

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
 Data File : VN063591.D  
 Acq On : 23 Sep 2020 16:06  
 Operator : JC/MD  
 Sample : L4116-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS027-200922

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\_N\METHODS\82N091620W.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         | 2.418       | 201           | 211         | 219          | rBV3     | 13943          | 24339         | 1.53%           | 0.140%        |
| 2         | 2.779       | 313           | 323         | 337          | rVB6     | 9183           | 19358         | 1.21%           | 0.111%        |
| 3         | 3.782       | 619           | 635         | 646          | rBV2     | 8474           | 24132         | 1.51%           | 0.139%        |
| 4         | 6.782       | 1546          | 1568        | 1603         | rBV2     | 442660         | 1304369       | 81.81%          | 7.488%        |
| 5         | 7.550       | 1789          | 1807        | 1819         | rBV      | 174262         | 446349        | 28.00%          | 2.562%        |
| 6         | 7.627       | 1819          | 1831        | 1855         | rVB2     | 287766         | 695384        | 43.62%          | 3.992%        |
| 7         | 7.991       | 1925          | 1944        | 1970         | rBV      | 205575         | 485746        | 30.47%          | 2.788%        |
| 8         | 8.550       | 2103          | 2118        | 2136         | rBV      | 468019         | 989612        | 62.07%          | 5.681%        |
| 9         | 8.801       | 2182          | 2196        | 2213         | rBV3     | 64027          | 134447        | 8.43%           | 0.772%        |
| 10        | 9.048       | 2252          | 2273        | 2284         | rBV9     | 13922          | 36374         | 2.28%           | 0.209%        |
| 11        | 10.061      | 2573          | 2588        | 2599         | rBV      | 774926         | 1410717       | 88.48%          | 8.098%        |
| 12        | 10.125      | 2599          | 2608        | 2623         | rVB      | 265755         | 486440        | 30.51%          | 2.792%        |
| 13        | 10.315      | 2657          | 2667        | 2679         | rVB3     | 13026          | 24163         | 1.52%           | 0.139%        |
| 14        | 10.601      | 2744          | 2756        | 2767         | rVB5     | 16810          | 32606         | 2.05%           | 0.187%        |
| 15        | 11.379      | 2984          | 2998        | 3018         | rBV      | 769953         | 1362234       | 85.44%          | 7.820%        |
| 16        | 11.486      | 3018          | 3031        | 3046         | rVB      | 135781         | 241133        | 15.12%          | 1.384%        |
| 17        | 11.592      | 3051          | 3064        | 3089         | rVV      | 550013         | 1021077       | 64.05%          | 5.861%        |
| 18        | 11.923      | 3146          | 3167        | 3182         | rBV      | 357777         | 610369        | 38.28%          | 3.504%        |
| 19        | 12.225      | 3248          | 3261        | 3276         | rBV      | 300657         | 488065        | 30.61%          | 2.802%        |
| 20        | 12.376      | 3295          | 3308        | 3332         | rVB      | 613606         | 1048935       | 65.79%          | 6.021%        |
| 21        | 12.566      | 3355          | 3367        | 3376         | rBV      | 117683         | 190398        | 11.94%          | 1.093%        |
| 22        | 12.630      | 3376          | 3387        | 3394         | rBV      | 511936         | 838701        | 52.61%          | 4.814%        |
| 23        | 12.707      | 3404          | 3411        | 3426         | rVB      | 266904         | 432693        | 27.14%          | 2.484%        |
| 24        | 12.868      | 3446          | 3461        | 3474         | rBV      | 242297         | 399722        | 25.07%          | 2.295%        |
| 25        | 13.016      | 3494          | 3507        | 3525         | rBV      | 1015187        | 1594304       | 100.00%         | 9.152%        |
| 26        | 13.138      | 3533          | 3545        | 3546         | rBV4     | 11492          | 16069         | 1.01%           | 0.092%        |
| 27        | 13.209      | 3557          | 3567        | 3577         | rBV      | 26611          | 40418         | 2.54%           | 0.232%        |
| 28        | 13.318      | 3589          | 3601        | 3607         | rBV      | 747508         | 1281182       | 80.36%          | 7.354%        |
| 29        | 13.518      | 3645          | 3663        | 3670         | rBV2     | 164911         | 319307        | 20.03%          | 1.833%        |
| 30        | 13.559      | 3670          | 3676        | 3695         | rVV3     | 111504         | 211038        | 13.24%          | 1.211%        |
| 31        | 13.714      | 3715          | 3724        | 3733         | rBV2     | 32974          | 52640         | 3.30%           | 0.302%        |
| 32        | 13.778      | 3735          | 3744        | 3749         | rBV2     | 67395          | 111599        | 7.00%           | 0.641%        |
| 33        | 13.807      | 3750          | 3753        | 3761         | rVV      | 59525          | 72623         | 4.56%           | 0.417%        |
| 34        | 13.865      | 3761          | 3771        | 3781         | rVV      | 99708          | 159459        | 10.00%          | 0.915%        |

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Sample : L4116-02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS027-200922

## 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\_N\METHODS\82N091620W.M  
Title : SW846 8260

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 35 | 13.971 | 3795 | 3804 | 3814 | rVB4 | 45001 | 73790  | 4.63% | 0.424% |
| 36 | 14.103 | 3835 | 3845 | 3855 | rBV2 | 33277 | 55072  | 3.45% | 0.316% |
| 37 | 14.183 | 3860 | 3870 | 3876 | rBV  | 61115 | 98027  | 6.15% | 0.563% |
| 38 | 14.222 | 3876 | 3882 | 3892 | rVV2 | 91742 | 136860 | 8.58% | 0.786% |
| 39 | 14.450 | 3946 | 3953 | 3962 | rBV3 | 30429 | 47703  | 2.99% | 0.274% |
| 40 | 14.498 | 3963 | 3968 | 3975 | rVB4 | 12646 | 16729  | 1.05% | 0.096% |
| 41 | 14.563 | 3976 | 3988 | 4001 | rBV4 | 72244 | 156047 | 9.79% | 0.896% |
| 42 | 14.823 | 4060 | 4069 | 4076 | rBV7 | 19098 | 35216  | 2.21% | 0.202% |
| 43 | 14.932 | 4092 | 4103 | 4114 | rVB6 | 17914 | 34628  | 2.17% | 0.199% |
| 44 | 15.106 | 4146 | 4157 | 4170 | rVB  | 52282 | 94378  | 5.92% | 0.542% |
| 45 | 16.125 | 4462 | 4474 | 4489 | rBV3 | 20091 | 42790  | 2.68% | 0.246% |
| 46 | 16.312 | 4521 | 4532 | 4543 | rBV3 | 11487 | 23305  | 1.46% | 0.134% |

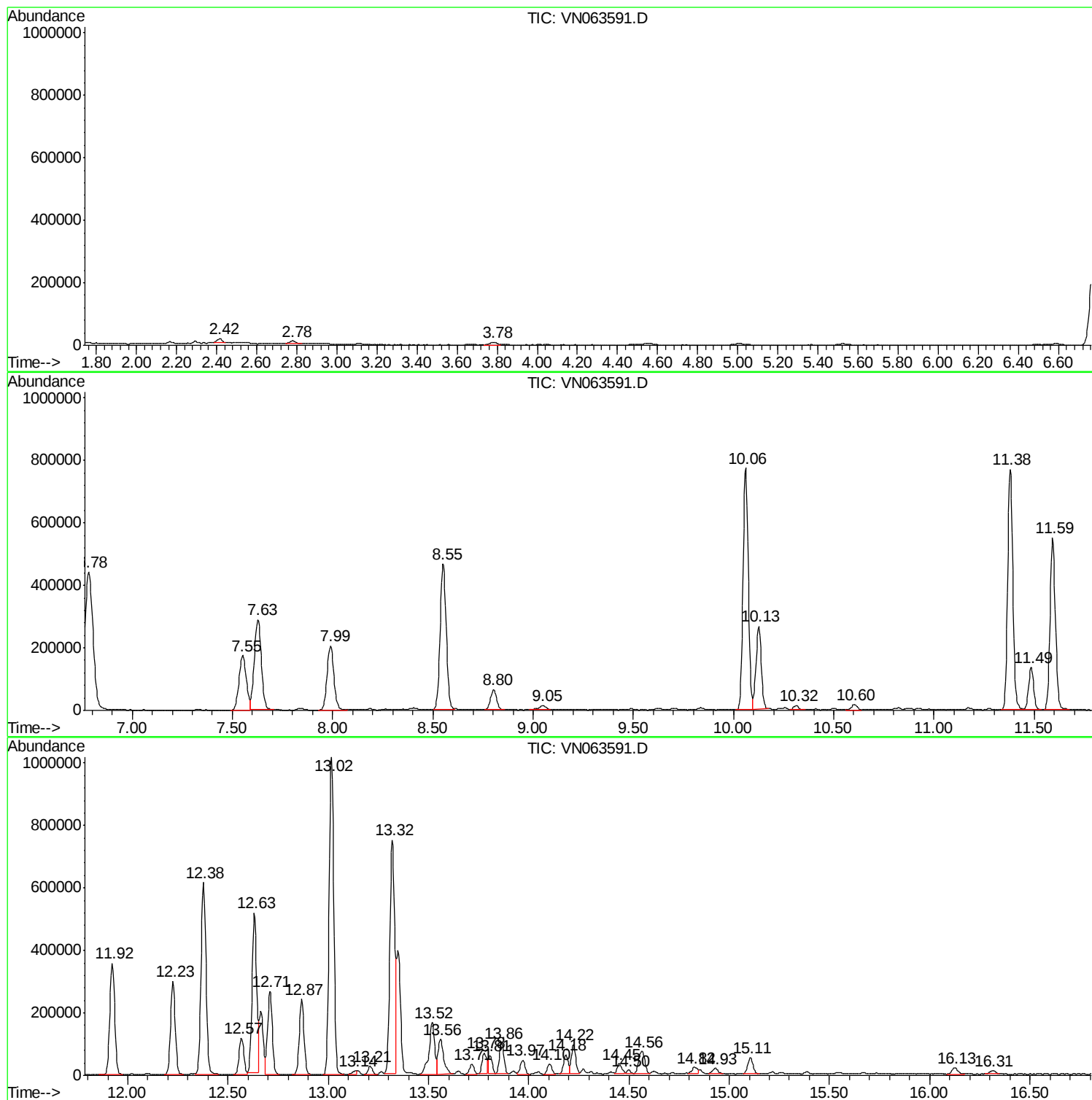
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
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MSVOA\_N  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

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



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Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS027-200922

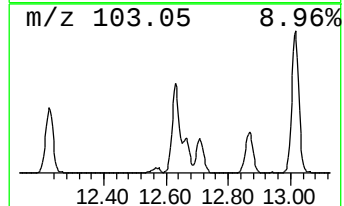
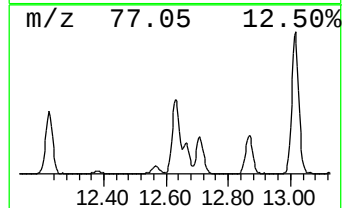
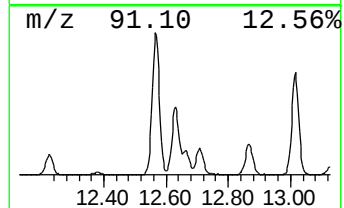
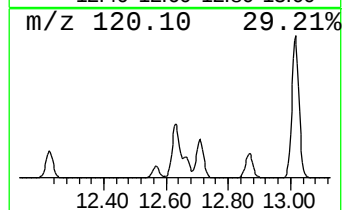
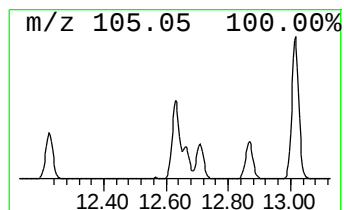
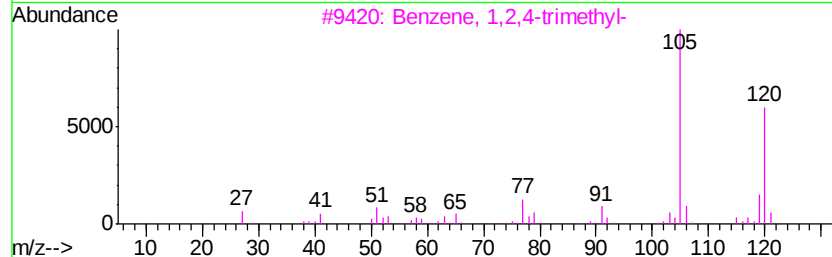
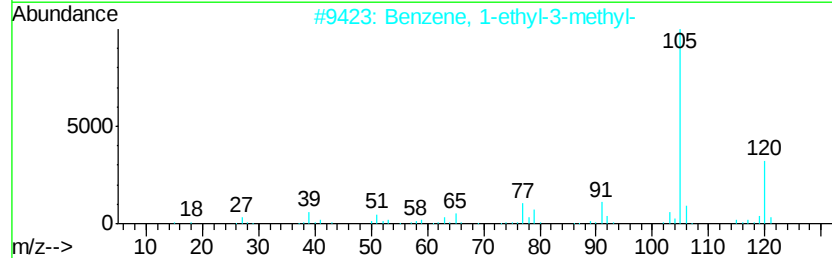
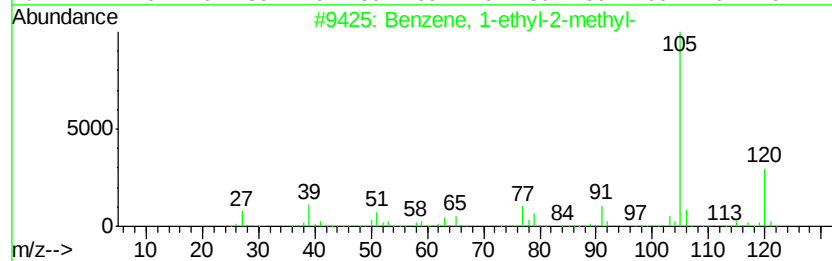
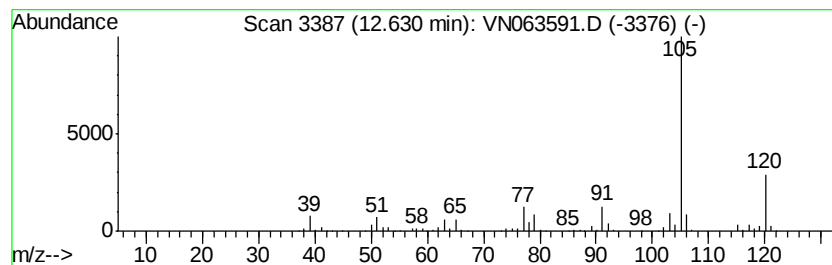
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

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

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Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.63 | 32.73 ug/l | 838701 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 4    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



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ClientSampleId :  
KY038PS027-200922

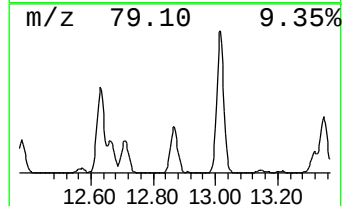
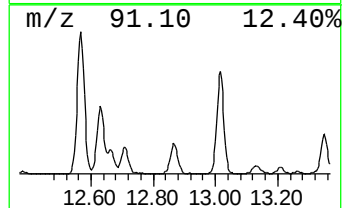
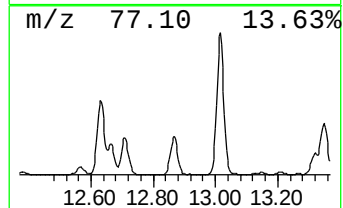
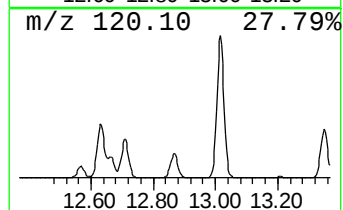
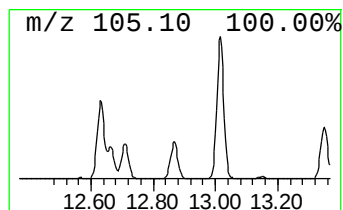
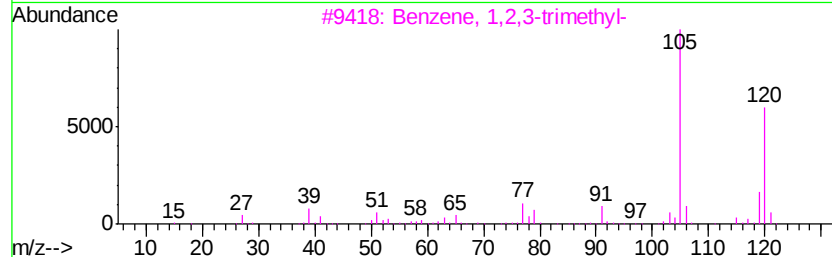
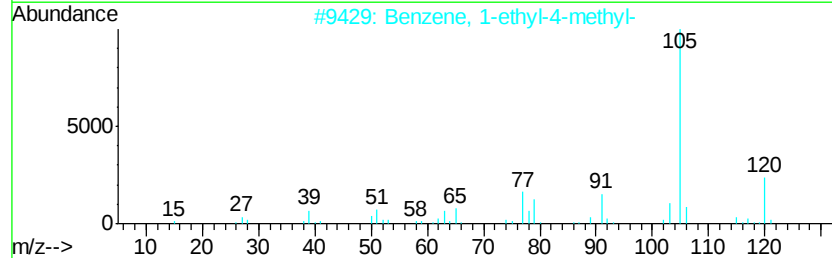
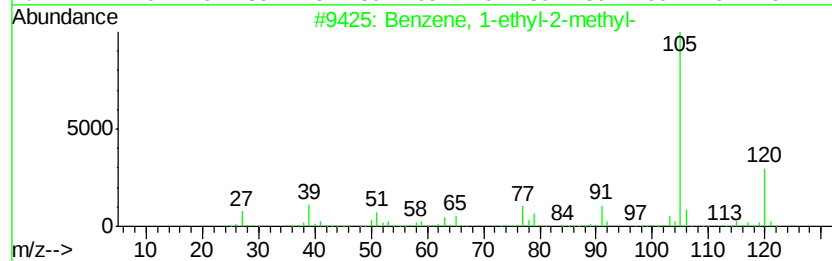
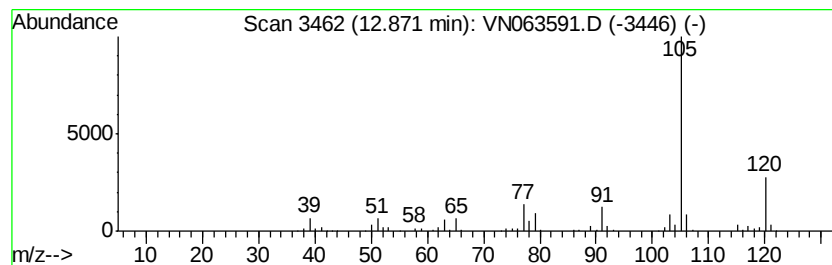
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

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

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Peak Number 2 Benzene, 1-ethyl-4-methyl- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.87 | 15.60 ug/l | 399722 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 93   |
| 3    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 4    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS027-200922

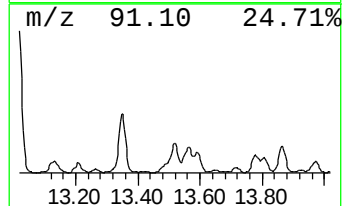
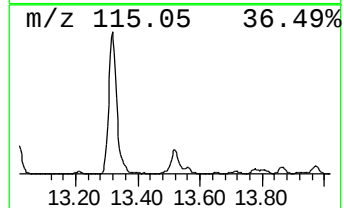
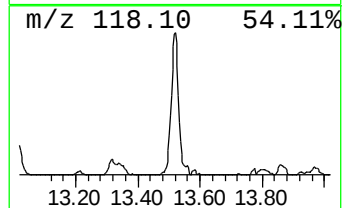
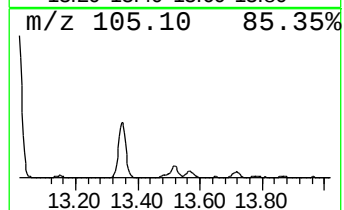
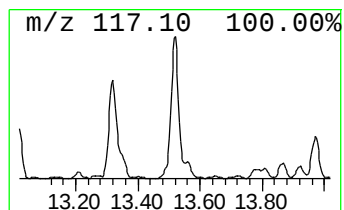
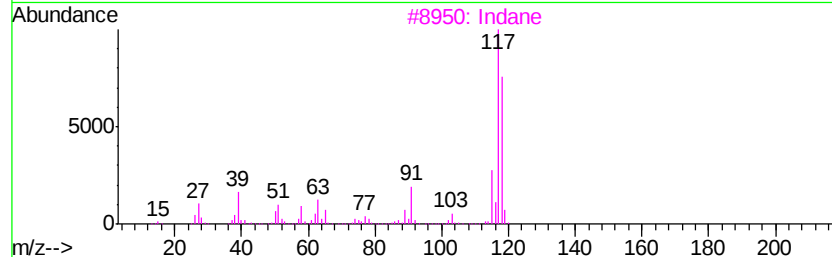
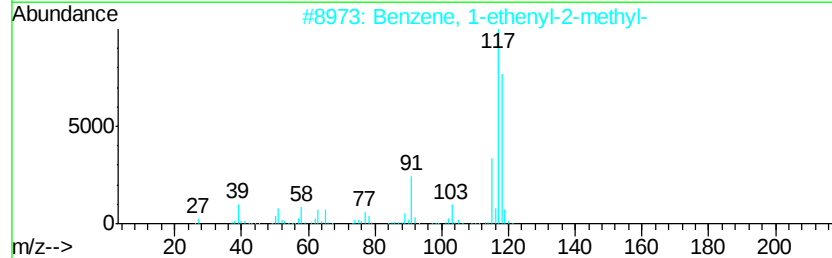
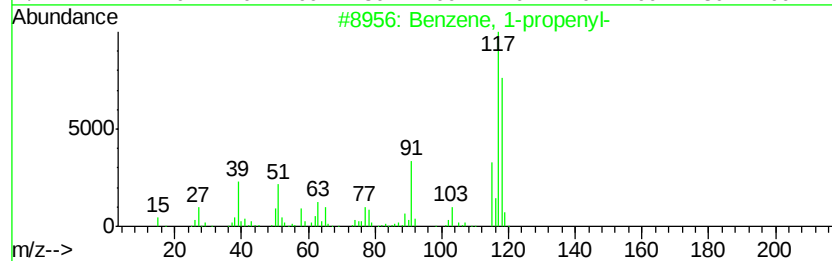
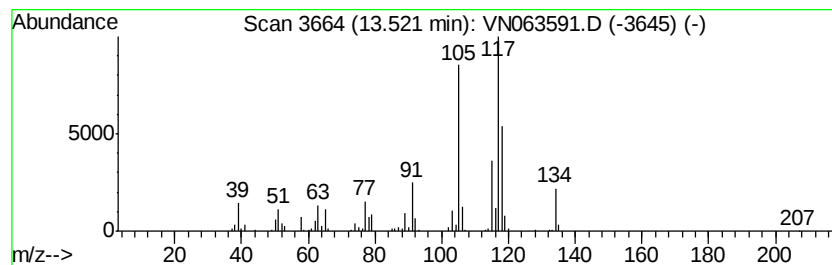
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

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

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Peak Number 3 Benzene, 1-propenyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.52 | 12.46 ug/l | 319307 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-propenyl-                | 118 | C9H10   | 000637-50-3 | 91   |
| 2    |    | Benzene, 1-ethenyl-2-methyl-        | 118 | C9H10   | 000611-15-4 | 91   |
| 3    |    | Indane                              | 118 | C9H10   | 000496-11-7 | 90   |
| 4    |    | Benzene, 1-ethenyl-4-methyl-        | 118 | C9H10   | 000622-97-9 | 83   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10   | 055337-80-9 | 78   |



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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId :  
KY038PS027-200922

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

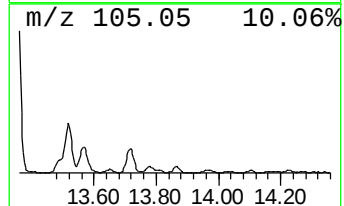
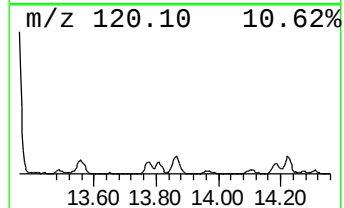
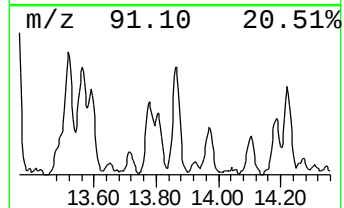
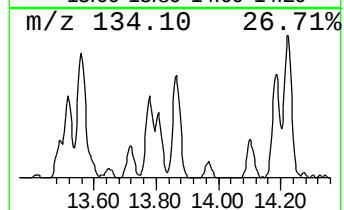
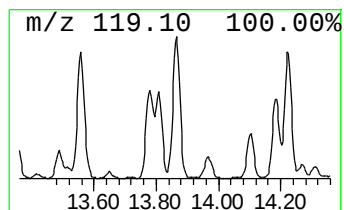
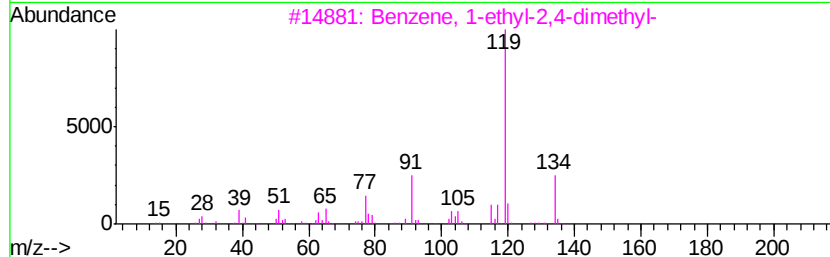
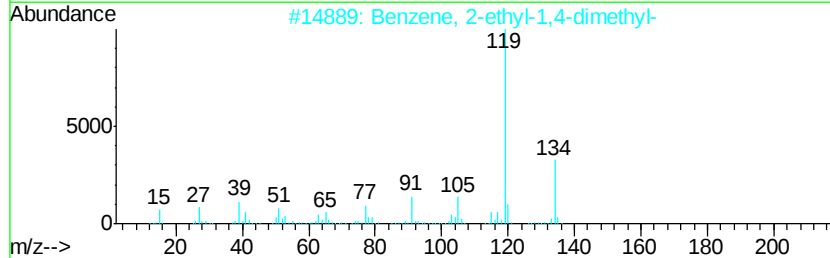
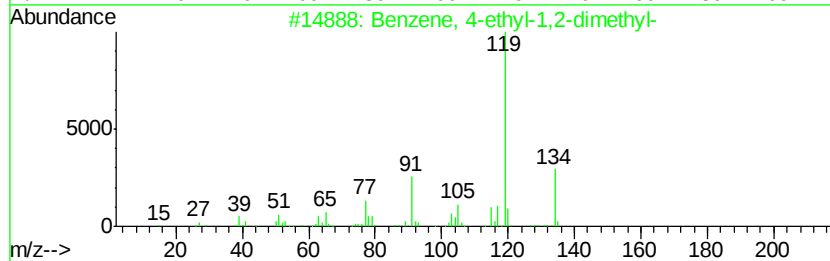
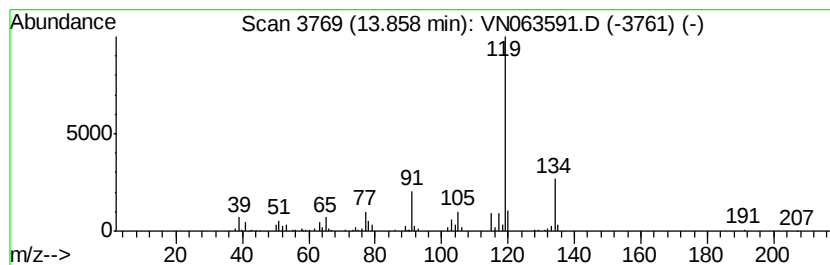
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.86 | 6.22 ug/l | 159459 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 96   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 95   |
| 3    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 95   |
| 4    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 5    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
Data File : VN063591.D  
Acq On : 23 Sep 2020 16:06  
Operator : JC/MD  
Sample : L4116-02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS027-200922

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

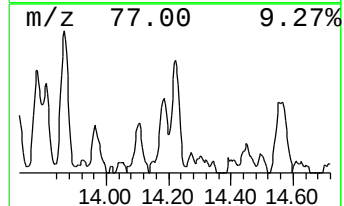
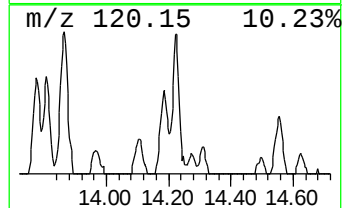
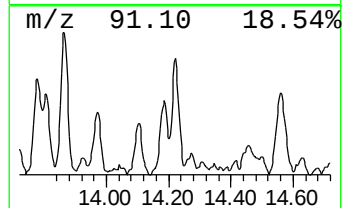
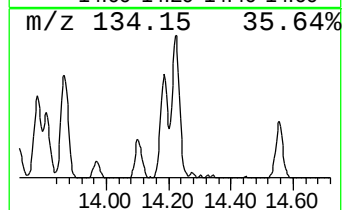
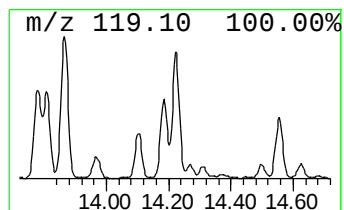
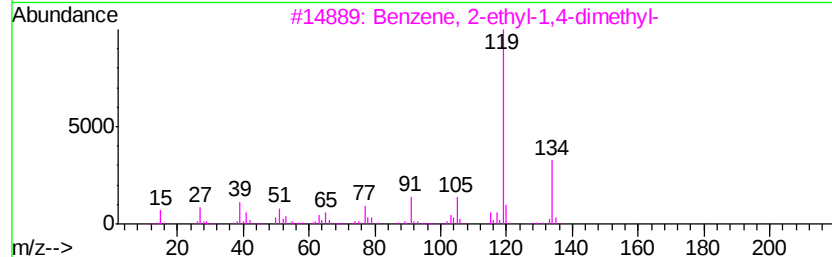
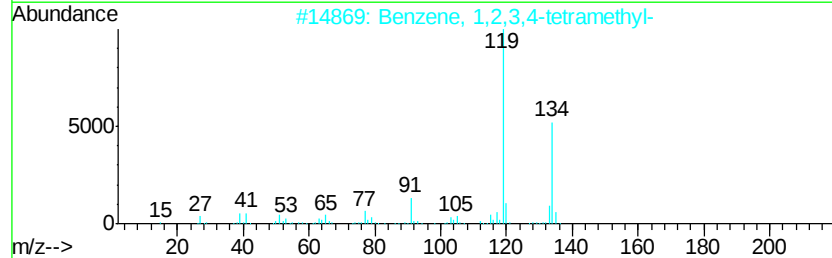
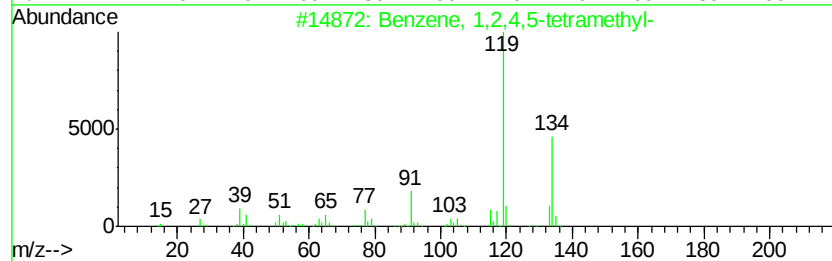
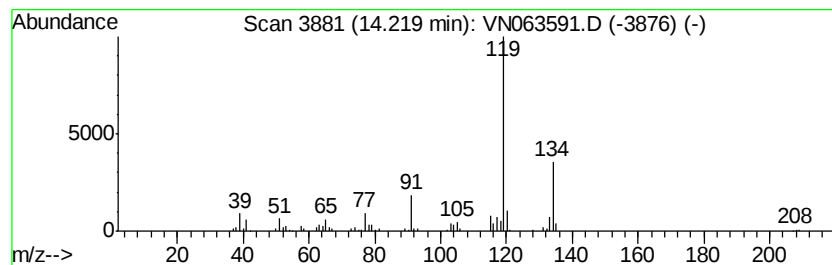
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.22 | 5.34 ug/l | 136860 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------------|-----|---------|-------------|------|
| 1       | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 95   |
| 2       | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 91   |
| 3       | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 4       | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 91   |
| 5       | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
Data File : VN063591.D  
Acq On : 23 Sep 2020 16:06  
Operator : JC/MD  
Sample : L4116-02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

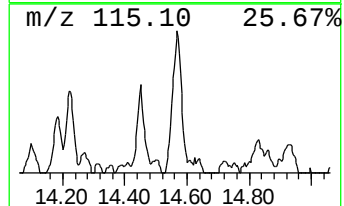
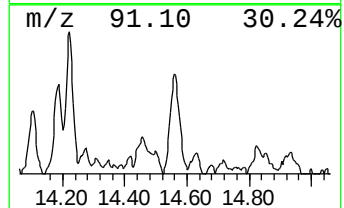
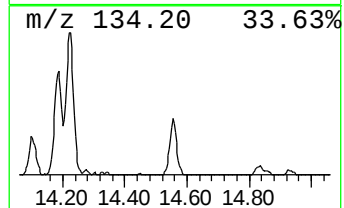
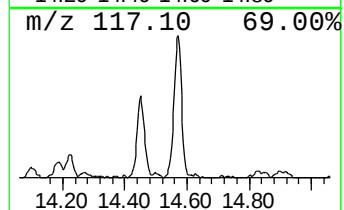
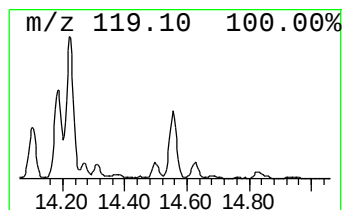
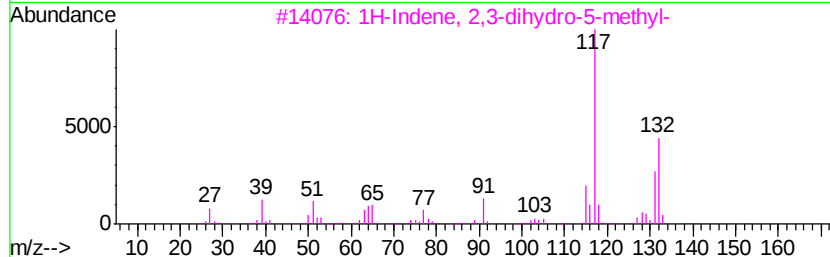
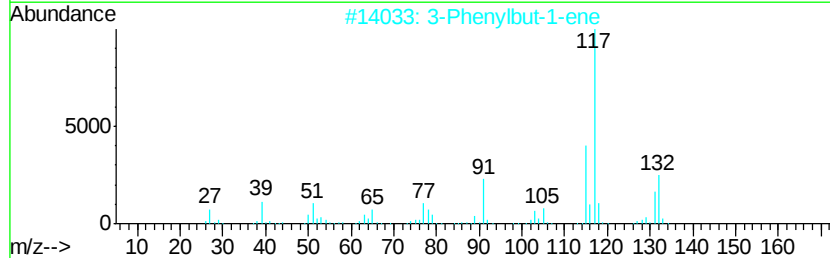
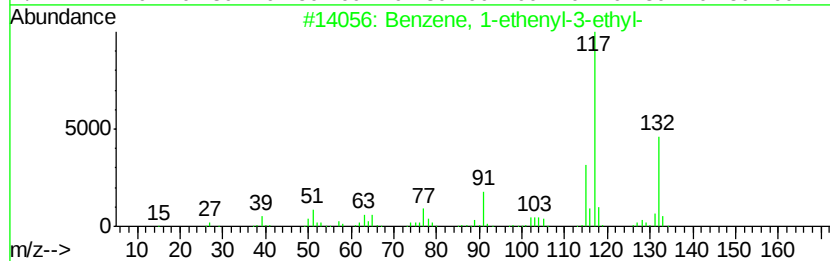
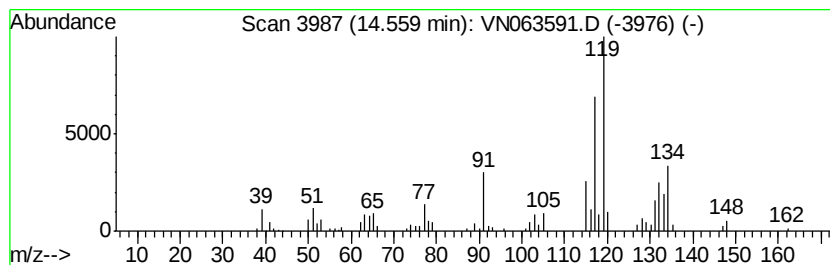
Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS027-200922

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260

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

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Peak Number 6 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 5

| R.T.      | EstConc                           | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------------------|--------|------------------------|-------------|------|
| 14.56     | 6.09 ug/l                         | 156047 | 1,4-Dichlorobenzene-d4 | 13.32       |      |
| Hit# of 5 | Tentative ID                      | MW     | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1-ethenyl-3-ethyl-       | 132    | C10H12                 | 007525-62-4 | 83   |
| 2         | 3-Phenylbut-1-ene                 | 132    | C10H12                 | 000934-10-1 | 50   |
| 3         | 1H-Indene, 2,3-dihydro-5-methyl-  | 132    | C10H12                 | 000874-35-1 | 50   |
| 4         | 1H-Indene, 2,3-dihydro-4-methyl-  | 132    | C10H12                 | 000824-22-6 | 50   |
| 5         | Benzene, 1-methyl-2-(2-propenyl)- | 132    | C10H12                 | 001587-04-8 | 46   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN092320\  
Data File : VN063591.D  
Acq On : 23 Sep 2020 16:06  
Operator : JC/MD  
Sample : L4116-02  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS027-200922

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.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 |
| Benzene, 1-ethyl-... | 12.63 | 32.7    | ug/l  | 838701   | 4                     | 13.32 | 1281180 | 50.0 |
| Benzene, 1-ethyl-... | 12.87 | 15.6    | ug/l  | 399722   | 4                     | 13.32 | 1281180 | 50.0 |
| Benzene, 1-propenyl- | 13.52 | 12.5    | ug/l  | 319307   | 4                     | 13.32 | 1281180 | 50.0 |
| Benzene, 4-ethyl-... | 13.86 | 6.2     | ug/l  | 159459   | 4                     | 13.32 | 1281180 | 50.0 |
| Benzene, 1,2,4,5-... | 14.22 | 5.3     | ug/l  | 136860   | 4                     | 13.32 | 1281180 | 50.0 |
| Benzene, 1-etheny... | 14.56 | 6.1     | ug/l  | 156047   | 4                     | 13.32 | 1281180 | 50.0 |