

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061019\  
 Data File : VF062915.D  
 Acq On : 10 Jun 2019 19:21  
 Operator : FY/SY  
 Sample : K3273-08  
 Misc : 4.60g/5mL/MSVOA F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SB-5 9.5-10.0 060719

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.129    | 57         | 60       | 63        | rBV4  | 12723       | 27065      | 1.18%        | 0.148%     |
| 2      | 2.311    | 176        | 180      | 182       | rBV5  | 9391        | 24499      | 1.07%        | 0.134%     |
| 3      | 3.130    | 261        | 263      | 267       | rVB   | 31606       | 37889      | 1.65%        | 0.207%     |
| 4      | 4.322    | 377        | 384      | 392       | rBV   | 402149      | 1241240    | 54.18%       | 6.766%     |
| 5      | 5.062    | 450        | 459      | 469       | rBV2  | 703722      | 2291065    | 100.00%      | 12.489%    |
| 6      | 5.781    | 526        | 532      | 540       | rBV   | 808004      | 2136755    | 93.26%       | 11.648%    |
| 7      | 7.713    | 723        | 728      | 736       | rBV   | 924981      | 2218636    | 96.84%       | 12.094%    |
| 8      | 9.911    | 946        | 951      | 960       | rVV   | 941934      | 2158039    | 94.19%       | 11.764%    |
| 9      | 10.010   | 960        | 961      | 970       | rVB9  | 14291       | 38485      | 1.68%        | 0.210%     |
| 10     | 10.877   | 1048       | 1049     | 1050      | rBV   | 59519       | 38766      | 1.69%        | 0.211%     |
| 11     | 11.360   | 1095       | 1098     | 1101      | rBV5  | 15003       | 29487      | 1.29%        | 0.161%     |
| 12     | 11.498   | 1108       | 1112     | 1120      | rVB   | 890320      | 1558470    | 68.02%       | 8.496%     |
| 13     | 11.636   | 1122       | 1126     | 1129      | rVV   | 47662       | 91804      | 4.01%        | 0.500%     |
| 14     | 11.735   | 1133       | 1136     | 1139      | rVB2  | 33331       | 54115      | 2.36%        | 0.295%     |
| 15     | 12.612   | 1222       | 1225     | 1233      | rVB   | 1439979     | 2241593    | 97.84%       | 12.220%    |
| 16     | 12.869   | 1248       | 1251     | 1253      | rBV2  | 38668       | 57976      | 2.53%        | 0.316%     |
| 17     | 12.987   | 1260       | 1263     | 1271      | rVB8  | 35191       | 120744     | 5.27%        | 0.658%     |
| 18     | 13.470   | 1304       | 1312     | 1322      | rVB7  | 106488      | 540649     | 23.60%       | 2.947%     |
| 19     | 13.746   | 1338       | 1340     | 1349      | rVB3  | 110034      | 224421     | 9.80%        | 1.223%     |
| 20     | 13.854   | 1349       | 1351     | 1352      | rBV2  | 23799       | 28552      | 1.25%        | 0.156%     |
| 21     | 13.894   | 1352       | 1355     | 1360      | rVB6  | 44712       | 111621     | 4.87%        | 0.608%     |
| 22     | 14.012   | 1364       | 1367     | 1372      | rVB7  | 28774       | 59107      | 2.58%        | 0.322%     |
| 23     | 14.120   | 1373       | 1378     | 1381      | rBV6  | 29586       | 93948      | 4.10%        | 0.512%     |
| 24     | 14.249   | 1389       | 1391     | 1395      | rVB5  | 20127       | 31882      | 1.39%        | 0.174%     |
| 25     | 14.337   | 1398       | 1400     | 1402      | rBV   | 30805       | 47434      | 2.07%        | 0.259%     |
| 26     | 14.485   | 1412       | 1415     | 1418      | rBV   | 189238      | 260477     | 11.37%       | 1.420%     |
| 27     | 14.564   | 1421       | 1423     | 1424      | rVB   | 27712       | 28979      | 1.26%        | 0.158%     |
| 28     | 14.594   | 1424       | 1426     | 1428      | rBV3  | 26550       | 45550      | 1.99%        | 0.248%     |
| 29     | 14.643   | 1428       | 1431     | 1434      | rVB3  | 48111       | 77400      | 3.38%        | 0.422%     |
| 30     | 14.771   | 1441       | 1444     | 1447      | rVB3  | 62068       | 91515      | 3.99%        | 0.499%     |
| 31     | 14.860   | 1449       | 1453     | 1454      | rVV4  | 29675       | 50691      | 2.21%        | 0.276%     |
| 32     | 14.899   | 1454       | 1457     | 1458      | rVV3  | 42655       | 68068      | 2.97%        | 0.371%     |
| 33     | 14.929   | 1458       | 1460     | 1463      | rVV2  | 54247       | 83368      | 3.64%        | 0.454%     |
| 34     | 14.978   | 1463       | 1465     | 1467      | rVB2  | 31693       | 37322      | 1.63%        | 0.203%     |

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MSVOA\_F  
ClientSampleId :  
SB-5 9.5-10.0 060719

## 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\_F\METHODS\82F053019S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 15.037 | 1467 | 1471 | 1475 | rBV2 | 116145 | 193690 | 8.45%  | 1.056% |
| 36 | 15.146 | 1479 | 1482 | 1485 | rBV  | 411958 | 501077 | 21.87% | 2.732% |
| 37 | 15.195 | 1485 | 1487 | 1490 | rVV4 | 48541  | 81650  | 3.56%  | 0.445% |
| 38 | 15.234 | 1490 | 1491 | 1493 | rVB2 | 39397  | 38575  | 1.68%  | 0.210% |
| 39 | 15.274 | 1493 | 1495 | 1496 | rBV2 | 17525  | 30018  | 1.31%  | 0.164% |
| 40 | 15.313 | 1496 | 1499 | 1502 | rVB  | 69580  | 108042 | 4.72%  | 0.589% |
| 41 | 15.372 | 1502 | 1505 | 1507 | rBV4 | 40879  | 84546  | 3.69%  | 0.461% |
| 42 | 15.422 | 1507 | 1510 | 1514 | rVB2 | 31144  | 83098  | 3.63%  | 0.453% |
| 43 | 15.589 | 1520 | 1527 | 1529 | rBV3 | 108013 | 229832 | 10.03% | 1.253% |
| 44 | 15.629 | 1529 | 1531 | 1533 | rVV3 | 44911  | 69828  | 3.05%  | 0.381% |
| 45 | 15.678 | 1533 | 1536 | 1540 | rVB2 | 53040  | 111529 | 4.87%  | 0.608% |
| 46 | 15.737 | 1540 | 1542 | 1547 | rBV5 | 19847  | 34816  | 1.52%  | 0.190% |
| 47 | 15.816 | 1547 | 1550 | 1552 | rBV  | 211219 | 345832 | 15.09% | 1.885% |
| 48 | 15.974 | 1563 | 1566 | 1567 | rBV3 | 24217  | 42820  | 1.87%  | 0.233% |
| 49 | 16.033 | 1568 | 1572 | 1575 | rVB4 | 67924  | 141291 | 6.17%  | 0.770% |

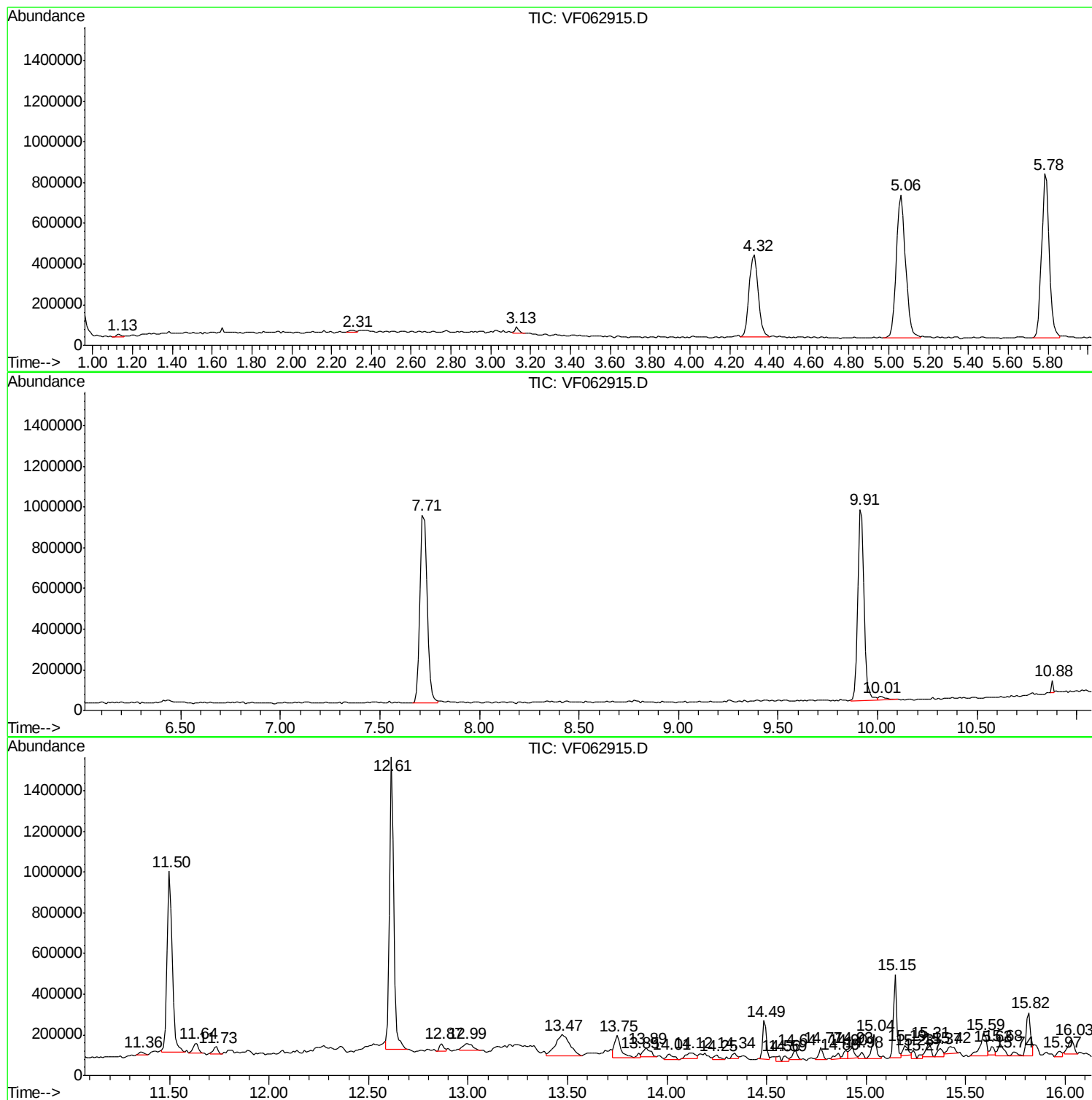
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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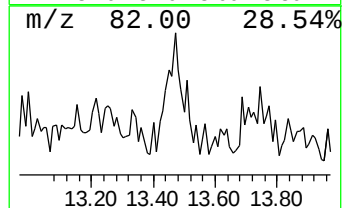
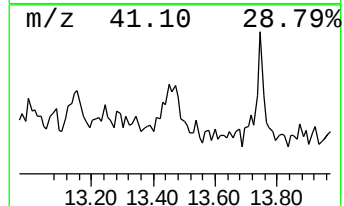
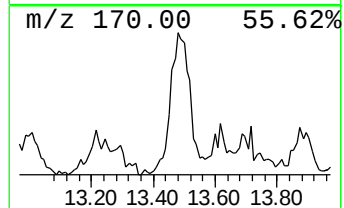
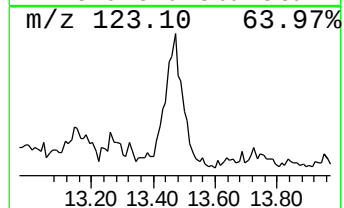
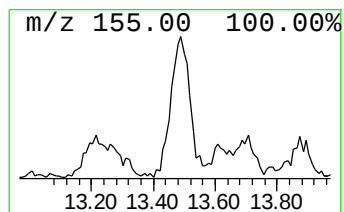
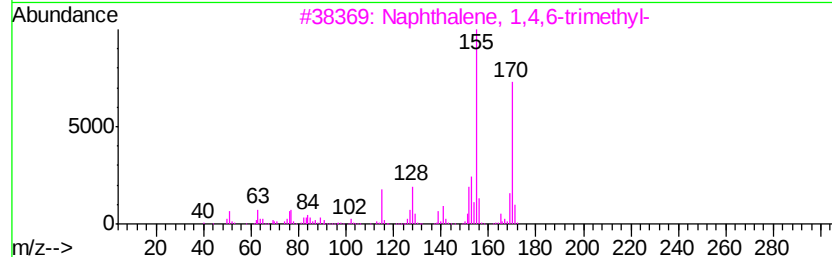
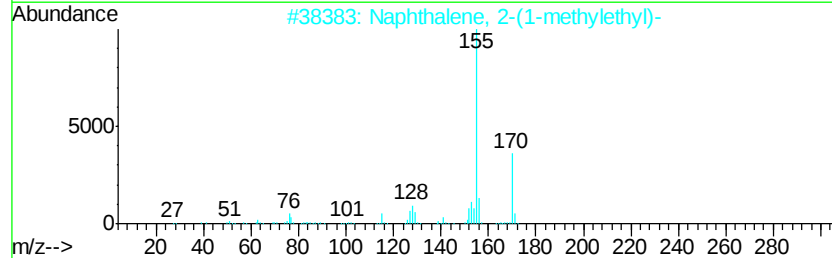
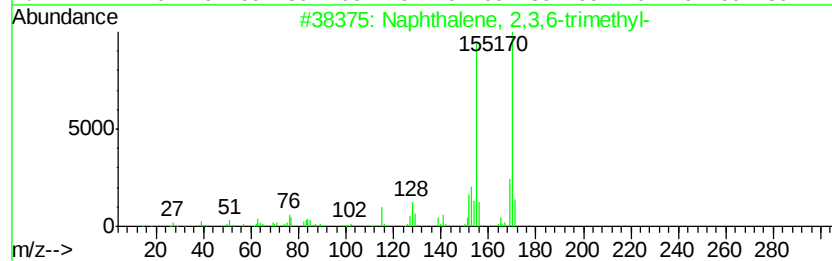
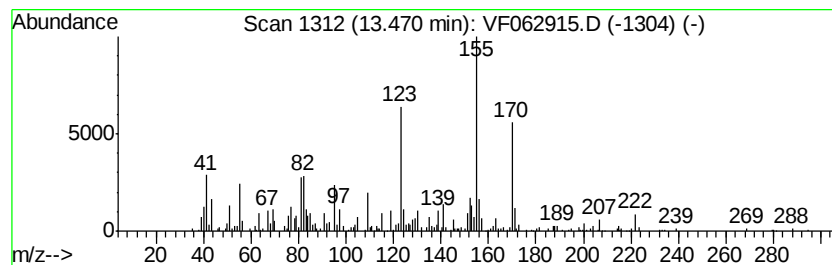
Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-5 9.5-10.0 060719

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Naphthalene, 2,3,6-trimethyl- Concentration Rank 1

| R.T.      | EstConc                            | Area   | Relative to ISTD       | R.T.        |      |
|-----------|------------------------------------|--------|------------------------|-------------|------|
| 13.47     | 12.06 ug/l                         | 540649 | 1,4-Dichlorobenzene-d4 | 12.61       |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 2,3,6-trimethyl-      | 170    | C13H14                 | 000829-26-5 | 60   |
| 2         | Naphthalene, 2-(1-methylethyl)-    | 170    | C13H14                 | 002027-17-0 | 53   |
| 3         | Naphthalene, 1,4,6-trimethyl-      | 170    | C13H14                 | 002131-42-2 | 53   |
| 4         | Phenol, 4-chloro-3-ethyl-5-methyl- | 170    | C9H11ClO               | 001125-66-2 | 46   |
| 5         | 4-Nitrocatechol                    | 155    | C6H5NO4                | 003316-09-4 | 30   |



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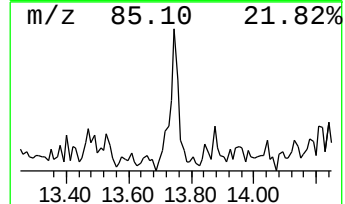
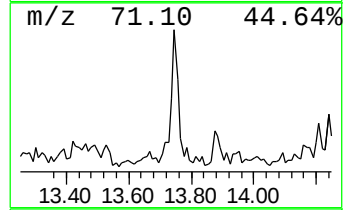
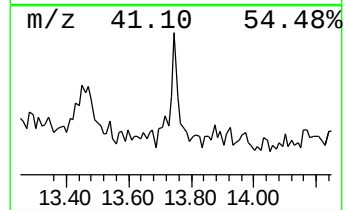
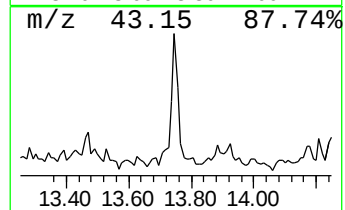
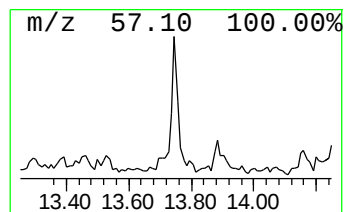
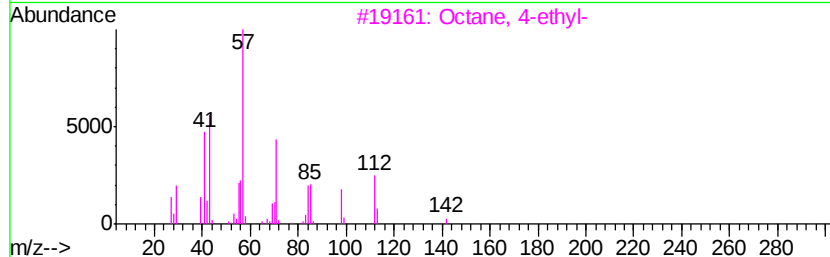
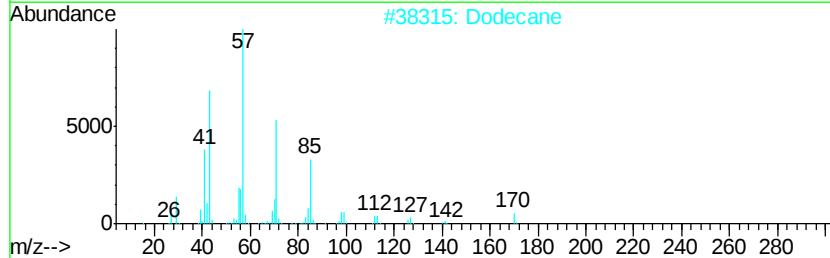
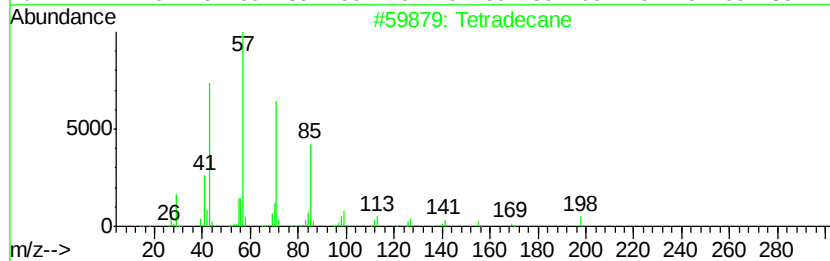
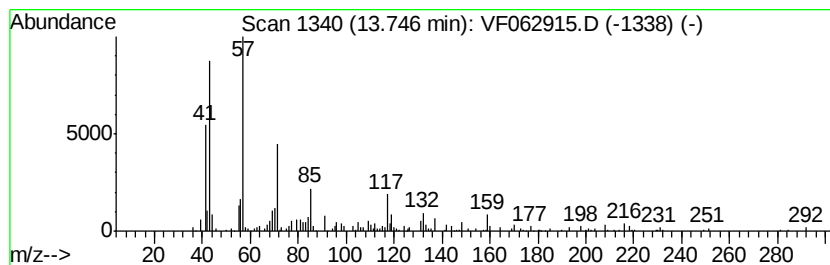
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Tetradecane Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.75 | 5.01 ug/l | 224421 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------|-----|----------|-------------|------|
| 1       |   | Tetradecane             | 198 | C14H30   | 000629-59-4 | 70   |
| 2       |   | Dodecane                | 170 | C12H26   | 000112-40-3 | 70   |
| 3       |   | Octane, 4-ethyl-        | 142 | C10H22   | 015869-86-0 | 62   |
| 4       |   | Tetradecane, 1-chloro-  | 232 | C14H29Cl | 002425-54-9 | 53   |
| 5       |   | Undecane, 2,3-dimethyl- | 184 | C13H28   | 017312-77-5 | 47   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260

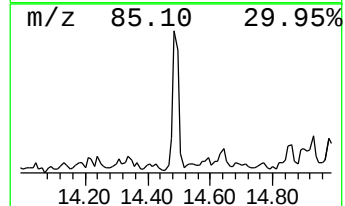
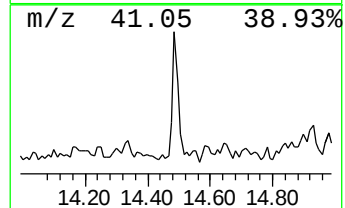
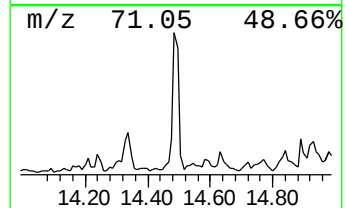
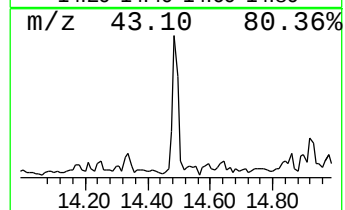
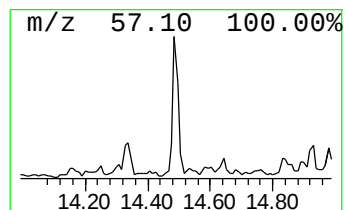
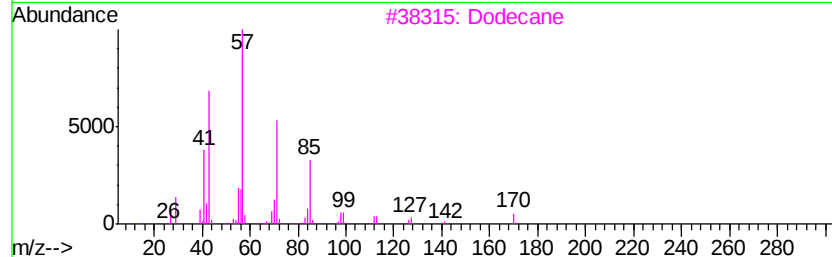
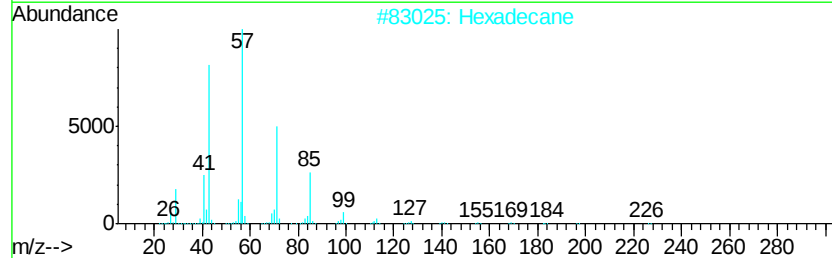
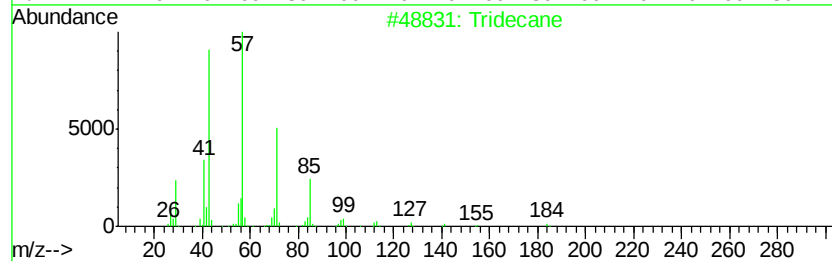
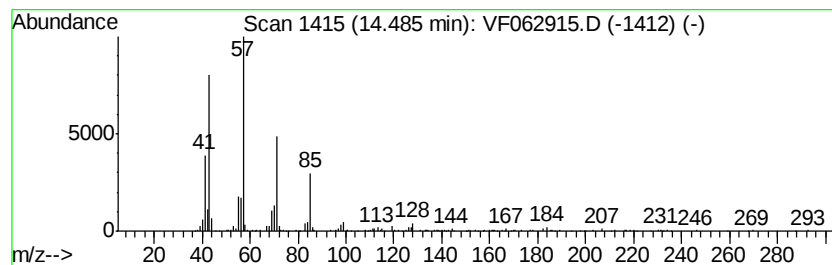
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 3 Tridecane Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.49 | 5.81 ug/l | 260477 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# of | 5                           | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|-----------------------------|--------------|-----|---------|--------------|------|
| 1       | Tridecane                   |              | 184 | C13H28  | 000629-50-5  | 90   |
| 2       | Hexadecane                  |              | 226 | C16H34  | 000544-76-3  | 78   |
| 3       | Dodecane                    |              | 170 | C12H26  | 000112-40-3  | 74   |
| 4       | 1-Iodo-2-methylnonane       |              | 268 | C10H21I | 1000101-47-9 | 72   |
| 5       | Dodecane, 2,6,11-trimethyl- |              | 212 | C15H32  | 031295-56-4  | 68   |



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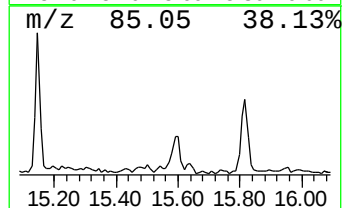
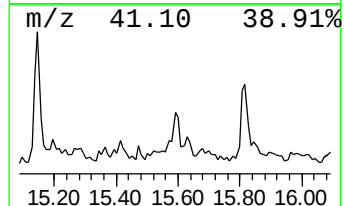
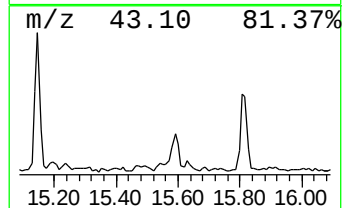
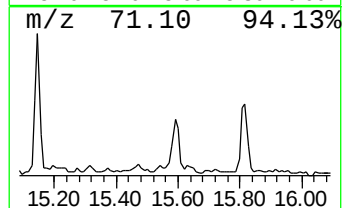
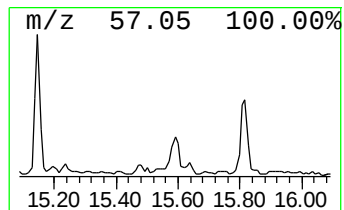
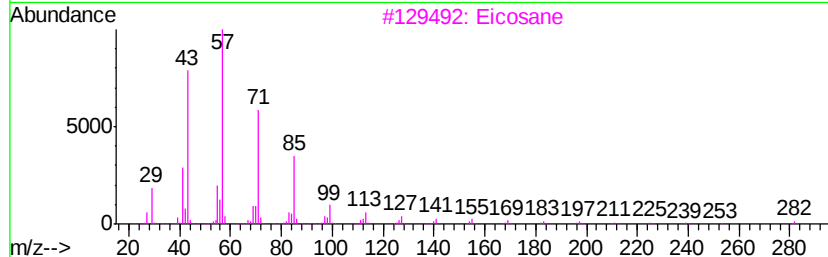
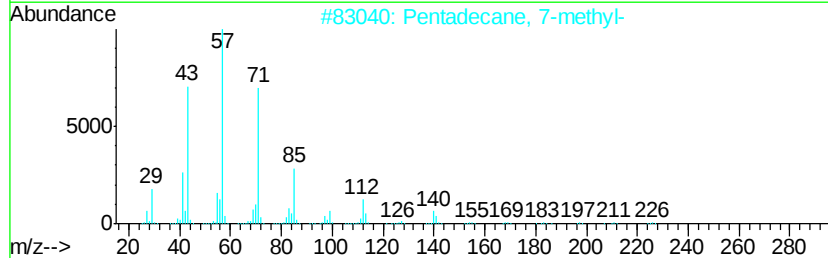
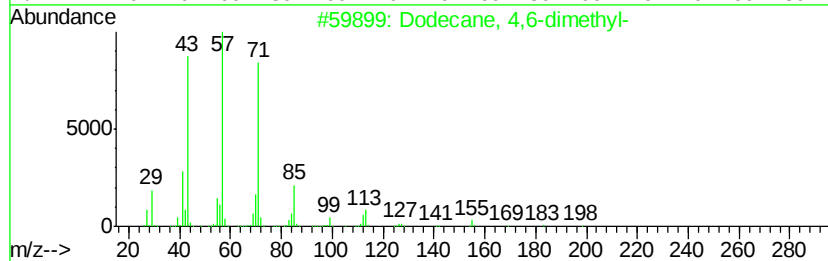
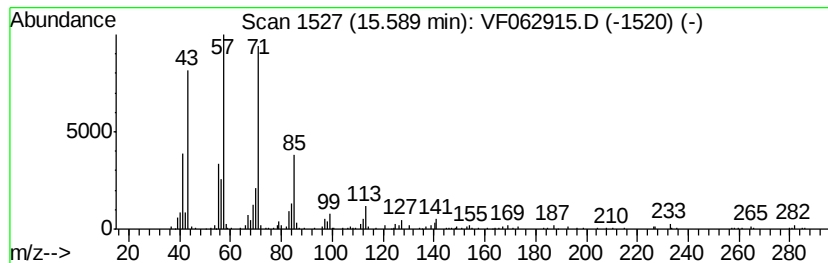
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Dodecane, 4,6-dimethyl- Concentration Rank 5

| R.T.      | EstConc                 | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------|--------|------------------------|-------------|------|
| 15.59     | 5.13 ug/l               | 229832 | 1,4-Dichlorobenzene-d4 | 12.61       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm                | CAS#        | Qual |
| 1         | Dodecane, 4,6-dimethyl- | 198    | C14H30                 | 061141-72-8 | 90   |
| 2         | Pentadecane, 7-methyl-  | 226    | C16H34                 | 006165-40-8 | 72   |
| 3         | Eicosane                | 282    | C20H42                 | 000112-95-8 | 60   |
| 4         | Heptacosane             | 380    | C27H56                 | 000593-49-7 | 52   |
| 5         | Tetradecane             | 198    | C14H30                 | 000629-59-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF061019\  
Data File : VF062915.D  
Acq On : 10 Jun 2019 19:21  
Operator : FY/SY  
Sample : K3273-08  
Misc : 4.60q/5mL/MSVOA F/SOIL  
ALS Vial : 13 Sample Multiplier: 1

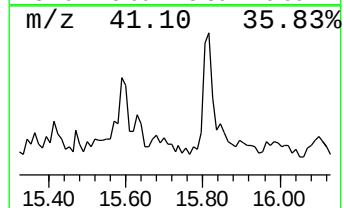
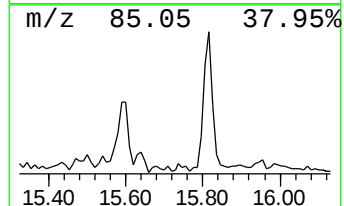
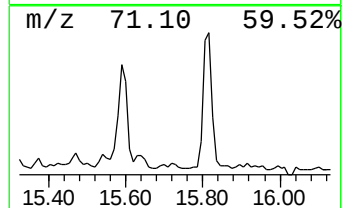
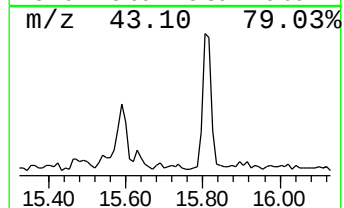
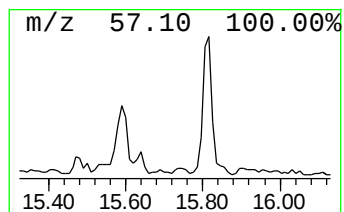
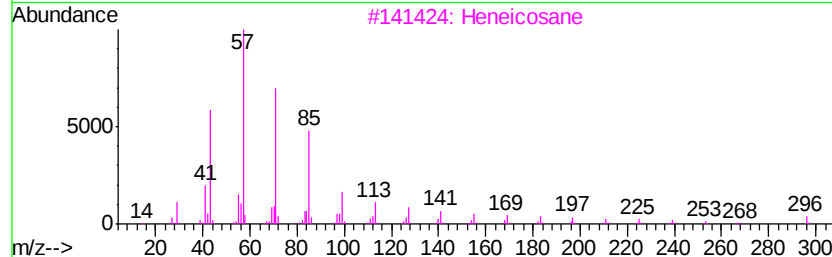
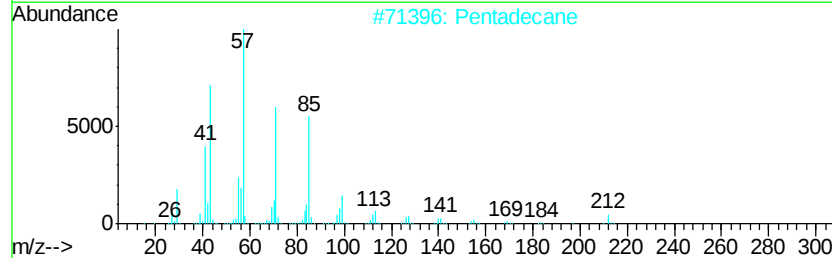
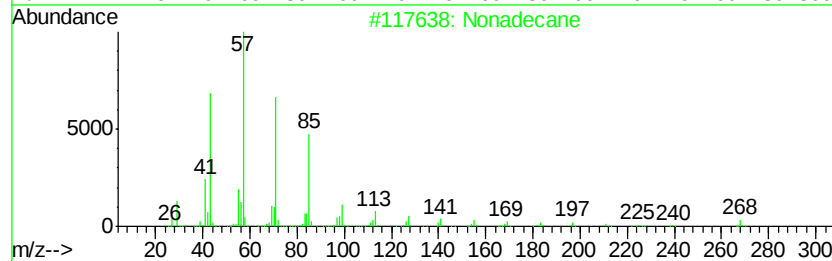
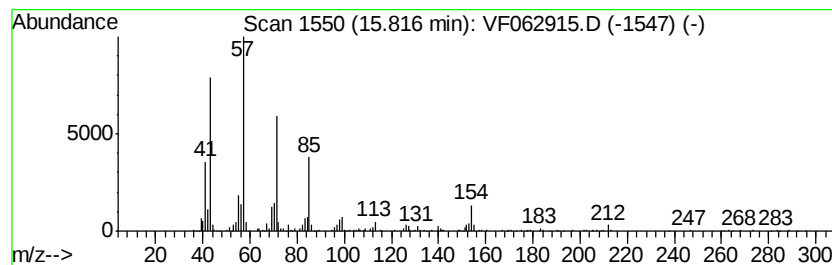
Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-5 9.5-10.0 060719

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Nonadecane Concentration Rank 3

| R.T.    | EstConc           | Area         | Relative to ISTD       |         | R.T.        |      |
|---------|-------------------|--------------|------------------------|---------|-------------|------|
| 15.82   | 7.71 ug/l         | 345832       | 1,4-Dichlorobenzene-d4 |         | 12.61       |      |
| Hit# of | 5                 | Tentative ID | MW                     | MolForm | CAS#        | Qual |
| 1       | Nonadecane        |              | 268                    | C19H40  | 000629-92-5 | 94   |
| 2       | Pentadecane       |              | 212                    | C15H32  | 000629-62-9 | 90   |
| 3       | Heneicosane       |              | 296                    | C21H44  | 000629-94-7 | 76   |
| 4       | Decane, 5-propyl- |              | 184                    | C13H28  | 017312-62-8 | 70   |
| 5       | Hexadecane        |              | 226                    | C16H34  | 000544-76-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF061019\  
Data File : VF062915.D  
Acq On : 10 Jun 2019 19:21  
Operator : FY/SY  
Sample : K3273-08  
Misc : 4.60g/5mL/MSVOA\_F/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-5\_9.5-10.0\_060719

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Naphthalene, 2,3,... | 13.47 | 12.1    | ug/l  | 540649   | 4                     | 12.61 | 2241590 | 50.0 |
| Tetradecane          | 13.75 | 5.0     | ug/l  | 224421   | 4                     | 12.61 | 2241590 | 50.0 |
| Tridecane            | 14.49 | 5.8     | ug/l  | 260477   | 4                     | 12.61 | 2241590 | 50.0 |
| Dodecane, 4,6-dim... | 15.59 | 5.1     | ug/l  | 229832   | 4                     | 12.61 | 2241590 | 50.0 |
| Nonadecane           | 15.82 | 7.7     | ug/l  | 345832   | 4                     | 12.61 | 2241590 | 50.0 |