

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121918\  
 Data File : VN053031.D  
 Acq On : 20 Dec 2018 1:03  
 Operator : MD\SY  
 Sample : J6411-04 10X  
 Misc : 5.93g/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 38 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-SBR-2A(15-16FT)1218

## 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\82N121818W.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         | 7.590       | 1789          | 1809        | 1820         | rBV      | 688804         | 1735607       | 1.47%           | 0.202%        |
| 2         | 7.667       | 1820          | 1833        | 1851         | rVB      | 1587986        | 3736266       | 3.17%           | 0.434%        |
| 3         | 8.027       | 1927          | 1945        | 1967         | rBV      | 801215         | 1823646       | 1.55%           | 0.212%        |
| 4         | 8.587       | 2102          | 2119        | 2148         | rVB      | 2215325        | 4610108       | 3.92%           | 0.536%        |
| 5         | 9.870       | 2497          | 2518        | 2540         | rBV2     | 505130         | 1242273       | 1.05%           | 0.144%        |
| 6         | 10.088      | 2572          | 2586        | 2612         | rVB2     | 4621658        | 9258203       | 7.86%           | 1.077%        |
| 7         | 10.432      | 2685          | 2693        | 2710         | rVB      | 966899         | 1774554       | 1.51%           | 0.206%        |
| 8         | 10.532      | 2710          | 2724        | 2733         | rBV2     | 531378         | 1180387       | 1.00%           | 0.137%        |
| 9         | 10.718      | 2771          | 2782        | 2793         | rVB      | 2638705        | 4389158       | 3.73%           | 0.510%        |
| 10        | 10.821      | 2793          | 2814        | 2826         | rBV      | 1513151        | 3424078       | 2.91%           | 0.398%        |
| 11        | 10.886      | 2826          | 2834        | 2841         | rBV4     | 842347         | 1374855       | 1.17%           | 0.160%        |
| 12        | 10.953      | 2846          | 2855        | 2862         | rVV      | 2904670        | 4900089       | 4.16%           | 0.570%        |
| 13        | 11.005      | 2862          | 2871        | 2882         | rVV2     | 5925977        | 10632717      | 9.03%           | 1.236%        |
| 14        | 11.124      | 2896          | 2908        | 2916         | rBV5     | 3366800        | 6392808       | 5.43%           | 0.743%        |
| 15        | 11.197      | 2916          | 2931        | 2951         | rVB6     | 5527727        | 16416826      | 13.94%          | 1.909%        |
| 16        | 11.300      | 2951          | 2963        | 2985         | rBV      | 8121595        | 14731891      | 12.51%          | 1.713%        |
| 17        | 11.406      | 2986          | 2996        | 3005         | rBV      | 3102407        | 5435504       | 4.62%           | 0.632%        |
| 18        | 11.500      | 3015          | 3025        | 3030         | rBV4     | 763634         | 1476337       | 1.25%           | 0.172%        |
| 19        | 11.545      | 3031          | 3039        | 3045         | rVV      | 2193282        | 3584261       | 3.04%           | 0.417%        |
| 20        | 11.593      | 3045          | 3054        | 3062         | rVV5     | 4035610        | 9412939       | 7.99%           | 1.095%        |
| 21        | 11.654      | 3066          | 3073        | 3081         | rVV2     | 9258191        | 17707135      | 15.04%          | 2.059%        |
| 22        | 11.699      | 3082          | 3087        | 3097         | rVB2     | 6570427        | 10050395      | 8.54%           | 1.169%        |
| 23        | 11.760      | 3097          | 3106        | 3113         | rBV3     | 1543265        | 2871262       | 2.44%           | 0.334%        |
| 24        | 11.853      | 3128          | 3135        | 3143         | rVB4     | 2519165        | 3736705       | 3.17%           | 0.434%        |
| 25        | 11.924      | 3143          | 3157        | 3169         | rBV6     | 10946423       | 27133306      | 23.04%          | 3.155%        |
| 26        | 12.046      | 3187          | 3195        | 3203         | rBV      | 13952243       | 19295016      | 16.39%          | 2.244%        |
| 27        | 12.120      | 3210          | 3218        | 3223         | rBV3     | 9837207        | 15822423      | 13.44%          | 1.840%        |
| 28        | 12.165      | 3224          | 3232        | 3249         | rVV4     | 19602287       | 39461042      | 33.51%          | 4.588%        |
| 29        | 12.249      | 3251          | 3258        | 3264         | rVV3     | 5574665        | 8772707       | 7.45%           | 1.020%        |
| 30        | 12.297      | 3267          | 3273        | 3280         | rVV6     | 7188681        | 14023366      | 11.91%          | 1.631%        |
| 31        | 12.339      | 3281          | 3286        | 3296         | rVB      | 14407687       | 21203691      | 18.01%          | 2.466%        |
| 32        | 12.406      | 3297          | 3307        | 3315         | rBV6     | 4718352        | 9034166       | 7.67%           | 1.050%        |
| 33        | 12.487      | 3316          | 3332        | 3339         | rBV9     | 2918279        | 9205982       | 7.82%           | 1.070%        |
| 34        | 12.564      | 3348          | 3356        | 3362         | rBV2     | 12582224       | 21135208      | 17.95%          | 2.458%        |

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ALS Vial : 38 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

## Integration Parameters: RTEINT.P

Integrator: RTE  
Smoothing : ON  
Sampling : 1  
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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\82N121818W.M  
Title : SW846 8260

|    |        |      |      |      |      |          |           |         |         |
|----|--------|------|------|------|------|----------|-----------|---------|---------|
| 35 | 12.651 | 3372 | 3383 | 3388 | rBV5 | 7597454  | 14884168  | 12.64%  | 1.731%  |
| 36 | 12.693 | 3389 | 3396 | 3400 | rBV  | 12972009 | 20046483  | 17.02%  | 2.331%  |
| 37 | 12.783 | 3418 | 3424 | 3434 | rVB2 | 10724964 | 16847574  | 14.31%  | 1.959%  |
| 38 | 12.869 | 3444 | 3451 | 3458 | rBV4 | 4951982  | 6702414   | 5.69%   | 0.779%  |
| 39 | 12.908 | 3458 | 3463 | 3467 | rBV2 | 2396537  | 3178674   | 2.70%   | 0.370%  |
| 40 | 12.963 | 3473 | 3480 | 3494 | rVB4 | 15254760 | 26569506  | 22.56%  | 3.089%  |
| 41 | 13.043 | 3494 | 3505 | 3515 | rBV3 | 68770660 | 117753411 | 100.00% | 13.692% |
| 42 | 13.172 | 3532 | 3545 | 3553 | rBV6 | 9377656  | 19553364  | 16.61%  | 2.274%  |
| 43 | 13.239 | 3553 | 3566 | 3574 | rVV4 | 20104933 | 38687743  | 32.85%  | 4.499%  |
| 44 | 13.287 | 3576 | 3581 | 3589 | rVB2 | 8838870  | 12267506  | 10.42%  | 1.426%  |
| 45 | 13.374 | 3601 | 3608 | 3624 | rVB  | 17217603 | 28664505  | 24.34%  | 3.333%  |
| 46 | 13.516 | 3646 | 3652 | 3654 | rBV  | 4174324  | 4861814   | 4.13%   | 0.565%  |
| 47 | 13.541 | 3656 | 3660 | 3667 | rVV2 | 9777627  | 12202410  | 10.36%  | 1.419%  |
| 48 | 13.586 | 3667 | 3674 | 3690 | rVB4 | 18046940 | 38987535  | 33.11%  | 4.533%  |
| 49 | 13.664 | 3690 | 3698 | 3708 | rVB5 | 11912413 | 20857171  | 17.71%  | 2.425%  |
| 50 | 13.802 | 3734 | 3741 | 3746 | rBV  | 8417189  | 12134882  | 10.31%  | 1.411%  |
| 51 | 13.834 | 3747 | 3751 | 3760 | rVB  | 10955334 | 14331240  | 12.17%  | 1.666%  |
| 52 | 13.889 | 3761 | 3768 | 3778 | rVB  | 14426057 | 22371156  | 19.00%  | 2.601%  |
| 53 | 13.947 | 3780 | 3786 | 3791 | rBV  | 1342989  | 1665932   | 1.41%   | 0.194%  |
| 54 | 13.995 | 3791 | 3801 | 3811 | rVB3 | 14533235 | 24333008  | 20.66%  | 2.829%  |
| 55 | 14.049 | 3811 | 3818 | 3821 | rBV  | 2285200  | 3096660   | 2.63%   | 0.360%  |
| 56 | 14.130 | 3834 | 3843 | 3850 | rBV2 | 4668481  | 7090083   | 6.02%   | 0.824%  |
| 57 | 14.178 | 3850 | 3858 | 3863 | rBV4 | 3749467  | 6397977   | 5.43%   | 0.744%  |
| 58 | 14.249 | 3874 | 3880 | 3888 | rVB  | 7995565  | 11072635  | 9.40%   | 1.288%  |
| 59 | 14.297 | 3888 | 3895 | 3900 | rBV3 | 3477955  | 4550408   | 3.86%   | 0.529%  |
| 60 | 14.332 | 3901 | 3906 | 3914 | rVB2 | 3120550  | 3976113   | 3.38%   | 0.462%  |
| 61 | 14.432 | 3933 | 3937 | 3945 | rVB2 | 2787150  | 3693833   | 3.14%   | 0.430%  |
| 62 | 14.480 | 3945 | 3952 | 3960 | rVV4 | 1519115  | 3257310   | 2.77%   | 0.379%  |
| 63 | 14.525 | 3961 | 3966 | 3974 | rVB2 | 2699838  | 3707831   | 3.15%   | 0.431%  |
| 64 | 14.583 | 3974 | 3984 | 3998 | rBV2 | 8385576  | 16707037  | 14.19%  | 1.943%  |
| 65 | 14.651 | 3999 | 4005 | 4014 | rVB2 | 1180326  | 1759134   | 1.49%   | 0.205%  |
| 66 | 14.741 | 4025 | 4033 | 4043 | rVB  | 4535339  | 6868219   | 5.83%   | 0.799%  |
| 67 | 14.853 | 4061 | 4068 | 4073 | rBV3 | 981093   | 1413250   | 1.20%   | 0.164%  |
| 68 | 14.956 | 4092 | 4100 | 4118 | rVB4 | 1138053  | 2534449   | 2.15%   | 0.295%  |

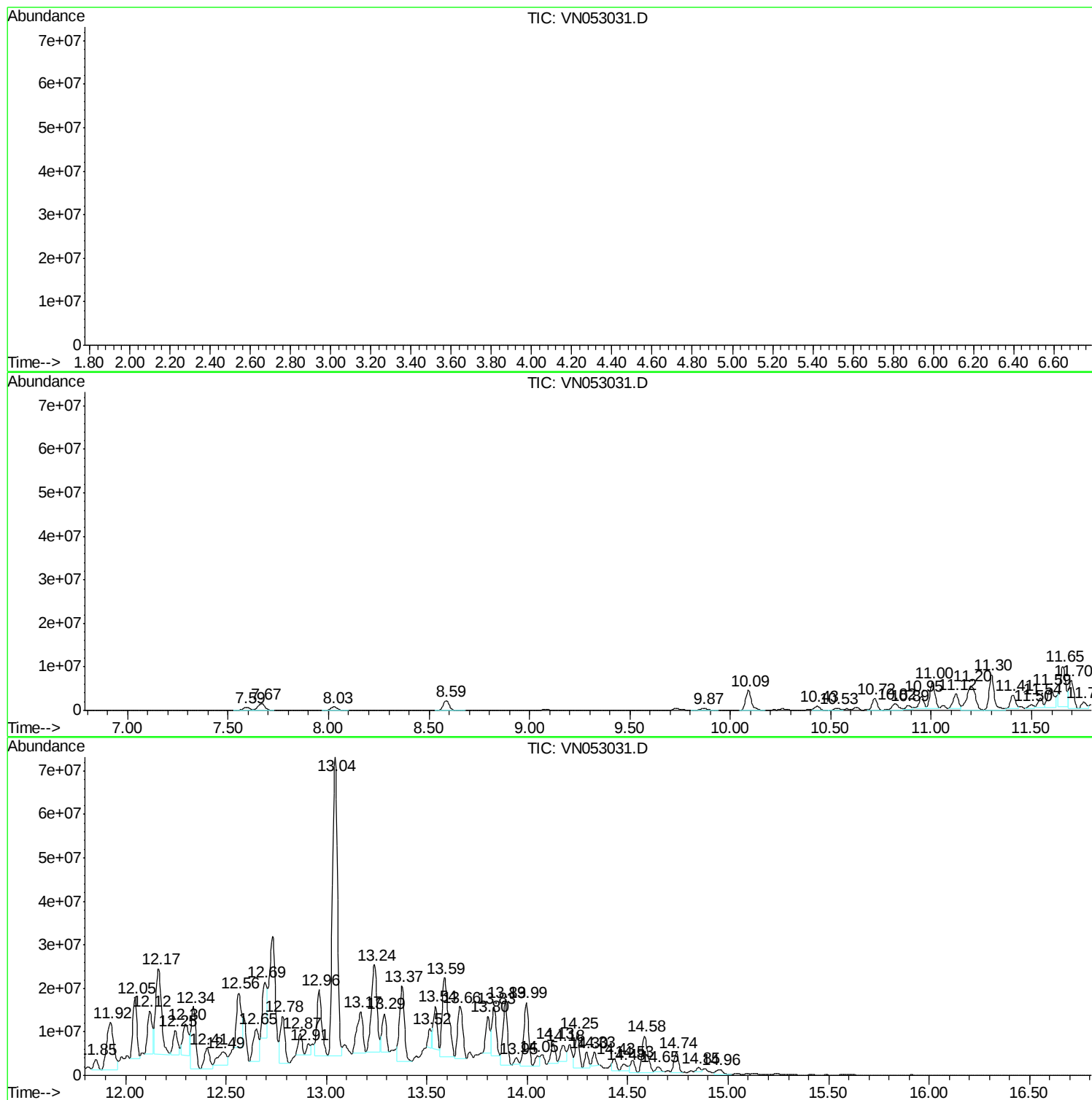
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ALS Vial : 38 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

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



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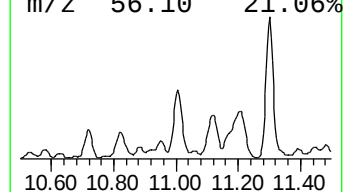
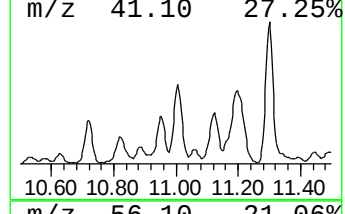
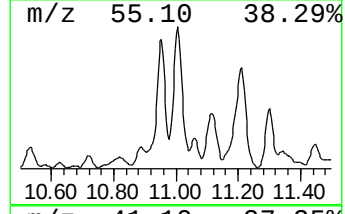
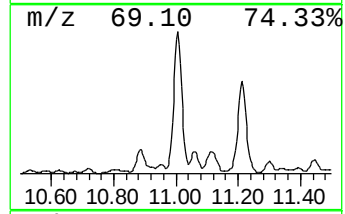
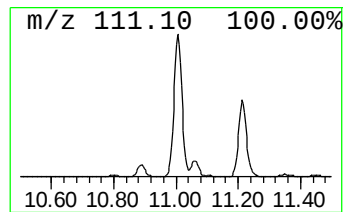
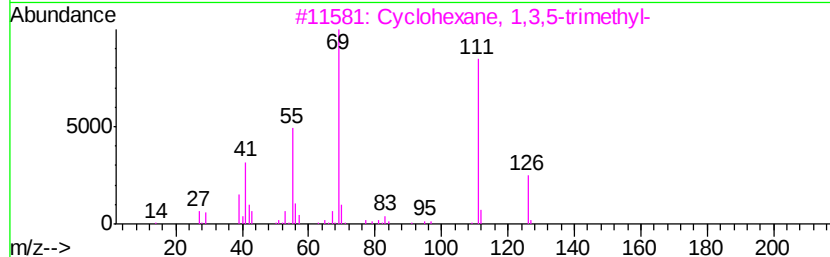
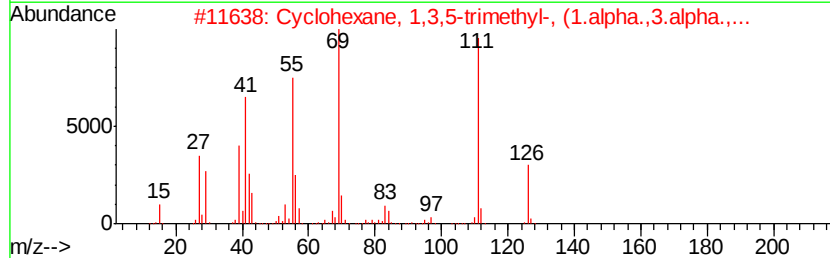
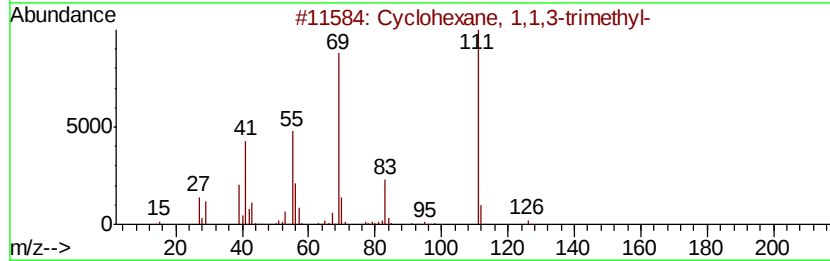
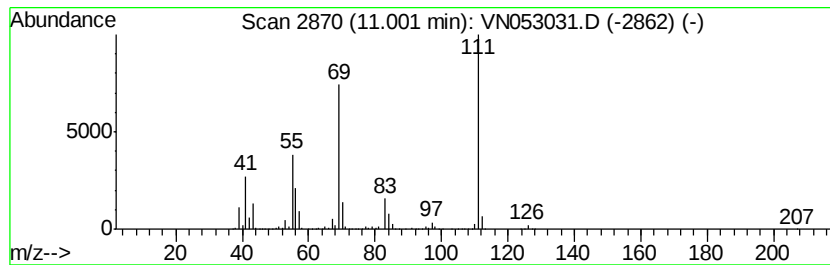
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 8

| R.T.  | EstConc    | Area     | Relative to ISTD | R.T.  |
|-------|------------|----------|------------------|-------|
| 11.00 | 97.81 ug/l | 10632700 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18   | 003073-66-3 | 95   |
| 2    |    | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 72   |
| 3    |    | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 72   |
| 4    |    | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 64   |
| 5    |    | 3-Hexene, 2,5-dimethyl-             | 112 | C8H16   | 015910-22-2 | 46   |



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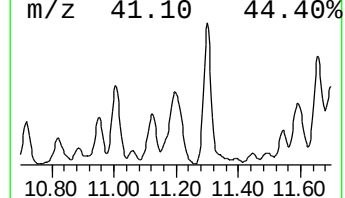
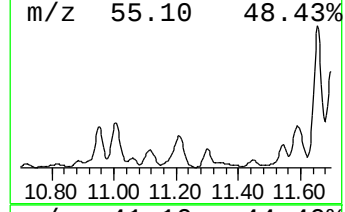
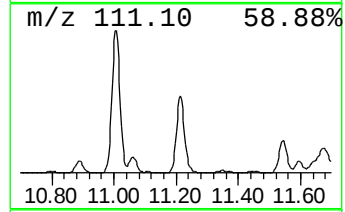
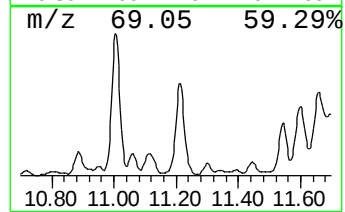
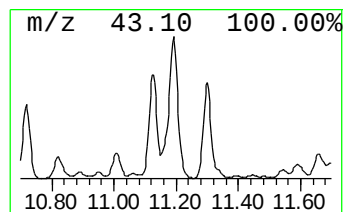
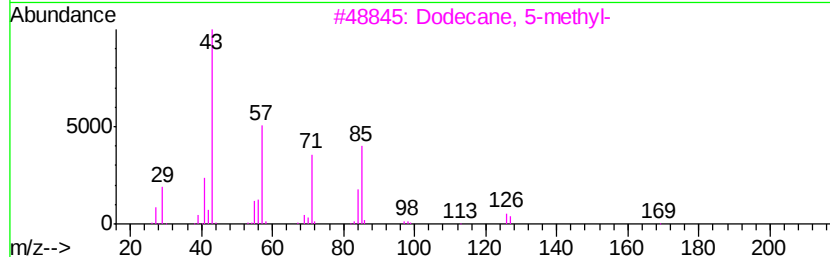
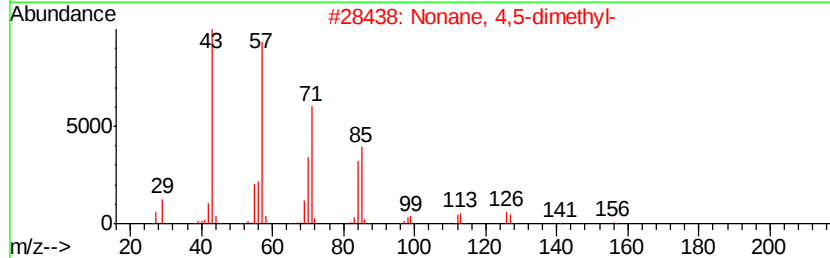
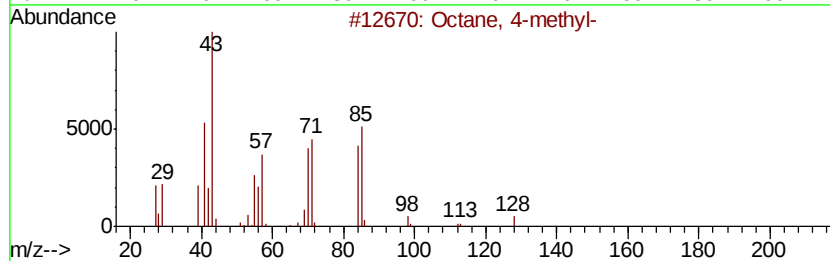
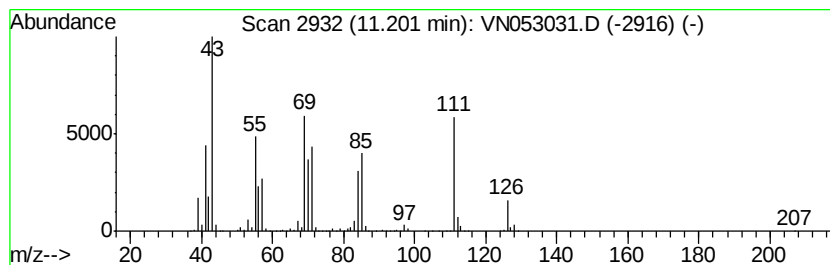
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Octane, 4-methyl- Concentration Rank 5

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 11.20   | 151.02 ug/l           | 16416800     | Chlorobenzene-d5 | 11.41     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Octane, 4-methyl-     | 128 C9H20    | 002216-34-4      | 90        |
| 2       | Nonane, 4,5-dimethyl- | 156 C11H24   | 017302-23-7      | 72        |
| 3       | Dodecane, 5-methyl-   | 184 C13H28   | 017453-93-9      | 53        |
| 4       | Hexane, 3-ethyl-      | 114 C8H18    | 000619-99-8      | 50        |
| 5       | Undecane, 5-methyl-   | 170 C12H26   | 001632-70-8      | 50        |



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Quant Title : SW846 8260

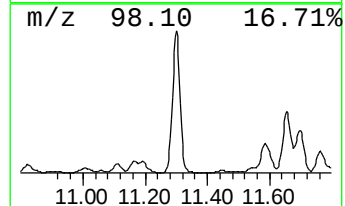
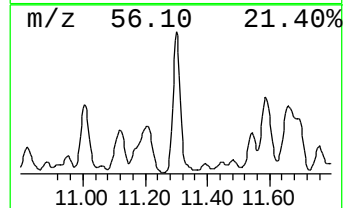
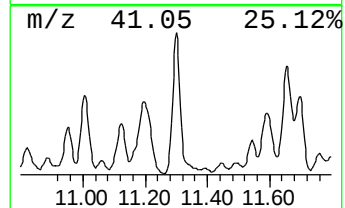
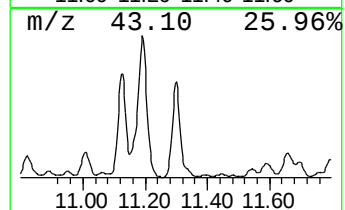
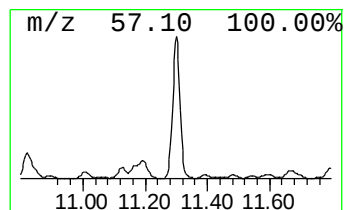
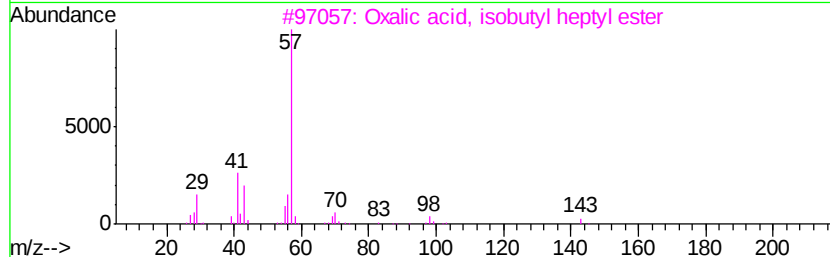
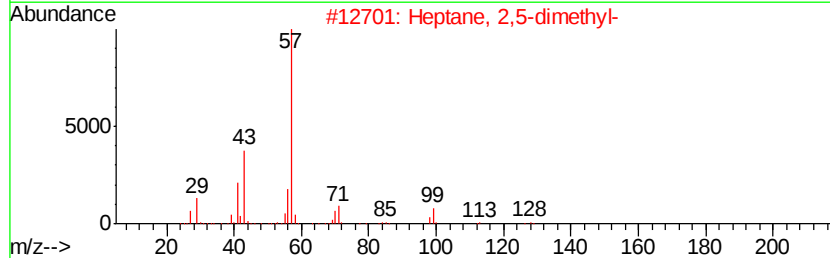
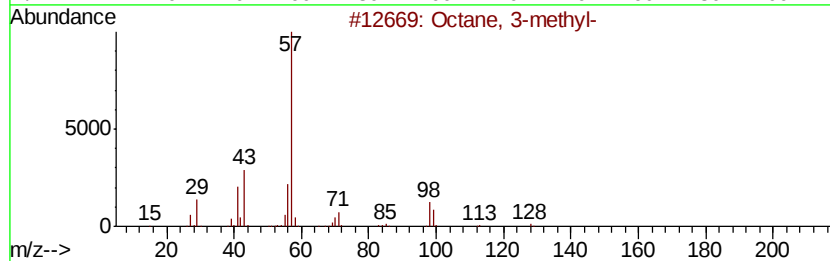
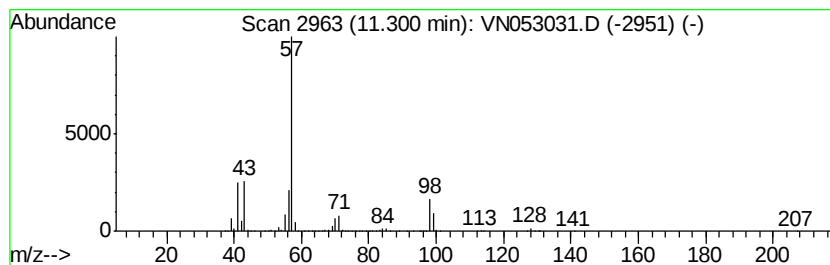
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Octane, 3-methyl- Concentration Rank 7

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 11.30 | 135.52 ug/l | 14731900 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Octane, 3-methyl-                  | 128 | C9H20    | 002216-33-3  | 91   |
| 2    |    | Heptane, 2,5-dimethyl-             | 128 | C9H20    | 002216-30-0  | 80   |
| 3    |    | Oxalic acid, isobutyl heptyl ester | 244 | C13H24O4 | 1000309-37-2 | 53   |
| 4    |    | Undecane, 6-methyl-                | 170 | C12H26   | 017302-33-9  | 50   |
| 5    |    | Butane, 2,2,3,3-tetramethyl-       | 114 | C8H18    | 000594-82-1  | 50   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93g/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

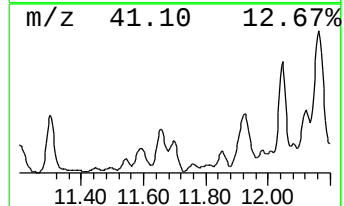
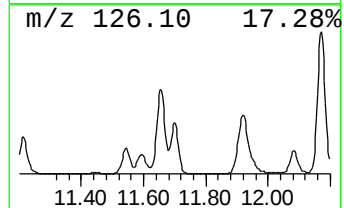
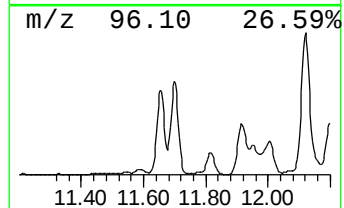
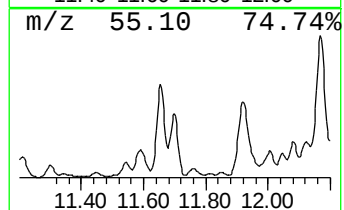
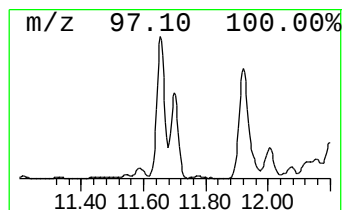
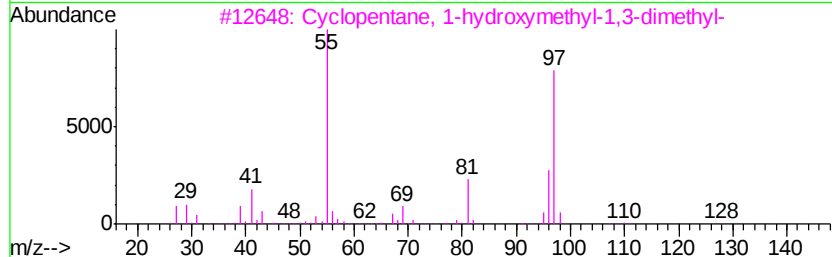
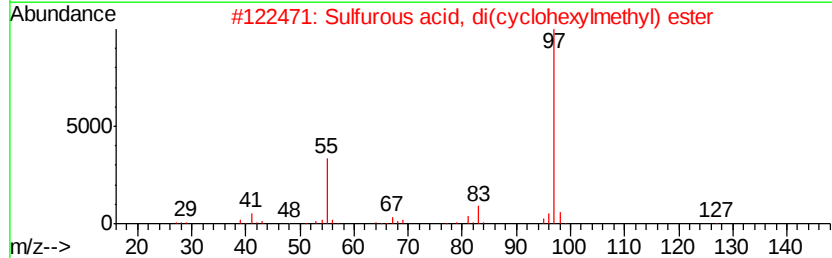
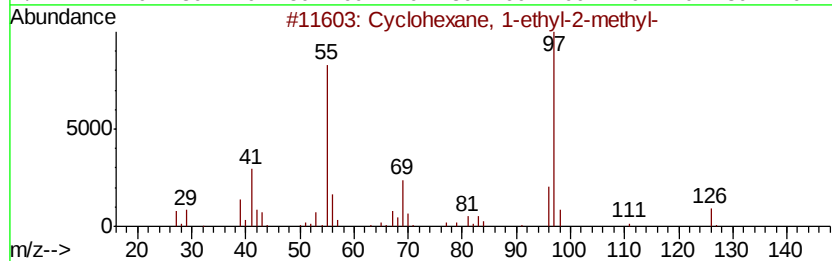
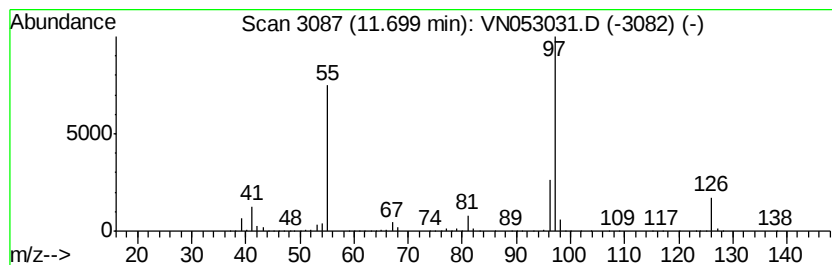
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Cyclohexane, 1-ethyl-2-methyl- Concentration Rank 9

| R.T.  | EstConc    | Area     | Relative to ISTD | R.T.  |
|-------|------------|----------|------------------|-------|
| 11.70 | 92.45 ug/l | 10050400 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18     | 003728-54-9  | 72   |
| 2    |    | Sulfurous acid, di(cyclohexylmet... | 274 | C14H26O3S | 1000309-22-7 | 64   |
| 3    |    | Cyclopentane, 1-hydroxymethyl-1,... | 128 | C8H16O    | 1000156-73-8 | 64   |
| 4    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18     | 019489-10-2  | 56   |
| 5    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18     | 003728-56-1  | 56   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93g/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

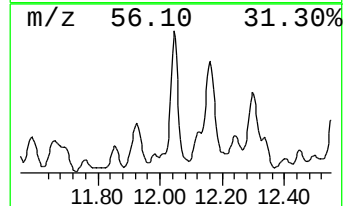
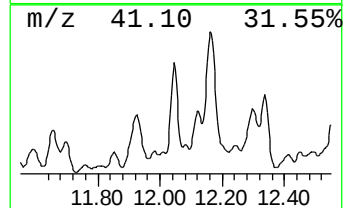
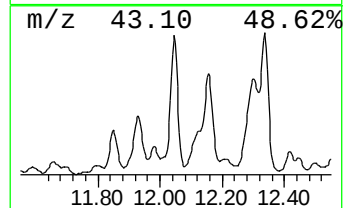
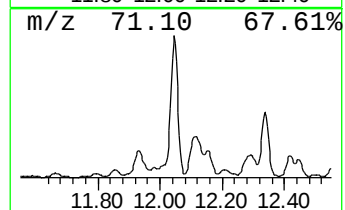
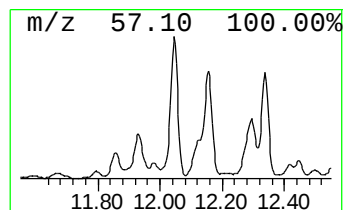
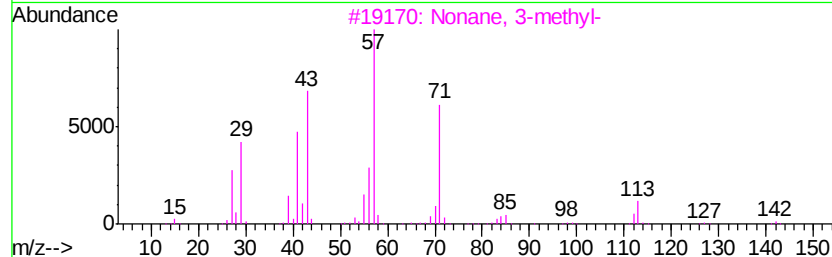
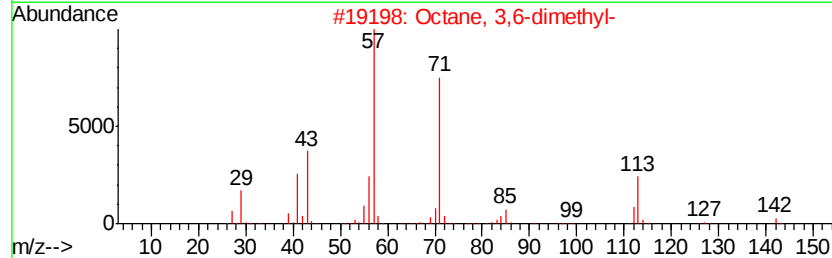
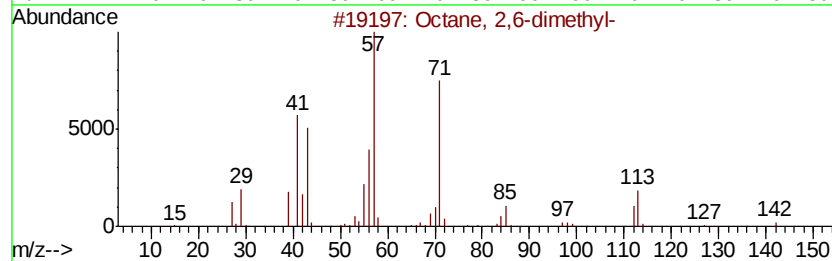
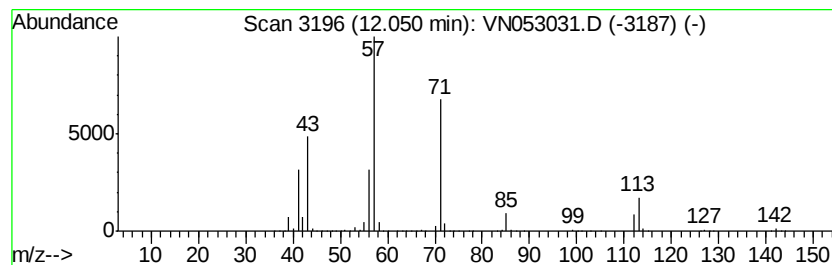
Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

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

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Peak Number 6 Octane, 2,6-dimethyl- Concentration Rank 4

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.            |
|---------|-------------|-------------------------------------|------------------|-----------------|
| 12.05   | 177.49 ug/l | 19295000                            | Chlorobenzene-d5 | 11.41           |
| Hit# of | 5           | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |             | Octane, 2,6-dimethyl-               | 142 C10H22       | 002051-30-1 91  |
| 2       |             | Octane, 3,6-dimethyl-               | 142 C10H22       | 015869-94-0 91  |
| 3       |             | Nonane, 3-methyl-                   | 142 C10H22       | 005911-04-6 91  |
| 4       |             | Undecane, 6,6-dimethyl-             | 184 C13H28       | 017312-76-4 64  |
| 5       |             | Sulfurous acid, 2-ethylhexyl non... | 320 C17H36O3S    | 1000309-19-2 64 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93g/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

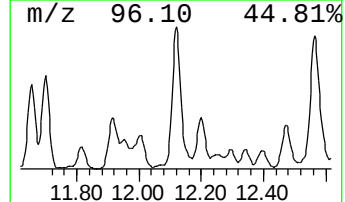
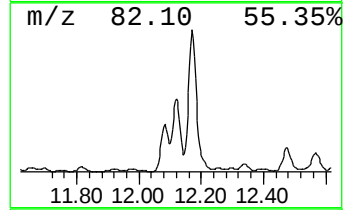
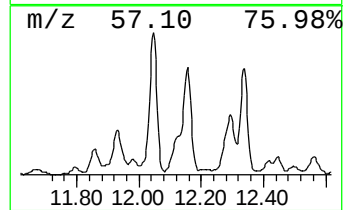
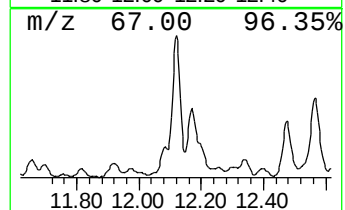
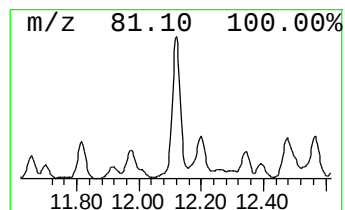
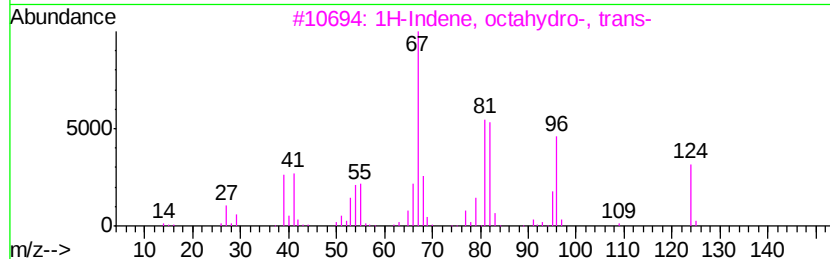
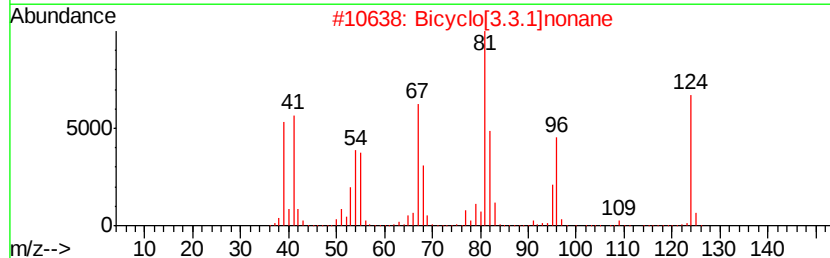
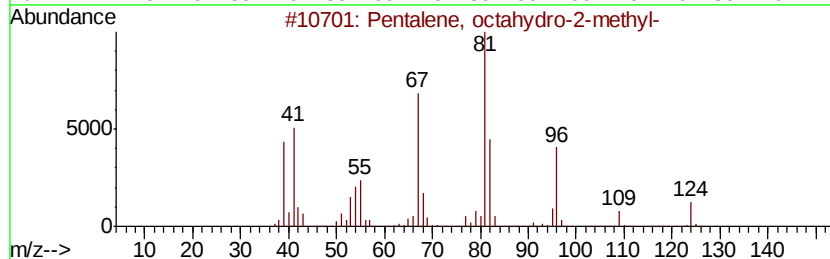
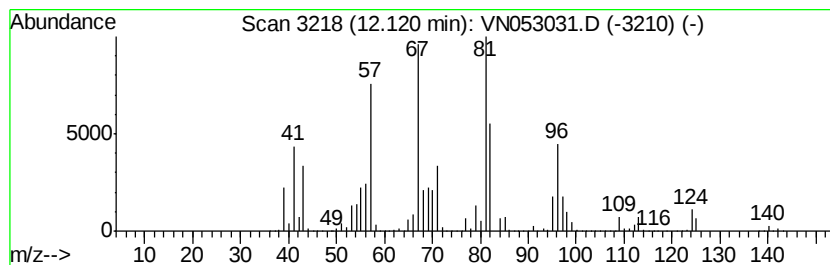
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Pentalene, octahydro-2-methyl- Concentration Rank 6

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 12.12 | 145.55 ug/l | 15822400 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentalene, octahydro-2-methyl- | 124 | C9H16   | 003868-64-2 | 58   |
| 2    |    | Bicyclo[3.3.1]nonane           | 124 | C9H16   | 000280-65-9 | 58   |
| 3    |    | 1H-Indene, octahydro-, trans-  | 124 | C9H16   | 003296-50-2 | 53   |
| 4    |    | Cyclohexane, methylene-        | 96  | C7H12   | 001192-37-6 | 52   |
| 5    |    | 3-Hexyne, 2-methyl-            | 96  | C7H12   | 036566-80-0 | 43   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93q/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

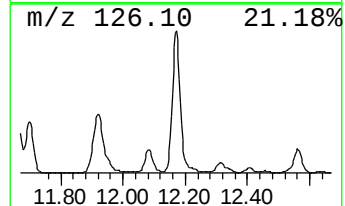
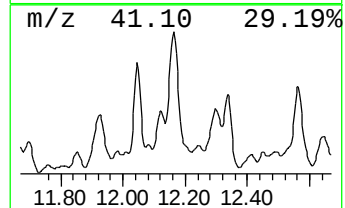
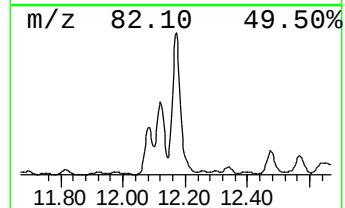
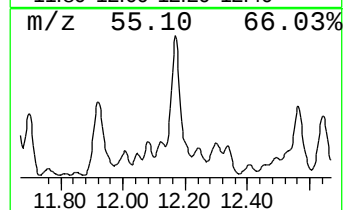
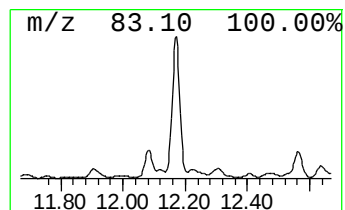
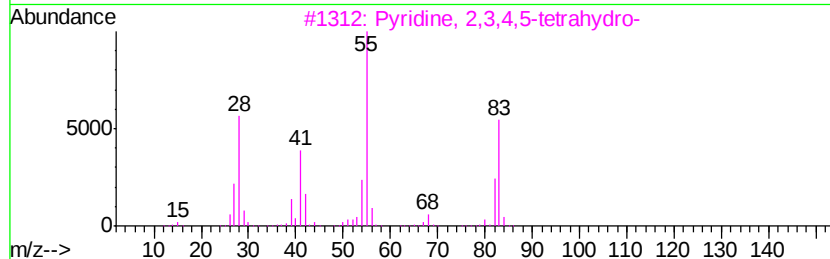
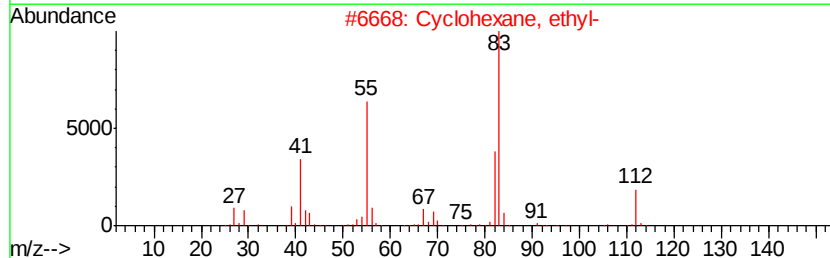
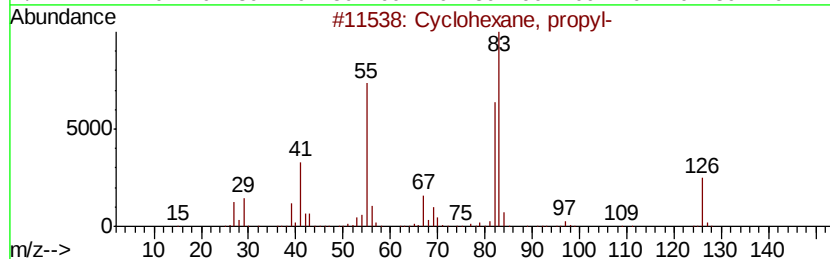
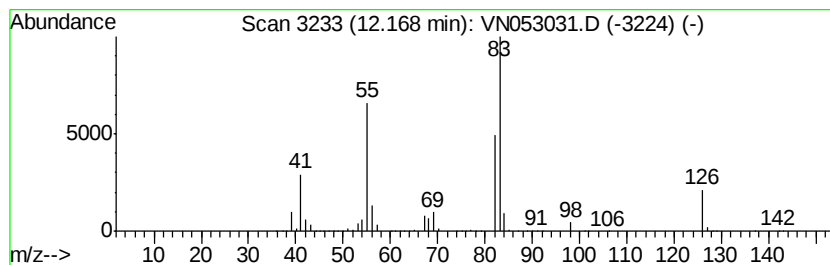
Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Cyclohexane, propyl- Concentration Rank 1

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|-------------|-------------------------------------|------------------|----------|--------------|------|
| 12.17   | 362.99 ug/l | 39461000                            | Chlorobenzene-d5 | 11.41    |              |      |
| Hit# of | 5           | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |             | Cyclohexane, propyl-                | 126              | C9H18    | 001678-92-8  | 90   |
| 2       |             | Cyclohexane, ethyl-                 | 112              | C8H16    | 001678-91-7  | 64   |
| 3       |             | Pvridine, 2,3,4,5-tetrahydro-       | 83               | C5H9N    | 000505-18-0  | 59   |
| 4       |             | Cyclopentane, 1-ethyl-1-methyl-     | 112              | C8H16    | 016747-50-5  | 53   |
| 5       |             | Oxalic acid, cyclohexyl dodecyl ... | 340              | C20H36O4 | 1000309-31-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93uL/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

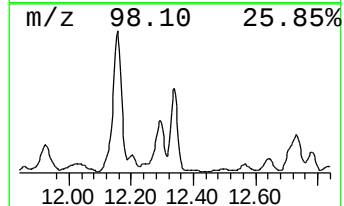
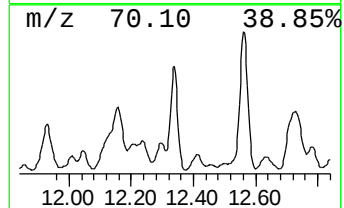
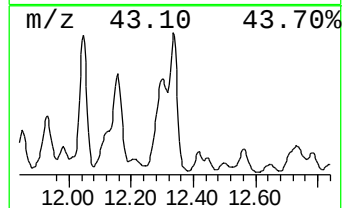
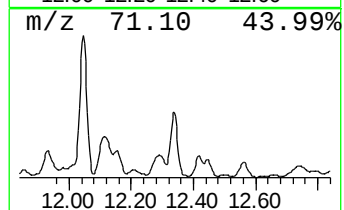
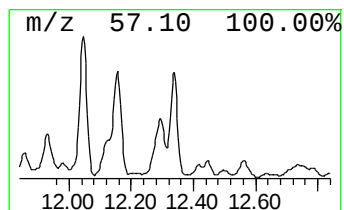
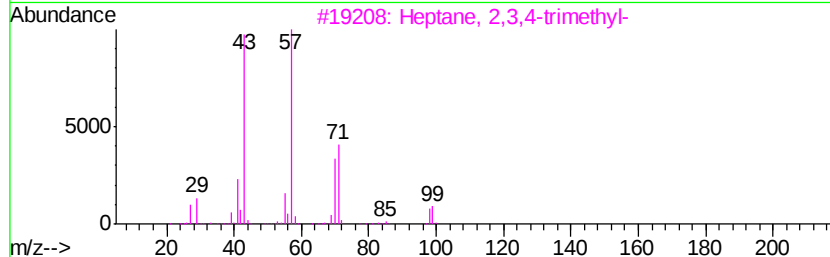
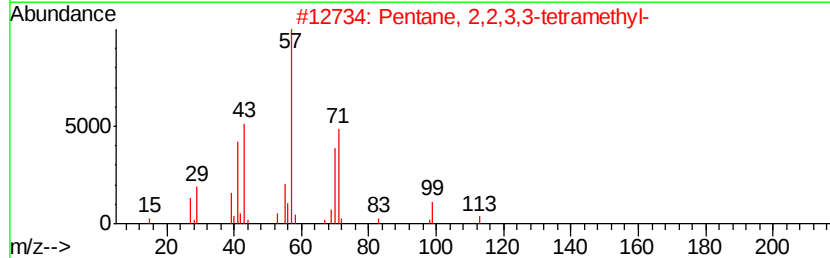
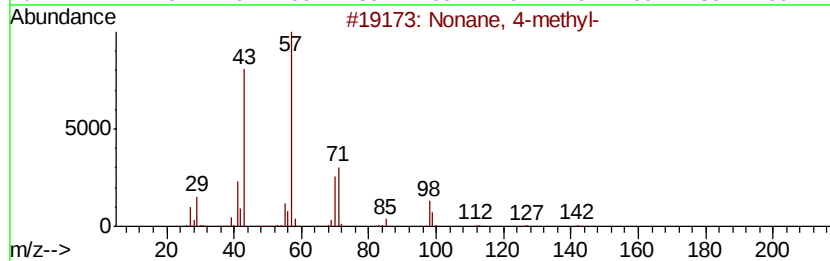
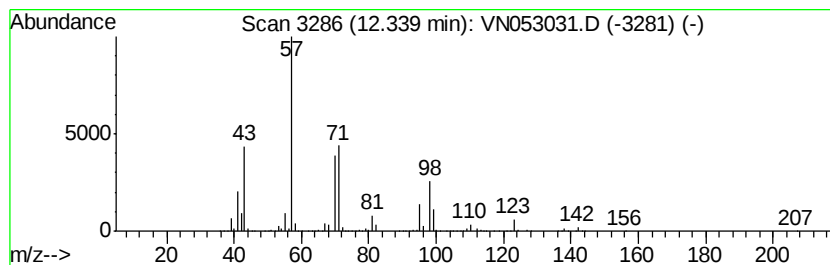
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Nonane, 4-methyl- Concentration Rank 3

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 12.34 | 195.05 ug/l | 21203700 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 80   |
| 2    |    | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 53   |
| 3    |    | Heptane, 2,3,4-trimethyl-     | 142 | C10H22  | 052896-95-4 | 45   |
| 4    |    | 3-Hexanone, 2,2-dimethyl-     | 128 | C8H16O  | 005405-79-8 | 35   |
| 5    |    | Octane, 3,5-dimethyl-         | 142 | C10H22  | 015869-93-9 | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93g/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

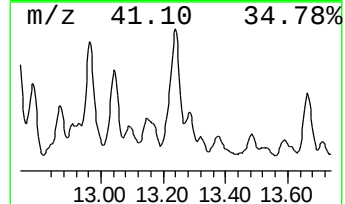
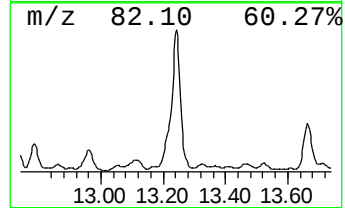
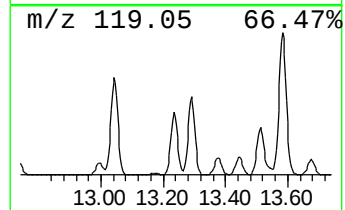
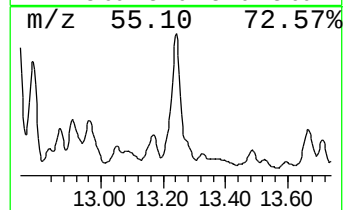
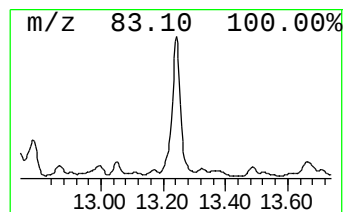
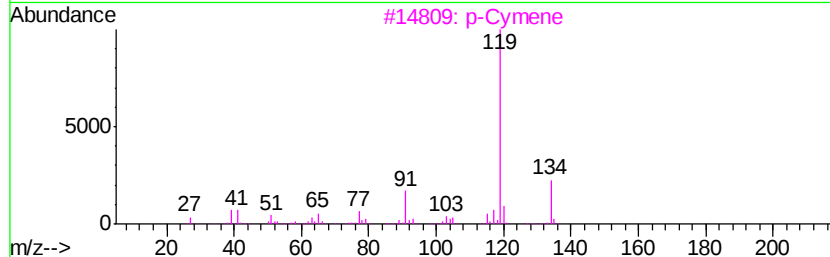
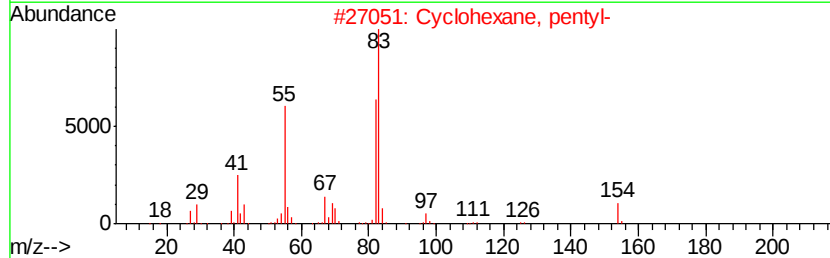
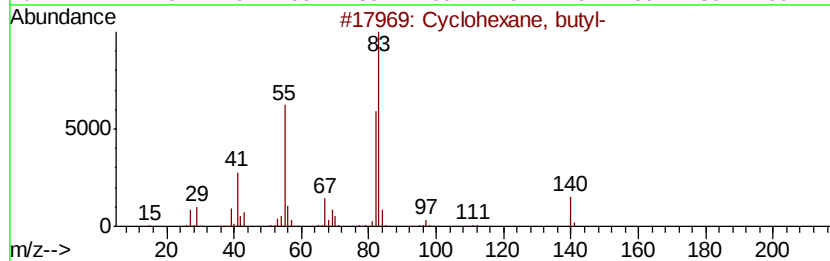
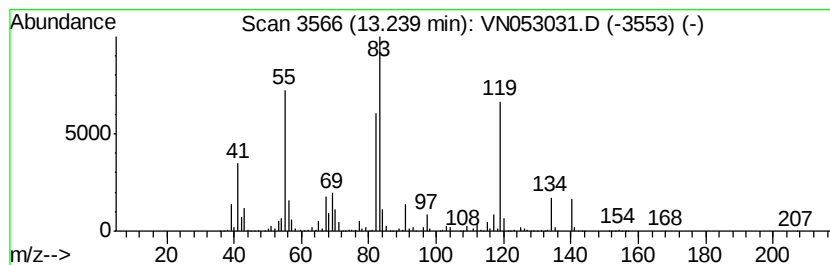
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EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260

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

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Peak Number 10 Cyclohexane, butyl- Concentration Rank 10

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.24   | 67.48 ug/l | 38687700                            | 1,4-Dichlorobenzene-d4 | 13.35          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Cyclohexane, butyl-                 | 140 C10H20             | 001678-93-9 70 |
| 2       |            | Cyclohexane, pentyl-                | 154 C11H22             | 004292-92-6 64 |
| 3       |            | p-Cymene                            | 134 C10H14             | 000099-87-6 59 |
| 4       |            | o-Cymene                            | 134 C10H14             | 000527-84-4 59 |
| 5       |            | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14             | 000535-77-3 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121918\  
Data File : VN053031.D  
Acq On : 20 Dec 2018 1:03  
Operator : MD\SY  
Sample : J6411-04 10X  
Misc : 5.93g/5.0mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 38 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-SBR-2A(15-16FT)1218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.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 |
| Cyclohexane, 1,1,... | 11.00 | 97.8    | ug/l  | 10632700 | 3                     | 11.41 | 5435500  | 50.0 |
| Octane, 4-methyl-    | 11.20 | 151.0   | ug/l  | 16416800 | 3                     | 11.41 | 5435500  | 50.0 |
| Octane, 3-methyl-    | 11.30 | 135.5   | ug/l  | 14731900 | 3                     | 11.41 | 5435500  | 50.0 |
| Cyclohexane, 1-et... | 11.70 | 92.5    | ug/l  | 10050400 | 3                     | 11.41 | 5435500  | 50.0 |
| Octane, 2,6-dimet... | 12.05 | 177.5   | ug/l  | 19295000 | 3                     | 11.41 | 5435500  | 50.0 |
| Pentalene, octahy... | 12.12 | 145.6   | ug/l  | 15822400 | 3                     | 11.41 | 5435500  | 50.0 |
| Cyclohexane, propyl- | 12.17 | 363.0   | ug/l  | 39461000 | 3                     | 11.41 | 5435500  | 50.0 |
| Nonane, 4-methyl-    | 12.34 | 195.1   | ug/l  | 21203700 | 3                     | 11.41 | 5435500  | 50.0 |
| Cyclohexane, butyl-  | 13.24 | 67.5    | ug/l  | 38687700 | 4                     | 13.35 | 28664500 | 50.0 |