

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
 Data File : BM017450.D  
 Acq On : 01 Nov 2018 03:33  
 Operator : MJ/SJ  
 Sample : J5635-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A40J6

Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
 Title : SVOA CALIBRATION

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         | 3.222       | 36            | 40          | 46           | rBV      | 42549          | 59987         | 0.74%           | 0.061%        |
| 2         | 3.828       | 138           | 143         | 152          | rVB      | 29664          | 49811         | 0.61%           | 0.051%        |
| 3         | 4.822       | 304           | 312         | 320          | rBV3     | 14309          | 39089         | 0.48%           | 0.040%        |
| 4         | 5.387       | 403           | 408         | 416          | rVB5     | 26343          | 41772         | 0.51%           | 0.043%        |
| 5         | 6.334       | 562           | 569         | 575          | rBV      | 96244          | 157072        | 1.93%           | 0.160%        |
| 6         | 6.822       | 644           | 652         | 669          | rBV2     | 853635         | 1817203       | 22.30%          | 1.851%        |
| 7         | 6.951       | 669           | 674         | 676          | rVV      | 37576          | 66547         | 0.82%           | 0.068%        |
| 8         | 6.986       | 676           | 680         | 689          | rVV      | 717152         | 1111880       | 13.65%          | 1.132%        |
| 9         | 7.081       | 690           | 696         | 706          | rVB      | 336680         | 543392        | 6.67%           | 0.553%        |
| 10        | 7.181       | 706           | 713         | 722          | rBV      | 920400         | 1476441       | 18.12%          | 1.503%        |
| 11        | 7.404       | 740           | 751         | 758          | rBV      | 56723          | 109704        | 1.35%           | 0.112%        |
| 12        | 7.486       | 761           | 765         | 770          | rVV      | 23160          | 34848         | 0.43%           | 0.035%        |
| 13        | 7.639       | 782           | 791         | 799          | rBV      | 758182         | 1262280       | 15.49%          | 1.285%        |
| 14        | 7.722       | 799           | 805         | 811          | rVV      | 170386         | 310910        | 3.82%           | 0.317%        |
| 15        | 7.769       | 811           | 813         | 821          | rVB2     | 14598          | 22814         | 0.28%           | 0.023%        |
| 16        | 7.857       | 821           | 828         | 834          | rBV      | 931636         | 1415686       | 17.37%          | 1.442%        |
| 17        | 7.910       | 834           | 837         | 842          | rVB3     | 24560          | 34741         | 0.43%           | 0.035%        |
| 18        | 8.351       | 905           | 912         | 919          | rBV      | 1087147        | 1812505       | 22.24%          | 1.846%        |
| 19        | 8.422       | 921           | 924         | 930          | rVV4     | 36397          | 77361         | 0.95%           | 0.079%        |
| 20        | 8.792       | 980           | 987         | 996          | rBV      | 883140         | 1496410       | 18.37%          | 1.524%        |
| 21        | 9.198       | 1048          | 1056        | 1061         | rBV4     | 26336          | 45021         | 0.55%           | 0.046%        |
| 22        | 9.510       | 1102          | 1109        | 1120         | rBV      | 752845         | 1294971       | 15.89%          | 1.319%        |
| 23        | 10.045      | 1193          | 1200        | 1223         | rBV      | 1067394        | 2048967       | 25.15%          | 2.087%        |
| 24        | 10.416      | 1255          | 1263        | 1268         | rBV      | 1234818        | 2043877       | 25.08%          | 2.081%        |
| 25        | 10.469      | 1268          | 1272        | 1281         | rVV3     | 145045         | 287491        | 3.53%           | 0.293%        |
| 26        | 10.563      | 1281          | 1288        | 1305         | rVV      | 1020924        | 1972936       | 24.21%          | 2.009%        |
| 27        | 12.016      | 1529          | 1535        | 1542         | rVB3     | 22152          | 36531         | 0.45%           | 0.037%        |
| 28        | 12.633      | 1636          | 1640        | 1647         | rBV7     | 14779          | 26560         | 0.33%           | 0.027%        |
| 29        | 13.151      | 1723          | 1728        | 1735         | rVB2     | 86418          | 127807        | 1.57%           | 0.130%        |
| 30        | 13.274      | 1738          | 1749        | 1761         | rBV      | 133522         | 277175        | 3.40%           | 0.282%        |
| 31        | 13.621      | 1799          | 1808        | 1815         | rBV5     | 36979          | 72653         | 0.89%           | 0.074%        |
| 32        | 13.704      | 1815          | 1822        | 1826         | rBV      | 2305952        | 3295853       | 40.45%          | 3.356%        |
| 33        | 13.751      | 1826          | 1830        | 1844         | rVB      | 788489         | 1235556       | 15.16%          | 1.258%        |
| 34        | 13.974      | 1858          | 1868        | 1886         | rBV      | 2649786        | 4081979       | 50.10%          | 4.157%        |

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 Stop Thrs : 0

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 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.245 | 1908 | 1914 | 1916 | rBV  | 237937  | 336716  | 4.13%  | 0.343% |
| 36 | 14.286 | 1916 | 1921 | 1935 | rVB2 | 1835998 | 2899353 | 35.58% | 2.952% |
| 37 | 14.380 | 1935 | 1937 | 1945 | rVB7 | 11760   | 22224   | 0.27%  | 0.023% |
| 38 | 14.510 | 1953 | 1959 | 1979 | rBV  | 471112  | 1280500 | 15.72% | 1.304% |
| 39 | 14.727 | 1991 | 1996 | 2003 | rVB4 | 52155   | 91561   | 1.12%  | 0.093% |
| 40 | 14.898 | 2019 | 2025 | 2028 | rBV7 | 12892   | 19878   | 0.24%  | 0.020% |
| 41 | 15.098 | 2055 | 2059 | 2062 | rBV2 | 13755   | 18756   | 0.23%  | 0.019% |
| 42 | 15.286 | 2084 | 2091 | 2106 | rBV  | 3482540 | 5204401 | 63.87% | 5.300% |
| 43 | 15.415 | 2106 | 2113 | 2127 | rVV  | 836153  | 1325448 | 16.27% | 1.350% |
| 44 | 15.527 | 2127 | 2132 | 2141 | rVV3 | 47231   | 94915   | 1.16%  | 0.097% |
| 45 | 15.627 | 2145 | 2149 | 2153 | rVV6 | 12475   | 21988   | 0.27%  | 0.022% |
| 46 | 15.686 | 2153 | 2159 | 2169 | rVV2 | 80507   | 161763  | 1.99%  | 0.165% |
| 47 | 15.768 | 2169 | 2173 | 2182 | rVB9 | 11273   | 25531   | 0.31%  | 0.026% |
| 48 | 16.009 | 2209 | 2214 | 2221 | rBV3 | 24627   | 46036   | 0.56%  | 0.047% |
| 49 | 16.456 | 2285 | 2290 | 2298 | rBV9 | 14306   | 25107   | 0.31%  | 0.026% |
| 50 | 16.809 | 2346 | 2350 | 2356 | rBV3 | 26267   | 45270   | 0.56%  | 0.046% |
| 51 | 16.945 | 2369 | 2373 | 2378 | rBV7 | 9639    | 21860   | 0.27%  | 0.022% |
| 52 | 17.039 | 2382 | 2389 | 2399 | rVV  | 2537911 | 3719100 | 45.64% | 3.787% |
| 53 | 17.139 | 2399 | 2406 | 2417 | rVV  | 3911810 | 5836948 | 71.64% | 5.944% |
| 54 | 17.245 | 2420 | 2424 | 2428 | rVB6 | 39746   | 57043   | 0.70%  | 0.058% |
| 55 | 17.427 | 2450 | 2455 | 2461 | rBV6 | 37024   | 64166   | 0.79%  | 0.065% |
| 56 | 17.639 | 2485 | 2491 | 2501 | rBV  | 1756668 | 2447027 | 30.03% | 2.492% |
| 57 | 17.821 | 2516 | 2522 | 2527 | rBV7 | 36983   | 69706   | 0.86%  | 0.071% |
| 58 | 17.892 | 2529 | 2534 | 2538 | rBV5 | 54760   | 104854  | 1.29%  | 0.107% |
| 59 | 17.945 | 2538 | 2543 | 2554 | rBV  | 1025083 | 1448621 | 17.78% | 1.475% |
| 60 | 18.103 | 2566 | 2570 | 2575 | rBV2 | 24522   | 37080   | 0.46%  | 0.038% |
| 61 | 18.239 | 2590 | 2593 | 2596 | rBV4 | 15878   | 20785   | 0.26%  | 0.021% |
| 62 | 18.368 | 2610 | 2615 | 2620 | rBV3 | 79797   | 111708  | 1.37%  | 0.114% |
| 63 | 18.521 | 2637 | 2641 | 2648 | rVB8 | 28439   | 42584   | 0.52%  | 0.043% |
| 64 | 18.809 | 2685 | 2690 | 2692 | rBV6 | 22173   | 36500   | 0.45%  | 0.037% |
| 65 | 18.856 | 2692 | 2698 | 2701 | rBV  | 331468  | 542329  | 6.66%  | 0.552% |
| 66 | 18.939 | 2707 | 2712 | 2718 | rBV  | 490909  | 587798  | 7.21%  | 0.599% |
| 67 | 19.003 | 2718 | 2723 | 2729 | rBV  | 437883  | 582755  | 7.15%  | 0.593% |
| 68 | 19.074 | 2730 | 2735 | 2738 | rBV  | 73303   | 123429  | 1.51%  | 0.126% |
| 69 | 19.103 | 2738 | 2740 | 2751 | rVB3 | 68350   | 117728  | 1.44%  | 0.120% |
| 70 | 19.192 | 2751 | 2755 | 2757 | rBV4 | 24134   | 26090   | 0.32%  | 0.027% |
| 71 | 19.233 | 2757 | 2762 | 2774 | rBV  | 425994  | 616941  | 7.57%  | 0.628% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 19.345 | 2774 | 2781 | 2787 | rVB2 | 129175  | 204884  | 2.51%   | 0.209% |
| 73  | 19.439 | 2791 | 2797 | 2806 | rBV  | 5172648 | 7133969 | 87.55%  | 7.265% |
| 74  | 19.627 | 2825 | 2829 | 2837 | rBV4 | 100390  | 141913  | 1.74%   | 0.145% |
| 75  | 19.762 | 2848 | 2852 | 2858 | rBV4 | 83973   | 113423  | 1.39%   | 0.116% |
| 76  | 19.968 | 2883 | 2887 | 2889 | rBV4 | 32590   | 45267   | 0.56%   | 0.046% |
| 77  | 20.056 | 2898 | 2902 | 2907 | rVB7 | 52079   | 75476   | 0.93%   | 0.077% |
| 78  | 20.144 | 2914 | 2917 | 2921 | rBV4 | 103396  | 147325  | 1.81%   | 0.150% |
| 79  | 20.250 | 2931 | 2935 | 2943 | rVB3 | 232133  | 326186  | 4.00%   | 0.332% |
| 80  | 20.433 | 2961 | 2966 | 2970 | rBV4 | 131508  | 225068  | 2.76%   | 0.229% |
| 81  | 20.527 | 2978 | 2982 | 2992 | rVB3 | 171763  | 384085  | 4.71%   | 0.391% |
| 82  | 20.633 | 2995 | 3000 | 3009 | rBV  | 688149  | 1140194 | 13.99%  | 1.161% |
| 83  | 20.739 | 3013 | 3018 | 3027 | rVV  | 1460924 | 2174138 | 26.68%  | 2.214% |
| 84  | 20.815 | 3027 | 3031 | 3037 | rVB2 | 509912  | 647995  | 7.95%   | 0.660% |
| 85  | 20.956 | 3051 | 3055 | 3064 | rBV  | 984483  | 1481327 | 18.18%  | 1.508% |
| 86  | 21.233 | 3097 | 3102 | 3108 | rBV  | 3688480 | 4695819 | 57.63%  | 4.782% |
| 87  | 21.397 | 3126 | 3130 | 3132 | rBV  | 182584  | 211495  | 2.60%   | 0.215% |
| 88  | 21.427 | 3132 | 3135 | 3140 | rVB2 | 265032  | 300878  | 3.69%   | 0.306% |
| 89  | 21.591 | 3159 | 3163 | 3169 | rBV  | 1517771 | 1815934 | 22.29%  | 1.849% |
| 90  | 21.827 | 3199 | 3203 | 3213 | rBV2 | 343641  | 551151  | 6.76%   | 0.561% |
| 91  | 21.944 | 3219 | 3223 | 3233 | rBV6 | 233191  | 437949  | 5.37%   | 0.446% |
| 92  | 22.280 | 3276 | 3280 | 3286 | rBV  | 644407  | 833151  | 10.23%  | 0.848% |
| 93  | 22.403 | 3298 | 3301 | 3306 | rVB  | 236298  | 276794  | 3.40%   | 0.282% |
| 94  | 22.780 | 3360 | 3365 | 3370 | rBV  | 749703  | 1082838 | 13.29%  | 1.103% |
| 95  | 23.303 | 3447 | 3454 | 3469 | rVB  | 3621904 | 8148082 | 100.00% | 8.297% |
| 96  | 23.438 | 3471 | 3477 | 3488 | rVB2 | 2343995 | 4334823 | 53.20%  | 4.414% |
| 97  | 23.962 | 3560 | 3566 | 3574 | rVB  | 749613  | 1363385 | 16.73%  | 1.388% |
| 98  | 24.050 | 3577 | 3581 | 3589 | rVB  | 233662  | 468264  | 5.75%   | 0.477% |
| 99  | 24.685 | 3684 | 3689 | 3698 | rVB  | 632562  | 1323075 | 16.24%  | 1.347% |
| 100 | 25.532 | 3829 | 3833 | 3847 | rVB3 | 375981  | 1093092 | 13.42%  | 1.113% |

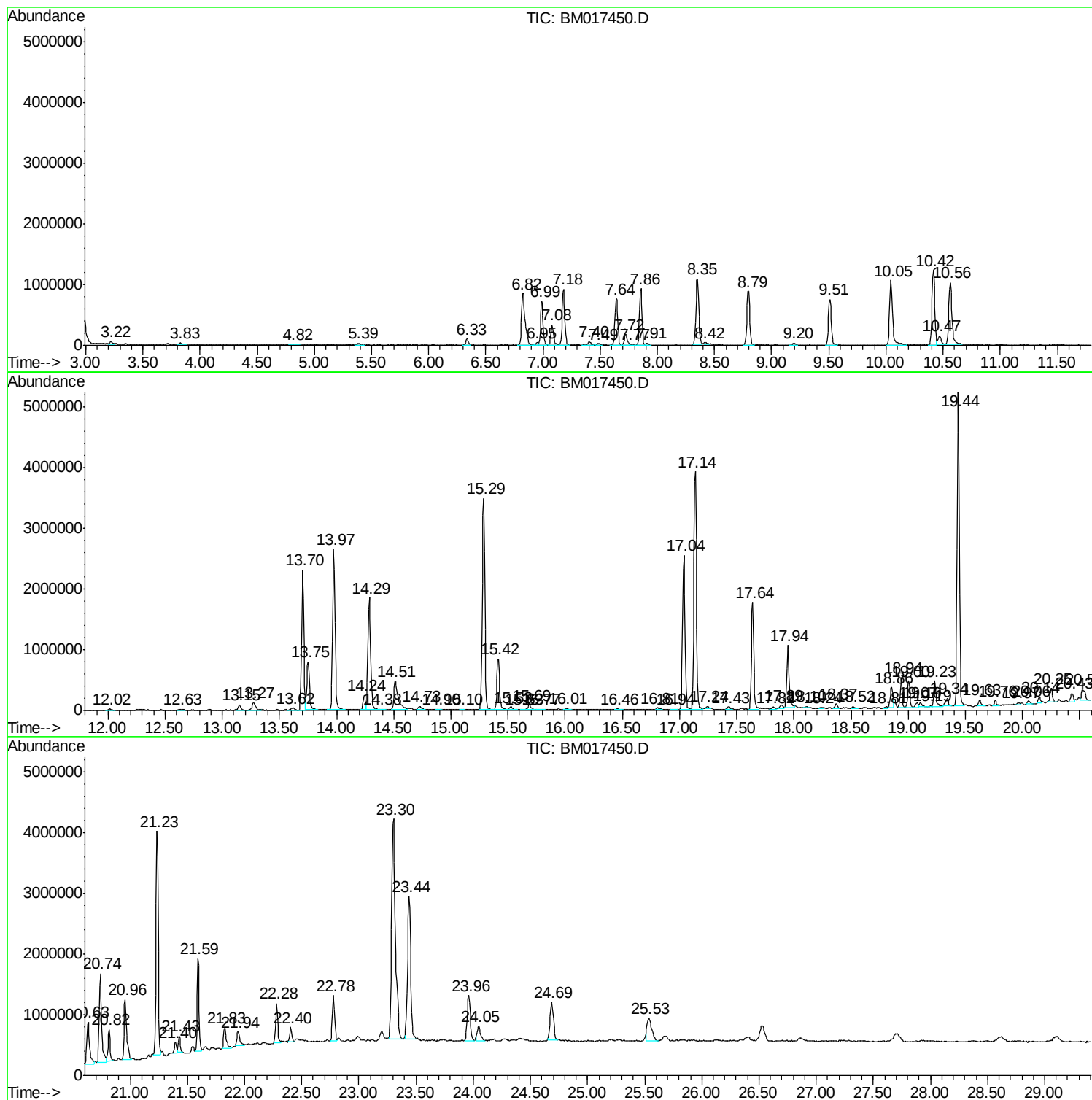
Sum of corrected areas: 98200309

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

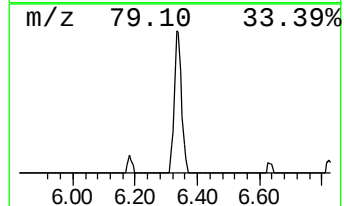
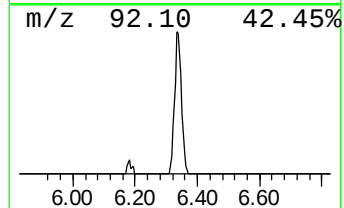
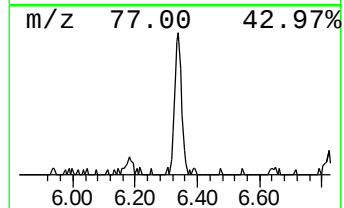
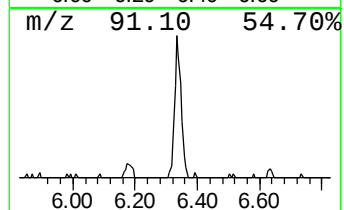
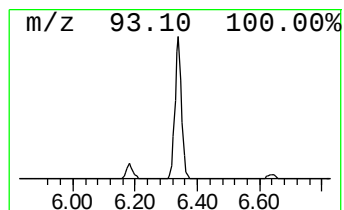
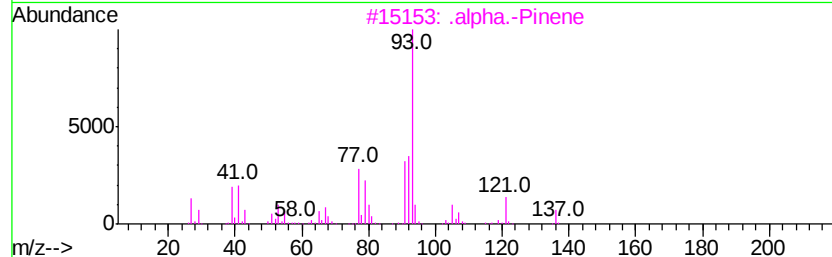
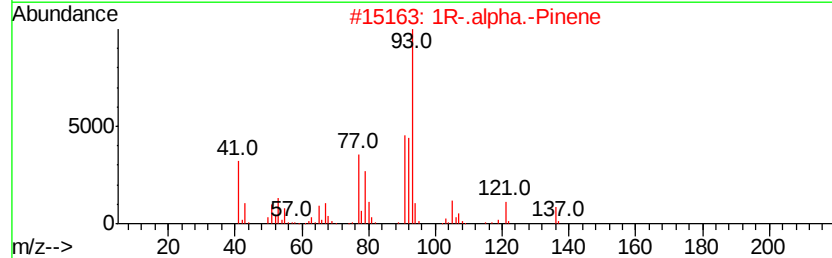
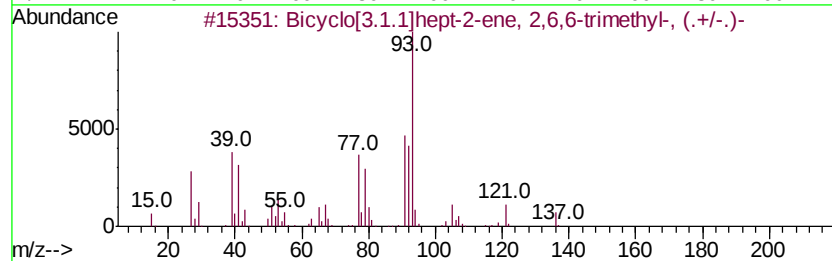
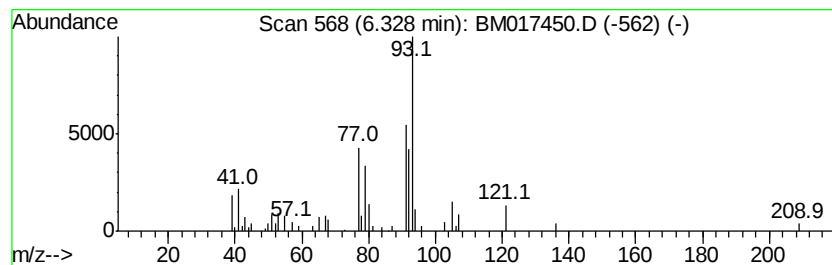
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Bicyclo[3.1.1]hept-2-ene, 2... Concentration Rank 20

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.33 | 2.49 ng/ul | 157072 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[3.1.1]hept-2-ene, 2,6,6-... | 136 | C10H16  | 002437-95-8 | 95   |
| 2    |    | 1R-.alpha.-Pinene                   | 136 | C10H16  | 007785-70-8 | 95   |
| 3    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 94   |
| 4    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 91   |
| 5    |    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16  | 004889-83-2 | 91   |



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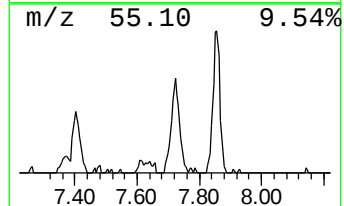
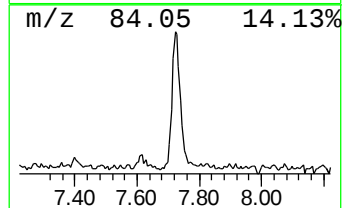
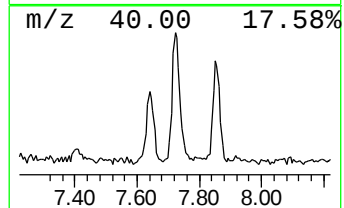
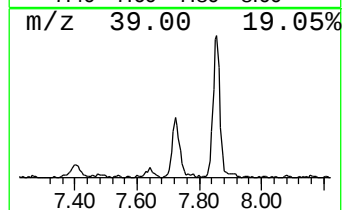
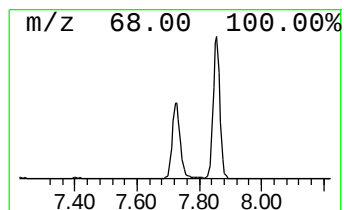
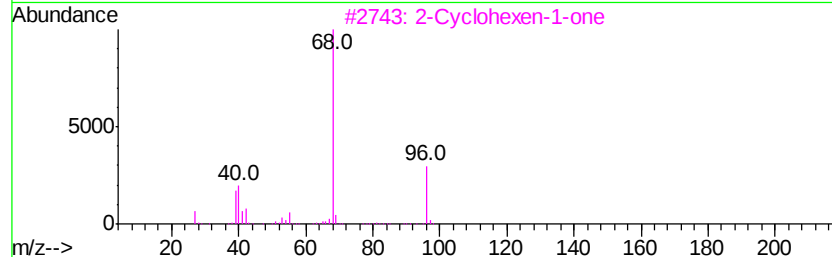
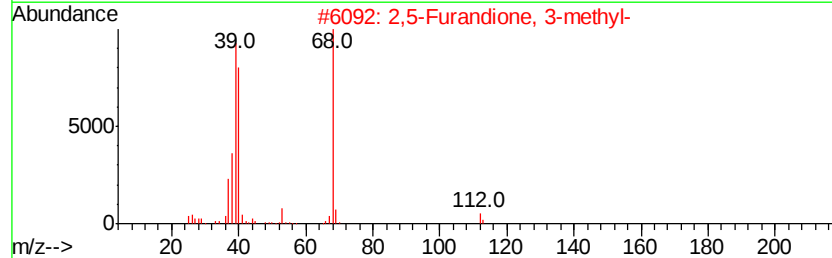
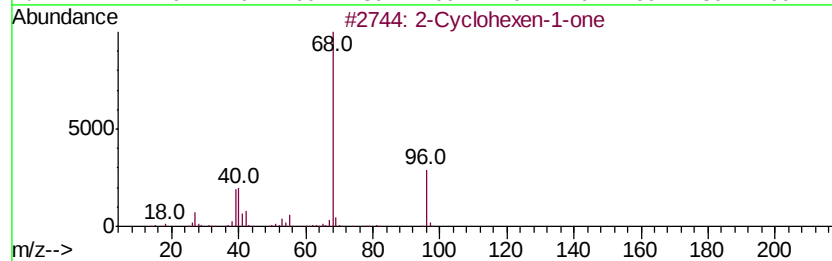
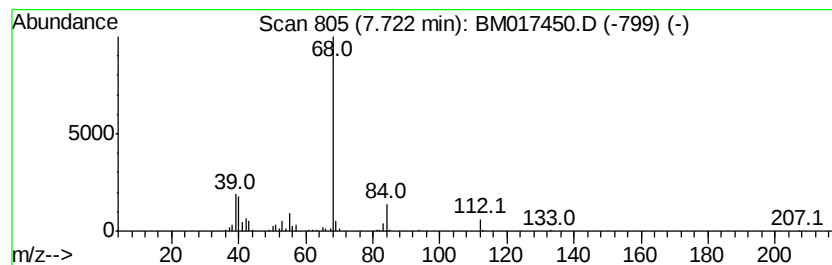
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Cyclohexen-1-one Concentration Rank 11

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.72 | 4.93 ng/ul | 310910 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Cyclohexen-1-one        | 96  | C6H8O   | 000930-68-7 | 59   |
| 2    |    | 2,5-Furandione, 3-methyl- | 112 | C5H4O3  | 000616-02-4 | 59   |
| 3    |    | 2-Cyclohexen-1-one        | 96  | C6H8O   | 000930-68-7 | 45   |
| 4    |    | 2-Cyclohexen-1-one        | 96  | C6H8O   | 000930-68-7 | 45   |
| 5    |    | 2-Cyclohexen-1-one        | 96  | C6H8O   | 000930-68-7 | 42   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

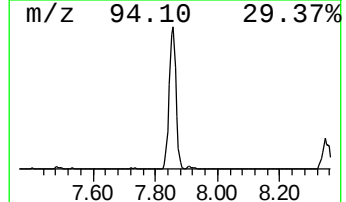
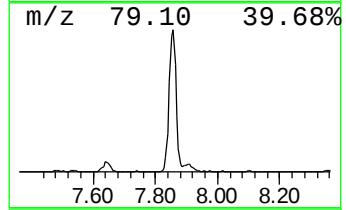
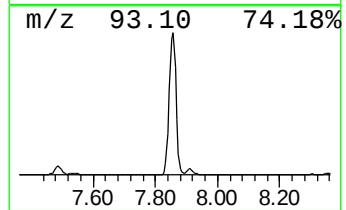
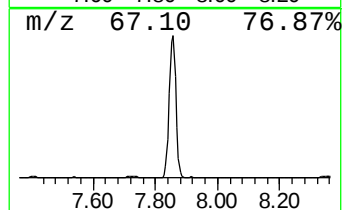
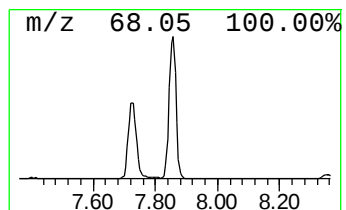
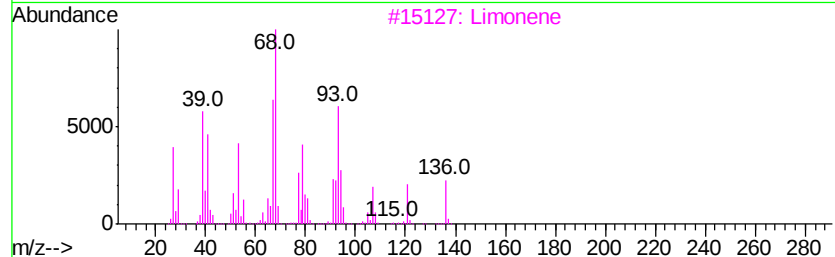
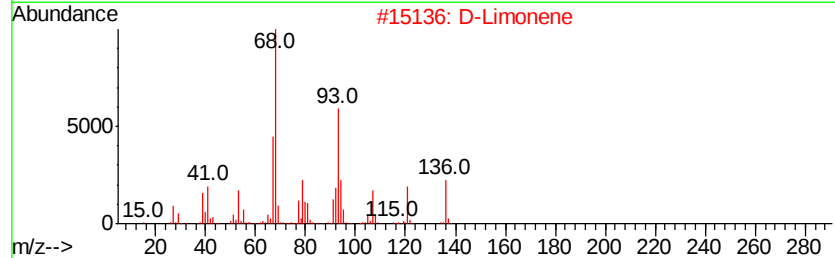
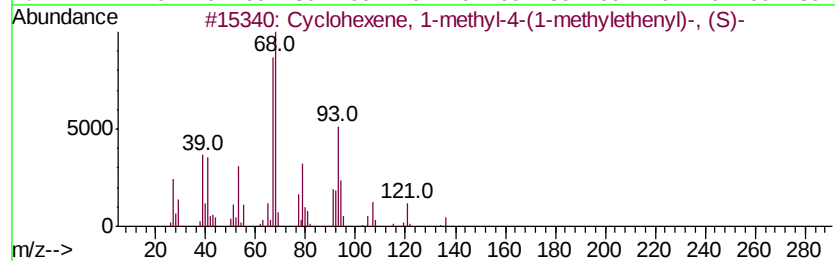
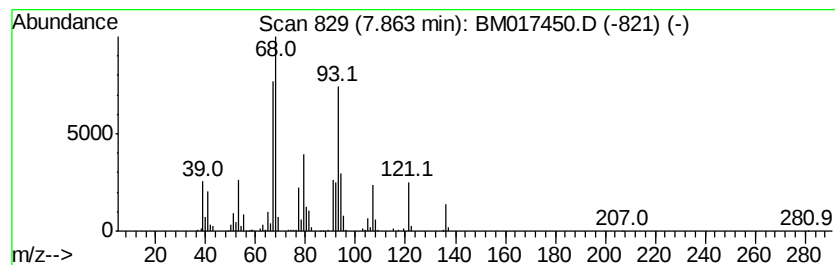
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Cyclohexene, 1-methyl-4-(1-... Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 7.86 | 22.43 ng/ul | 1415690 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                                                 | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexene, 1-methyl-4-(1-methyl-4-(1-methylethenyl)-, (S)- | 136 | C10H16  | 005989-54-8 | 97   |
| 2    |    | D-Limonene                                                   | 136 | C10H16  | 005989-27-5 | 93   |
| 3    |    | Limonene                                                     | 136 | C10H16  | 000138-86-3 | 93   |
| 4    |    | D-Limonene                                                   | 136 | C10H16  | 005989-27-5 | 76   |
| 5    |    | D-Limonene                                                   | 136 | C10H16  | 005989-27-5 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

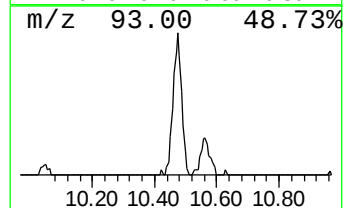
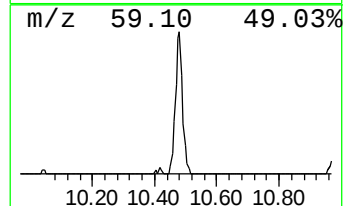
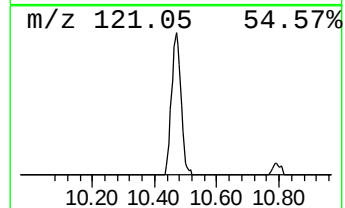
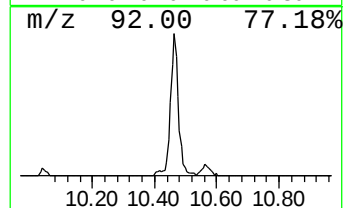
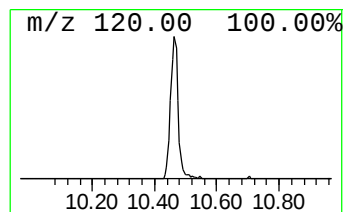
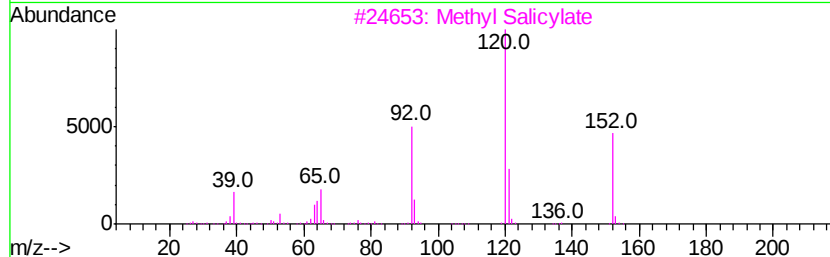
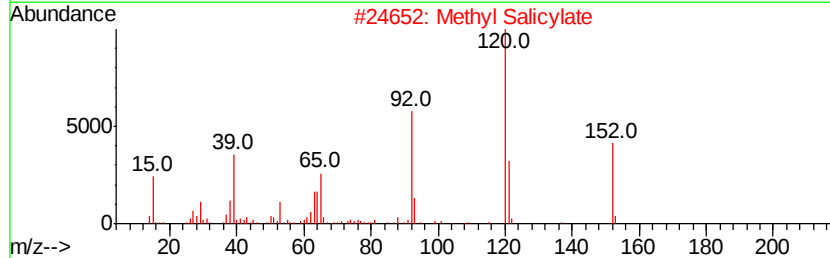
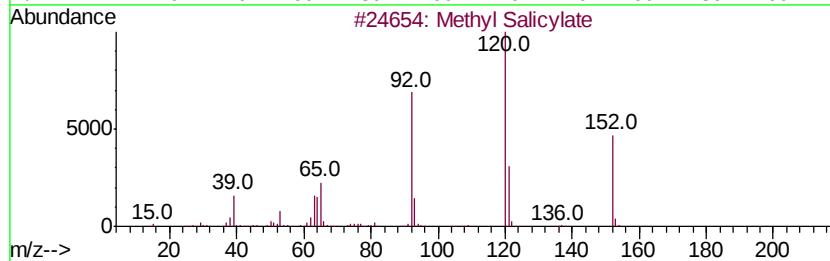
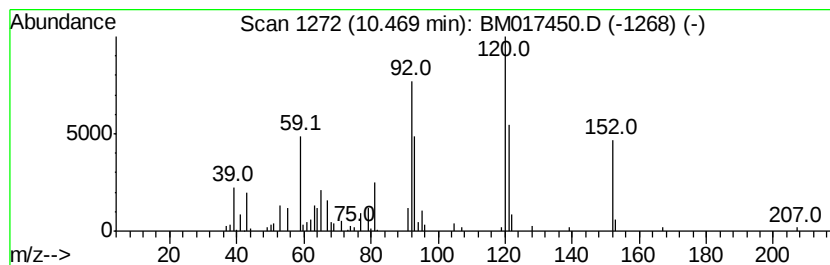
Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Methyl Salicylate Concentration Rank 17

| R.T.    | EstConc                   | Area         | Relative to ISTD | R.T.      |
|---------|---------------------------|--------------|------------------|-----------|
| 10.47   | 2.81 ng/ul                | 287491       | Naphthalene-d8   | 10.42     |
| Hit# of | 5                         | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Methyl Salicylate         | 152 C8H8O3   | 000119-36-8      | 76        |
| 2       | Methyl Salicylate         | 152 C8H8O3   | 000119-36-8      | 58        |
| 3       | Methyl Salicylate         | 152 C8H8O3   | 000119-36-8      | 49        |
| 4       | Methyl Salicylate         | 152 C8H8O3   | 000119-36-8      | 49        |
| 5       | 2-Hydroxyethyl salicylate | 182 C9H10O4  | 000087-28-5      | 47        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

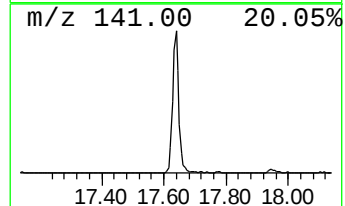
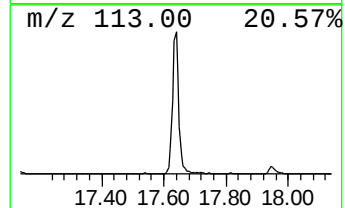
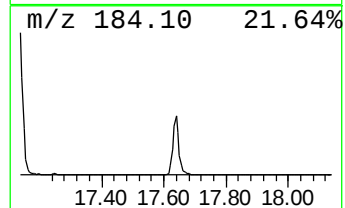
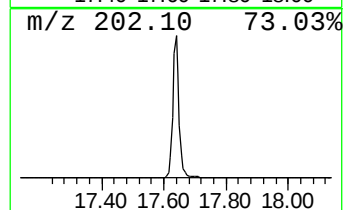
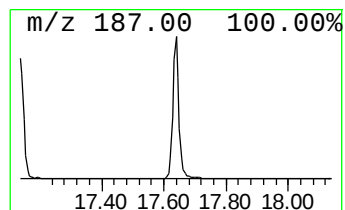
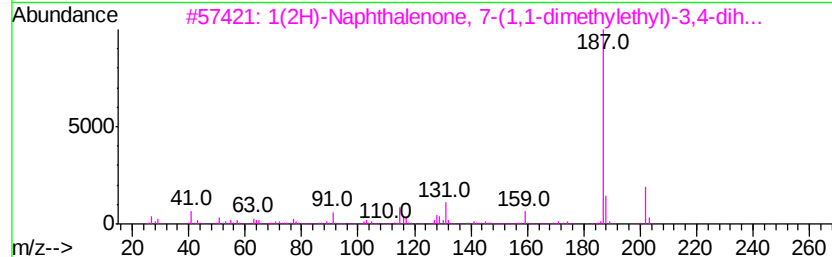
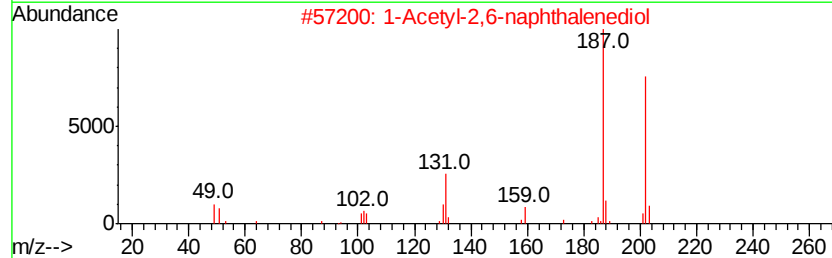
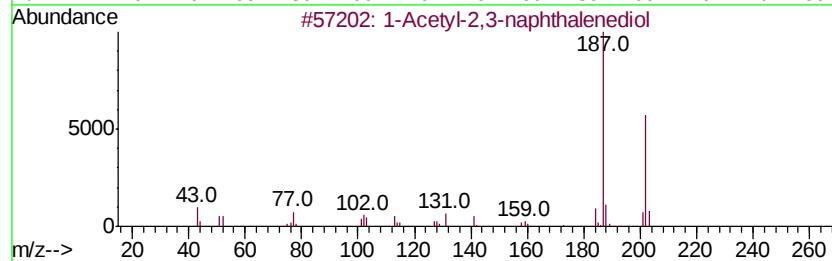
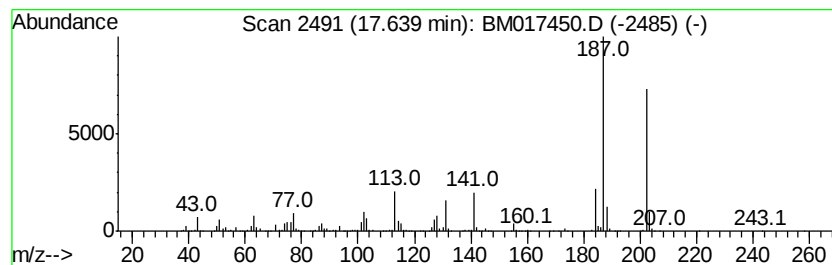
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1-Acetyl-2,3-naphthalenediol Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 17.64 | 13.16 ng/ul | 2447030 | Phenanthrene-d10 | 17.04 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | 1-Acetyl-2,3-naphthalenediol        | 202 | C12H10O3   | 091368-52-4 | 68   |
| 2       |   | 1-Acetyl-2,6-naphthalenediol        | 202 | C12H10O3   | 108804-50-8 | 52   |
| 3       |   | 1(2H)-Naphthalenone, 7-(1,1-dime... | 202 | C14H18O    | 022583-68-2 | 50   |
| 4       |   | Pyrimidine, 4-(2-hydroxy-5-metho... | 202 | C11H10N2O2 | 097630-77-8 | 50   |
| 5       |   | Quinoxaline, 2-tert-butyl-, 4-oxide | 202 | C12H14N2O  | 016007-51-5 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

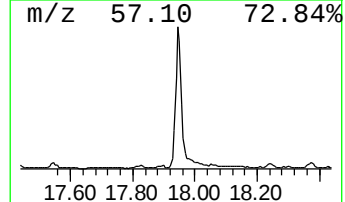
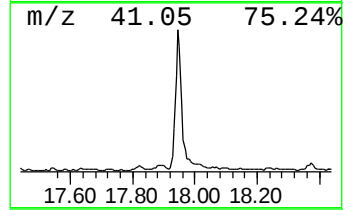
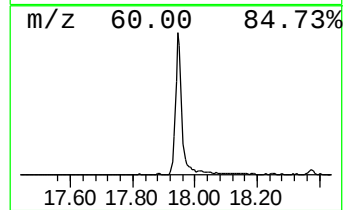
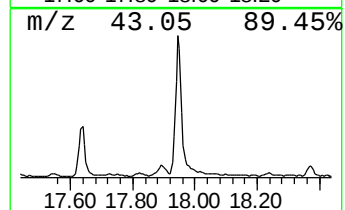
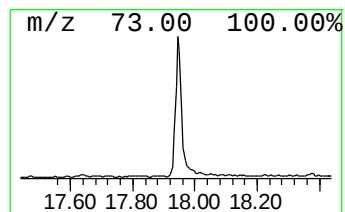
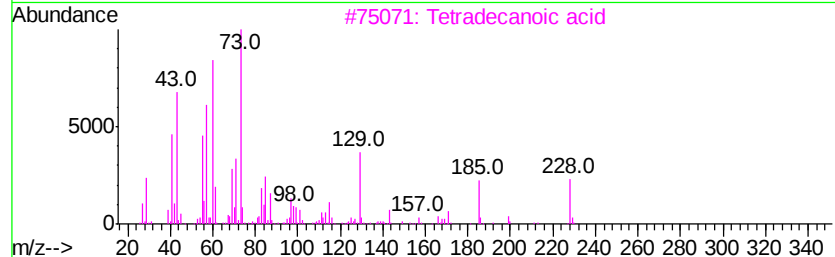
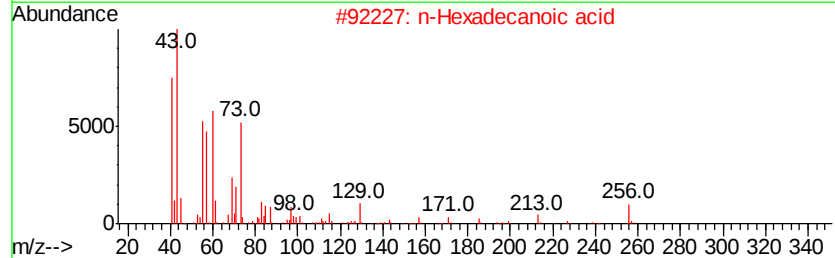
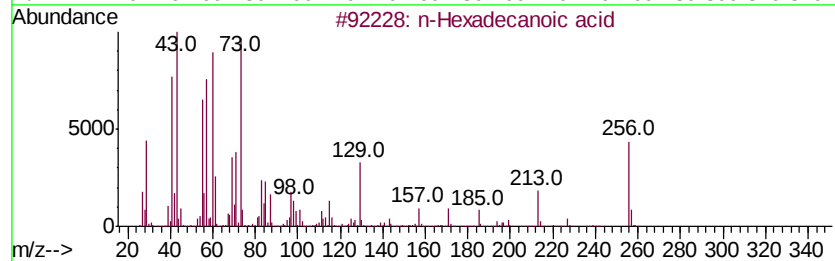
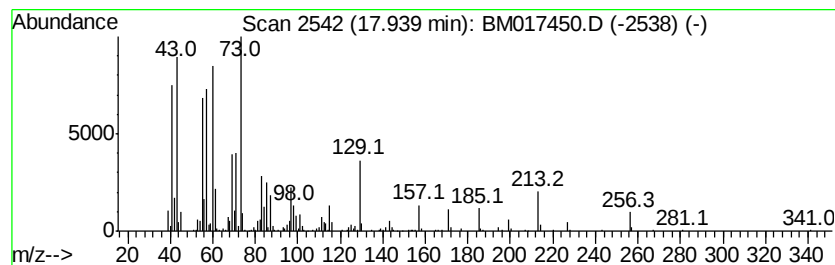
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 17.94 | 7.79 ng/ul | 1448620 | Phenanthrene-d10 | 17.04 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 94   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 91   |
| 5    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

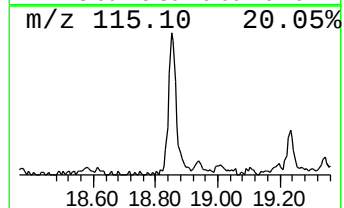
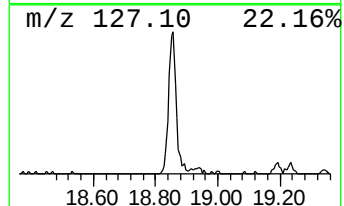
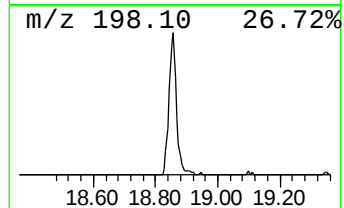
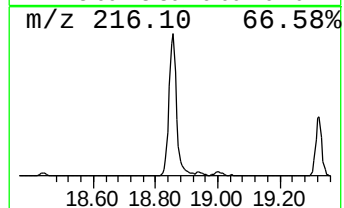
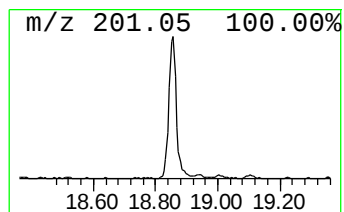
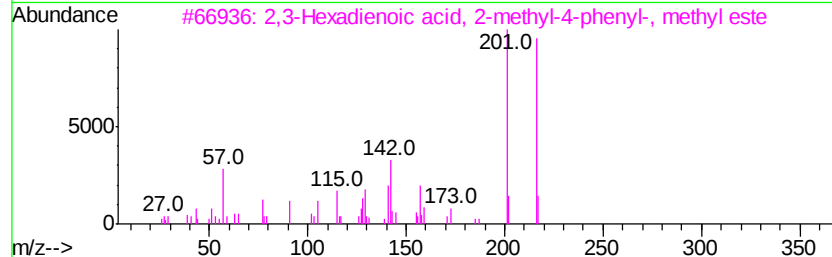
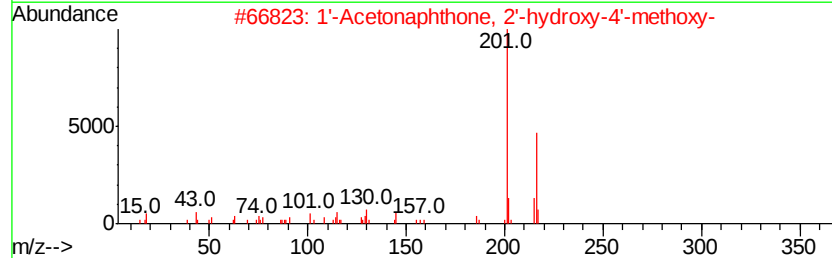
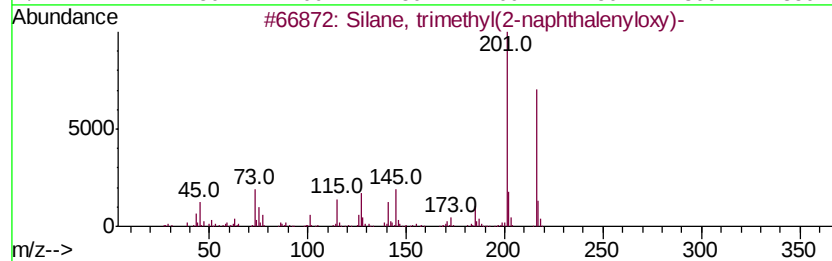
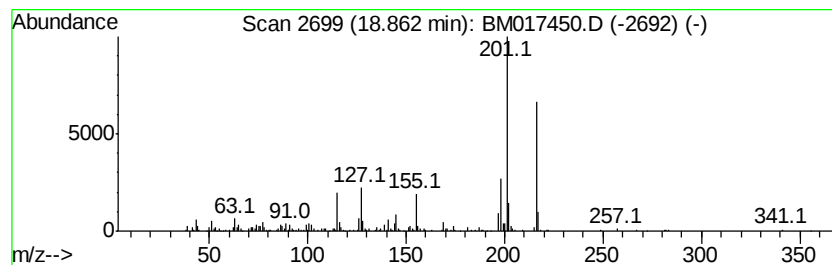
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Silane, trimethyl(2-naphtha... Concentration Rank 16

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 18.86   | 2.92 ng/ul                          | 542329       | Phenanthrene-d10 | 17.04       |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | Silane, trimethyl(2-naphthalenyl... | 216          | C13H16OSi        | 018081-08-8 | 50   |      |
| 2       | 1'-Acetonaphthone, 2'-hydroxy-4'... | 216          | C13H12O3         | 005891-63-4 | 49   |      |
| 3       | 2,3-Hexadienoic acid, 2-methyl-4... | 216          | C14H16O2         | 038701-06-3 | 47   |      |
| 4       | Methyl diphenylphosphinite          | 216          | C13H13OP         | 004020-99-9 | 46   |      |
| 5       | Benzene, 2-(butenyl)-5-(1,1-dime... | 216          | C16H24           | 072088-12-1 | 43   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
 Data File : BM017450.D  
 Acq On : 01 Nov 2018 03:33  
 Operator : MJ/SJ  
 Sample : J5635-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
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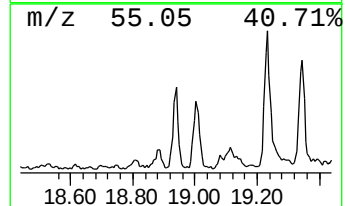
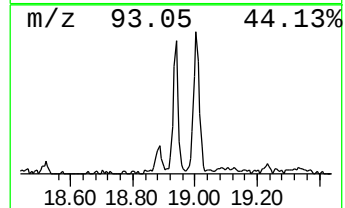
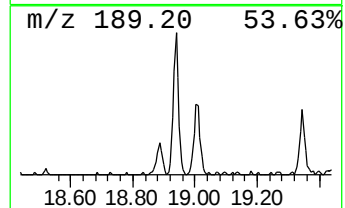
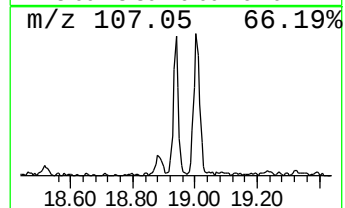
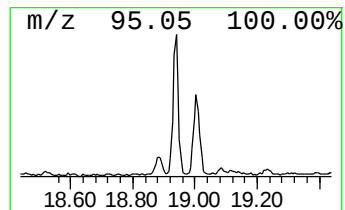
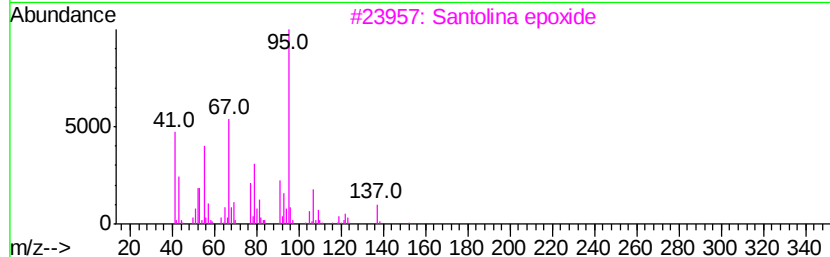
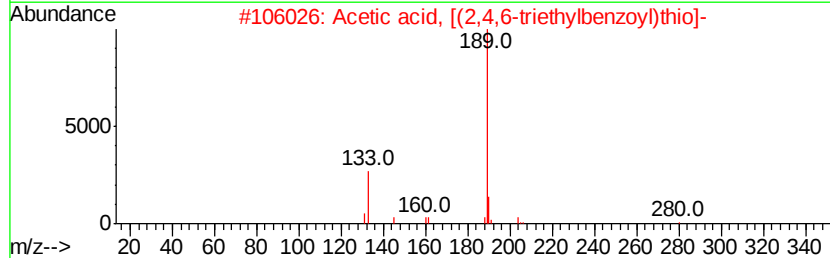
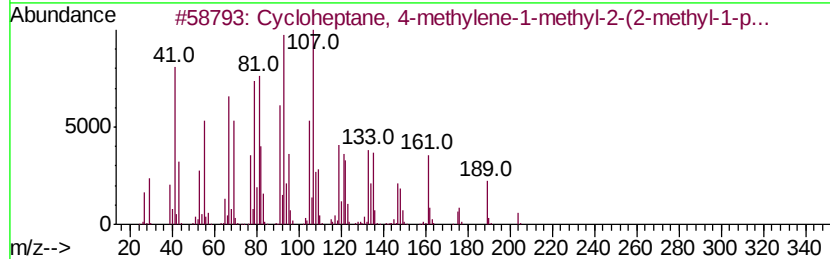
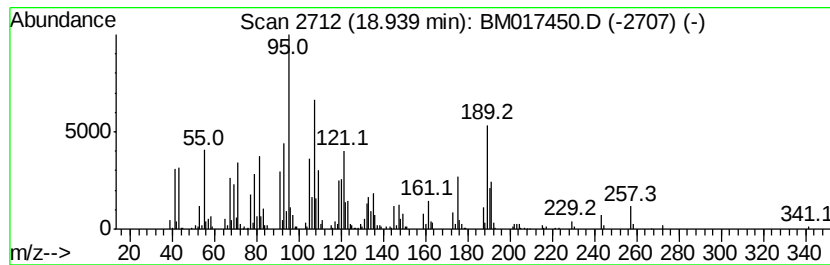
TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 8 unknown-01 Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.94 | 3.16 ng/ul | 587798 | Phenanthrene-d10 | 17.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Cycloheptane, 4-methylene-1-meth... | 204 | C15H24    | 1000159-38-5 | 42   |
| 2    |    | Acetic acid, [(2,4,6-triethylben... | 280 | C15H20O3S | 067902-78-7  | 35   |
| 3    |    | Santolina epoxide                   | 152 | C10H16O   | 060485-45-2  | 22   |
| 4    |    | N-(1-(2-Furyl)ethyl)aniline         | 187 | C12H13NO  | 014497-49-5  | 14   |
| 5    |    | 9-Methyltetracyclo[7.3.1.0(2.7).... | 204 | C15H24    | 1000215-30-5 | 14   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

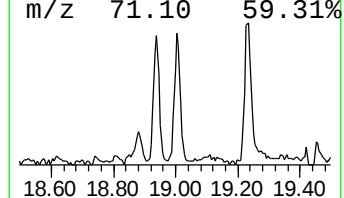
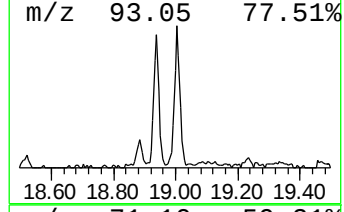
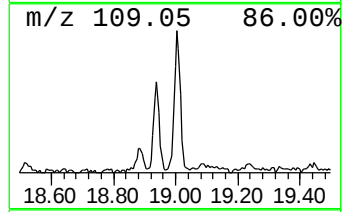
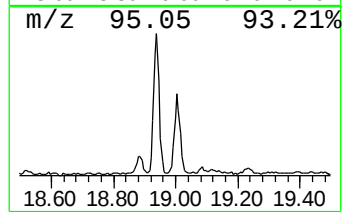
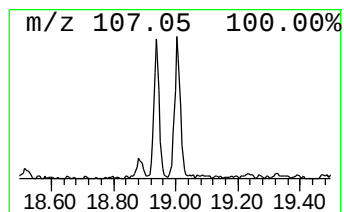
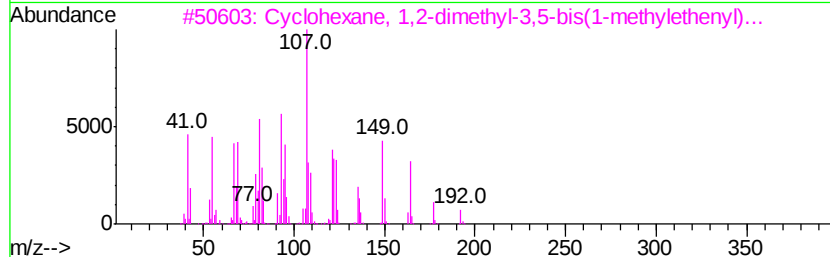
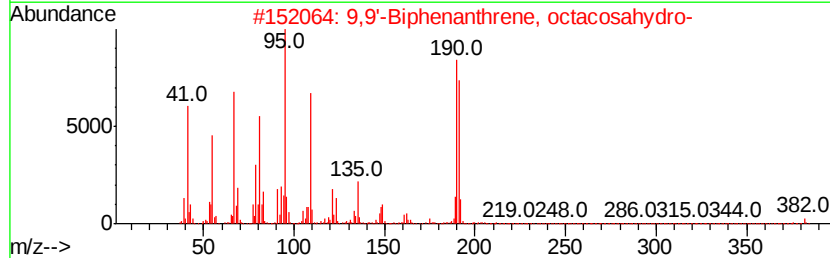
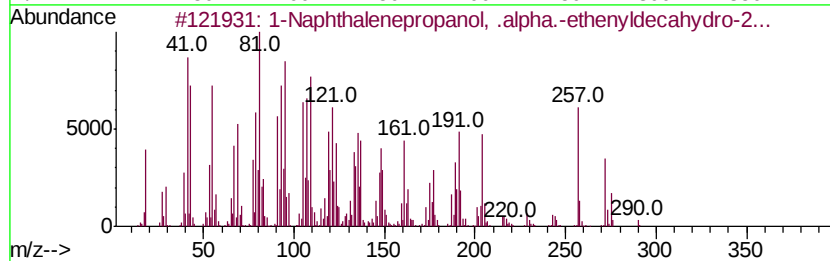
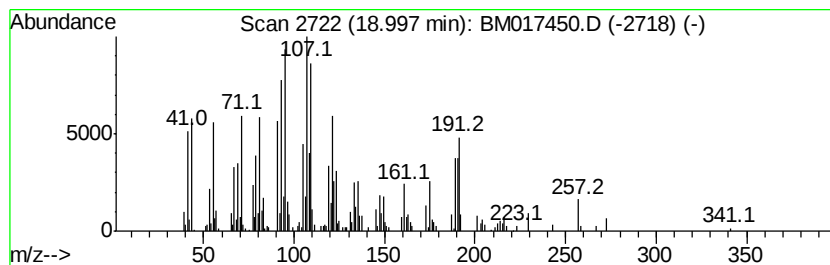
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BNA\_M  
ClientSampleId :  
A40J6

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown-02 Concentration Rank 15

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|------------|-------------------------------------|------------------|-----------|--------------|------|
| 19.00   | 3.13 ng/ul | 582755                              | Phenanthrene-d10 | 17.04     |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |            | 1-Naphthalenepropanol, .alpha.-e... | 308              | C20H36O2  | 000515-03-7  | 35   |
| 2       |            | 9,9'-Biphenanthrene, octacosahydro- | 382              | C28H46    | 055334-18-4  | 35   |
| 3       |            | Cyclohexane, 1,2-dimethyl-3,5-bi... | 192              | C14H24    | 074806-55-6  | 35   |
| 4       |            | Pyrazol-4-amine, 1-(4-fluorobenz... | 191              | C10H10FN3 | 1000272-83-9 | 11   |
| 5       |            | 1,3-Cyclopentadiene, 5,5-dimethy... | 136              | C10H16    | 1000163-57-0 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

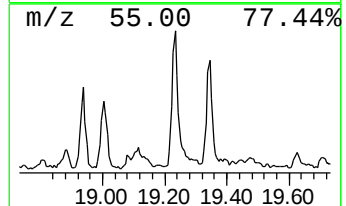
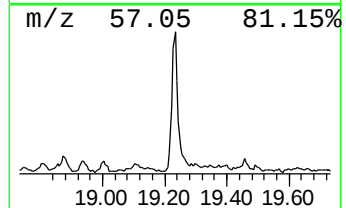
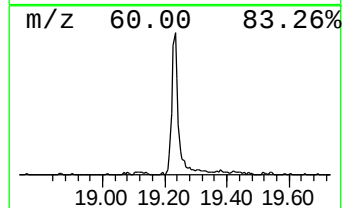
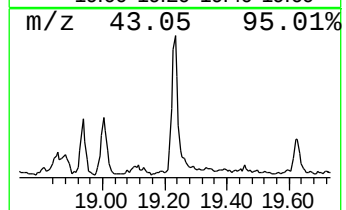
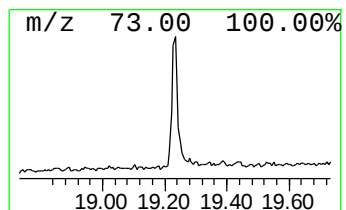
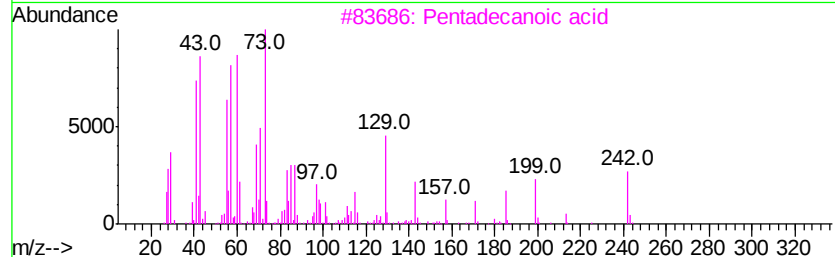
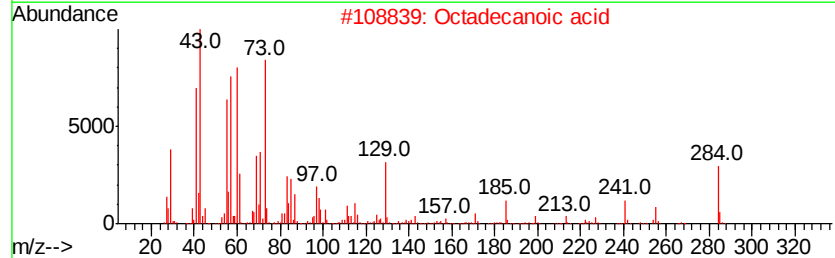
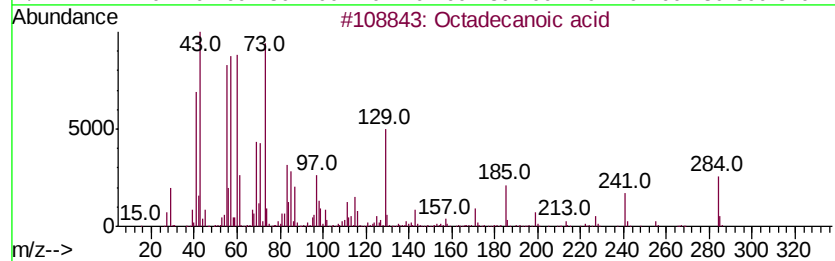
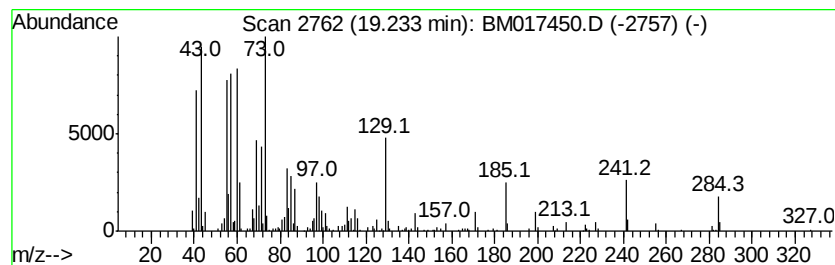
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octadecanoic acid Concentration Rank 19

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.23 | 2.63 ng/ul | 616941 | Chrysene-d12     | 21.23 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 94   |
| 3    |    |   | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 89   |
| 4    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 86   |
| 5    |    |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

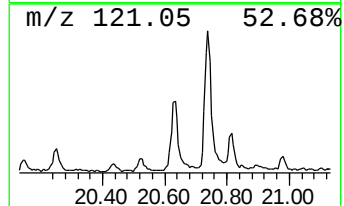
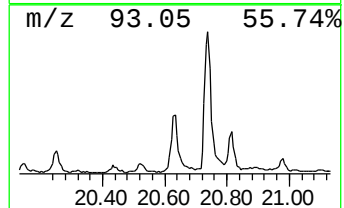
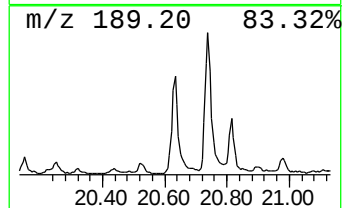
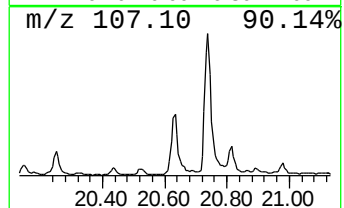
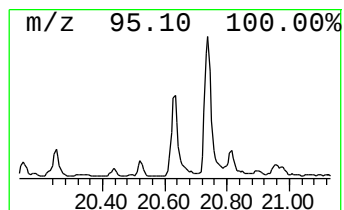
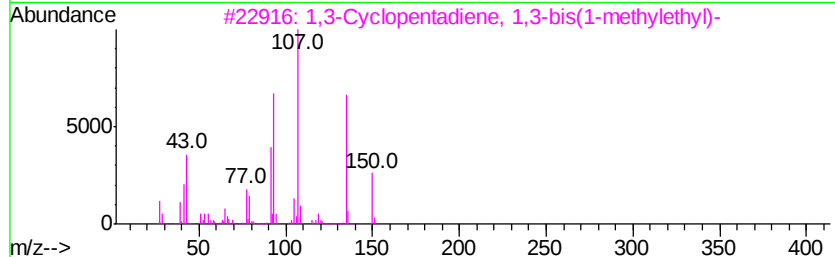
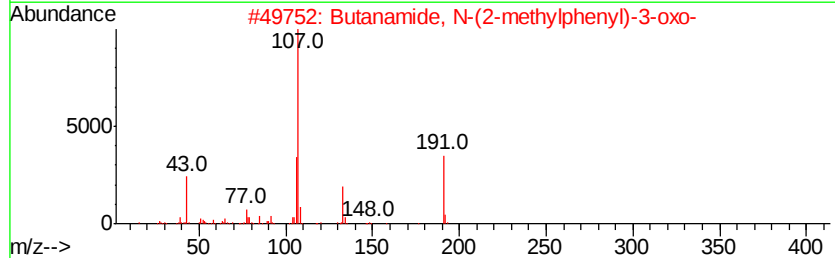
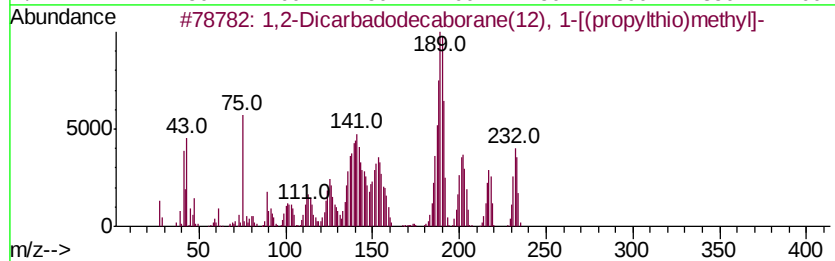
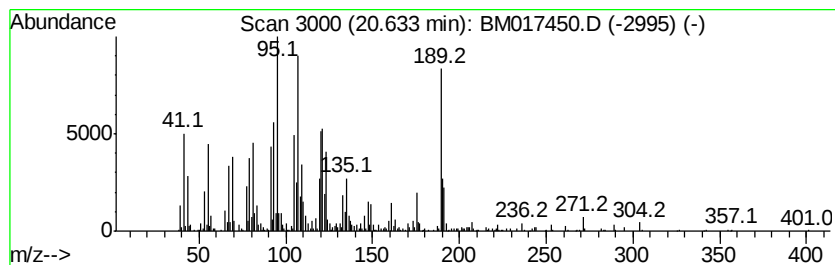
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 unknown-03 Concentration Rank 12

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.63 | 4.86 ng/ul | 1140190 | Chrysene-d12     | 21.23 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | 1,2-Dicarbododecaborane(12), 1-[... | 234 | C6H20B10S | 062906-36-9 | 25   |
| 2    |    |   | Butanamide, N-(2-methylphenyl)-3... | 191 | C11H13NO2 | 000093-68-5 | 15   |
| 3    |    |   | 1,3-Cyclopentadiene, 1,3-bis(1-m... | 150 | C11H18    | 123278-27-3 | 11   |
| 4    |    |   | 5,8-Decadien-2-one, 5,9-dimethyl... | 180 | C12H20O   | 130876-99-2 | 11   |
| 5    |    |   | Benzeneacetic acid, .alpha.-hydr... | 166 | C9H10O3   | 021210-43-5 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

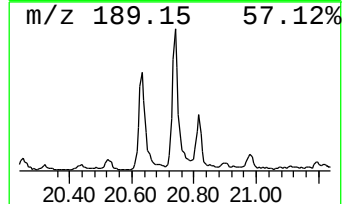
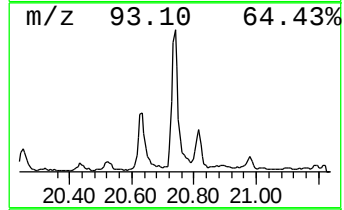
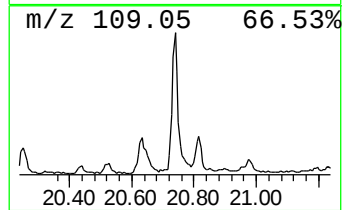
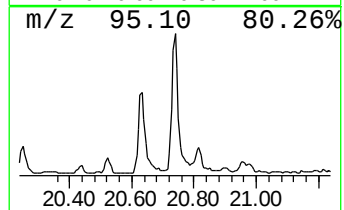
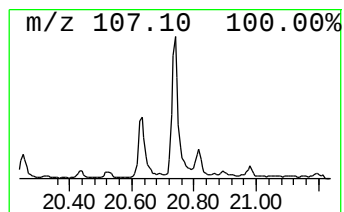
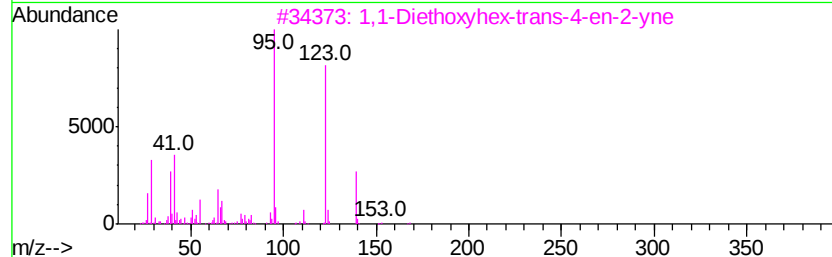
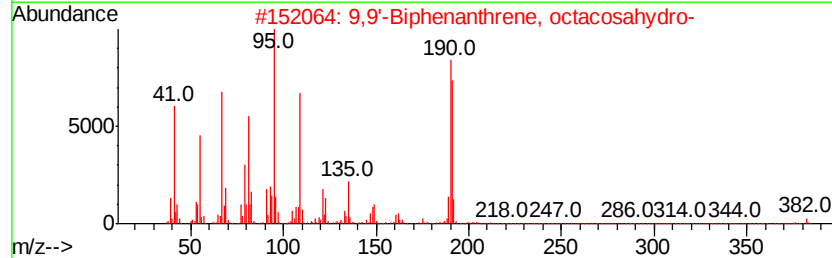
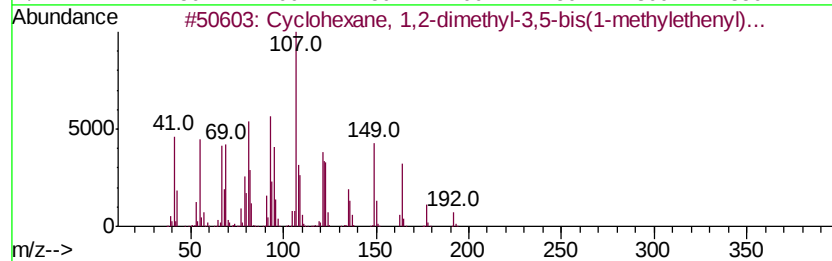
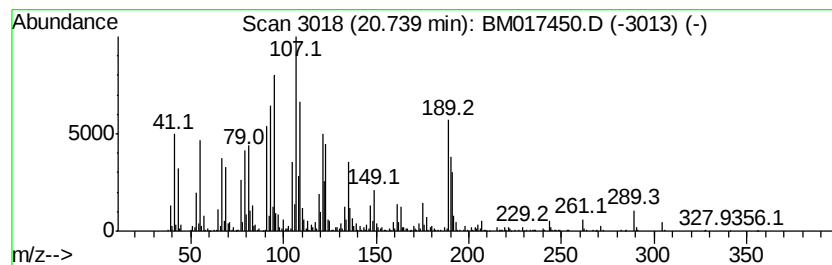
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 unknown-04 Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.74 | 9.26 ng/ul | 2174140 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Cyclohexane, 1,2-dimethyl-3,5-bi... | 192 | C14H24   | 074806-55-6  | 22   |
| 2    |    | 9,9'-Biphenanthrene, octacosahydro- | 382 | C28H46   | 055334-18-4  | 22   |
| 3    |    | 1,1-Diethoxyhex-trans-4-en-2-yne    | 168 | C10H16O2 | 1000250-51-9 | 18   |
| 4    |    | Benzaldehyde, 4-(trifluoromethoxy)- | 190 | C8H5F3O2 | 000659-28-9  | 18   |
| 5    |    | Tricyclo[3.1.0.0(2,4)]hexane, 3,... | 164 | C12H20   | 1000150-21-2 | 15   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

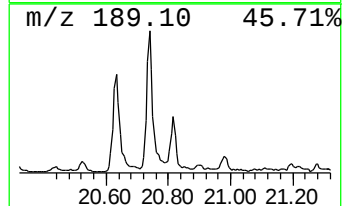
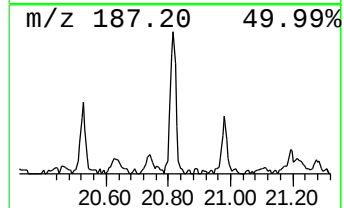
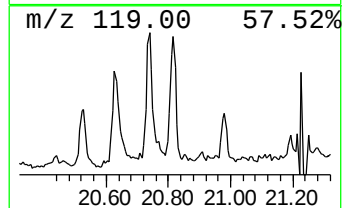
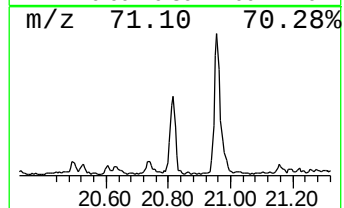
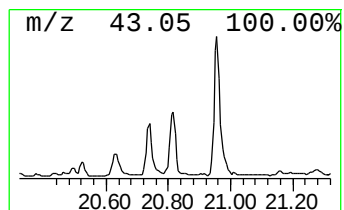
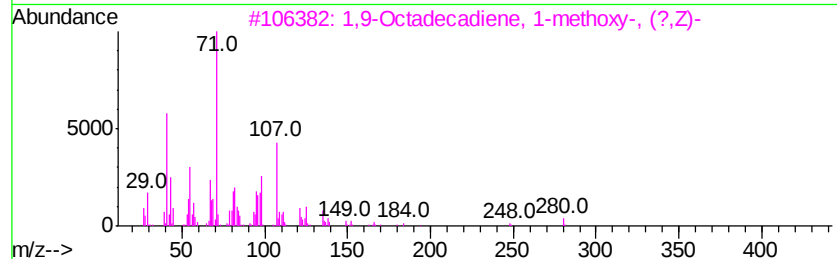
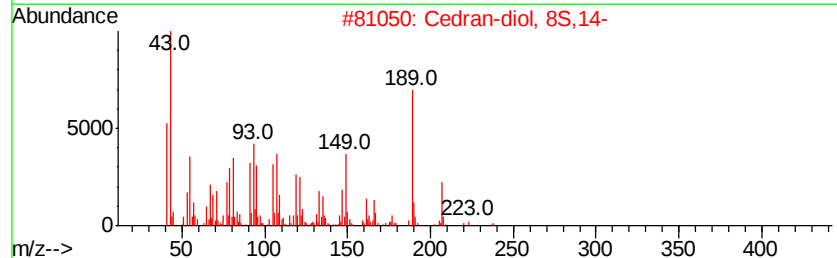
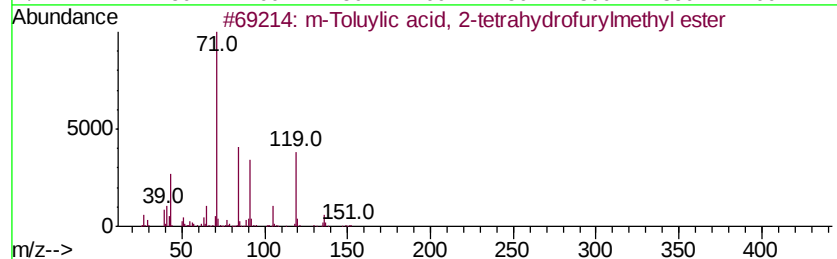
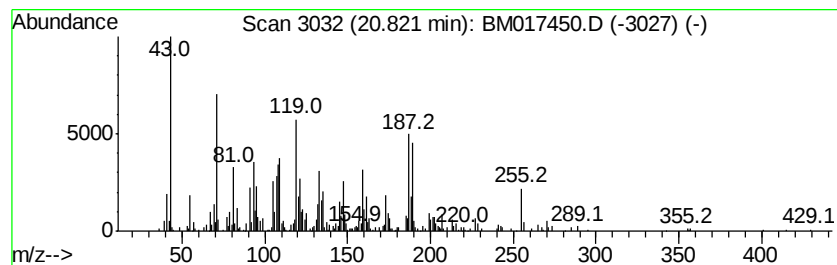
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 unknown-05 Concentration Rank 18

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.82 | 2.76 ng/ul | 647995 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | m-Toluylic acid, 2-tetrahydrofur...  | 220 | C13H16O3 | 039252-19-2 | 22   |
| 2    |    | Cedran-diol, 8S,14-                  | 238 | C15H26O2 | 062600-05-9 | 14   |
| 3    |    | 1,9-Octadecadiene, 1-methoxy-, (...) | 280 | C19H36O  | 056554-63-3 | 12   |
| 4    |    | p-Toluylic acid, 2-tetrahydrofur...  | 220 | C13H16O3 | 004647-35-2 | 12   |
| 5    |    | Pentane, 2,3,4-trimethyl-            | 114 | C8H18    | 000565-75-3 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

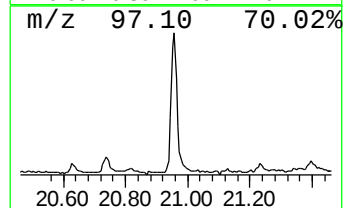
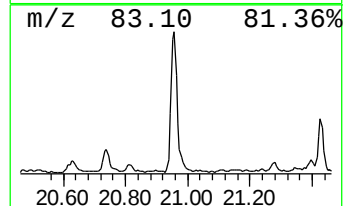
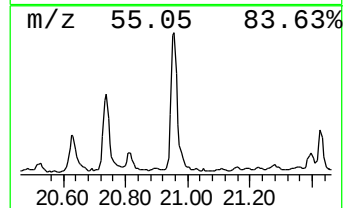
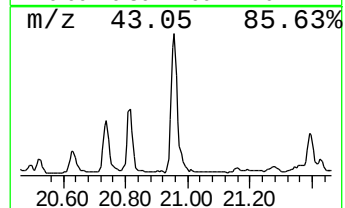
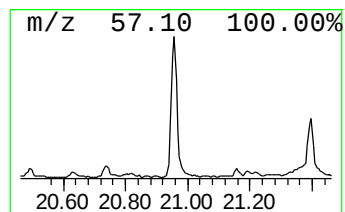
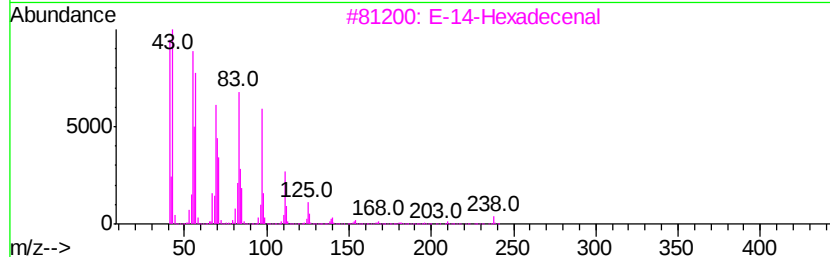
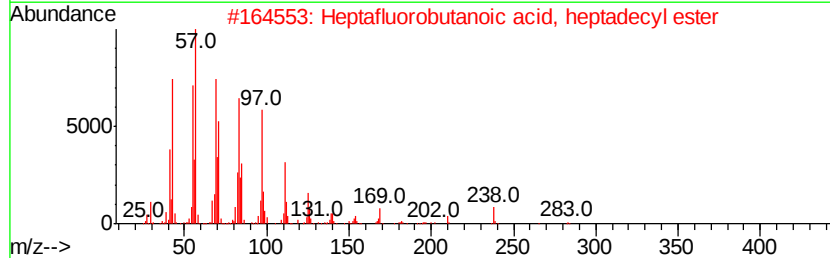
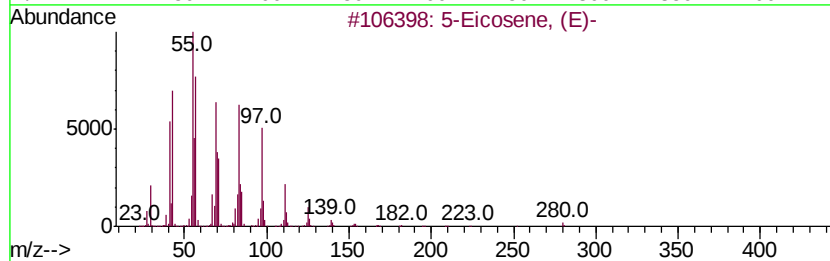
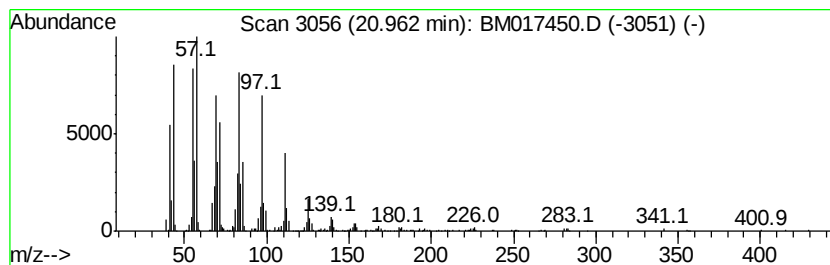
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Cyclic20.96 Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.96 | 6.31 ng/ul | 1481330 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                               | MW  | MolForm     | CAS#         | Qual |
|------|----|--------------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 5-Eicosene, (E)-                           | 280 | C20H40      | 074685-30-6  | 96   |
| 2    |    | Heptafluorobutanoic acid, heptadecyl ester | 452 | C21H35F7O2  | 1000282-97-3 | 94   |
| 3    |    | E-14-Hexadecenal                           | 238 | C16H30O     | 330207-53-9  | 92   |
| 4    |    | Trichloroacetic acid, hexadecyl ester      | 386 | C18H33Cl3O2 | 074339-54-1  | 91   |
| 5    |    | 1-Heneicosyl formate                       | 340 | C22H44O2    | 077899-03-7  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

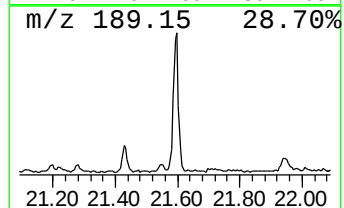
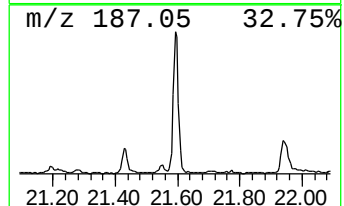
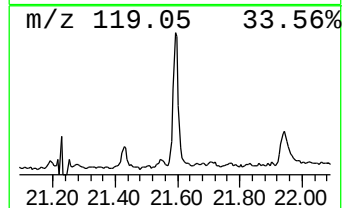
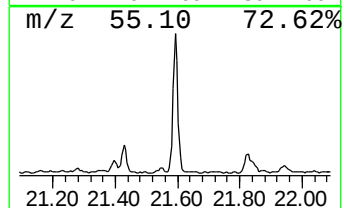
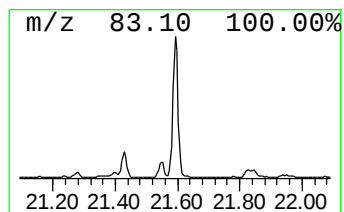
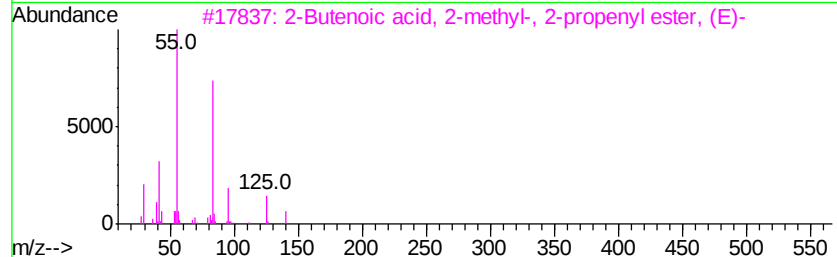
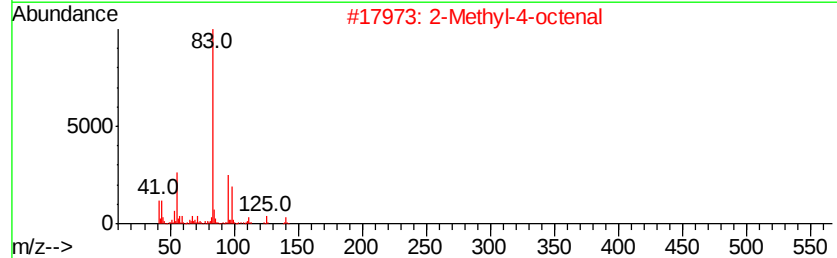
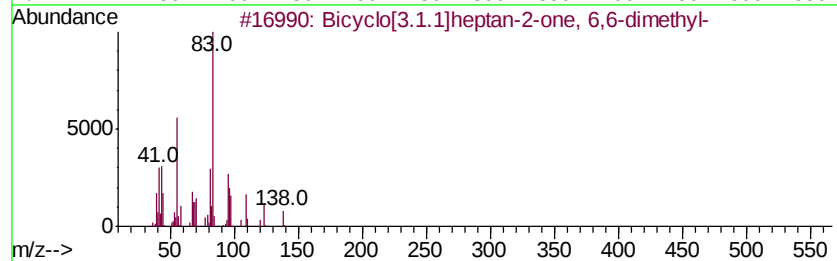
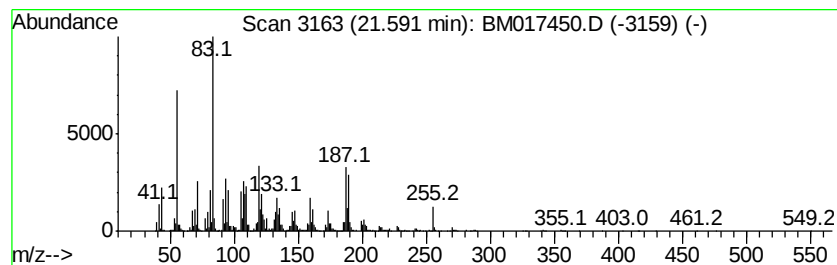
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 unknown-06 Concentration Rank 5

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 21.59 | 7.73 ng/ul | 1815930 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                                                     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl-                        | 138 | C9H14O  | 024903-95-5 | 35   |
| 2    |    | 2-Methyl-4-octenal                                               | 140 | C9H16O  | 030390-58-0 | 27   |
| 3    |    | 2-Butenoic acid, 2-methyl-, 2-propenyl ester, (E)-               | 140 | C8H12O2 | 007493-71-2 | 27   |
| 4    |    | 1-Isopropenyl-3,3-dimethyl-5-(3-methylbut-3-en-1-yl)-1,3-dioxane | 220 | C15H24O | 152481-77-1 | 22   |
| 5    |    | 2-Butenoic acid, 2-methyl-, 2-propenyl ester, (E)-               | 140 | C8H12O2 | 007493-71-2 | 16   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

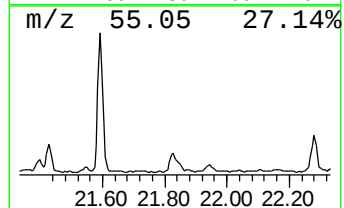
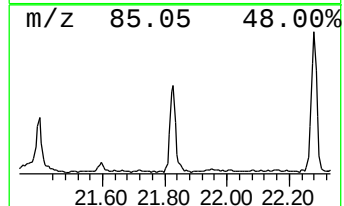
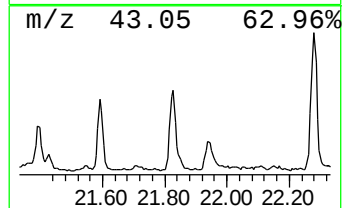
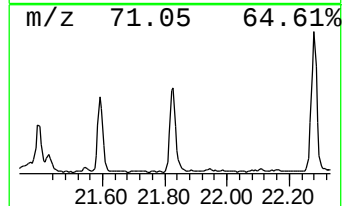
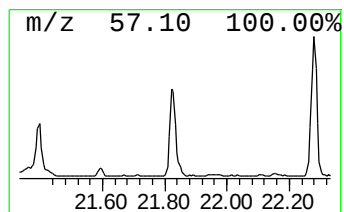
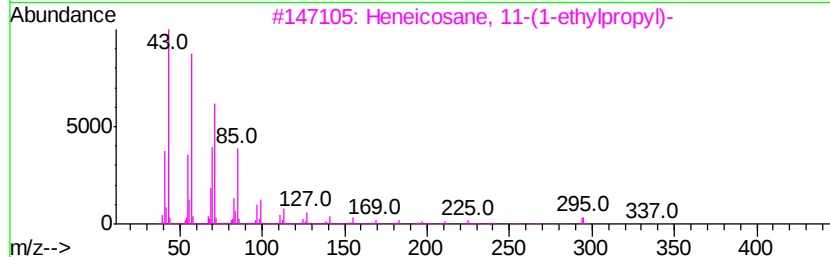
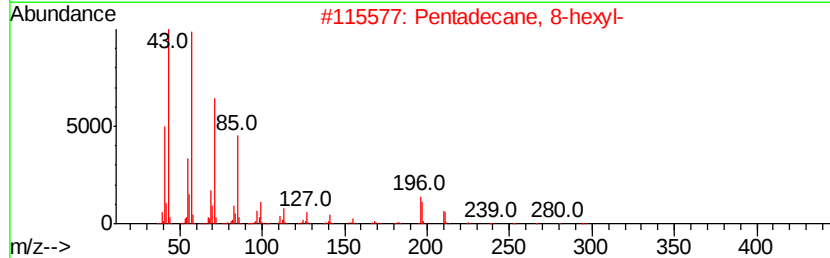
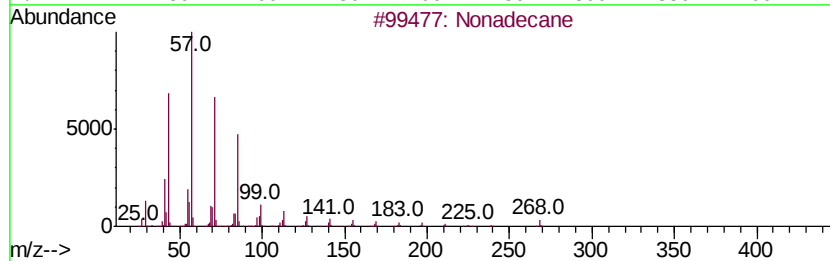
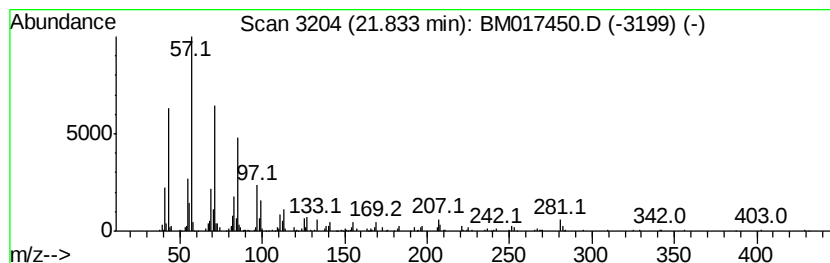
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.83 | 2.35 ng/ul | 551151 | Chrysene-d12     | 21.23 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Nonadecane                       | 268 | C19H40  | 000629-92-5 | 93   |
| 2    |    |   | Pentadecane, 8-hexyl-            | 296 | C21H44  | 013475-75-7 | 93   |
| 3    |    |   | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 90   |
| 4    |    |   | Eicosane, 10-methyl-             | 296 | C21H44  | 054833-23-7 | 90   |
| 5    |    |   | Heptadecane, 9-octyl-            | 352 | C25H52  | 007225-64-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

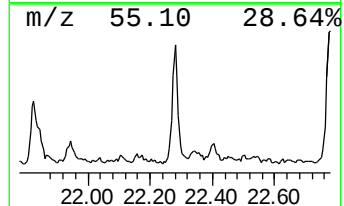
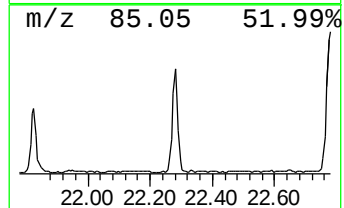
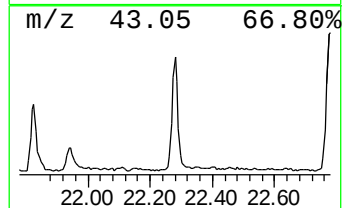
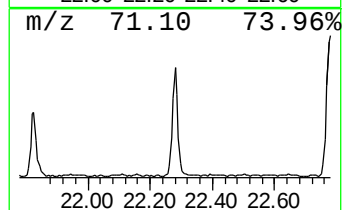
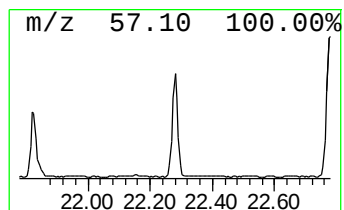
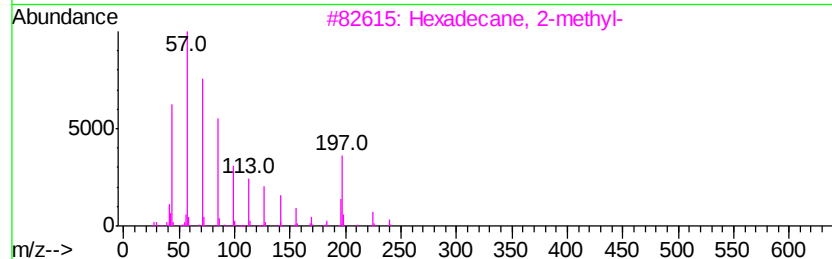
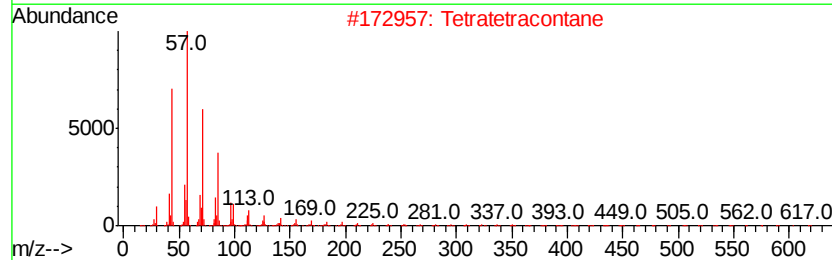
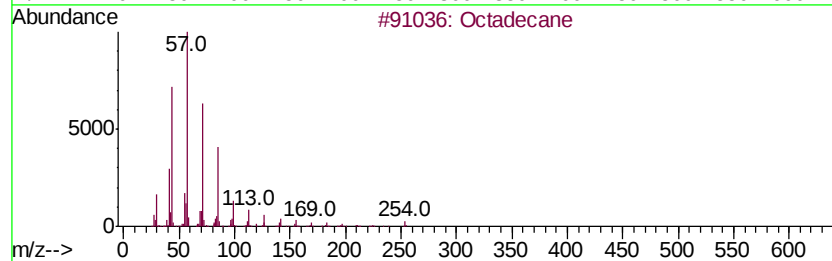
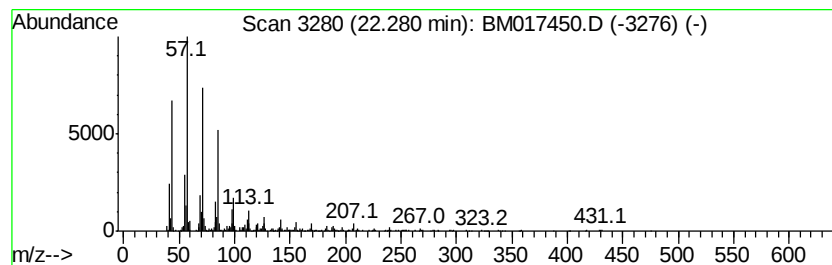
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.28 | 3.55 ng/ul | 833151 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane                       | 254 | C18H38  | 000593-45-3 | 95   |
| 2    |    | Tetratetracontane                | 619 | C44H90  | 007098-22-8 | 91   |
| 3    |    | Hexadecane, 2-methyl-            | 240 | C17H36  | 001560-92-5 | 91   |
| 4    |    | Heptacosane                      | 380 | C27H56  | 000593-49-7 | 91   |
| 5    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

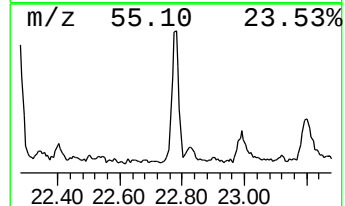
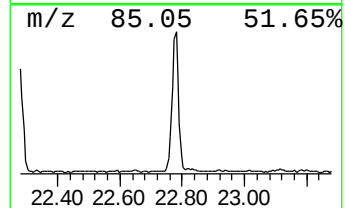
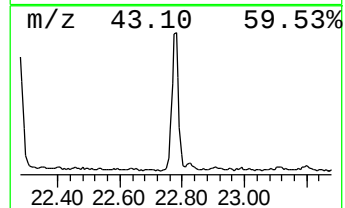
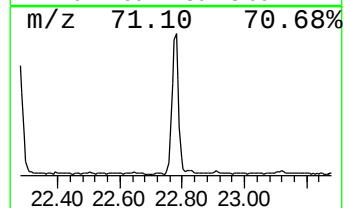
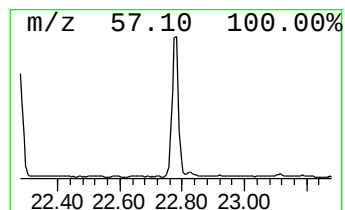
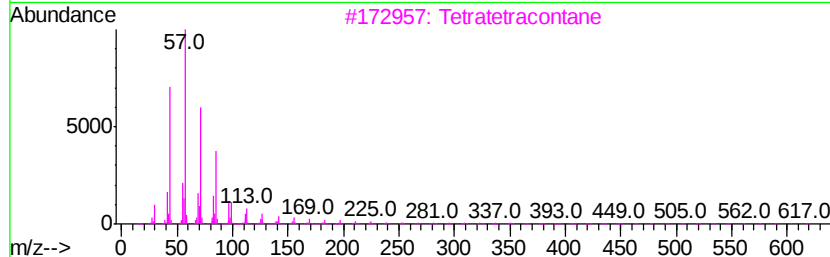
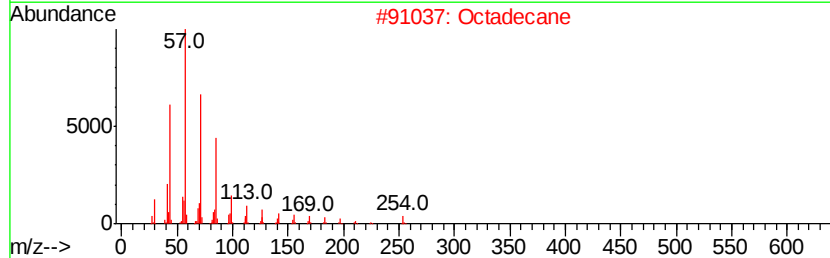
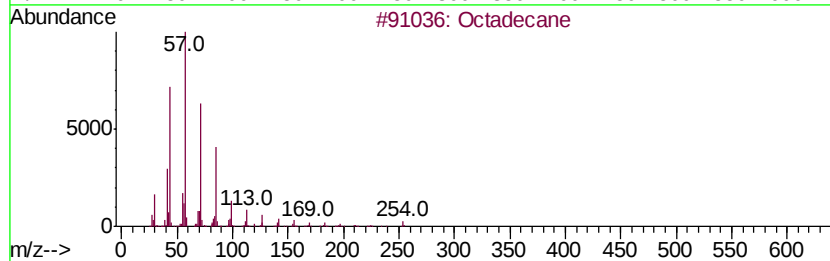
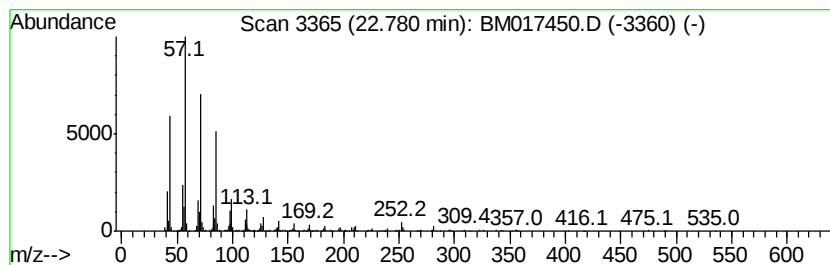
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 22.78 | 5.00 ng/ul | 1082840 | Perylene-d12     | 23.44 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane           | 254 | C18H38  | 000593-45-3 | 93   |
| 2    |    |   | Octadecane           | 254 | C18H38  | 000593-45-3 | 91   |
| 3    |    |   | Tetratetracontane    | 619 | C44H90  | 007098-22-8 | 90   |
| 4    |    |   | Triacontane          | 422 | C30H62  | 000638-68-6 | 90   |
| 5    |    |   | Tridecane, 6-propyl- | 226 | C16H34  | 055045-10-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

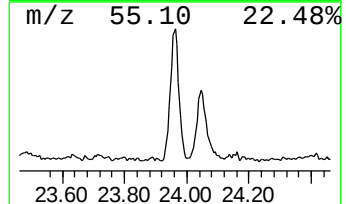
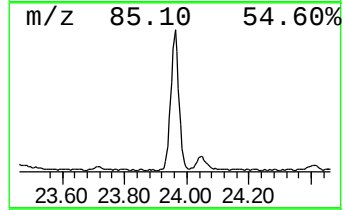
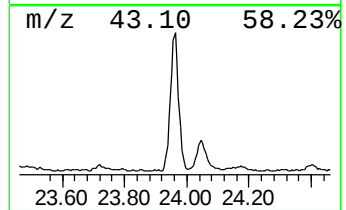
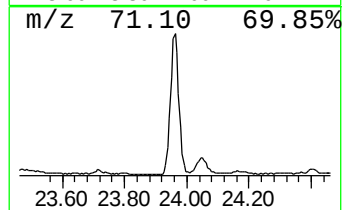
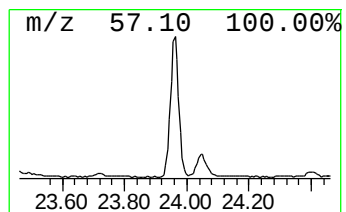
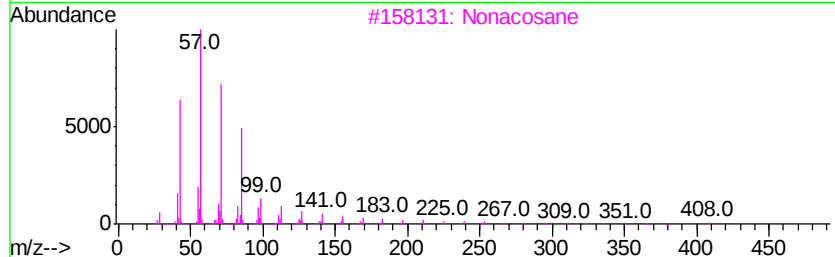
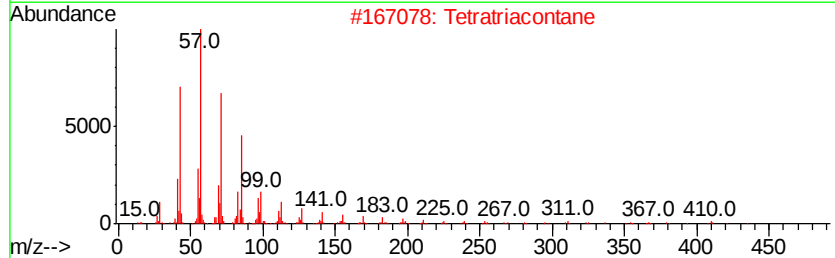
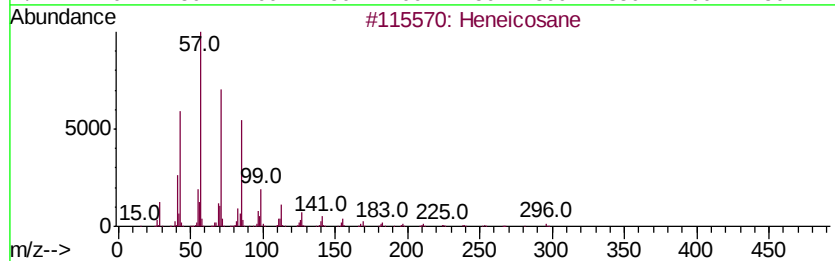
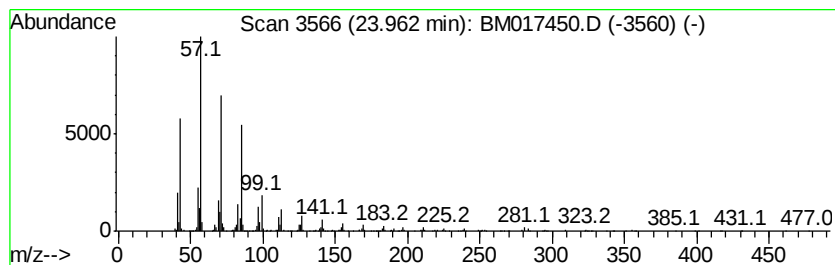
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.96 | 6.29 ng/ul | 1363390 | Perylene-d12     | 23.44 |

| Hit# | of | 5 | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------|-----|---------|-------------|------|
| 1    |    |   | Heneicosane      | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    |   | Tetratriacontane | 479 | C34H70  | 014167-59-0 | 90   |
| 3    |    |   | Nonacosane       | 408 | C29H60  | 000630-03-5 | 90   |
| 4    |    |   | Octacosane       | 394 | C28H58  | 000630-02-4 | 90   |
| 5    |    |   | Octadecane       | 254 | C18H38  | 000593-45-3 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

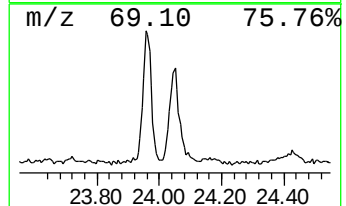
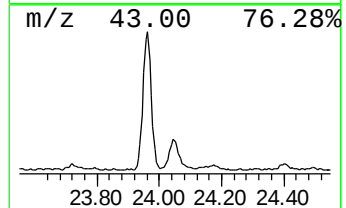
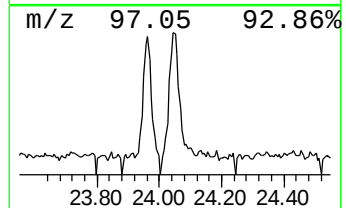
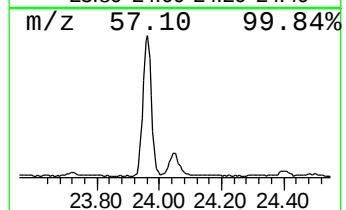
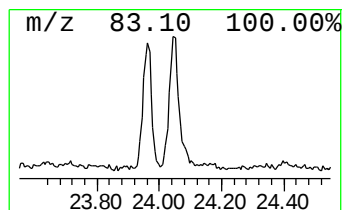
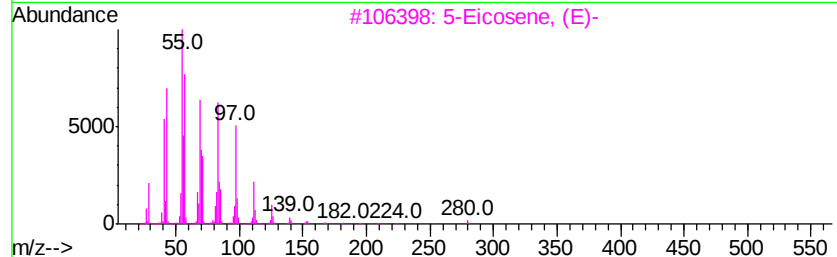
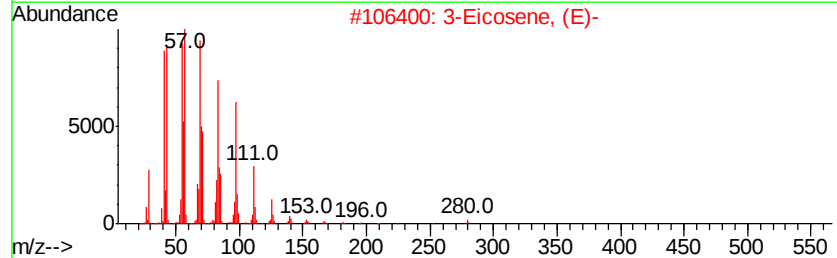
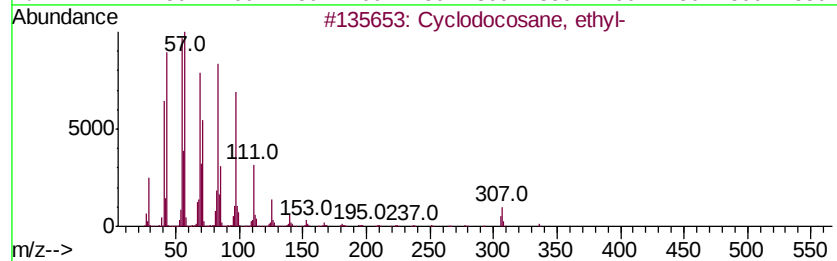
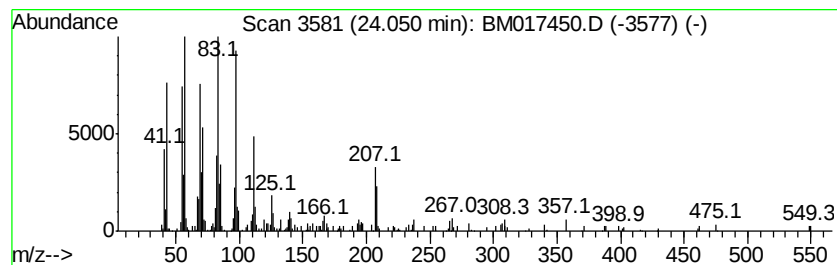
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 (DEL) Alkane: Cyclic24.05 Concentration Rank 22

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.05 | 2.16 ng/ul | 468264 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------|-----|---------|--------------|------|
| 1    | 5  | Cyclodocosane, ethyl-          | 336 | C24H48  | 1000151-22-6 | 87   |
| 2    |    | 3-Eicosene, (E)-               | 280 | C20H40  | 074685-33-9  | 78   |
| 3    |    | 5-Eicosene, (E)-               | 280 | C20H40  | 074685-30-6  | 78   |
| 4    |    | 1-Nonadecene                   | 266 | C19H38  | 018435-45-5  | 74   |
| 5    |    | Cyclopentane, 1,1,3-trimethyl- | 112 | C8H16   | 004516-69-2  | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

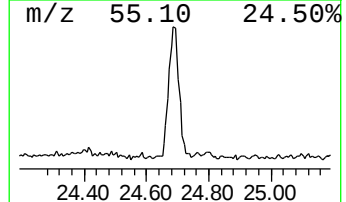
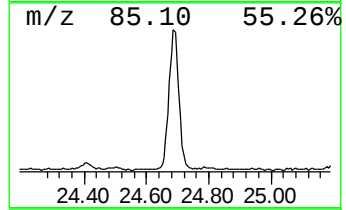
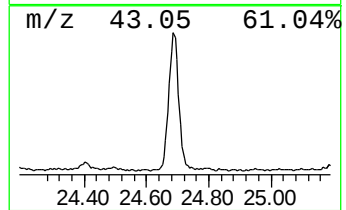
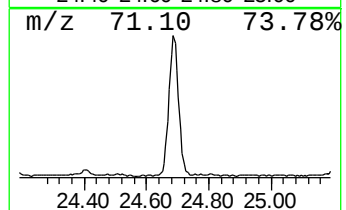
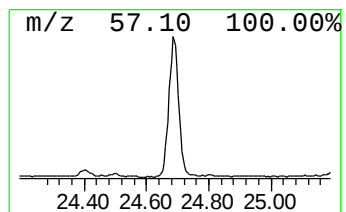
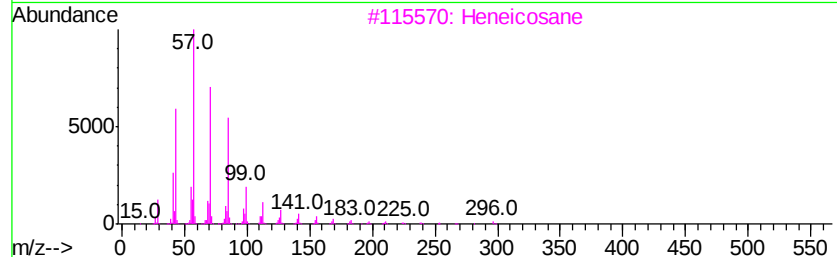
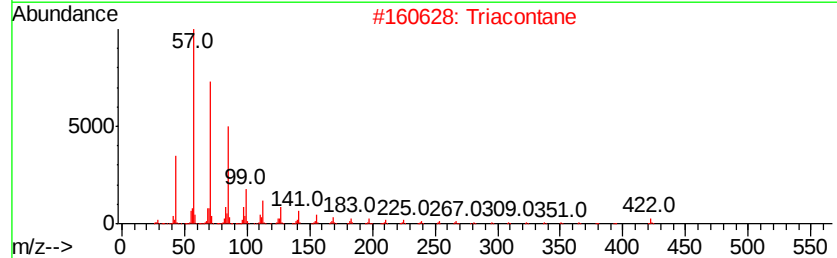
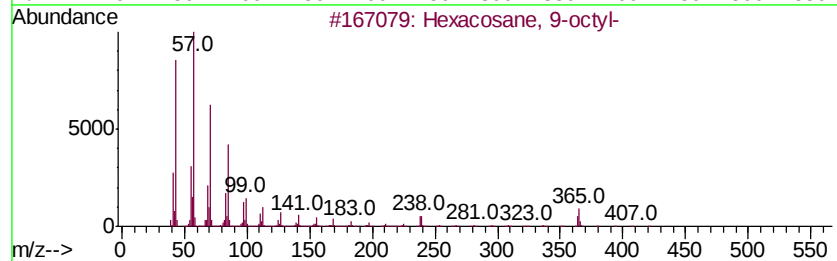
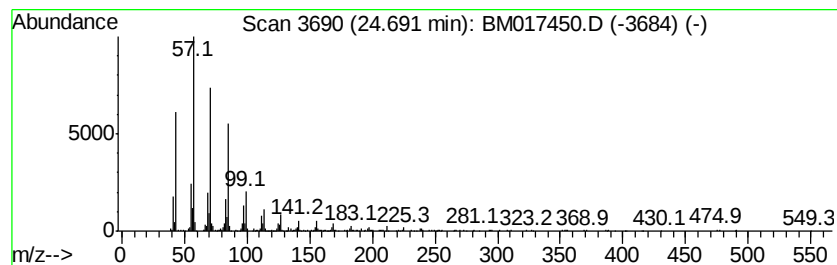
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 24.69 | 6.10 ng/ul | 1323080 | Perylene-d12     | 23.44 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexacosane, 9-octyl-   | 479 | C34H70  | 055429-83-9 | 91   |
| 2    |    |   | Triacontane            | 422 | C30H62  | 000638-68-6 | 91   |
| 3    |    |   | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    |   | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 87   |
| 5    |    |   | Octacosane             | 394 | C28H58  | 000630-02-4 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103118\  
Data File : BM017450.D  
Acq On : 01 Nov 2018 03:33  
Operator : MJ/SJ  
Sample : J5635-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

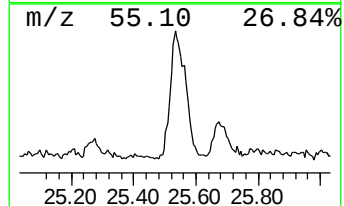
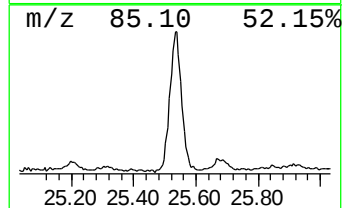
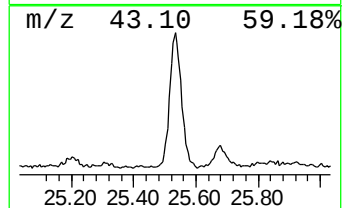
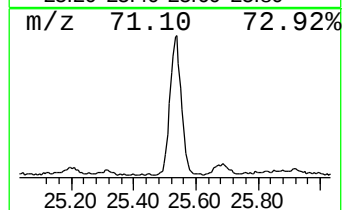
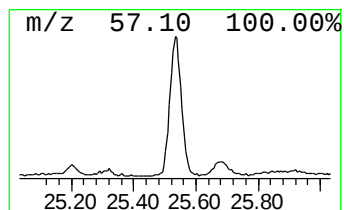
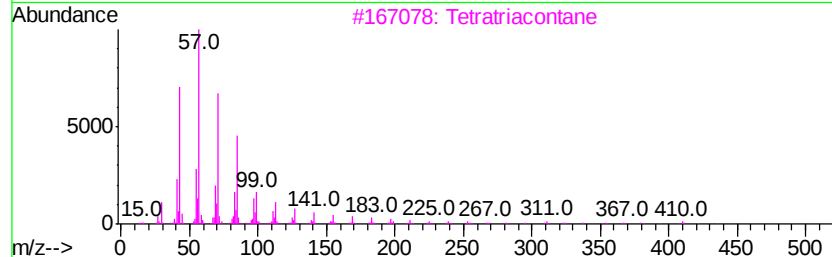
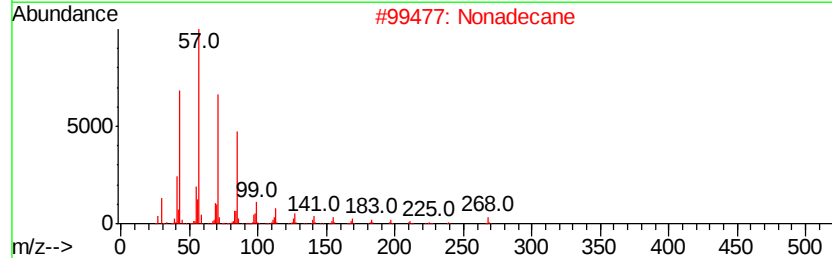
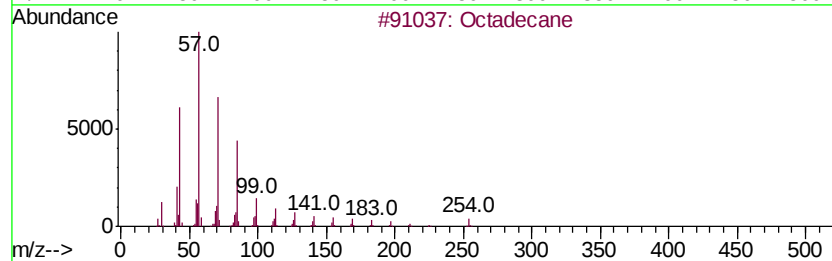
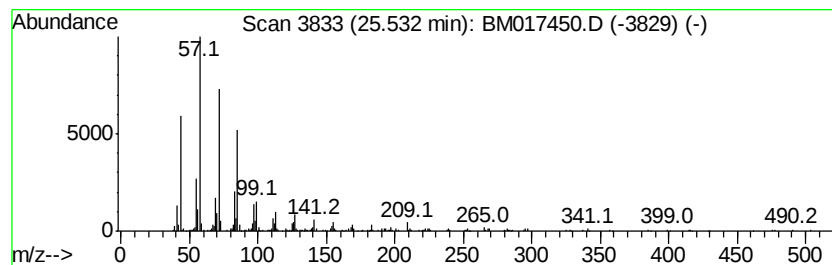
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 25.53 | 5.04 ng/ul | 1093090 | Perylene-d12     | 23.44 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane        | 254 | C18H38  | 000593-45-3 | 95   |
| 2    |    |   | Nonadecane        | 268 | C19H40  | 000629-92-5 | 94   |
| 3    |    |   | Tetratriacontane  | 479 | C34H70  | 014167-59-0 | 91   |
| 4    |    |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 91   |
| 5    |    |   | Nonadecane        | 268 | C19H40  | 000629-92-5 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM103118\  
 Data File : BM017450.D  
 Acq On : 01 Nov 2018 03:33  
 Operator : MJ/SJ  
 Sample : J5635-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A40J6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
 Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Bicyclo[3.1.1]hep... | 6.33  | 2.5     | ng/ul | 157072   | 1                     | 7.65  | 1262280 | 20.0 |
| 2-Cyclohexen-1-one   | 7.72  | 4.9     | ng/ul | 310910   | 1                     | 7.65  | 1262280 | 20.0 |
| Cyclohexene, 1-me... | 7.86  | 22.4    | ng/ul | 1415690  | 1                     | 7.65  | 1262280 | 20.0 |
| Methyl Salicylate    | 10.47 | 2.8     | ng/ul | 287491   | 2                     | 10.42 | 2043880 | 20.0 |
| 1-Acetyl-2,3-naph... | 17.64 | 13.2    | ng/ul | 2447030  | 4                     | 17.04 | 3719100 | 20.0 |
| n-Hexadecanoic acid  | 17.94 | 7.8     | ng/ul | 1448620  | 4                     | 17.04 | 3719100 | 20.0 |
| Silane, trimethyl... | 18.86 | 2.9     | ng/ul | 542329   | 4                     | 17.04 | 3719100 | 20.0 |
| unknown-01           | 18.94 | 3.2     | ng/ul | 587798   | 4                     | 17.04 | 3719100 | 20.0 |
| unknown-02           | 19.00 | 3.1     | ng/ul | 582755   | 4                     | 17.04 | 3719100 | 20.0 |
| Octadecanoic acid    | 19.23 | 2.6     | ng/ul | 616941   | 5                     | 21.23 | 4695820 | 20.0 |
| unknown-03           | 20.63 | 4.9     | ng/ul | 1140190  | 5                     | 21.23 | 4695820 | 20.0 |
| unknown-04           | 20.74 | 9.3     | ng/ul | 2174140  | 5                     | 21.23 | 4695820 | 20.0 |
| unknown-05           | 20.82 | 2.8     | ng/ul | 647995   | 5                     | 21.23 | 4695820 | 20.0 |
| (DEL) Alkane: Cyc... | 20.96 | 6.3     | ng/ul | 1481330  | 5                     | 21.23 | 4695820 | 20.0 |
| unknown-06           | 21.59 | 7.7     | ng/ul | 1815930  | 5                     | 21.23 | 4695820 | 20.0 |
| (DEL) Alkane: Str... | 21.83 | 2.4     | ng/ul | 551151   | 5                     | 21.23 | 4695820 | 20.0 |
| (DEL) Alkane: Str... | 22.28 | 3.5     | ng/ul | 833151   | 5                     | 21.23 | 4695820 | 20.0 |
| (DEL) Alkane: Str... | 22.78 | 5.0     | ng/ul | 1082840  | 6                     | 23.44 | 4334820 | 20.0 |
| (DEL) Alkane: Str... | 23.96 | 6.3     | ng/ul | 1363390  | 6                     | 23.44 | 4334820 | 20.0 |
| (DEL) Alkane: Cyc... | 24.05 | 2.2     | ng/ul | 468264   | 6                     | 23.44 | 4334820 | 20.0 |
| (DEL) Alkane: Str... | 24.69 | 6.1     | ng/ul | 1323080  | 6                     | 23.44 | 4334820 | 20.0 |
| (DEL) Alkane: Str... | 25.53 | 5.0     | ng/ul | 1093090  | 6                     | 23.44 | 4334820 | 20.0 |