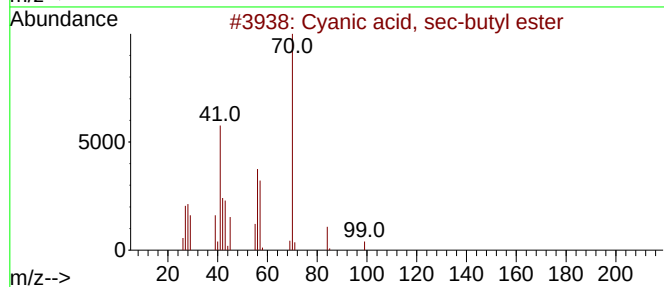
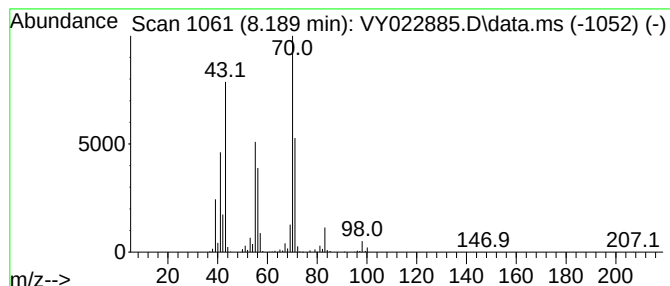
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260

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

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Peak Number 3 unknown8.189 Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD    | R.T.  |
|-------|------------|---------|---------------------|-------|
| 8.189 | 41.44 ug/l | 1145530 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyanoic acid, sec-butyl ester     | 99  | C5H9NO  | 001873-13-8 | 49   |
| 2    |    |   | 1-Butanol, 3-methyl-, acetate     | 130 | C7H14O2 | 000123-92-2 | 47   |
| 3    |    |   | Cyclopentane, 1,3-dimethyl-       | 98  | C7H14   | 002453-00-1 | 43   |
| 4    |    |   | Cyclopentane, 1,3-dimethyl-, cis- | 98  | C7H14   | 002532-58-3 | 43   |
| 5    |    |   | Pentane, 3-ethyl-2-methyl-        | 114 | C8H18   | 000609-26-7 | 40   |



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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260

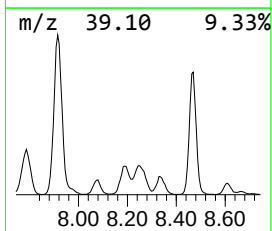
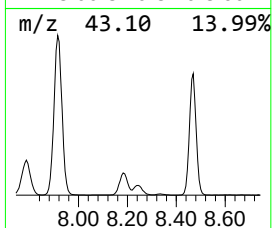
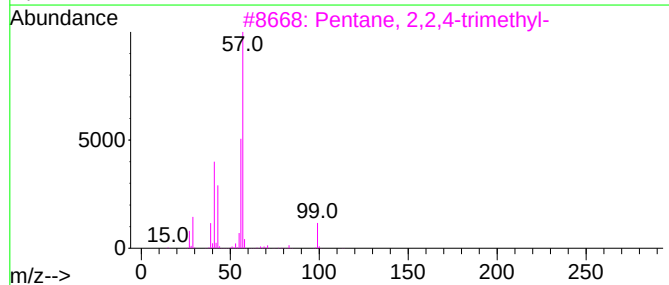
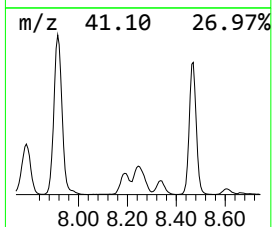
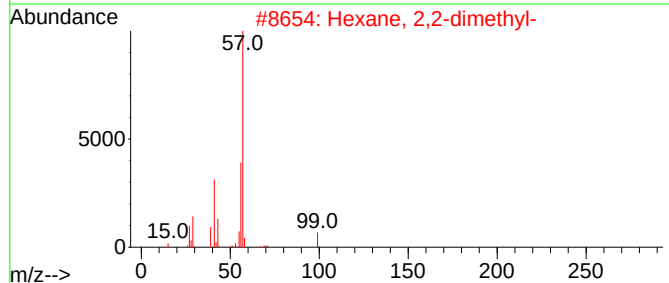
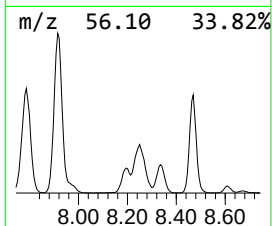
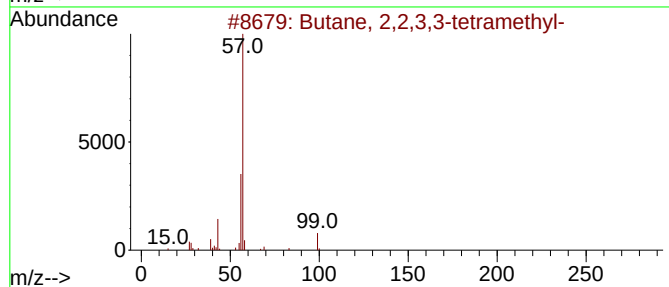
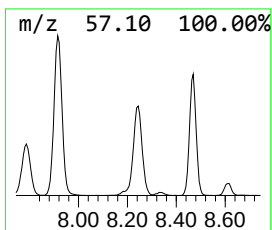
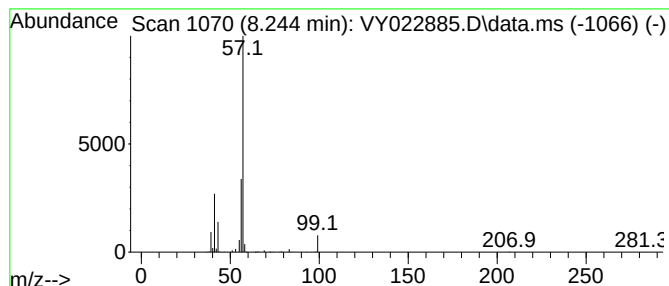
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Butane, 2,2,3,3-tetramethyl- Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD    | R.T.  |
|-------|------------|---------|---------------------|-------|
| 8.244 | 44.63 ug/l | 1233970 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of                              | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|---------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | Butane, 2,2,3,3-tetramethyl-    | 114 | C8H18        | 000594-82-1 | 78      |      |      |
| 2    | Hexane, 2,2-dimethyl-           | 114 | C8H18        | 000590-73-8 | 78      |      |      |
| 3    | Pentane, 2,2,4-trimethyl-       | 114 | C8H18        | 000540-84-1 | 74      |      |      |
| 4    | Pentane, 2,2,4,4-tetramethyl-   | 128 | C9H20        | 001070-87-7 | 72      |      |      |
| 5    | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26       | 013475-82-6 | 64      |      |      |



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Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

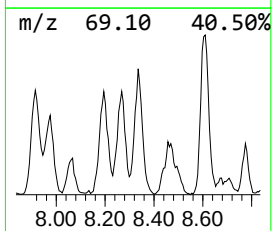
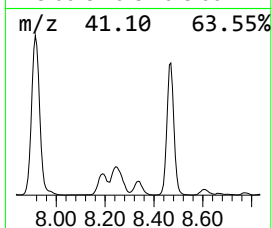
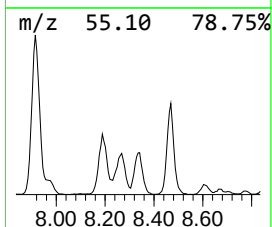
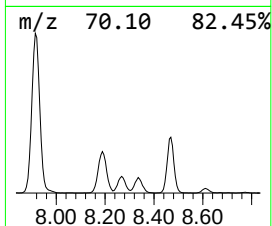
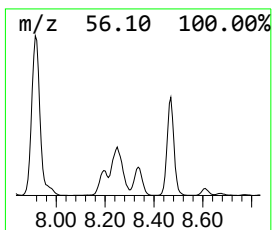
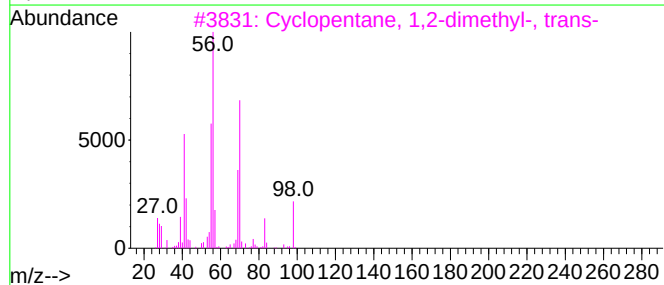
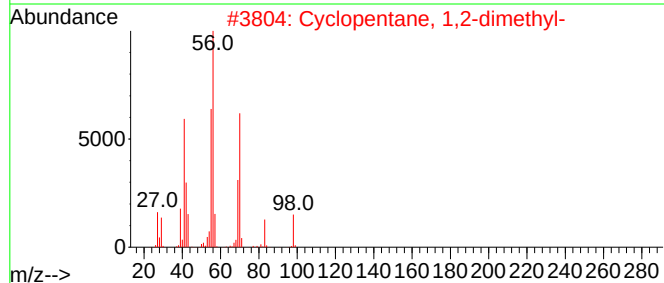
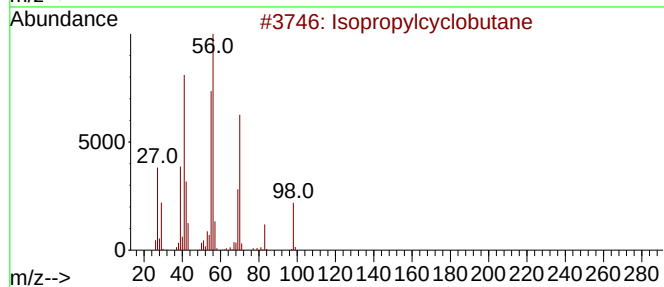
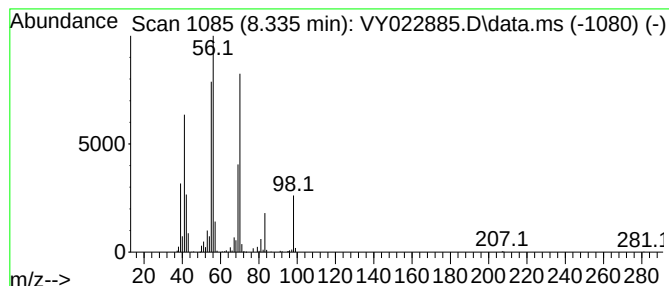
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Isopropylcyclobutane Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 8.335 | 19.60 ug/l | 541758 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID                        | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|----|---------|-------------|------|
| 1    |    |   | Isopropylcyclobutane                | 98 | C7H14   | 000872-56-0 | 94   |
| 2    |    |   | Cyclopentane, 1,2-dimethyl-         | 98 | C7H14   | 002452-99-5 | 91   |
| 3    |    |   | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14   | 000822-50-4 | 91   |
| 4    |    |   | 1-Heptene                           | 98 | C7H14   | 000592-76-7 | 87   |
| 5    |    |   | Cyclopentane, 1,2-dimethyl-, cis-   | 98 | C7H14   | 001192-18-3 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
Data File : VY022885.D  
Acq On : 30 Jun 2025 17:12  
Operator : SY/MD  
Sample : Q2447-07  
Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

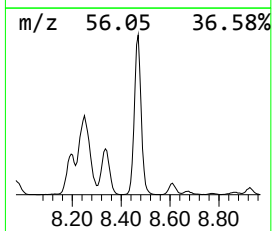
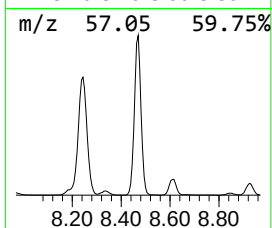
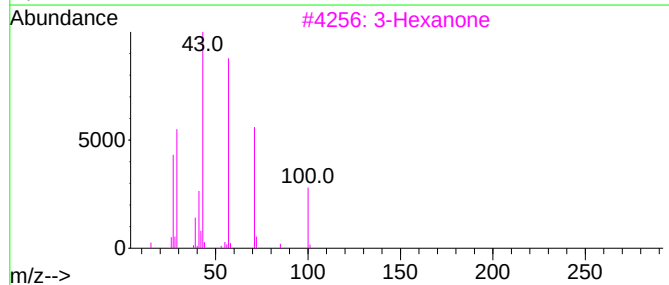
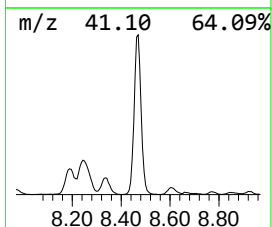
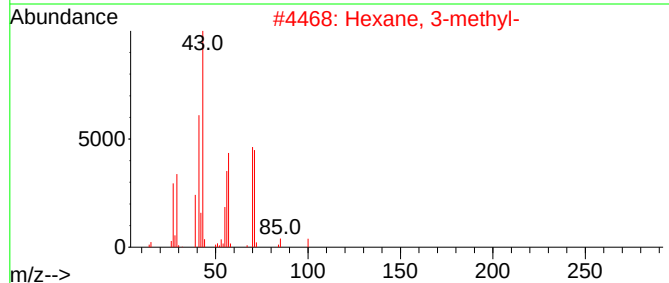
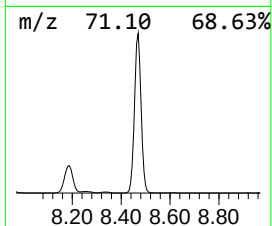
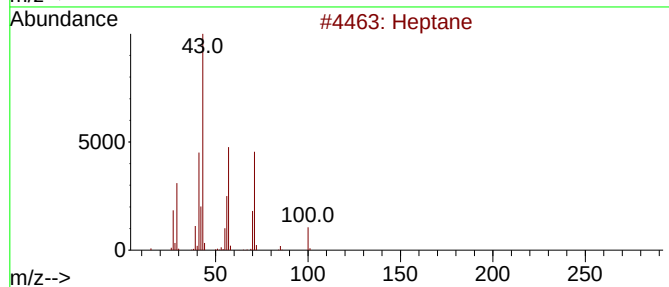
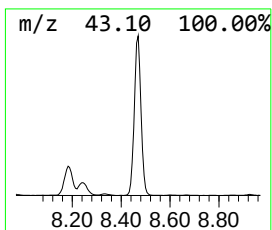
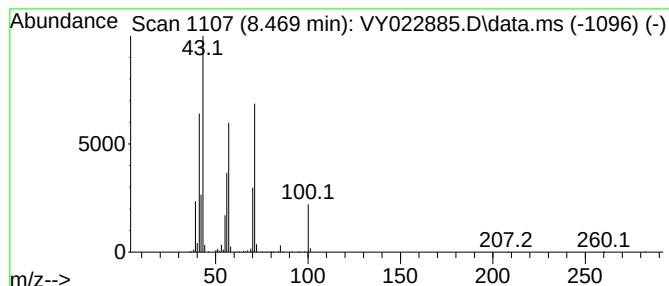
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Heptane Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD    | R.T.  |
|-------|-------------|---------|---------------------|-------|
| 8.469 | 136.84 ug/l | 3783030 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane                       | 100 | C7H16   | 000142-82-5 | 91   |
| 2    |    |   | Hexane, 3-methyl-             | 100 | C7H16   | 000589-34-4 | 47   |
| 3    |    |   | 3-Hexanone                    | 100 | C6H12O  | 000589-38-8 | 43   |
| 4    |    |   | Pentane, 2-methyl-            | 86  | C6H14   | 000107-83-5 | 43   |
| 5    |    |   | Acetaldehyde, propylhydrazone | 100 | C5H12N2 | 007422-88-0 | 38   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
Data File : VY022885.D  
Acq On : 30 Jun 2025 17:12  
Operator : SY/MD  
Sample : Q2447-07  
Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

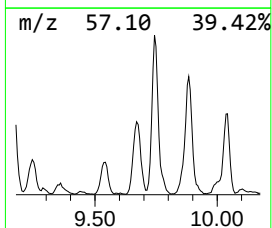
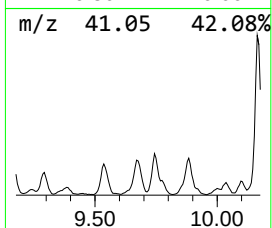
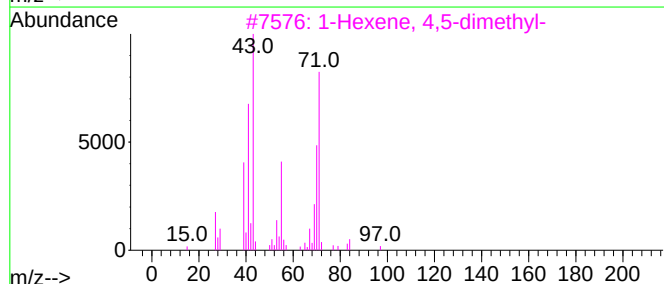
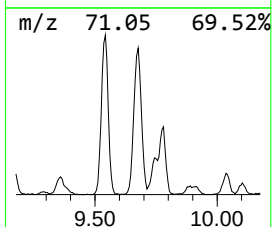
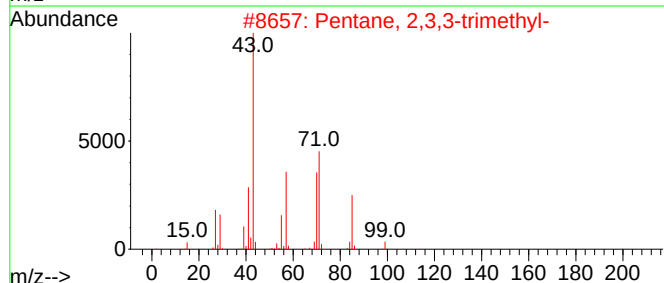
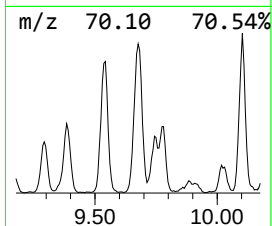
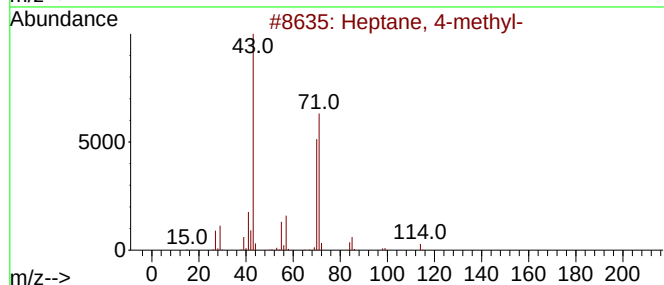
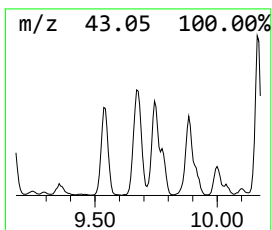
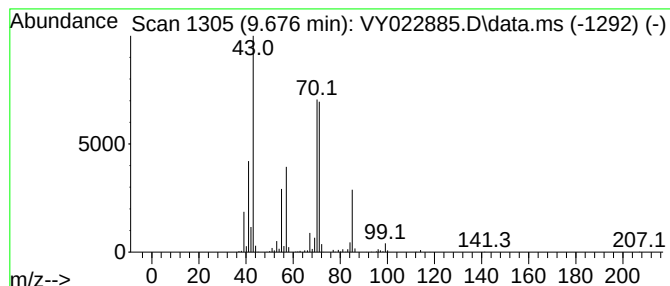
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Quant Title : SW846 8260

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

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Peak Number 7 Heptane, 4-methyl- Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 9.676 | 26.86 ug/l | 742535 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 72   |
| 2    |    |   | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 72   |
| 3    |    |   | 1-Hexene, 4,5-dimethyl-   | 112 | C8H16   | 016106-59-5 | 59   |
| 4    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 59   |
| 5    |    |   | Hexane, 2,3,4-trimethyl-  | 128 | C9H20   | 000921-47-1 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
Data File : VY022885.D  
Acq On : 30 Jun 2025 17:12  
Operator : SY/MD  
Sample : Q2447-07  
Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

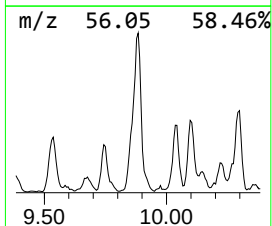
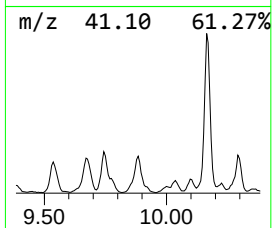
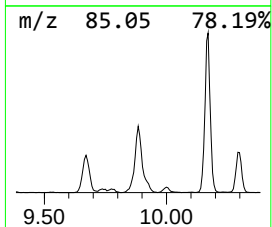
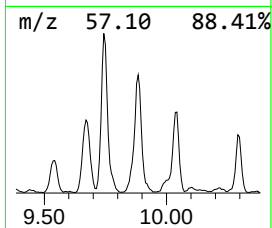
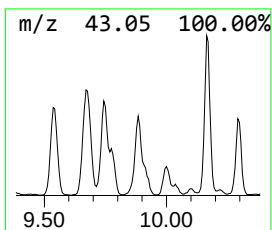
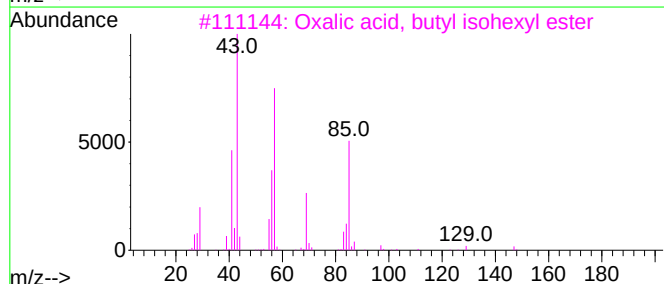
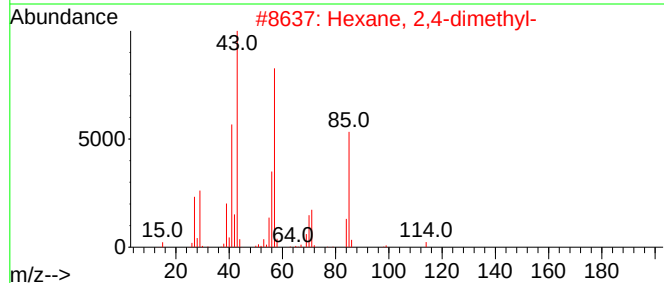
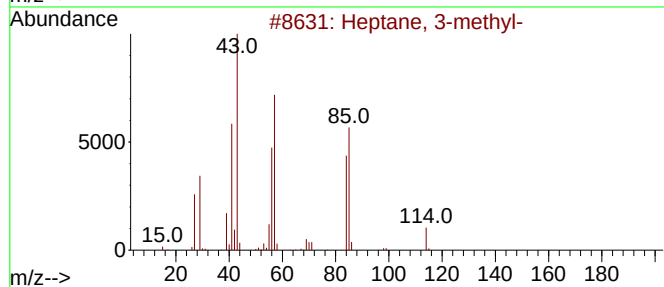
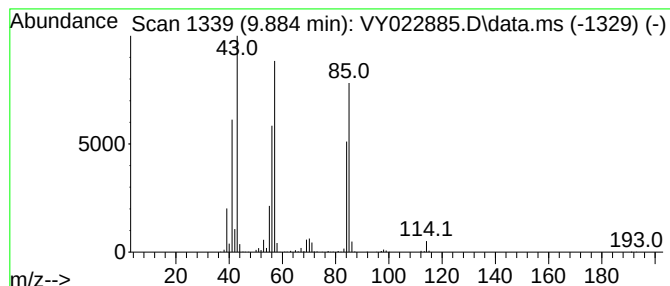
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
Quant Title : SW846 8260

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

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Peak Number 8 Heptane, 3-methyl- Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 9.884 | 20.69 ug/l | 572071 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Heptane, 3-methyl-                | 114 | C8H18    | 000589-81-1  | 91   |
| 2    |    |   | Hexane, 2,4-dimethyl-             | 114 | C8H18    | 000589-43-5  | 64   |
| 3    |    |   | Oxalic acid, butyl isohexyl ester | 230 | C12H22O4 | 1000309-32-7 | 64   |
| 4    |    |   | Pentane, 3-ethyl-2,4-dimethyl-    | 128 | C9H20    | 001068-87-7  | 59   |
| 5    |    |   | Butane, 2,2,3-trimethyl-          | 100 | C7H16    | 000464-06-2  | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
Data File : VY022885.D  
Acq On : 30 Jun 2025 17:12  
Operator : SY/MD  
Sample : Q2447-07  
Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

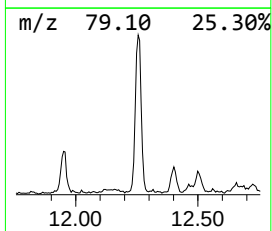
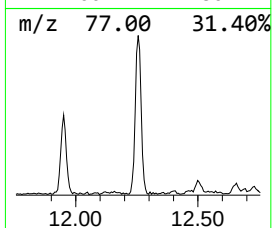
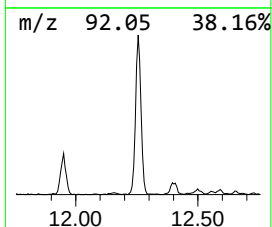
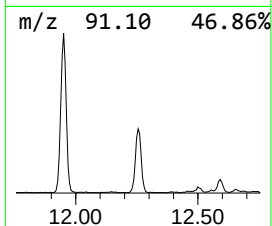
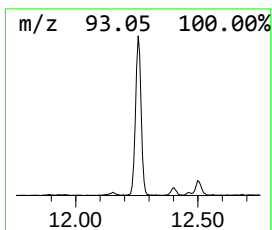
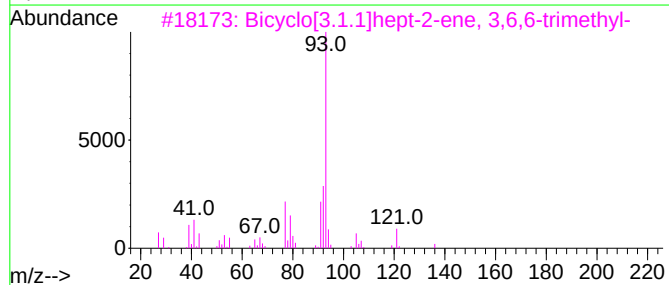
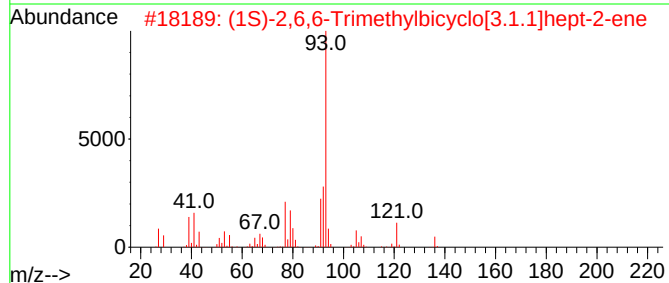
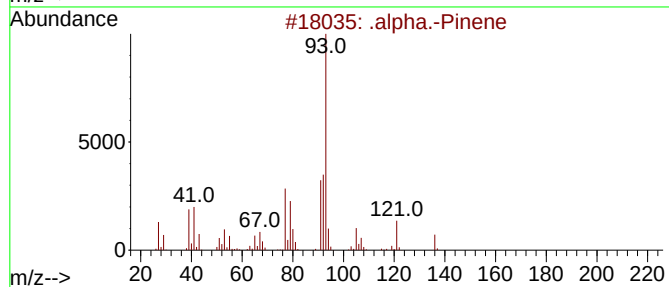
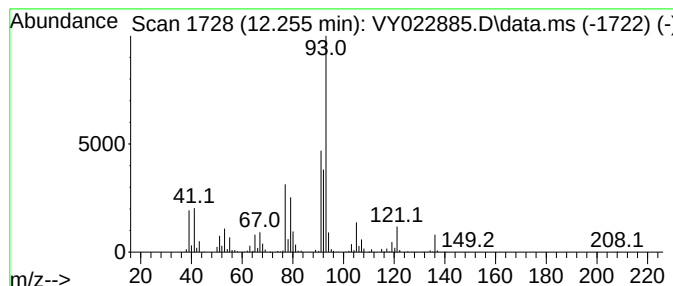
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Quant Title : SW846 8260

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

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Peak Number 9 .alpha.-Pinene Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.255 | 28.23 ug/l | 585829 | Chlorobenzene-d5 | 11.414 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 95   |
| 2    |    |   | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-26-4 | 94   |
| 3    |    |   | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16  | 004889-83-2 | 91   |
| 4    |    |   | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16  | 000508-32-7 | 90   |
| 5    |    |   | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-70-8 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063025\  
Data File : VY022885.D  
Acq On : 30 Jun 2025 17:12  
Operator : SY/MD  
Sample : Q2447-07  
Misc : 3.50g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LAW-25-0100

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.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 |
| Pentane, 2,3-di... | 7.787  | 13.6    | ug/l  | 1774450  | 1                     | 7.707  | 6517850 | 50.0 |
| Hexane, 3-methyl-  | 7.915  | 48.5    | ug/l  | 6318430  | 1                     | 7.707  | 6517850 | 50.0 |
| unknown8.189       | 8.189  | 41.4    | ug/l  | 1145530  | 2                     | 8.610  | 1382300 | 50.0 |
| Butane, 2,2,3,3... | 8.244  | 44.6    | ug/l  | 1233970  | 2                     | 8.610  | 1382300 | 50.0 |
| Isopropylcyclob... | 8.335  | 19.6    | ug/l  | 541758   | 2                     | 8.610  | 1382300 | 50.0 |
| Heptane            | 8.469  | 136.8   | ug/l  | 3783030  | 2                     | 8.610  | 1382300 | 50.0 |
| Heptane, 4-methyl- | 9.676  | 26.9    | ug/l  | 742535   | 2                     | 8.610  | 1382300 | 50.0 |
| Heptane, 3-methyl- | 9.884  | 20.7    | ug/l  | 572071   | 2                     | 8.610  | 1382300 | 50.0 |
| .alpha.-Pinene     | 12.255 | 28.2    | ug/l  | 585829   | 3                     | 11.414 | 1037710 | 50.0 |