

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
 Data File : VX012497.D  
 Acq On : 19 Sep 2019 01:08  
 Operator : JC/SP  
 Sample : K4830-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S13-0273

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\_X\METHOD\82X091719W.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         | 1.070       | 26            | 30          | 39           | rBV      | 791677         | 923180        | 56.99%          | 3.590%        |
| 2         | 1.265       | 58            | 62          | 70           | rBV      | 28912          | 36920         | 2.28%           | 0.144%        |
| 3         | 1.783       | 141           | 147         | 158          | rVB      | 236051         | 336595        | 20.78%          | 1.309%        |
| 4         | 2.387       | 238           | 246         | 262          | rVB      | 172205         | 351506        | 21.70%          | 1.367%        |
| 5         | 2.594       | 274           | 280         | 291          | rVB      | 61134          | 107348        | 6.63%           | 0.417%        |
| 6         | 2.838       | 311           | 320         | 328          | rBV      | 248287         | 547769        | 33.82%          | 2.130%        |
| 7         | 2.923       | 328           | 334         | 344          | rVB      | 107842         | 220577        | 13.62%          | 0.858%        |
| 8         | 3.161       | 363           | 373         | 386          | rBV      | 535093         | 1214237       | 74.96%          | 4.722%        |
| 9         | 4.137       | 520           | 533         | 544          | rBV2     | 25052          | 79468         | 4.91%           | 0.309%        |
| 10        | 4.301       | 548           | 560         | 566          | rBV2     | 55458          | 163953        | 10.12%          | 0.638%        |
| 11        | 4.393       | 566           | 575         | 590          | rVV      | 444437         | 1287711       | 79.50%          | 5.008%        |
| 12        | 4.539       | 590           | 599         | 612          | rVB5     | 15077          | 58178         | 3.59%           | 0.226%        |
| 13        | 5.234       | 699           | 713         | 724          | rBV2     | 38123          | 134926        | 8.33%           | 0.525%        |
| 14        | 5.490       | 744           | 755         | 760          | rBV2     | 109062         | 300656        | 18.56%          | 1.169%        |
| 15        | 5.569       | 760           | 768         | 776          | rVV      | 305909         | 944958        | 58.34%          | 3.675%        |
| 16        | 5.655       | 776           | 782         | 787          | rVV      | 209185         | 588905        | 36.36%          | 2.290%        |
| 17        | 5.722       | 787           | 793         | 806          | rVB3     | 178949         | 544254        | 33.60%          | 2.117%        |
| 18        | 5.941       | 818           | 829         | 839          | rBV2     | 65231          | 198242        | 12.24%          | 0.771%        |
| 19        | 6.057       | 839           | 848         | 858          | rVB      | 126924         | 330517        | 20.40%          | 1.285%        |
| 20        | 6.252       | 867           | 880         | 888          | rBV2     | 94479          | 324951        | 20.06%          | 1.264%        |
| 21        | 6.344       | 888           | 895         | 904          | rVV3     | 152312         | 463035        | 28.59%          | 1.801%        |
| 22        | 6.447       | 904           | 912         | 927          | rVB2     | 116666         | 327053        | 20.19%          | 1.272%        |
| 23        | 6.850       | 968           | 978         | 990          | rBV      | 304788         | 712861        | 44.01%          | 2.772%        |
| 24        | 7.459       | 1064          | 1078        | 1089         | rBV      | 690648         | 1619843       | 100.00%         | 6.299%        |
| 25        | 7.630       | 1101          | 1106        | 1110         | rVV4     | 17687          | 38749         | 2.39%           | 0.151%        |
| 26        | 7.727       | 1117          | 1122        | 1132         | rVV2     | 29108          | 60023         | 3.71%           | 0.233%        |
| 27        | 7.843       | 1132          | 1141        | 1150         | rVB2     | 36781          | 81286         | 5.02%           | 0.316%        |
| 28        | 8.051       | 1163          | 1175        | 1183         | rVB3     | 80324          | 225210        | 13.90%          | 0.876%        |
| 29        | 8.172       | 1186          | 1195        | 1204         | rBV      | 141381         | 290620        | 17.94%          | 1.130%        |
| 30        | 8.386       | 1223          | 1230        | 1236         | rBV2     | 30562          | 60582         | 3.74%           | 0.236%        |
| 31        | 8.660       | 1268          | 1275        | 1278         | rBV2     | 128001         | 228297        | 14.09%          | 0.888%        |
| 32        | 8.709       | 1278          | 1283        | 1297         | rVV      | 626468         | 1029861       | 63.58%          | 4.005%        |
| 33        | 8.837       | 1297          | 1304        | 1309         | rVV      | 70013          | 122261        | 7.55%           | 0.475%        |
| 34        | 8.904       | 1309          | 1315        | 1323         | rVB      | 34655          | 68470         | 4.23%           | 0.266%        |

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 MSVOA\_X  
 ClientSampleId :  
 S13-0273

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 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\_X\METHOD\82X091719W.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 9.038  | 1331 | 1337 | 1343 | rVB  | 135106 | 218640 | 13.50% | 0.850% |
| 36 | 9.160  | 1348 | 1357 | 1362 | rBV  | 67695  | 110738 | 6.84%  | 0.431% |
| 37 | 9.569  | 1419 | 1424 | 1428 | rBV  | 36338  | 55593  | 3.43%  | 0.216% |
| 38 | 9.617  | 1428 | 1432 | 1437 | rVB  | 124579 | 172572 | 10.65% | 0.671% |
| 39 | 9.672  | 1437 | 1441 | 1446 | rBV2 | 68563  | 103733 | 6.40%  | 0.403% |
| 40 | 9.892  | 1469 | 1477 | 1489 | rVB4 | 16696  | 42135  | 2.60%  | 0.164% |
| 41 | 10.111 | 1507 | 1513 | 1519 | rBV  | 533497 | 750786 | 46.35% | 2.920% |
| 42 | 10.184 | 1519 | 1525 | 1529 | rVB  | 69259  | 102667 | 6.34%  | 0.399% |
| 43 | 10.331 | 1544 | 1549 | 1559 | rBV4 | 39152  | 96354  | 5.95%  | 0.375% |
| 44 | 10.507 | 1573 | 1578 | 1584 | rVB2 | 19319  | 29073  | 1.79%  | 0.113% |
| 45 | 10.642 | 1591 | 1600 | 1608 | rBV4 | 29445  | 86378  | 5.33%  | 0.336% |
| 46 | 10.831 | 1627 | 1631 | 1638 | rVB  | 52052  | 75485  | 4.66%  | 0.294% |
| 47 | 10.910 | 1638 | 1644 | 1650 | rBV5 | 27560  | 49345  | 3.05%  | 0.192% |
| 48 | 11.013 | 1656 | 1661 | 1667 | rBV  | 116140 | 153850 | 9.50%  | 0.598% |
| 49 | 11.135 | 1675 | 1681 | 1685 | rBV  | 426221 | 561371 | 34.66% | 2.183% |
| 50 | 11.178 | 1685 | 1688 | 1692 | rVV2 | 29316  | 41285  | 2.55%  | 0.161% |
| 51 | 11.276 | 1700 | 1704 | 1708 | rVV2 | 24725  | 38134  | 2.35%  | 0.148% |
| 52 | 11.355 | 1712 | 1717 | 1727 | rVB  | 89042  | 116799 | 7.21%  | 0.454% |
| 53 | 11.666 | 1763 | 1768 | 1776 | rBV7 | 24559  | 50974  | 3.15%  | 0.198% |
| 54 | 11.763 | 1776 | 1784 | 1788 | rBV  | 41102  | 61349  | 3.79%  | 0.239% |
| 55 | 11.916 | 1801 | 1809 | 1810 | rBV2 | 66322  | 87855  | 5.42%  | 0.342% |
| 56 | 11.940 | 1810 | 1813 | 1821 | rVB  | 155511 | 206905 | 12.77% | 0.805% |
| 57 | 12.074 | 1830 | 1835 | 1841 | rBV  | 534197 | 657345 | 40.58% | 2.556% |
| 58 | 12.227 | 1855 | 1860 | 1865 | rBV  | 78305  | 101274 | 6.25%  | 0.394% |
| 59 | 12.294 | 1866 | 1871 | 1876 | rVV  | 296956 | 390154 | 24.09% | 1.517% |
| 60 | 12.367 | 1876 | 1883 | 1893 | rVB2 | 115882 | 214666 | 13.25% | 0.835% |
| 61 | 12.458 | 1893 | 1898 | 1903 | rBV  | 117364 | 158704 | 9.80%  | 0.617% |
| 62 | 12.666 | 1920 | 1932 | 1935 | rBV  | 420609 | 559290 | 34.53% | 2.175% |
| 63 | 12.696 | 1935 | 1937 | 1942 | rVV  | 176450 | 228536 | 14.11% | 0.889% |
| 64 | 12.751 | 1942 | 1946 | 1953 | rVV2 | 315179 | 563616 | 34.79% | 2.192% |
| 65 | 12.812 | 1953 | 1956 | 1961 | rVV2 | 34664  | 48555  | 3.00%  | 0.189% |
| 66 | 12.891 | 1961 | 1969 | 1974 | rVB3 | 108974 | 173627 | 10.72% | 0.675% |
| 67 | 12.970 | 1974 | 1982 | 1988 | rBV  | 337497 | 479542 | 29.60% | 1.865% |
| 68 | 13.080 | 1995 | 2000 | 2006 | rVB3 | 59312  | 93877  | 5.80%  | 0.365% |
| 69 | 13.147 | 2006 | 2011 | 2015 | rBV2 | 56362  | 89136  | 5.50%  | 0.347% |
| 70 | 13.190 | 2015 | 2018 | 2021 | rVV2 | 79707  | 89422  | 5.52%  | 0.348% |
| 71 | 13.220 | 2021 | 2023 | 2026 | rVB  | 78391  | 72968  | 4.50%  | 0.284% |

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## Integration Parameters: RTEINT.P

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Filtering: 5  
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 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Title : SW846 8260

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 13.342 | 2038 | 2043 | 2049 | rVB2 | 785146 | 1128829 | 69.69% | 4.390% |
| 73  | 13.422 | 2054 | 2056 | 2059 | rVV  | 41953  | 39428   | 2.43%  | 0.153% |
| 74  | 13.476 | 2059 | 2065 | 2071 | rVB  | 116078 | 167201  | 10.32% | 0.650% |
| 75  | 13.562 | 2074 | 2079 | 2081 | rBV2 | 49429  | 69477   | 4.29%  | 0.270% |
| 76  | 13.598 | 2081 | 2085 | 2087 | rVV  | 64539  | 82052   | 5.07%  | 0.319% |
| 77  | 13.635 | 2087 | 2091 | 2095 | rVV3 | 163994 | 228670  | 14.12% | 0.889% |
| 78  | 13.696 | 2095 | 2101 | 2102 | rVV2 | 116035 | 204796  | 12.64% | 0.796% |
| 79  | 13.714 | 2102 | 2104 | 2113 | rVB2 | 201533 | 319821  | 19.74% | 1.244% |
| 80  | 13.806 | 2113 | 2119 | 2121 | rBV  | 70287  | 92238   | 5.69%  | 0.359% |
| 81  | 13.848 | 2121 | 2126 | 2131 | rVB2 | 71675  | 127366  | 7.86%  | 0.495% |
| 82  | 13.909 | 2131 | 2136 | 2140 | rVB  | 87720  | 112086  | 6.92%  | 0.436% |
| 83  | 13.982 | 2140 | 2148 | 2152 | rBV2 | 139033 | 213137  | 13.16% | 0.829% |
| 84  | 14.025 | 2152 | 2155 | 2159 | rBV2 | 56508  | 70505   | 4.35%  | 0.274% |
| 85  | 14.129 | 2167 | 2172 | 2174 | rBV3 | 49945  | 68299   | 4.22%  | 0.266% |
| 86  | 14.159 | 2174 | 2177 | 2182 | rVB2 | 40628  | 47292   | 2.92%  | 0.184% |
| 87  | 14.281 | 2190 | 2197 | 2202 | rVB2 | 125494 | 255223  | 15.76% | 0.993% |
| 88  | 14.373 | 2208 | 2212 | 2216 | rVB2 | 46189  | 53221   | 3.29%  | 0.207% |
| 89  | 14.427 | 2216 | 2221 | 2225 | rVB2 | 63398  | 85521   | 5.28%  | 0.333% |
| 90  | 14.470 | 2225 | 2228 | 2233 | rVB2 | 26410  | 34741   | 2.14%  | 0.135% |
| 91  | 14.537 | 2233 | 2239 | 2247 | rBV2 | 188600 | 260960  | 16.11% | 1.015% |
| 92  | 14.690 | 2257 | 2264 | 2267 | rBV2 | 139439 | 198013  | 12.22% | 0.770% |
| 93  | 14.726 | 2267 | 2270 | 2274 | rVV2 | 45710  | 56182   | 3.47%  | 0.218% |
| 94  | 14.836 | 2282 | 2288 | 2293 | rBV2 | 234289 | 328040  | 20.25% | 1.276% |
| 95  | 14.958 | 2303 | 2308 | 2316 | rBV7 | 12972  | 31489   | 1.94%  | 0.122% |
| 96  | 15.238 | 2349 | 2354 | 2362 | rVV3 | 27269  | 50263   | 3.10%  | 0.195% |
| 97  | 15.543 | 2397 | 2404 | 2408 | rBV2 | 42317  | 69807   | 4.31%  | 0.271% |
| 98  | 15.677 | 2420 | 2426 | 2430 | rBV  | 53750  | 96029   | 5.93%  | 0.373% |
| 99  | 15.720 | 2430 | 2433 | 2439 | rVB2 | 23899  | 38480   | 2.38%  | 0.150% |
| 100 | 15.903 | 2461 | 2463 | 2473 | rVB3 | 14268  | 29522   | 1.82%  | 0.115% |

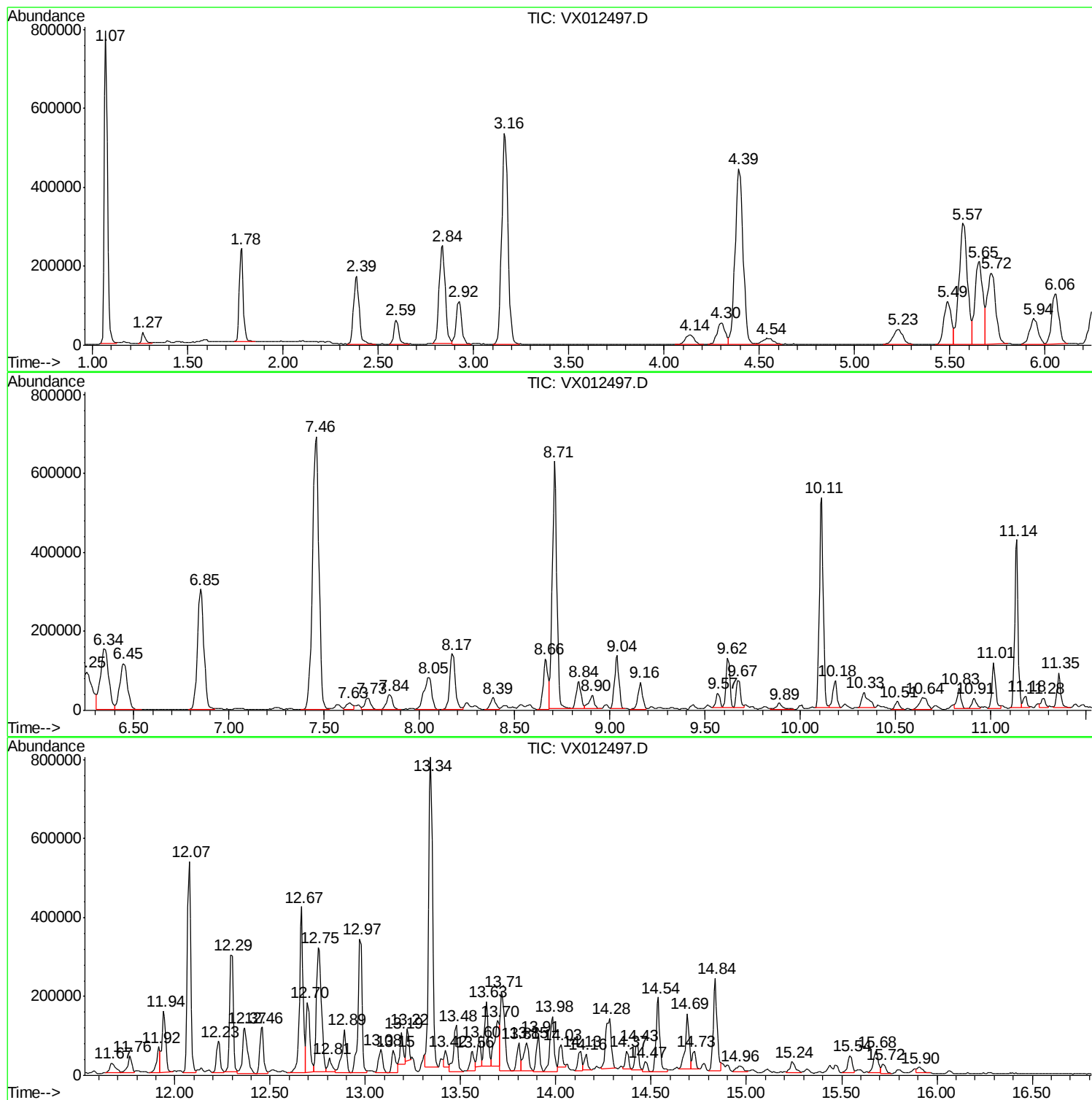
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
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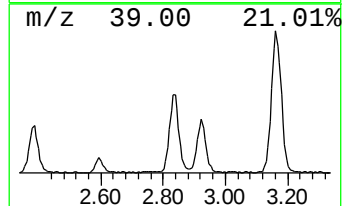
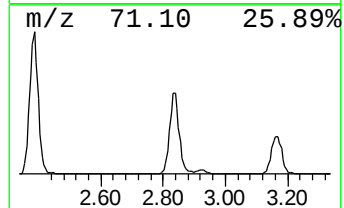
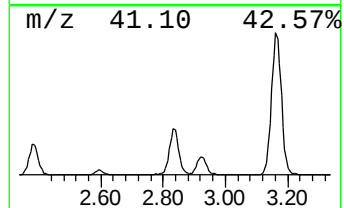
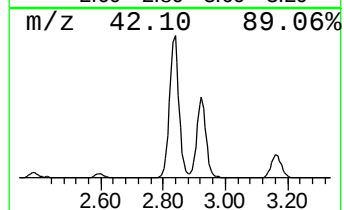
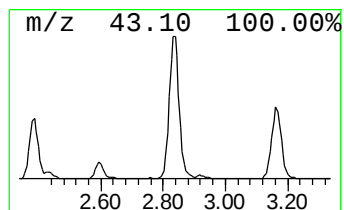
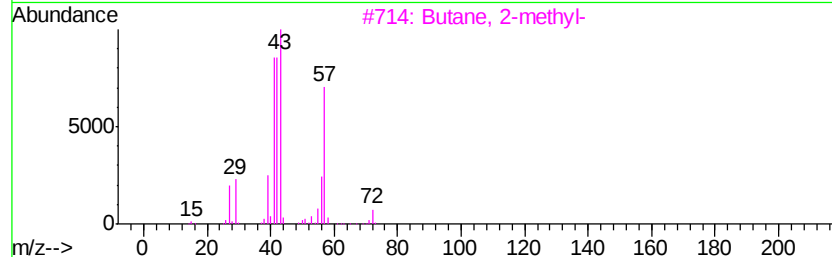
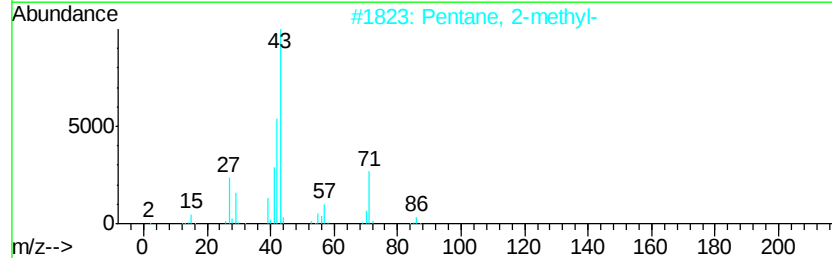
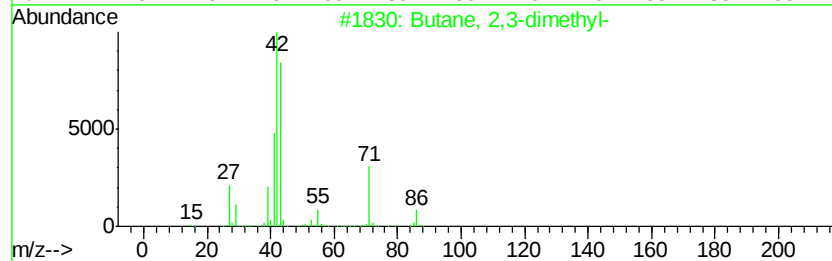
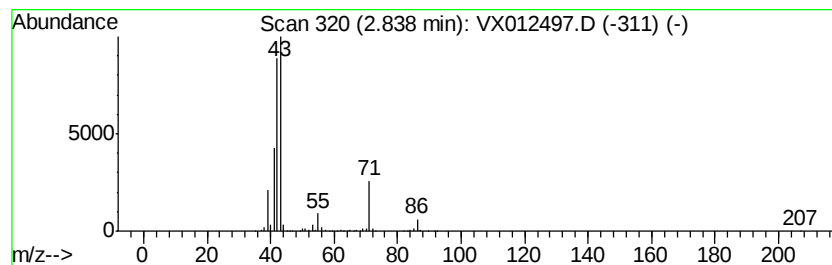
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 5

| R.T. | EstConc    | Area   | Relative to ISTD   | R.T. |
|------|------------|--------|--------------------|------|
| 2.84 | 46.51 ug/l | 547769 | Pentafluorobenzene | 5.65 |

| Hit# | of | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------------|----|---------|-------------|------|
| 1    | 5  | Butane, 2,3-dimethyl-       | 86 | C6H14   | 000079-29-8 | 87   |
| 2    |    | Pentane, 2-methyl-          | 86 | C6H14   | 000107-83-5 | 40   |
| 3    |    | Butane, 2-methyl-           | 72 | C5H12   | 000078-78-4 | 36   |
| 4    |    | Furan, tetrahydro-2-methyl- | 86 | C5H10O  | 000096-47-9 | 12   |
| 5    |    | Pyrrolidine                 | 71 | C4H9N   | 000123-75-1 | 10   |



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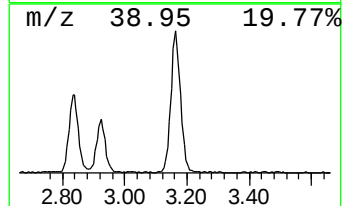
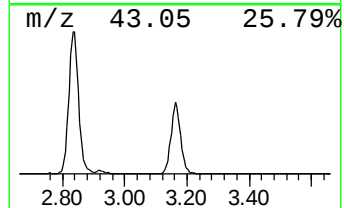
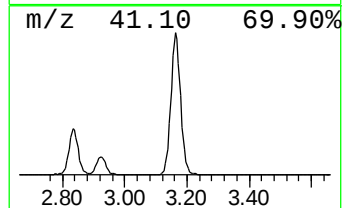
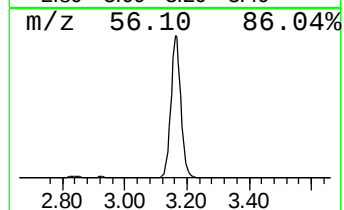
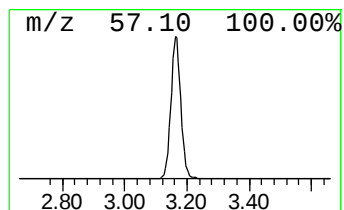
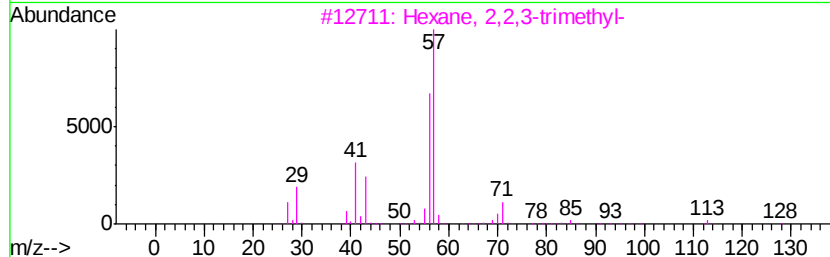
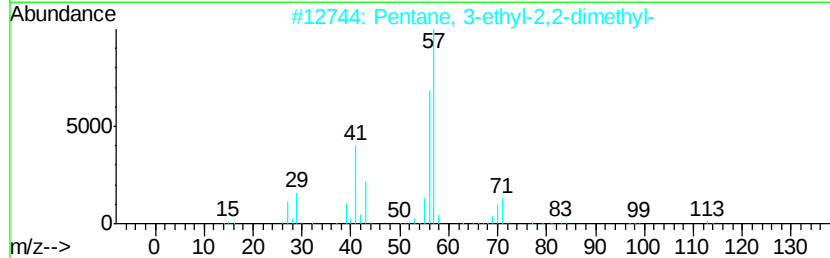
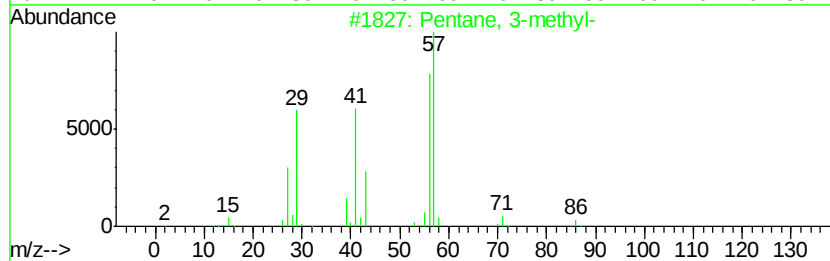
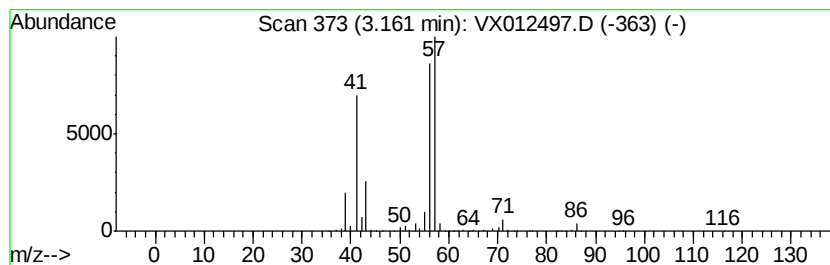
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Pentane, 3-methyl- Concentration Rank 2

| R.T. | EstConc     | Area    | Relative to ISTD   | R.T. |
|------|-------------|---------|--------------------|------|
| 3.16 | 103.09 ug/l | 1214240 | Pentafluorobenzene | 5.65 |

| Hit# | of | Tentative ID                   | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------|-----|----------|-------------|------|
| 1    | 5  | Pentane, 3-methyl-             | 86  | C6H14    | 000096-14-0 | 91   |
| 2    |    | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20    | 016747-32-3 | 64   |
| 3    |    | Hexane, 2,2,3-trimethyl-       | 128 | C9H20    | 016747-25-4 | 43   |
| 4    |    | Sulphuric acid dibutyl ester   | 210 | C8H18O4S | 000625-22-9 | 40   |
| 5    |    | Pentane, 2,2,3-trimethyl-      | 114 | C8H18    | 000564-02-3 | 39   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

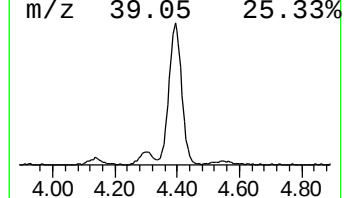
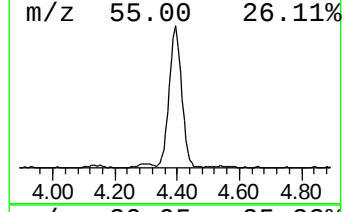
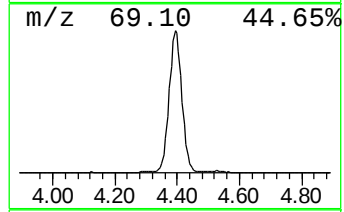
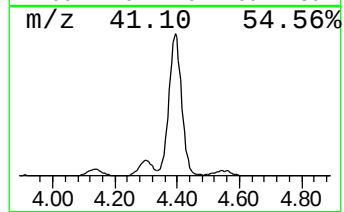
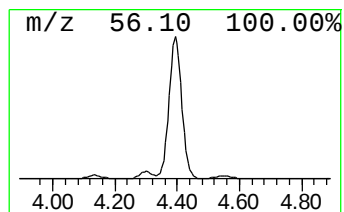
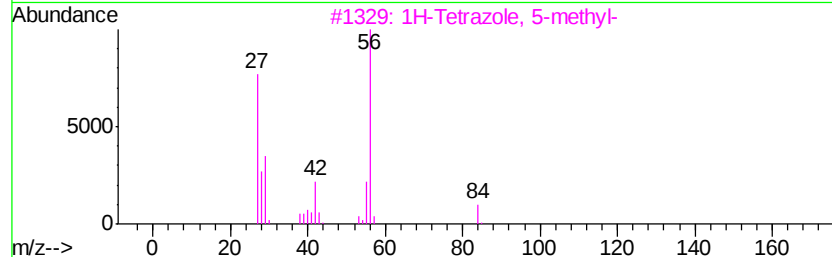
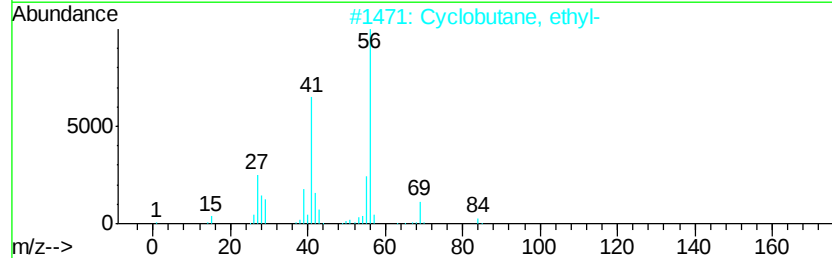
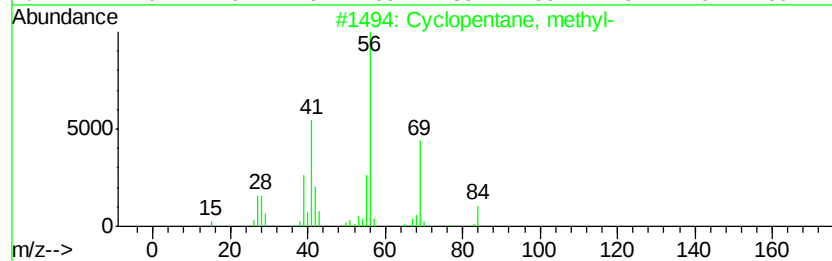
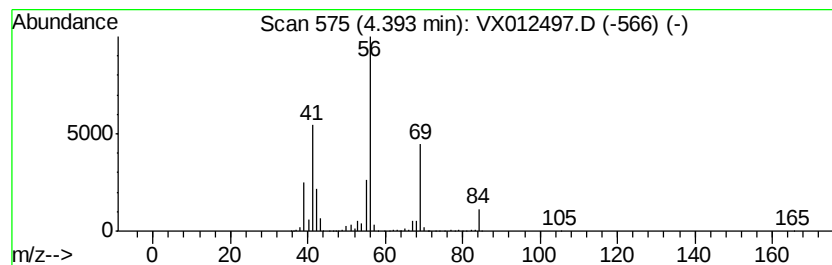
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Cyclopentane, methyl- Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD   | R.T. |
|------|-------------|---------|--------------------|------|
| 4.39 | 109.33 ug/l | 1287710 | Pentafluorobenzene | 5.65 |

| Hit# | of | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------|----|---------|-------------|------|
| 1    | 5  | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 94   |
| 2    |    | Cyclobutane, ethyl-     | 84 | C6H12   | 004806-61-5 | 72   |
| 3    |    | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4  | 004076-36-2 | 64   |
| 4    |    | Cyclobutane             | 56 | C4H8    | 000287-23-0 | 50   |
| 5    |    | 1-Hexene                | 84 | C6H12   | 000592-41-6 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

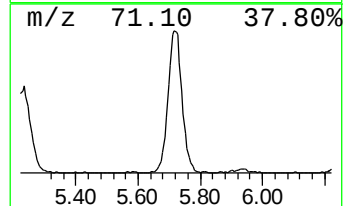
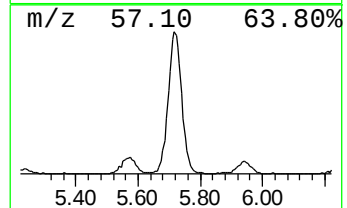
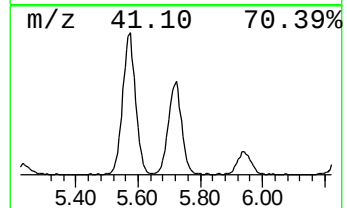
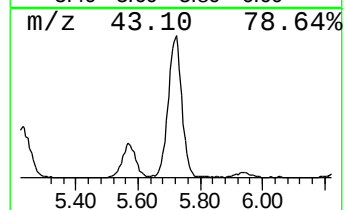
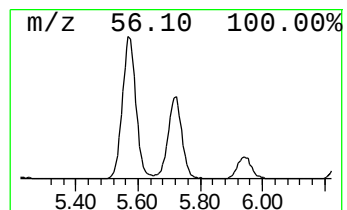
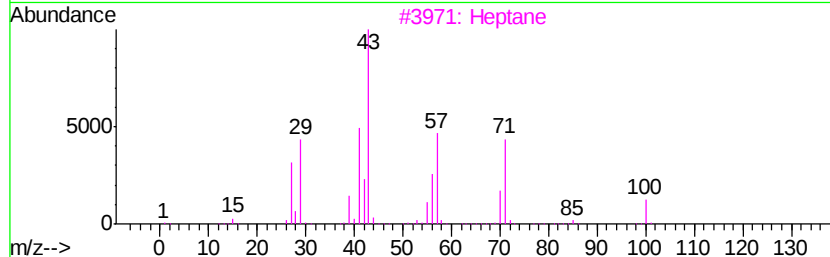
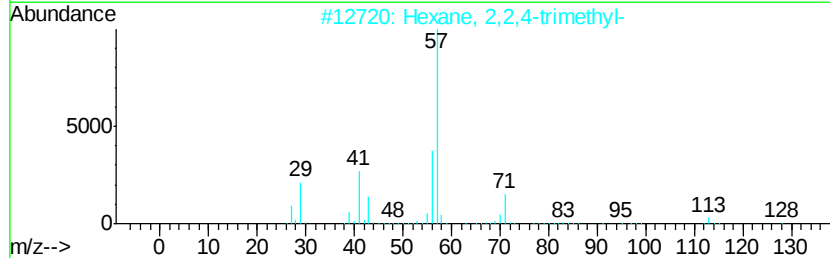
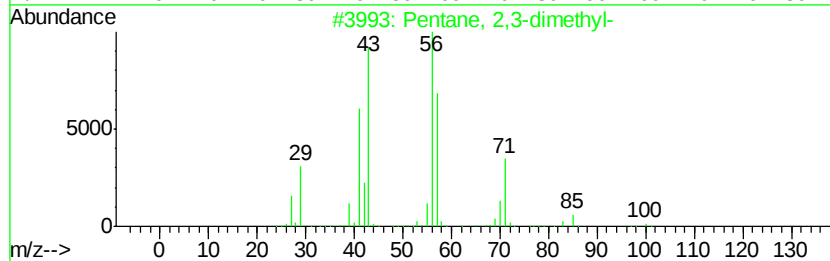
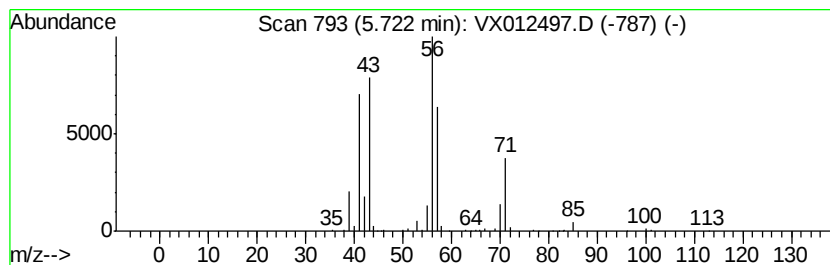
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Pentane, 2,3-dimethyl- Concentration Rank 6

| R.T. | EstConc    | Area   | Relative to ISTD   | R.T. |
|------|------------|--------|--------------------|------|
| 5.72 | 46.21 ug/l | 544254 | Pentafluorobenzene | 5.65 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3-dimethyl-   | 100 | C7H16   | 000565-59-3 | 91   |
| 2    |    | Hexane, 2,2,4-trimethyl- | 128 | C9H20   | 016747-26-5 | 42   |
| 3    |    | Heptane                  | 100 | C7H16   | 000142-82-5 | 37   |
| 4    |    | Heptane, 3,3-dimethyl-   | 128 | C9H20   | 004032-86-4 | 35   |
| 5    |    | Butane, 2,2,3-trimethyl- | 100 | C7H16   | 000464-06-2 | 33   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

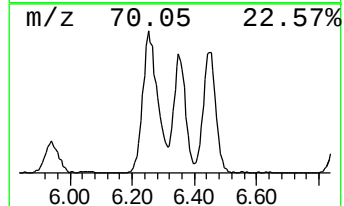
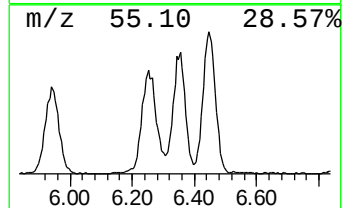
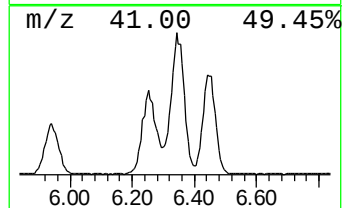
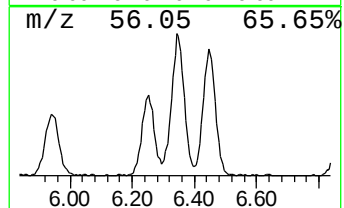
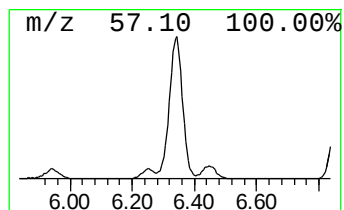
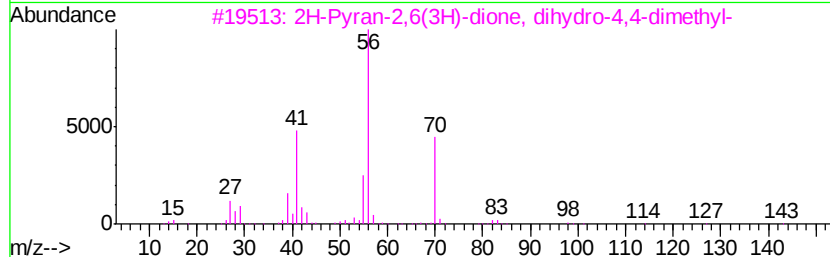
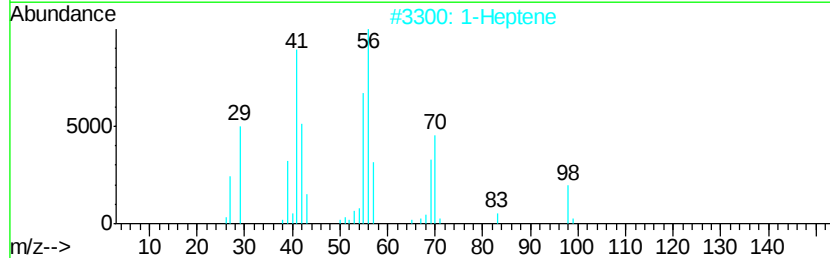
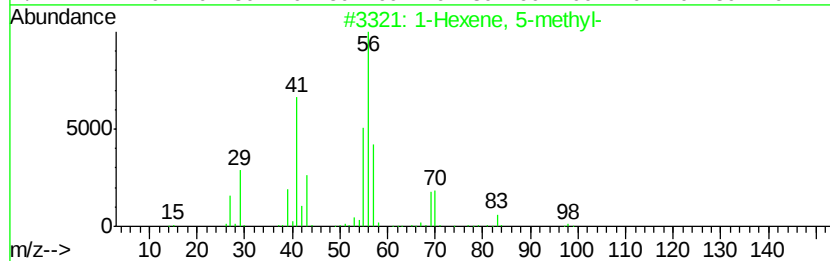
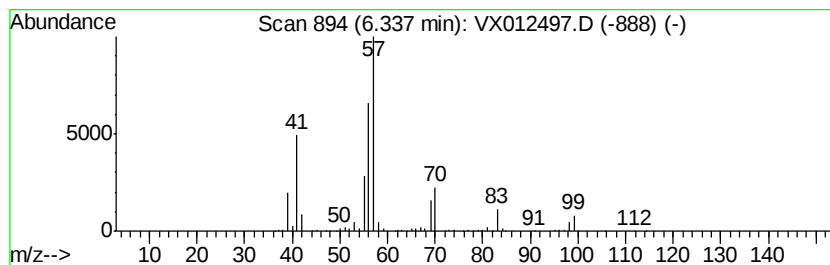
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 1-Hexene, 5-methyl- Concentration Rank 10

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 6.34 | 32.48 ug/l | 463035 | 1,4-Difluorobenzene | 6.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Hexene, 5-methyl-                 | 98  | C7H14   | 003524-73-0 | 72   |
| 2    |    | 1-Heptene                           | 98  | C7H14   | 000592-76-7 | 59   |
| 3    |    | 2H-Pyran-2,6(3H)-dione, dihydro-... | 142 | C7H10O3 | 004160-82-1 | 53   |
| 4    |    | Hexane, 2,2,3-trimethyl-            | 128 | C9H20   | 016747-25-4 | 53   |
| 5    |    | 1-Hexene, 4-methyl-                 | 98  | C7H14   | 003769-23-1 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
S13-0273

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260

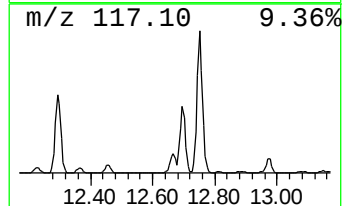
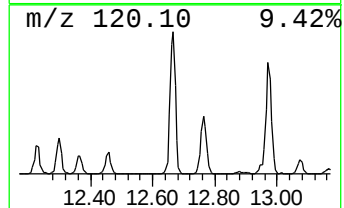
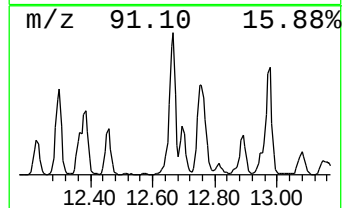
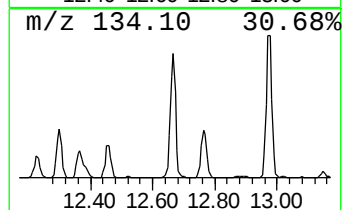
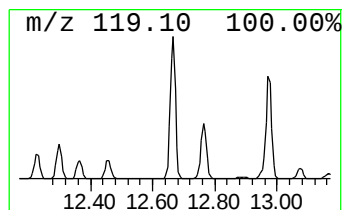
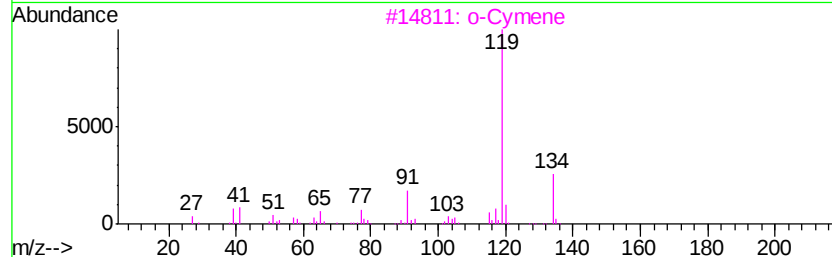
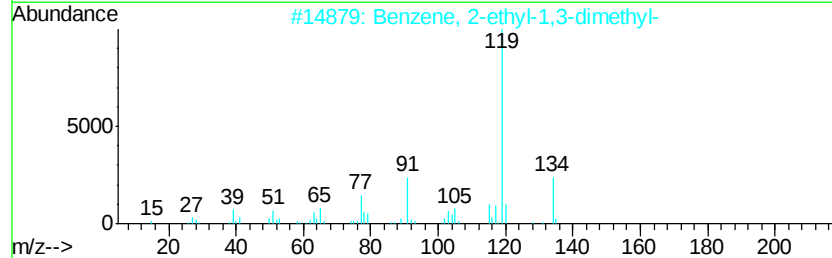
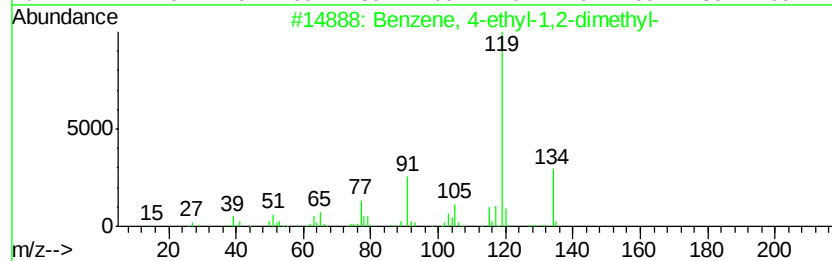
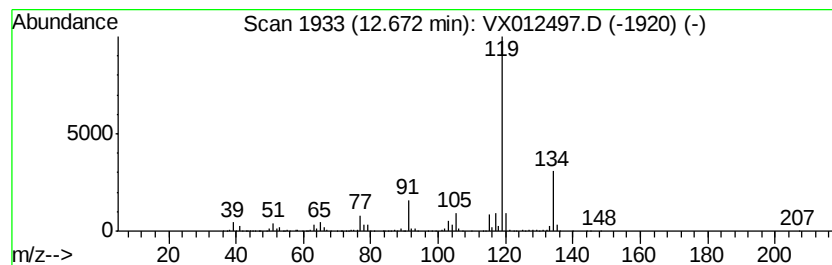
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.67 | 42.54 ug/l | 559290 | 1,4-Dichlorobenzene-d4 | 12.07 |

| 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-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 95   |
| 3    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 95   |
| 4    |    | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 95   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

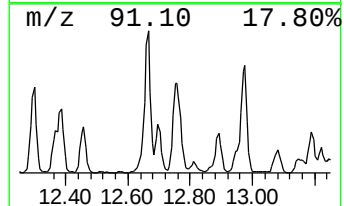
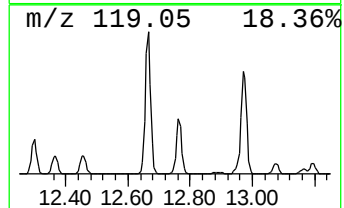
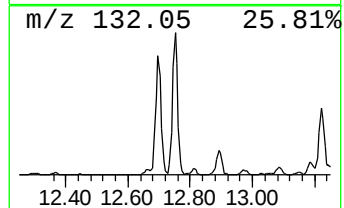
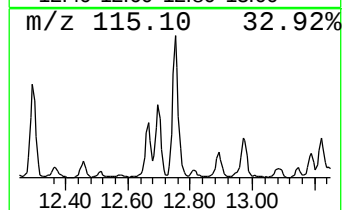
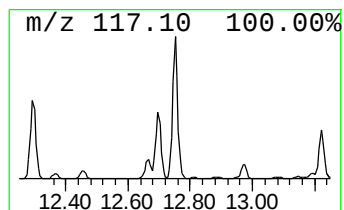
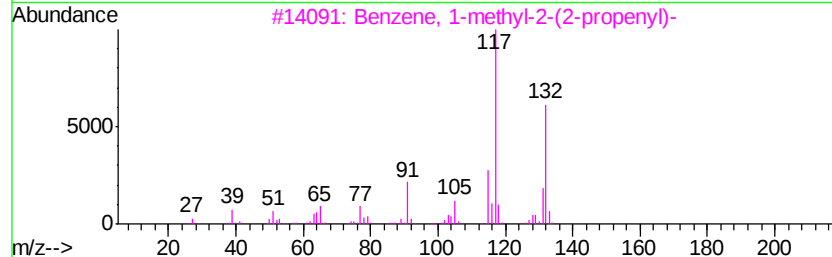
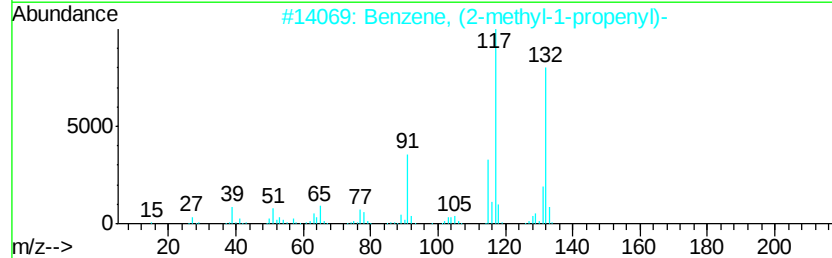
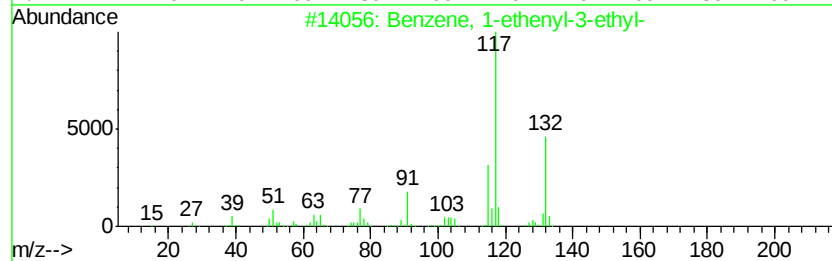
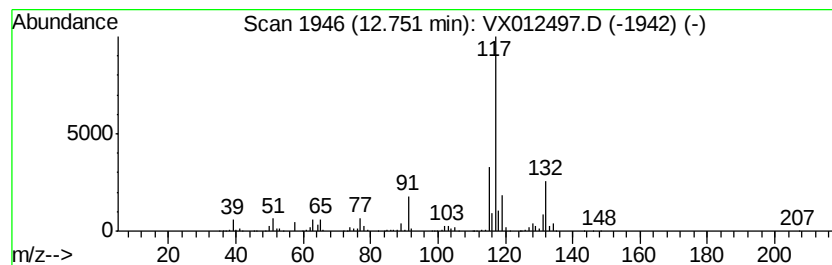
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.75 | 42.87 ug/l | 563616 | 1,4-Dichlorobenzene-d4 | 12.07 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, 1-ethenyl-3-ethyl-       | 132 | C10H12  | 007525-62-4  | 87   |
| 2    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0  | 83   |
| 3    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8  | 81   |
| 4    |    | Indan, 1-methyl-                  | 132 | C10H12  | 000767-58-8  | 81   |
| 5    |    | Benzene, (2-methylcyclopropyl)-   | 132 | C10H12  | 1000327-39-0 | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260

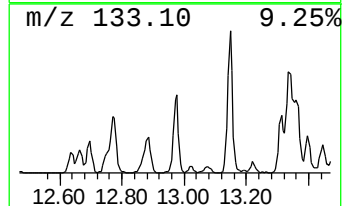
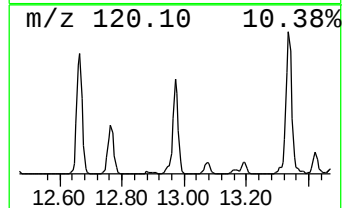
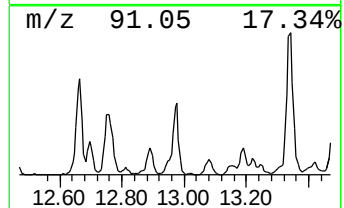
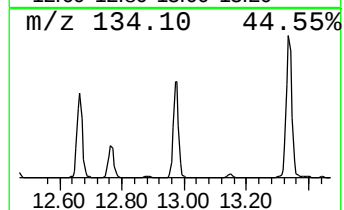
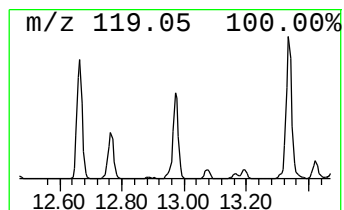
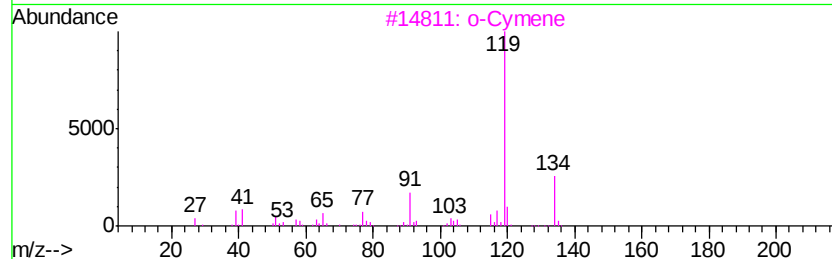
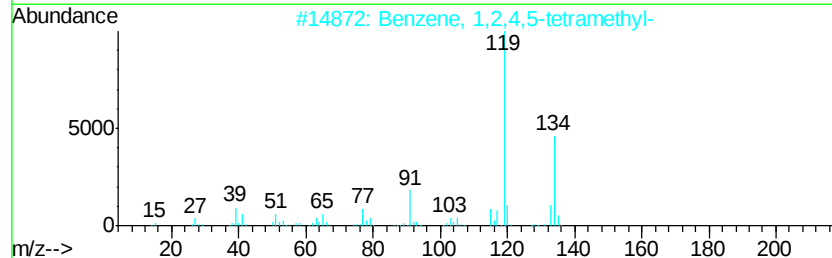
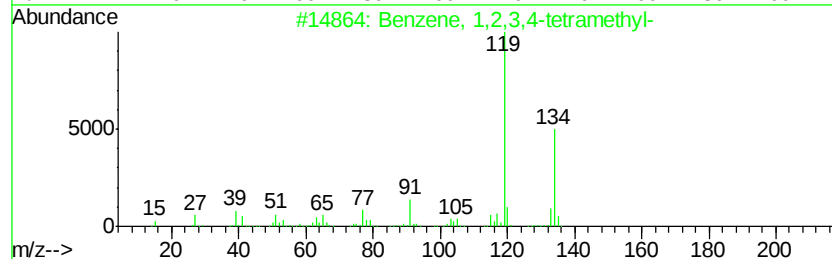
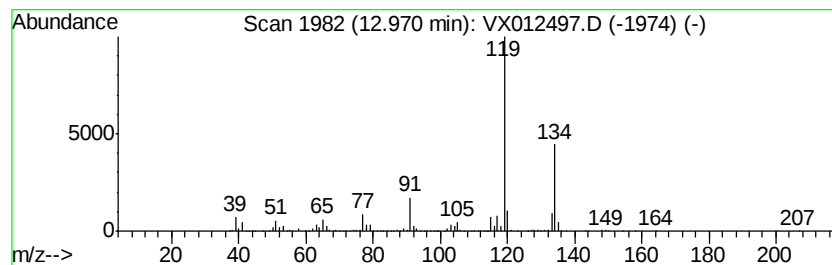
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.97 | 36.48 ug/l | 479542 | 1,4-Dichlorobenzene-d4 | 12.07 |

| Hit# of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------------------|-----|---------|-------------|------|
| 1       | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 97   |
| 2       | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 96   |
| 3       | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 4       | Benzene, 1,2,3,5-tetramethyl-       | 134 | C10H14  | 000527-53-7 | 94   |
| 5       | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260

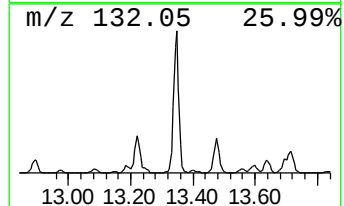
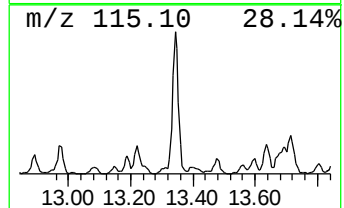
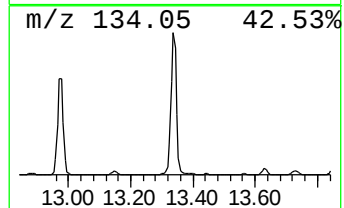
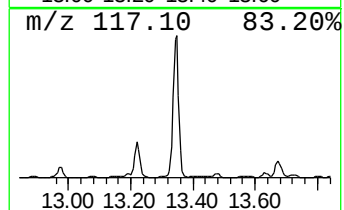
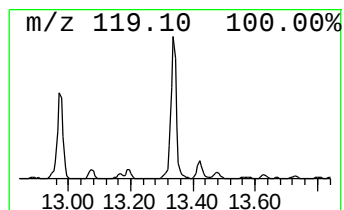
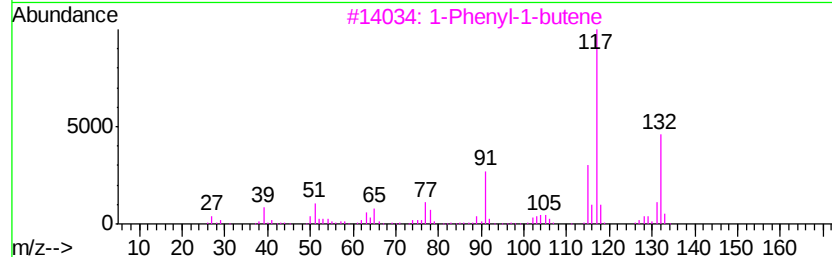
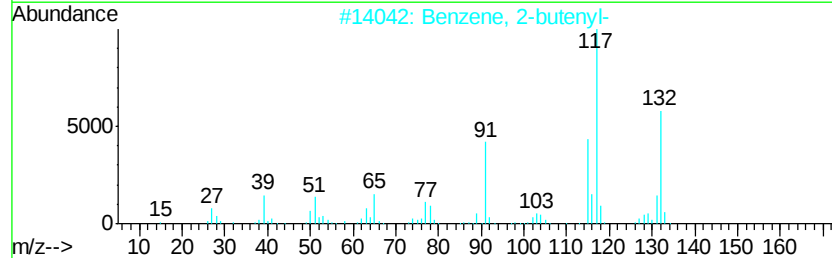
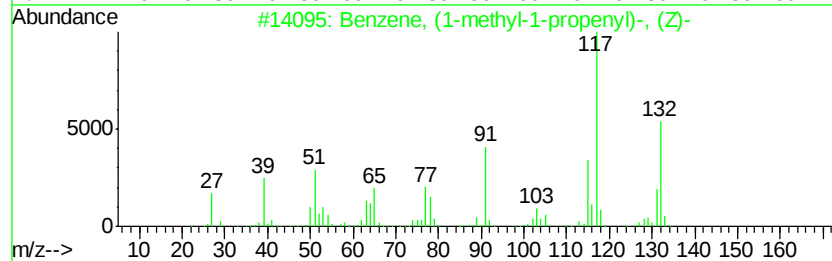
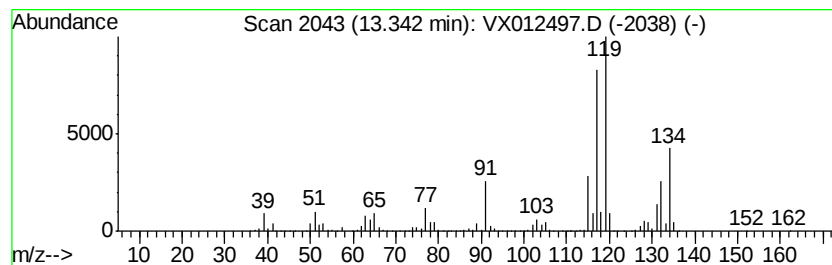
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, (1-methyl-1-propen... Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.34 | 85.86 ug/l | 1128830 | 1,4-Dichlorobenzene-d4 | 12.07 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000767-99-7 | 90   |
| 2    |    |   | Benzene, 2-butenyl-                 | 132 | C10H12  | 001560-06-1 | 89   |
| 3    |    |   | 1-Phenyl-1-butene                   | 132 | C10H12  | 000824-90-8 | 86   |
| 4    |    |   | 3-Phenylbut-1-ene                   | 132 | C10H12  | 000934-10-1 | 64   |
| 5    |    |   | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 64   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX091819\  
Data File : VX012497.D  
Acq On : 19 Sep 2019 01:08  
Operator : JC/SP  
Sample : K4830-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0273

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.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 |
| Butane, 2,3-dimet... | 2.84  | 46.5    | ug/l  | 547769   | 1                     | 5.65  | 588905 | 50.0 |
| Pentane, 3-methyl-   | 3.16  | 103.1   | ug/l  | 1214240  | 1                     | 5.65  | 588905 | 50.0 |
| Cyclopentane, met... | 4.39  | 109.3   | ug/l  | 1287710  | 1                     | 5.65  | 588905 | 50.0 |
| Pentane, 2,3-dime... | 5.72  | 46.2    | ug/l  | 544254   | 1                     | 5.65  | 588905 | 50.0 |
| 1-Hexene, 5-methyl-  | 6.34  | 32.5    | ug/l  | 463035   | 2                     | 6.85  | 712861 | 50.0 |
| Benzene, 4-ethyl-... | 12.67 | 42.5    | ug/l  | 559290   | 4                     | 12.07 | 657345 | 50.0 |
| Benzene, 1-etheny... | 12.75 | 42.9    | ug/l  | 563616   | 4                     | 12.07 | 657345 | 50.0 |
| Benzene, 1,2,3,4-... | 12.97 | 36.5    | ug/l  | 479542   | 4                     | 12.07 | 657345 | 50.0 |
| Benzene, (1-methy... | 13.34 | 85.9    | ug/l  | 1128830  | 4                     | 12.07 | 657345 | 50.0 |