

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080118\  
 Data File : VF059769.D  
 Acq On : 1 Aug 2018 21:34  
 Operator : VA/AP  
 Sample : J4236-02  
 Misc : 9.48g/5mL/MSVOA F/SOIL  
 ALS Vial : 99 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 FK-GF-01-010-A

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\82F073018S.M  
 Title : SW846 8260

Signal : TIC

| 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         | 1.106       | 55            | 58          | 63           | rVB3     | 9057           | 15318         | 1.23%           | 0.197%        |
| 2         | 1.353       | 79            | 83          | 86           | rBV6     | 5856           | 17017         | 1.36%           | 0.219%        |
| 3         | 2.339       | 180           | 183         | 187          | rVB      | 16510          | 31541         | 2.53%           | 0.406%        |
| 4         | 4.202       | 365           | 372         | 375          | rBV      | 18426          | 54740         | 4.38%           | 0.705%        |
| 5         | 4.290       | 375           | 381         | 393          | rVB      | 205726         | 625419        | 50.08%          | 8.059%        |
| 6         | 5.030       | 448           | 456         | 470          | rBV2     | 364326         | 1248819       | 100.00%         | 16.092%       |
| 7         | 5.759       | 524           | 530         | 542          | rBV      | 366182         | 959956        | 76.87%          | 12.370%       |
| 8         | 7.701       | 720           | 727         | 739          | rBV      | 458418         | 1074494       | 86.04%          | 13.845%       |
| 9         | 9.919       | 946           | 952         | 959          | rBV      | 432350         | 1004601       | 80.44%          | 12.945%       |
| 10        | 11.506      | 1109          | 1113        | 1122         | rBV      | 489827         | 835842        | 66.93%          | 10.770%       |
| 11        | 12.630      | 1223          | 1227        | 1239         | rVV      | 652743         | 1005995       | 80.56%          | 12.963%       |
| 12        | 12.797      | 1241          | 1244        | 1249         | rVV5     | 4600           | 13699         | 1.10%           | 0.177%        |
| 13        | 13.773      | 1339          | 1343        | 1346         | rBV      | 56060          | 80199         | 6.42%           | 1.033%        |
| 14        | 14.522      | 1415          | 1419        | 1425         | rBV      | 167743         | 237480        | 19.02%          | 3.060%        |
| 15        | 15.173      | 1482          | 1485        | 1491         | rVB4     | 12369          | 22407         | 1.79%           | 0.289%        |
| 16        | 15.350      | 1499          | 1503        | 1508         | rBV      | 99003          | 157621        | 12.62%          | 2.031%        |
| 17        | 15.478      | 1512          | 1516        | 1520         | rVB      | 91800          | 152833        | 12.24%          | 1.969%        |
| 18        | 15.853      | 1551          | 1554        | 1558         | rBV      | 70100          | 119023        | 9.53%           | 1.534%        |
| 19        | 16.070      | 1571          | 1576        | 1579         | rBV      | 55290          | 103644        | 8.30%           | 1.336%        |

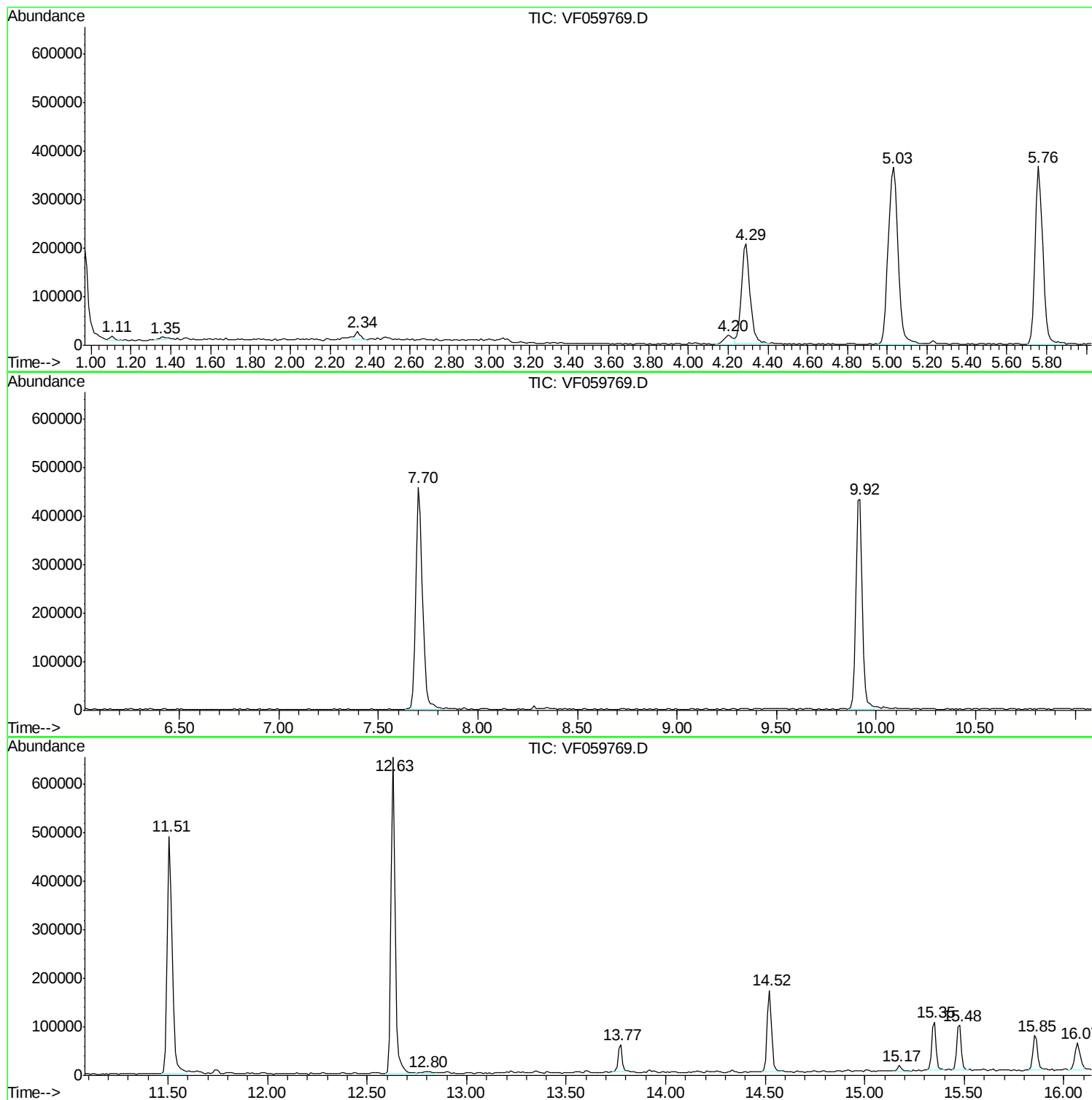
Sum of corrected areas: 7760648

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260

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



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FK-GF-01-010-A

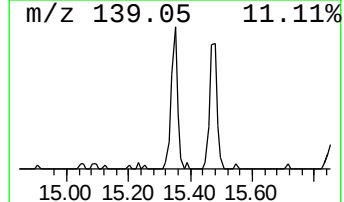
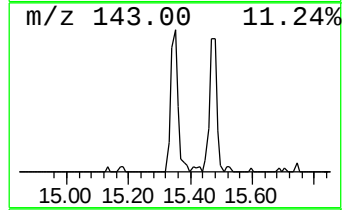
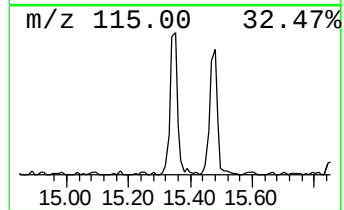
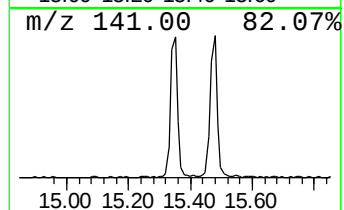
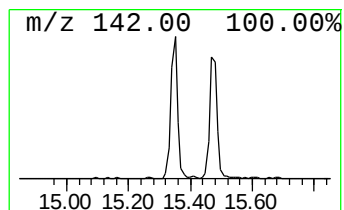
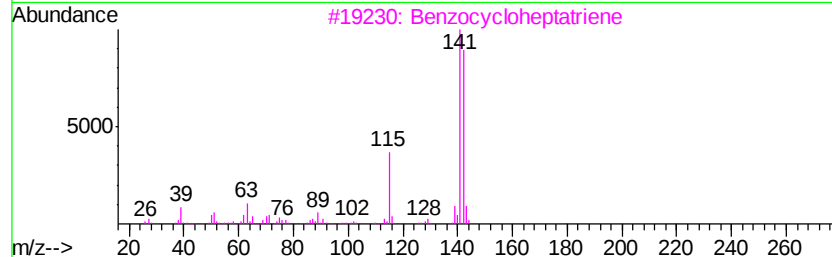
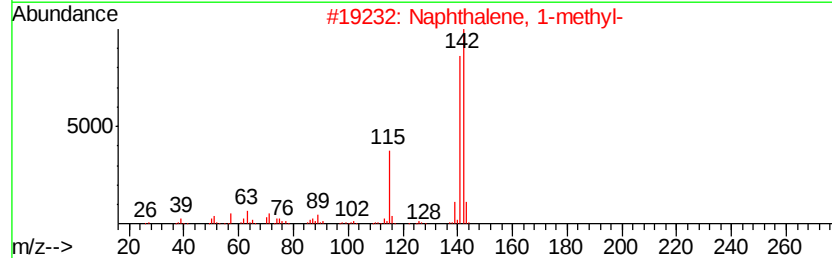
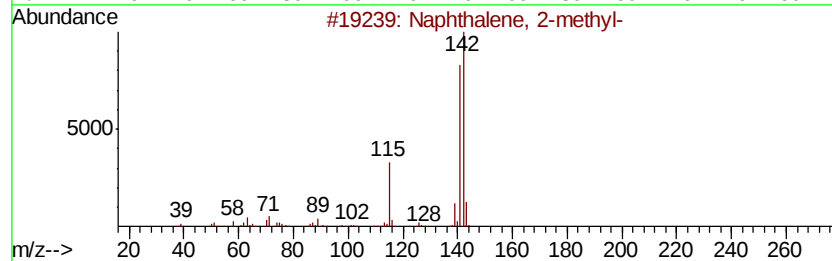
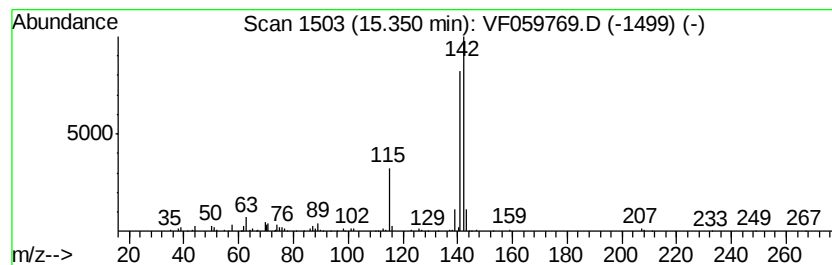
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.35 | 7.83 ug/l | 157621 | 1,4-Dichlorobenzene-d4 | 12.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 97   |
| 2    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 95   |
| 3    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4    |    | Naphthalene, 1-[(2-propenyloxy)m... | 198 | C14H14O | 074685-39-5 | 83   |
| 5    |    | Naphthalene, 1-(2-hydroxypropyl)    | 186 | C13H14O | 027653-13-0 | 78   |



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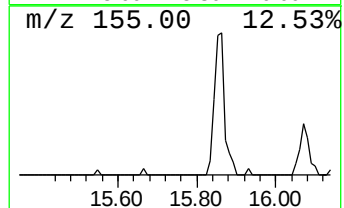
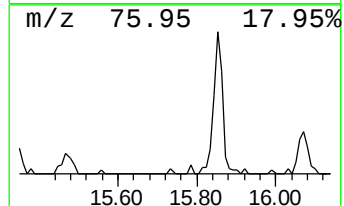
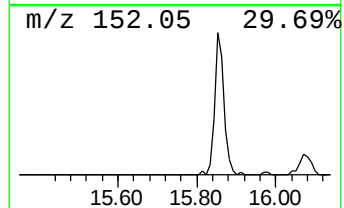
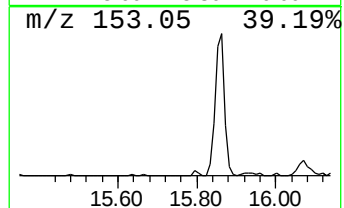
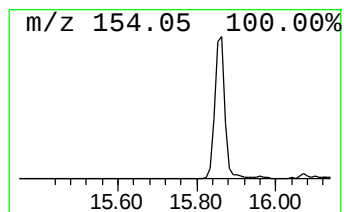
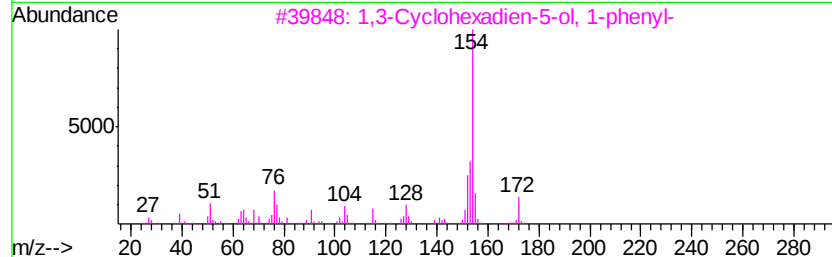
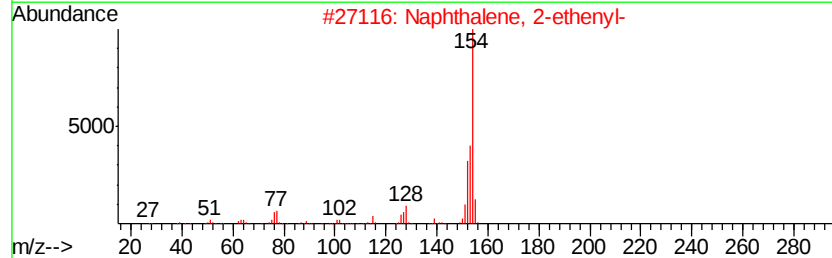
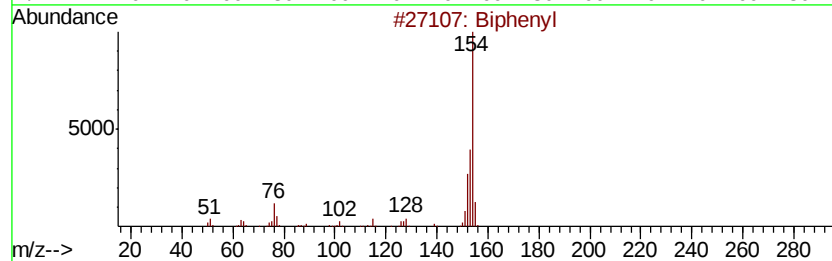
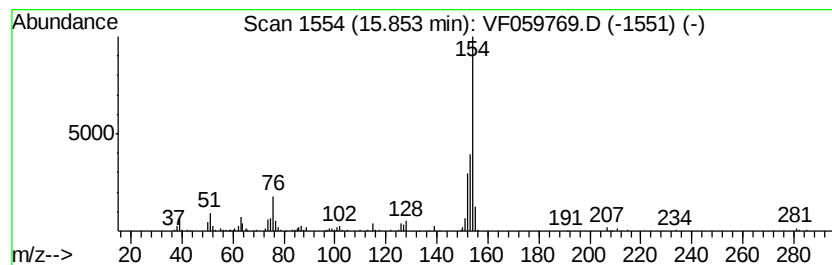
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Peak Number 3 Biphenyl Concentration Rank 3

| R.T.    | EstConc                           | Area         | Relative to ISTD       | R.T.            |
|---------|-----------------------------------|--------------|------------------------|-----------------|
| 15.85   | 5.92 ug/l                         | 119023       | 1,4-Dichlorobenzene-d4 | 12.63           |
| Hit# of | 5                                 | Tentative ID | MW MolForm             | CAS# Qual       |
| 1       | Biphenyl                          |              | 154 C12H10             | 000092-52-4 93  |
| 2       | Naphthalene, 2-ethenyl-           |              | 154 C12H10             | 000827-54-3 87  |
| 3       | 1,3-Cyclohexadien-5-ol, 1-phenyl- |              | 172 C12H12O            | 1000159-61-9 56 |
| 4       | Acenaphthene                      |              | 154 C12H10             | 000083-32-9 53  |
| 5       | 3-Quinolinecarbonitrile           |              | 154 C10H6N2            | 034846-64-5 47  |



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MSVOA\_F  
ClientSampleId :  
FK-GF-01-010-A

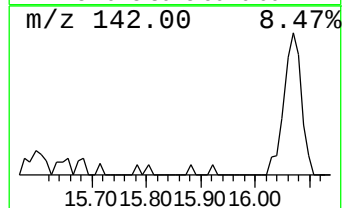
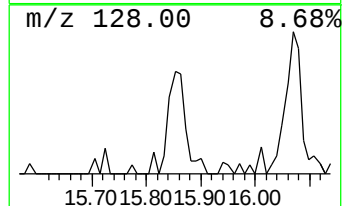
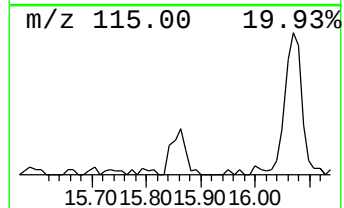
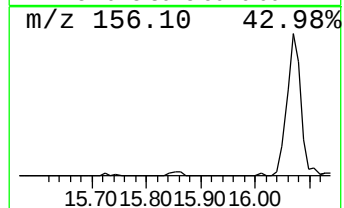
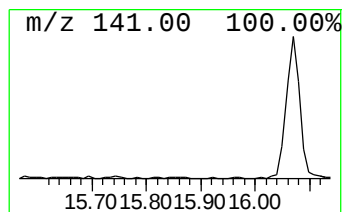
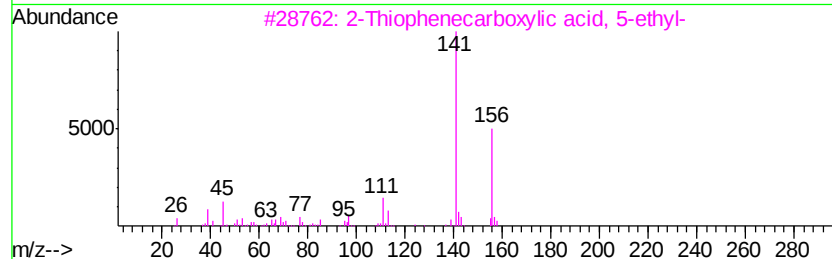
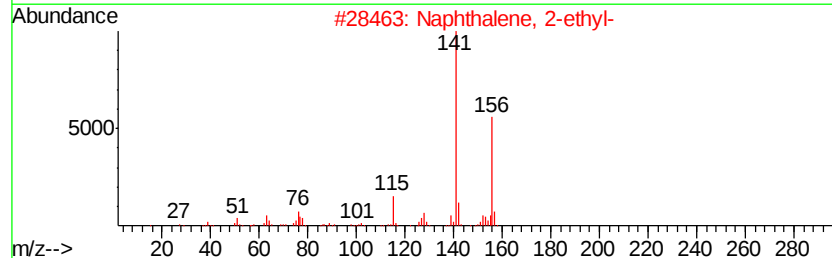
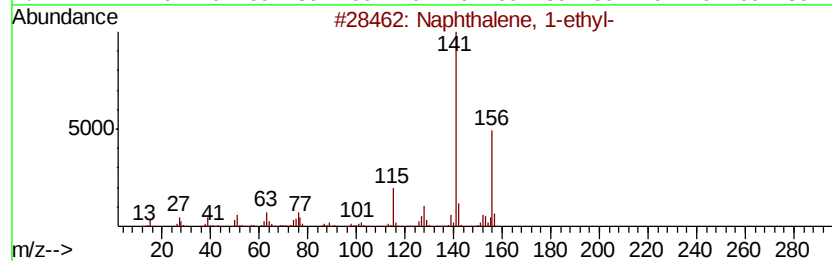
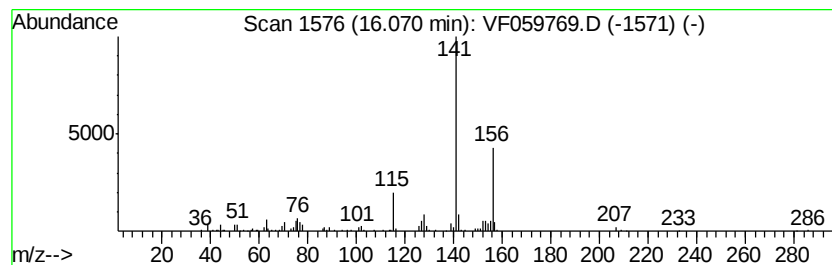
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Quant Title : SW846 8260

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

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Peak Number 4 Naphthalene, 1-ethyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.07 | 5.15 ug/l | 103644 | 1,4-Dichlorobenzene-d4 | 12.63 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-ethyl-                | 156 | C12H12  | 001127-76-0 | 97   |
| 2    |    | Naphthalene, 2-ethyl-                | 156 | C12H12  | 000939-27-5 | 94   |
| 3    |    | 2-Thiophenecarboxylic acid, 5-ethyl- | 156 | C7H8O2S | 023229-72-3 | 72   |
| 4    |    | 2',5'-Difluoroacetophenone           | 156 | C8H6F2O | 001979-36-8 | 64   |
| 5    |    | 3',4'-Difluoroacetophenone           | 156 | C8H6F2O | 000369-33-5 | 64   |



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ALS Vial : 99 Sample Multiplier: 1

Instrument :  
MSV0A\_F  
ClientSampleId :  
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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Naphthalene, 1-me... | 15.35 | 7.8     | ug/l  | 157621   | 4                     | 12.63 | 1006000 | 50.0 |
| Biphenyl             | 15.85 | 5.9     | ug/l  | 119023   | 4                     | 12.63 | 1006000 | 50.0 |
| Naphthalene, 1-et... | 16.07 | 5.2     | ug/l  | 103644   | 4                     | 12.63 | 1006000 | 50.0 |