

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101119\  
 Data File : VY000284.D  
 Acq On : 11 Oct 2019 20:30  
 Operator : SY/MD  
 Sample : K5350-05  
 Misc : 7.34G/5ML/MSVOA Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VNJ-230

## 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\_Y\METHODS\82Y101119S.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      | 3.956    | 357        | 364      | 378       | rBV   | 11468       | 30864      | 1.12%        | 0.204%     |
| 2      | 4.724    | 478        | 490      | 510       | rBV2  | 23748       | 70398      | 2.55%        | 0.465%     |
| 3      | 7.730    | 974        | 983      | 989       | rBV   | 193738      | 458460     | 16.61%       | 3.030%     |
| 4      | 7.803    | 989        | 995      | 1008      | rVB   | 316495      | 702275     | 25.44%       | 4.641%     |
| 5      | 8.151    | 1043       | 1052     | 1062      | rBV   | 200104      | 443474     | 16.06%       | 2.931%     |
| 6      | 8.699    | 1134       | 1142     | 1154      | rBV   | 525961      | 1041023    | 37.71%       | 6.880%     |
| 7      | 10.181   | 1376       | 1385     | 1395      | rBV   | 796487      | 1416391    | 51.31%       | 9.360%     |
| 8      | 11.492   | 1593       | 1600     | 1609      | rBV   | 738903      | 1169463    | 42.36%       | 7.729%     |
| 9      | 11.717   | 1627       | 1637     | 1638      | rBV3  | 19365       | 39881      | 1.44%        | 0.264%     |
| 10     | 12.485   | 1747       | 1763     | 1786      | rBV2  | 641149      | 1551624    | 56.21%       | 10.254%    |
| 11     | 12.686   | 1786       | 1796     | 1797      | rBV4  | 34355       | 74781      | 2.71%        | 0.494%     |
| 12     | 13.235   | 1873       | 1886     | 1888      | rBV8  | 16035       | 42387      | 1.54%        | 0.280%     |
| 13     | 13.351   | 1896       | 1905     | 1911      | rBV6  | 36697       | 135280     | 4.90%        | 0.894%     |
| 14     | 13.424   | 1911       | 1917     | 1925      | rVB   | 658981      | 1038484    | 37.62%       | 6.863%     |
| 15     | 13.625   | 1946       | 1950     | 1956      | rBV   | 39701       | 55272      | 2.00%        | 0.365%     |
| 16     | 13.759   | 1964       | 1972     | 1973      | rBV2  | 28654       | 47403      | 1.72%        | 0.313%     |
| 17     | 14.070   | 2012       | 2023     | 2035      | rVB5  | 51850       | 194171     | 7.03%        | 1.283%     |
| 18     | 14.333   | 2053       | 2066     | 2078      | rVB9  | 29096       | 116527     | 4.22%        | 0.770%     |
| 19     | 14.546   | 2085       | 2101     | 2115      | rBV2  | 395127      | 1374212    | 49.78%       | 9.082%     |
| 20     | 14.680   | 2115       | 2123     | 2130      | rBV4  | 36496       | 103061     | 3.73%        | 0.681%     |
| 21     | 14.942   | 2158       | 2166     | 2174      | rBV5  | 27288       | 73995      | 2.68%        | 0.489%     |
| 22     | 15.088   | 2183       | 2190     | 2200      | rVB4  | 26620       | 89371      | 3.24%        | 0.591%     |
| 23     | 15.235   | 2204       | 2214     | 2226      | rVV2  | 1294095     | 2760516    | 100.00%      | 18.243%    |
| 24     | 15.326   | 2226       | 2229     | 2237      | rVB   | 37795       | 72801      | 2.64%        | 0.481%     |
| 25     | 15.534   | 2257       | 2263     | 2280      | rVB9  | 27839       | 120469     | 4.36%        | 0.796%     |
| 26     | 15.710   | 2281       | 2292     | 2293      | rBV4  | 30939       | 54513      | 1.97%        | 0.360%     |
| 27     | 16.027   | 2335       | 2344     | 2358      | rVB4  | 22637       | 99486      | 3.60%        | 0.657%     |
| 28     | 16.289   | 2380       | 2387     | 2400      | rBV   | 218505      | 443478     | 16.07%       | 2.931%     |
| 29     | 16.430   | 2400       | 2410     | 2412      | rVV9  | 10544       | 32506      | 1.18%        | 0.215%     |
| 30     | 16.491   | 2412       | 2420     | 2427      | rVV   | 215678      | 463487     | 16.79%       | 3.063%     |
| 31     | 16.582   | 2428       | 2435     | 2444      | rVB8  | 10781       | 32948      | 1.19%        | 0.218%     |
| 32     | 16.747   | 2449       | 2462     | 2477      | rBV2  | 193943      | 782695     | 28.35%       | 5.173%     |

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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

## 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\82Y101119S.M  
Title : SW846 8260

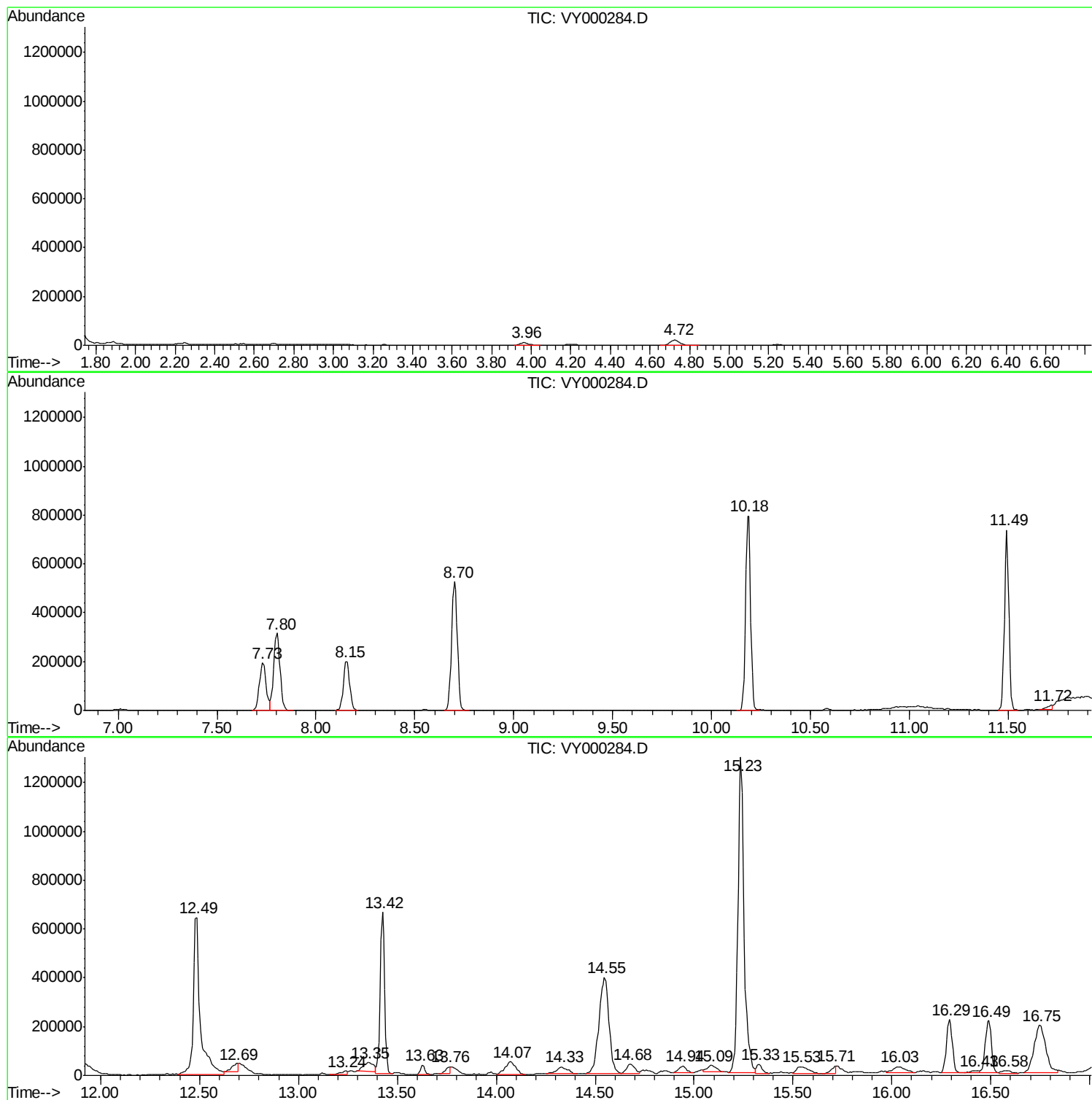
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260

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



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ALS Vial : 23 Sample Multiplier: 1

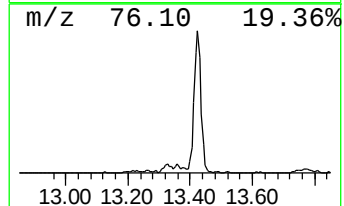
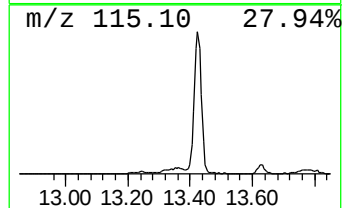
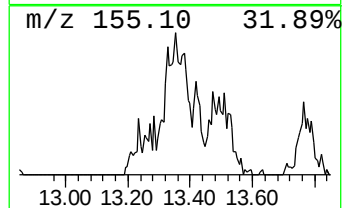
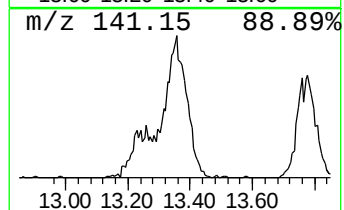
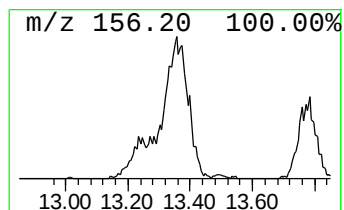
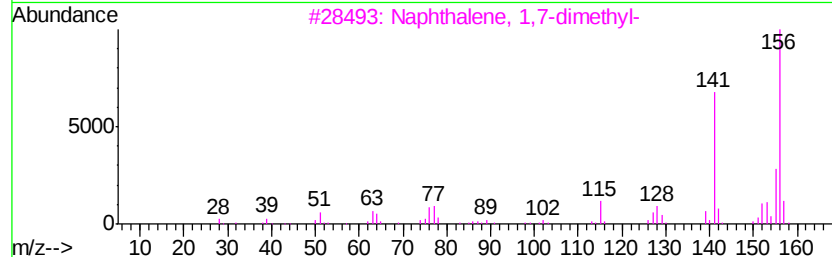
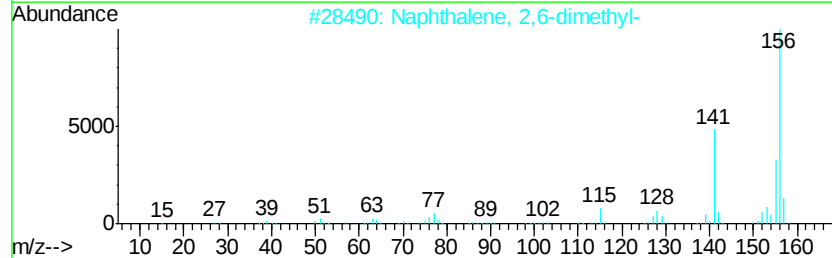
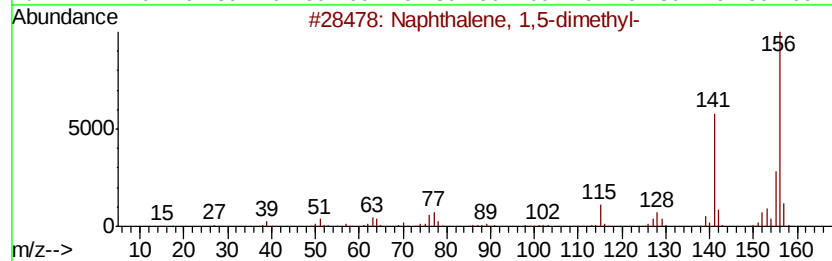
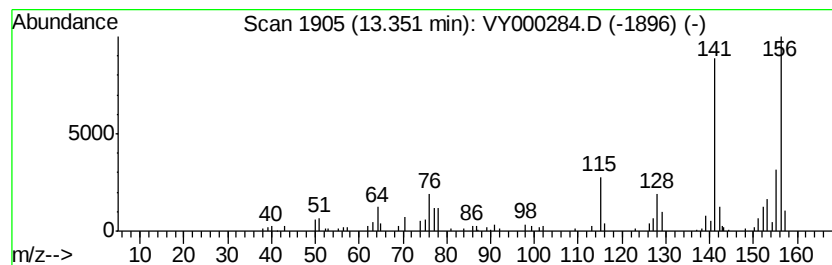
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Naphthalene, 1,5-dimethyl- Concentration Rank 6

| R.T.      | EstConc                    | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|--------|------------------------|-------------|------|
| 13.35     | 6.51 ug/l                  | 135280 | 1,4-Dichlorobenzene-d4 | 13.42       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 1,5-dimethyl- | 156    | C12H12                 | 000571-61-9 | 95   |
| 2         | Naphthalene, 2,6-dimethyl- | 156    | C12H12                 | 000581-42-0 | 94   |
| 3         | Naphthalene, 1,7-dimethyl- | 156    | C12H12                 | 000575-37-1 | 93   |
| 4         | Naphthalene, 2,3-dimethyl- | 156    | C12H12                 | 000581-40-8 | 93   |
| 5         | Naphthalene, 1,6-dimethyl- | 156    | C12H12                 | 000575-43-9 | 93   |



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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

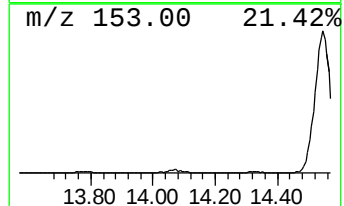
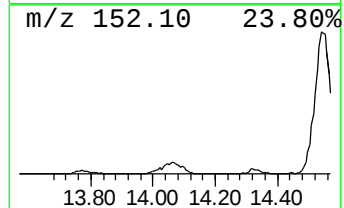
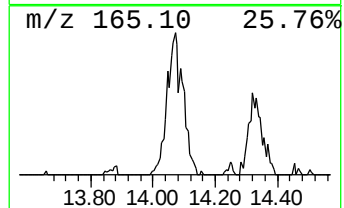
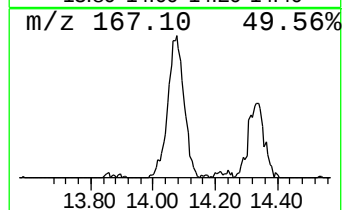
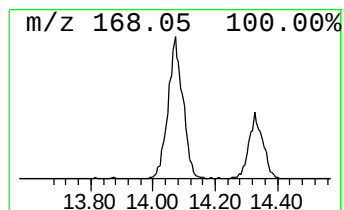
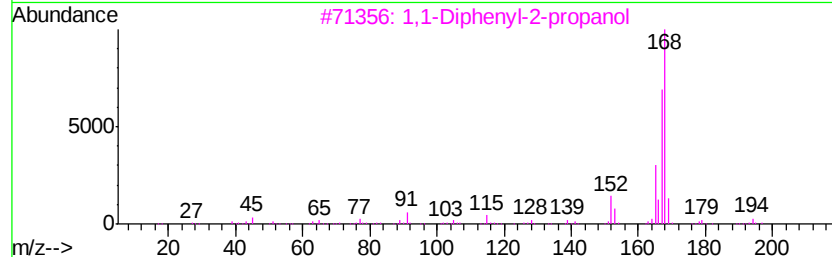
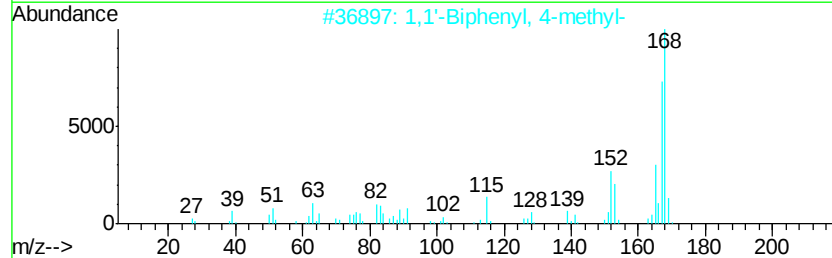
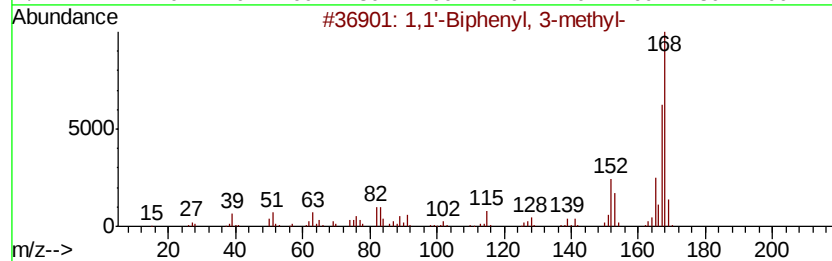
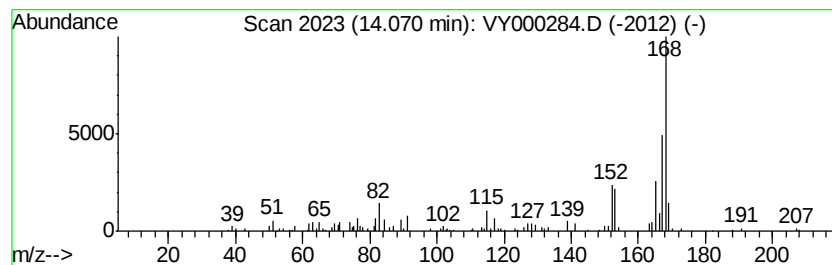
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260

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

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Peak Number 3 1,1'-Biphenyl, 3-methyl- Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.07 | 9.35 ug/l | 194171 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12  | 000643-93-6 | 89   |
| 2    |    | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12  | 000644-08-6 | 76   |
| 3    |    | 1,1-Diphenyl-2-propanol  | 212 | C15H16O | 029338-49-6 | 59   |
| 4    |    | Diphenylmethane          | 168 | C13H12  | 000101-81-5 | 53   |
| 5    |    | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12  | 000643-58-3 | 49   |



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Misc : 7.34G/5ML/MSVOA Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

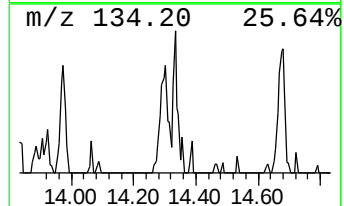
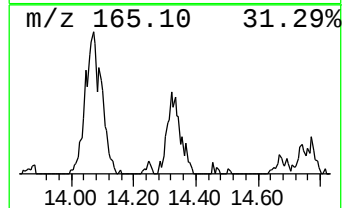
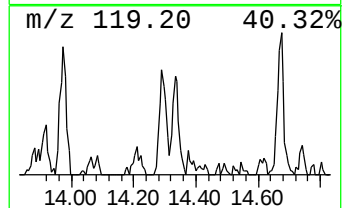
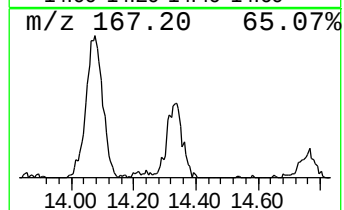
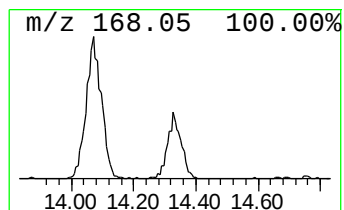
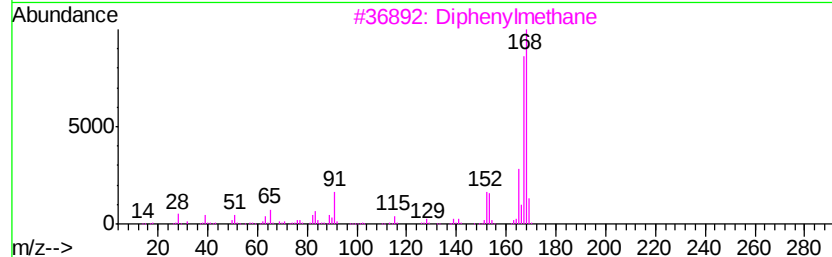
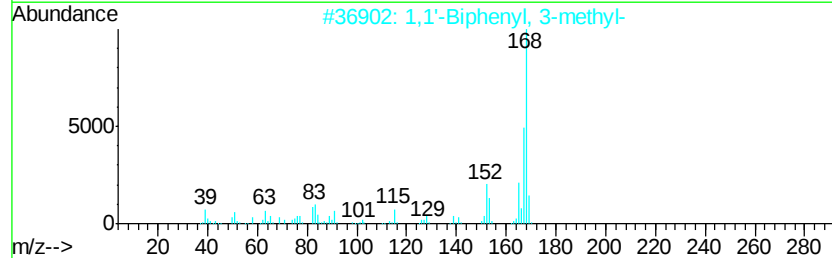
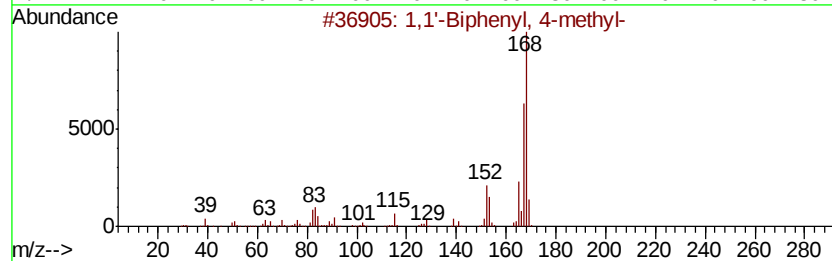
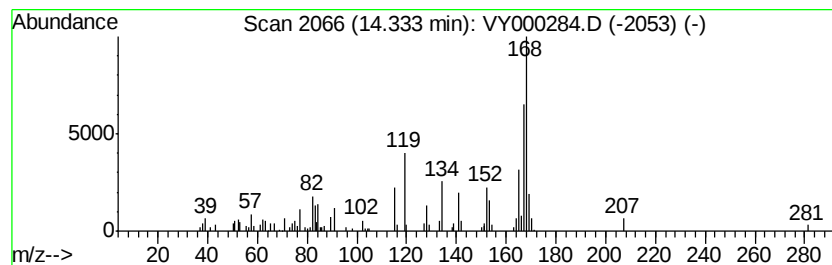
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260

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

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Peak Number 4 1,1'-Biphenyl, 4-methyl- Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.33 | 5.61 ug/l | 116527 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,1'-Biphenyl, 4-methyl-          | 168 | C13H12  | 000644-08-6 | 60   |
| 2    |    |   | 1,1'-Biphenyl, 3-methyl-          | 168 | C13H12  | 000643-93-6 | 60   |
| 3    |    |   | Diphenylmethane                   | 168 | C13H12  | 000101-81-5 | 53   |
| 4    |    |   | Naphthalene, 2-(1-methylethenyl)- | 168 | C13H12  | 003710-23-4 | 43   |
| 5    |    |   | 1,1-Diphenyl-2-propanol           | 212 | C15H16O | 029338-49-6 | 38   |



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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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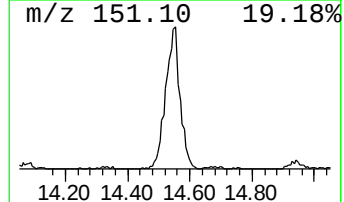
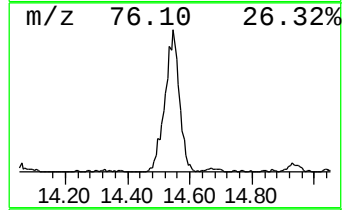
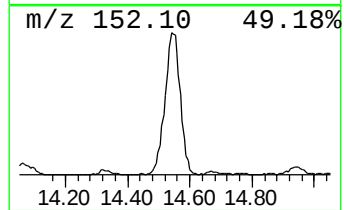
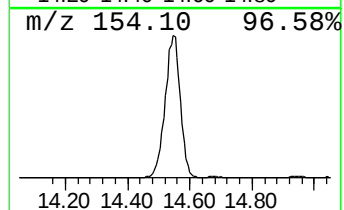
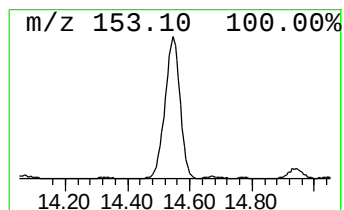
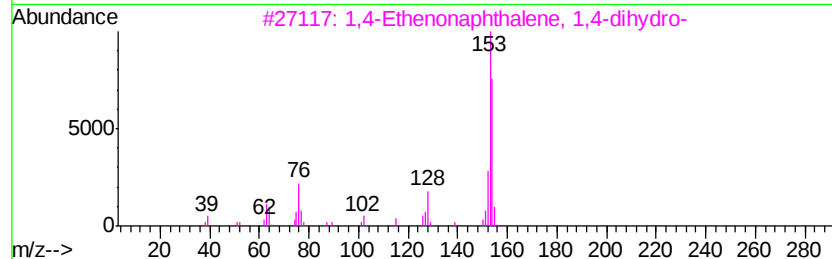
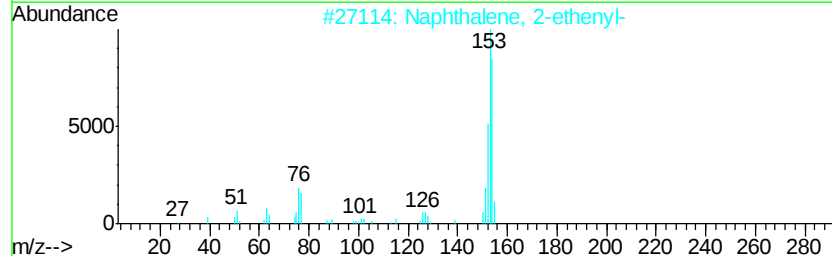
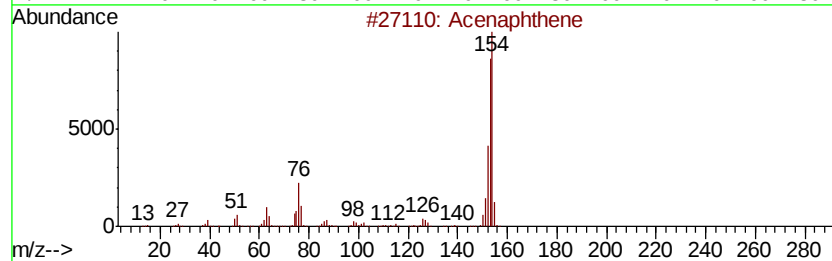
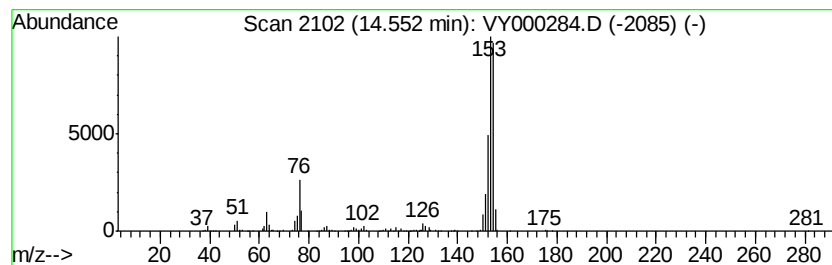
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Acenaphthene Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.55 | 66.16 ug/l | 1374210 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Acenaphthene                        | 154 | C12H10  | 000083-32-9 | 81   |
| 2    |    | Naphthalene, 2-ethenyl-             | 154 | C12H10  | 000827-54-3 | 64   |
| 3    |    | 1,4-Ethenonaphthalene, 1,4-dihydro- | 154 | C12H10  | 007322-47-6 | 53   |
| 4    |    | 3-Fluoro-para-anisaldehyde          | 154 | C8H7FO2 | 000351-54-2 | 50   |
| 5    |    | Biphenyl                            | 154 | C12H10  | 000092-52-4 | 47   |



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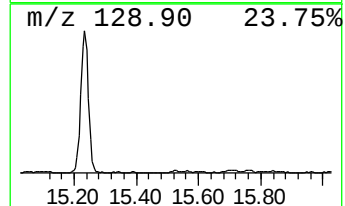
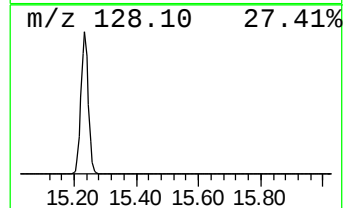
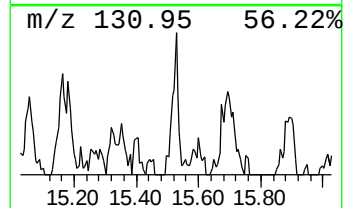
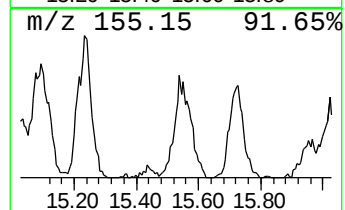
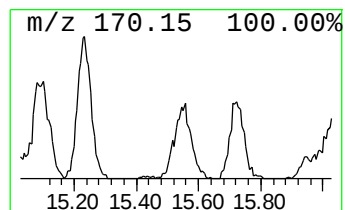
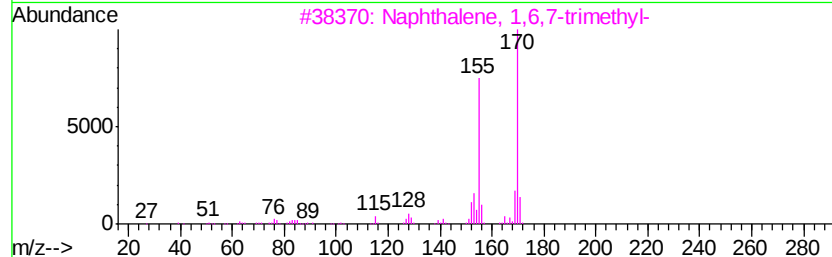
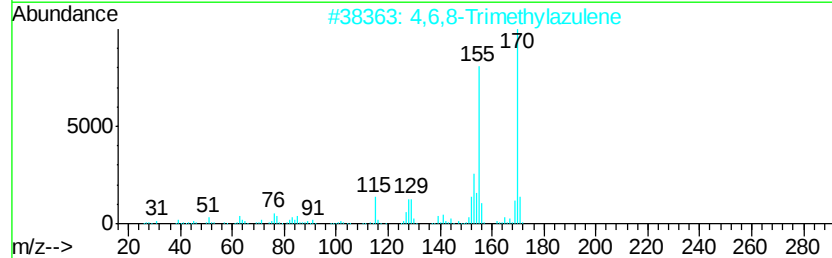
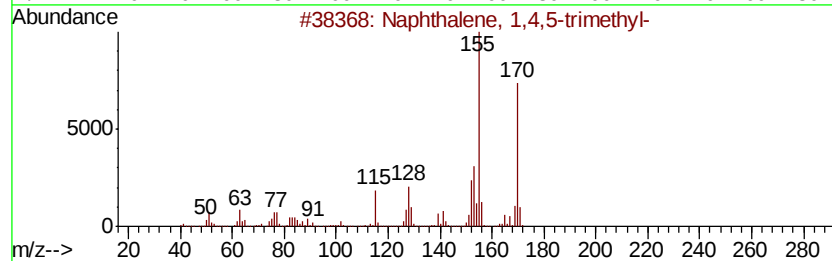
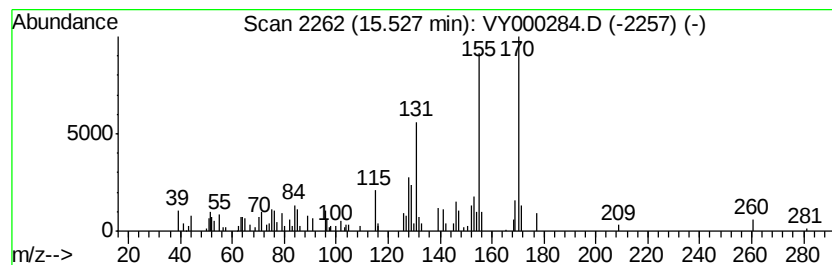
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Naphthalene, 1,4,5-trimethyl- Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.53 | 5.80 ug/l | 120469 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,4,5-trimethyl-       | 170 | C13H14  | 002131-41-1  | 90   |
| 2    |    | 4,6,8-Trimethylazulene              | 170 | C13H14  | 000941-81-1  | 89   |
| 3    |    | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 76   |
| 4    |    | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 76   |
| 5    |    | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY101119\  
Data File : VY000284.D  
Acq On : 11 Oct 2019 20:30  
Operator : SY/MD  
Sample : K5350-05  
Misc : 7.34G/5ML/MSVOA Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260

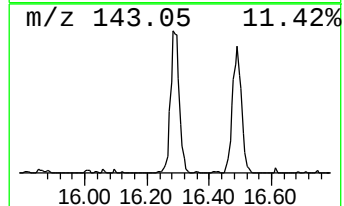
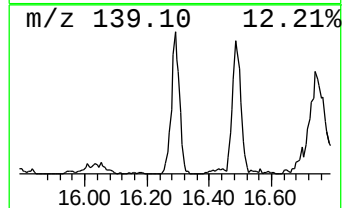
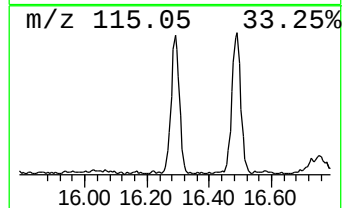
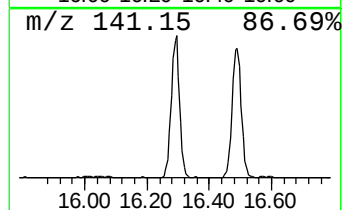
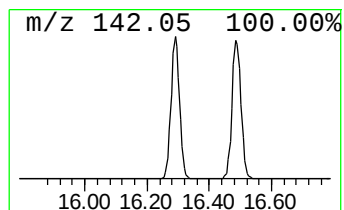
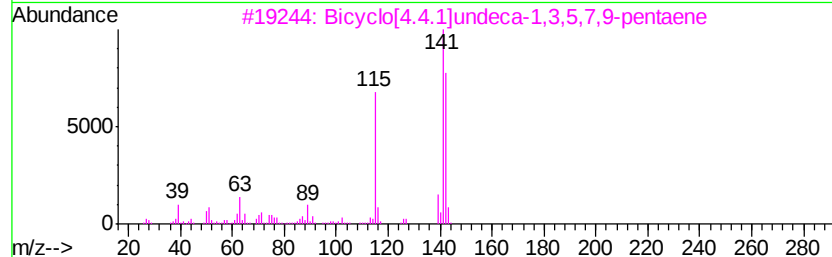
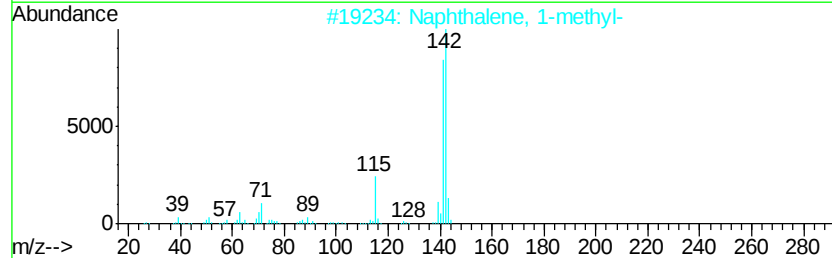
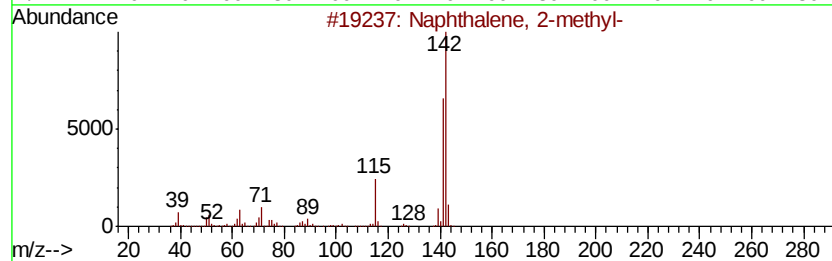
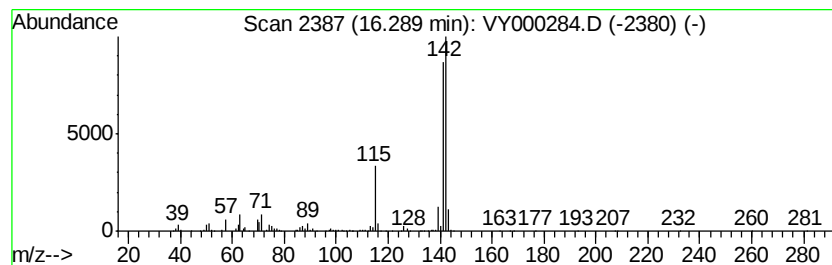
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 1-methyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.29 | 21.35 ug/l | 443478 | 1,4-Dichlorobenzene-d4 | 13.42 |

| 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 | 93   |
| 3    |    | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 91   |
| 4    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 90   |
| 5    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY101119\  
Data File : VY000284.D  
Acq On : 11 Oct 2019 20:30  
Operator : SY/MD  
Sample : K5350-05  
Misc : 7.34G/5ML/MSVOA Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

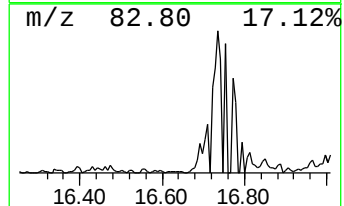
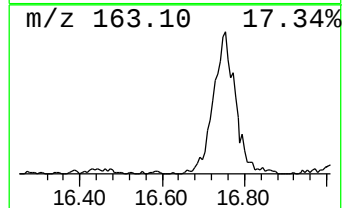
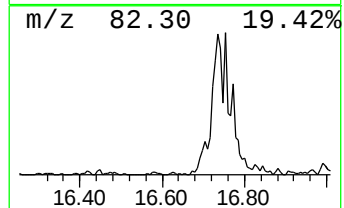
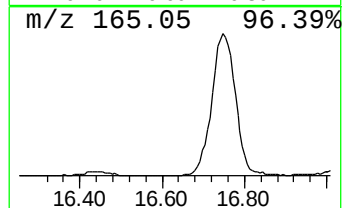
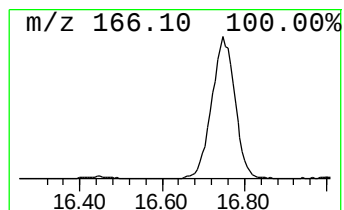
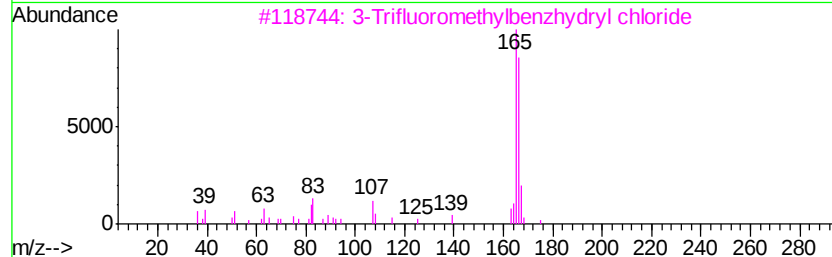
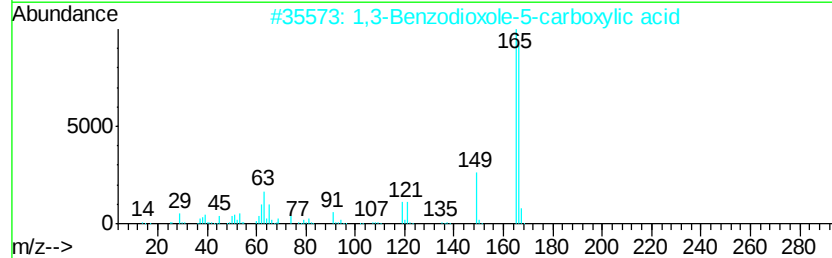
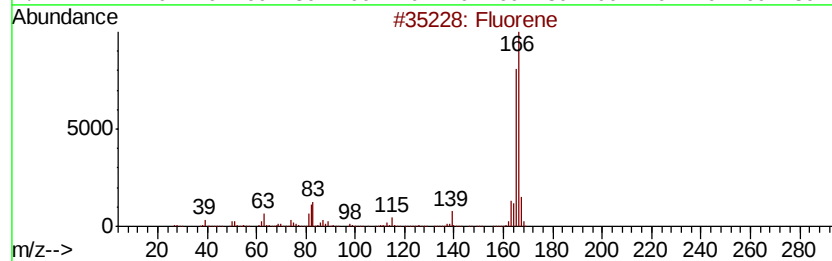
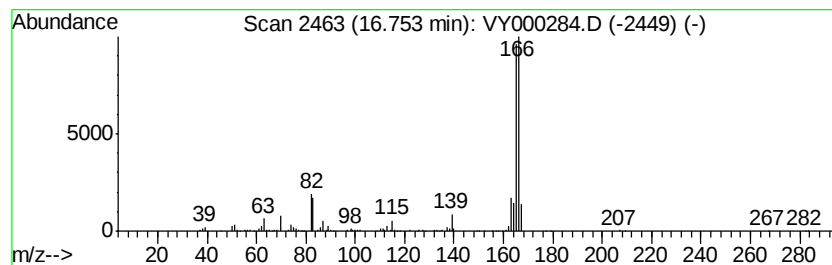
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260

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

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Peak Number 9 Fluorene Concentration Rank 2

| R.T.    | EstConc                              | Area         | Relative to ISTD       | R.T.           |
|---------|--------------------------------------|--------------|------------------------|----------------|
| 16.75   | 37.68 ug/l                           | 782695       | 1,4-Dichlorobenzene-d4 | 13.42          |
| Hit# of | 5                                    | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | Fluorene                             |              | 166 C13H10             | 000086-73-7 93 |
| 2       | 1,3-Benzodioxole-5-carboxylic acid   |              | 166 C8H6O4             | 000094-53-1 64 |
| 3       | 3-Trifluoromethylbenzhydrol chloride |              | 270 C14H10ClF3         | 067240-79-3 56 |
| 4       | Ethionamide                          |              | 166 C8H10N2S           | 000536-33-4 45 |
| 5       | 1H-Phenylene                         |              | 166 C13H10             | 000203-80-5 43 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY101119\  
Data File : VY000284.D  
Acq On : 11 Oct 2019 20:30  
Operator : SY/MD  
Sample : K5350-05  
Misc : 7.34G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-230

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.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, 1,5-... | 13.35 | 6.5     | ug/l  | 135280   | 4                     | 13.42 | 1038480 | 50.0 |
| 1,1'-Biphenyl, 3-... | 14.07 | 9.3     | ug/l  | 194171   | 4                     | 13.42 | 1038480 | 50.0 |
| 1,1'-Biphenyl, 4-... | 14.33 | 5.6     | ug/l  | 116527   | 4                     | 13.42 | 1038480 | 50.0 |
| Acenaphthene         | 14.55 | 66.2    | ug/l  | 1374210  | 4                     | 13.42 | 1038480 | 50.0 |
| Naphthalene, 1,4,... | 15.53 | 5.8     | ug/l  | 120469   | 4                     | 13.42 | 1038480 | 50.0 |
| Naphthalene, 1-me... | 16.29 | 21.4    | ug/l  | 443478   | 4                     | 13.42 | 1038480 | 50.0 |
| Fluorene             | 16.75 | 37.7    | ug/l  | 782695   | 4                     | 13.42 | 1038480 | 50.0 |