

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
 Data File : BM001136.D  
 Acq On : 28 Apr 2015 19:57  
 Operator : TP/IZ  
 Sample : G1998-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1Q42

## 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:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.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         | 2.728       | 3             | 7           | 14           | rVV      | 445521         | 547912        | 5.82%           | 0.366%        |
| 2         | 2.781       | 14            | 16          | 28           | rVB      | 29833          | 51155         | 0.54%           | 0.034%        |
| 3         | 2.993       | 48            | 52          | 60           | rVB      | 39511          | 55783         | 0.59%           | 0.037%        |
| 4         | 3.734       | 173           | 178         | 184          | rVB      | 27669          | 37376         | 0.40%           | 0.025%        |
| 5         | 4.057       | 229           | 233         | 241          | rBV      | 67654          | 91965         | 0.98%           | 0.061%        |
| 6         | 4.657       | 329           | 335         | 344          | rVB      | 175956         | 251455        | 2.67%           | 0.168%        |
| 7         | 4.845       | 360           | 367         | 377          | rBV      | 38197          | 68407         | 0.73%           | 0.046%        |
| 8         | 6.722       | 679           | 686         | 687          | rBV      | 753891         | 957795        | 10.18%          | 0.640%        |
| 9         | 6.745       | 687           | 690         | 701          | rVB      | 1130490        | 1782573       | 18.94%          | 1.191%        |
| 10        | 6.881       | 707           | 713         | 722          | rVB      | 512309         | 779354        | 8.28%           | 0.521%        |
| 11        | 7.069       | 739           | 745         | 755          | rBV      | 707019         | 1091769       | 11.60%          | 0.729%        |
| 12        | 7.163       | 757           | 761         | 771          | rVB2     | 36377          | 56957         | 0.61%           | 0.038%        |
| 13        | 7.534       | 814           | 824         | 831          | rBV      | 637189         | 1032158       | 10.97%          | 0.690%        |
| 14        | 8.257       | 941           | 947         | 960          | rVB      | 862864         | 1329628       | 14.13%          | 0.888%        |
| 15        | 8.692       | 1015          | 1021        | 1025         | rBV      | 640975         | 1067531       | 11.34%          | 0.713%        |
| 16        | 8.733       | 1025          | 1028        | 1040         | rVB      | 873307         | 1371559       | 14.57%          | 0.916%        |
| 17        | 9.257       | 1109          | 1117        | 1129         | rBV      | 1596836        | 2479068       | 26.34%          | 1.656%        |
| 18        | 9.416       | 1137          | 1144        | 1157         | rBV      | 532413         | 890287        | 9.46%           | 0.595%        |
| 19        | 9.569       | 1164          | 1170        | 1176         | rBV2     | 30047          | 46868         | 0.50%           | 0.031%        |
| 20        | 9.975       | 1228          | 1239        | 1250         | rBV2     | 2118317        | 4651781       | 49.43%          | 3.108%        |
| 21        | 10.322      | 1289          | 1298        | 1302         | rBV      | 943225         | 1749860       | 18.59%          | 1.169%        |
| 22        | 10.369      | 1302          | 1306        | 1315         | rVV      | 2239607        | 3728147       | 39.62%          | 2.490%        |
| 23        | 10.469      | 1316          | 1323        | 1336         | rVB      | 708733         | 1228947       | 13.06%          | 0.821%        |
| 24        | 11.227      | 1444          | 1452        | 1467         | rBV      | 73645          | 184684        | 1.96%           | 0.123%        |
| 25        | 11.651      | 1519          | 1524        | 1533         | rVB      | 72325          | 113191        | 1.20%           | 0.076%        |
| 26        | 11.863      | 1556          | 1560        | 1566         | rVB3     | 21156          | 34524         | 0.37%           | 0.023%        |
| 27        | 12.627      | 1683          | 1690        | 1703         | rBV      | 2181788        | 3286588       | 34.92%          | 2.196%        |
| 28        | 12.804      | 1715          | 1720        | 1726         | rBV2     | 28063          | 45349         | 0.48%           | 0.030%        |
| 29        | 12.939      | 1736          | 1743        | 1748         | rBV3     | 26617          | 41210         | 0.44%           | 0.028%        |
| 30        | 13.027      | 1753          | 1758        | 1760         | rVV      | 270917         | 360754        | 3.83%           | 0.241%        |
| 31        | 13.068      | 1760          | 1765        | 1778         | rVB      | 2933470        | 4525545       | 48.09%          | 3.023%        |
| 32        | 13.621      | 1853          | 1859        | 1863         | rBV      | 1643599        | 2151834       | 22.87%          | 1.437%        |
| 33        | 13.668      | 1863          | 1867        | 1874         | rVB      | 221674         | 301087        | 3.20%           | 0.201%        |
| 34        | 13.892      | 1896          | 1905        | 1917         | rBV      | 1726029        | 2552124       | 27.12%          | 1.705%        |

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Filtering: 5  
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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:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 14.115 | 1936 | 1943 | 1948 | rVB2  | 28104   | 37822   | 0.40%  | 0.025% |
| 36 | 14.210 | 1951 | 1959 | 1968 | rVB2  | 1193618 | 1872756 | 19.90% | 1.251% |
| 37 | 14.427 | 1989 | 1996 | 2003 | rBV   | 816771  | 1239002 | 13.17% | 0.828% |
| 38 | 14.480 | 2003 | 2005 | 2010 | rVV2  | 42054   | 58305   | 0.62%  | 0.039% |
| 39 | 14.539 | 2010 | 2015 | 2024 | rVB10 | 15583   | 47408   | 0.50%  | 0.032% |
| 40 | 14.615 | 2024 | 2028 | 2031 | rBV   | 37785   | 49611   | 0.53%  | 0.033% |
| 41 | 14.992 | 2087 | 2092 | 2095 | rBV   | 153478  | 207095  | 2.20%  | 0.138% |
| 42 | 15.045 | 2095 | 2101 | 2110 | rVB   | 3809728 | 4932833 | 52.42% | 3.295% |
| 43 | 15.204 | 2122 | 2128 | 2137 | rBV   | 2513473 | 3450494 | 36.67% | 2.305% |
| 44 | 15.339 | 2144 | 2151 | 2162 | rBV   | 898633  | 1233313 | 13.11% | 0.824% |
| 45 | 15.474 | 2166 | 2174 | 2180 | rVV   | 2676207 | 3506601 | 37.26% | 2.342% |
| 46 | 15.539 | 2182 | 2185 | 2187 | rVV   | 31686   | 44821   | 0.48%  | 0.030% |
| 47 | 15.574 | 2187 | 2191 | 2197 | rVV   | 642579  | 832502  | 8.85%  | 0.556% |
| 48 | 15.957 | 2250 | 2256 | 2260 | rBV5  | 20898   | 45003   | 0.48%  | 0.030% |
| 49 | 16.209 | 2295 | 2299 | 2303 | rVB   | 91285   | 115397  | 1.23%  | 0.077% |
| 50 | 16.268 | 2303 | 2309 | 2313 | rVV   | 2010930 | 2852732 | 30.31% | 1.906% |
| 51 | 16.298 | 2313 | 2314 | 2319 | rVV   | 347872  | 380142  | 4.04%  | 0.254% |
| 52 | 16.345 | 2319 | 2322 | 2325 | rVV4  | 80244   | 147233  | 1.56%  | 0.098% |
| 53 | 16.380 | 2325 | 2328 | 2331 | rVV2  | 119335  | 161194  | 1.71%  | 0.108% |
| 54 | 16.433 | 2331 | 2337 | 2342 | rVV   | 3077429 | 3904621 | 41.49% | 2.608% |
| 55 | 16.468 | 2342 | 2343 | 2347 | rVV4  | 49748   | 49299   | 0.52%  | 0.033% |
| 56 | 16.615 | 2364 | 2368 | 2376 | rVB9  | 16084   | 31819   | 0.34%  | 0.021% |
| 57 | 16.727 | 2384 | 2387 | 2391 | rBV2  | 40128   | 54497   | 0.58%  | 0.036% |
| 58 | 16.774 | 2391 | 2395 | 2399 | rVV   | 61033   | 89589   | 0.95%  | 0.060% |
| 59 | 16.821 | 2399 | 2403 | 2411 | rVB   | 239940  | 311467  | 3.31%  | 0.208% |
| 60 | 16.956 | 2416 | 2426 | 2429 | rBV   | 1607874 | 2449138 | 26.02% | 1.636% |
| 61 | 16.998 | 2429 | 2433 | 2438 | rVV   | 3948954 | 5168507 | 54.92% | 3.453% |
| 62 | 17.056 | 2438 | 2443 | 2455 | rVB   | 2916184 | 4085951 | 43.42% | 2.730% |
| 63 | 17.233 | 2468 | 2473 | 2485 | rVB   | 390640  | 645212  | 6.86%  | 0.431% |
| 64 | 17.368 | 2485 | 2496 | 2509 | rBV   | 5553764 | 7653490 | 81.33% | 5.113% |
| 65 | 17.862 | 2576 | 2580 | 2589 | rVV4  | 130714  | 245436  | 2.61%  | 0.164% |
| 66 | 17.933 | 2589 | 2592 | 2596 | rVB   | 26570   | 35111   | 0.37%  | 0.023% |
| 67 | 18.156 | 2626 | 2630 | 2632 | rBV4  | 25767   | 32380   | 0.34%  | 0.022% |
| 68 | 18.292 | 2650 | 2653 | 2658 | rVB3  | 42278   | 55713   | 0.59%  | 0.037% |
| 69 | 18.727 | 2721 | 2727 | 2730 | rBV   | 209180  | 300786  | 3.20%  | 0.201% |
| 70 | 19.056 | 2779 | 2783 | 2787 | rVB   | 249076  | 272296  | 2.89%  | 0.182% |
| 71 | 19.156 | 2797 | 2800 | 2810 | rVB7  | 40733   | 82840   | 0.88%  | 0.055% |

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Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 19.245 | 2811 | 2815 | 2820 | rVB2 | 46346   | 59700   | 0.63%   | 0.040% |
| 73  | 19.303 | 2822 | 2825 | 2828 | rVB3 | 34801   | 40261   | 0.43%   | 0.027% |
| 74  | 19.362 | 2829 | 2835 | 2842 | rVB  | 3606337 | 4806034 | 51.07%  | 3.211% |
| 75  | 19.892 | 2921 | 2925 | 2927 | rBV4 | 47062   | 64084   | 0.68%   | 0.043% |
| 76  | 19.921 | 2927 | 2930 | 2935 | rVB3 | 67663   | 82203   | 0.87%   | 0.055% |
| 77  | 20.097 | 2958 | 2960 | 2966 | rVB5 | 25203   | 41054   | 0.44%   | 0.027% |
| 78  | 20.250 | 2982 | 2986 | 2990 | rBV  | 228325  | 244432  | 2.60%   | 0.163% |
| 79  | 20.303 | 2990 | 2995 | 3000 | rVV  | 4316714 | 4737144 | 50.34%  | 3.165% |
| 80  | 20.350 | 3001 | 3003 | 3009 | rVB7 | 25380   | 32400   | 0.34%   | 0.022% |
| 81  | 20.809 | 3077 | 3081 | 3084 | rBV  | 36037   | 50892   | 0.54%   | 0.034% |
| 82  | 20.880 | 3088 | 3093 | 3103 | rVV  | 1389252 | 1770320 | 18.81%  | 1.183% |
| 83  | 21.080 | 3125 | 3127 | 3135 | rVB3 | 51333   | 68249   | 0.73%   | 0.046% |
| 84  | 21.162 | 3135 | 3141 | 3143 | rBV  | 2020063 | 2677992 | 28.46%  | 1.789% |
| 85  | 21.197 | 3143 | 3147 | 3157 | rVB  | 5992179 | 7048034 | 74.89%  | 4.708% |
| 86  | 21.321 | 3165 | 3168 | 3172 | rBV2 | 47647   | 60328   | 0.64%   | 0.040% |
| 87  | 21.738 | 3236 | 3239 | 3241 | rBV2 | 77776   | 102348  | 1.09%   | 0.068% |
| 88  | 21.944 | 3268 | 3274 | 3279 | rBV  | 7678652 | 8991955 | 95.55%  | 6.007% |
| 89  | 21.991 | 3279 | 3282 | 3288 | rVB  | 135562  | 186793  | 1.98%   | 0.125% |
| 90  | 22.180 | 3311 | 3314 | 3321 | rBV3 | 81422   | 124912  | 1.33%   | 0.083% |
| 91  | 22.680 | 3392 | 3399 | 3403 | rBV  | 5599121 | 9410745 | 100.00% | 6.287% |
| 92  | 22.721 | 3403 | 3406 | 3414 | rVB  | 4185310 | 6168642 | 65.55%  | 4.121% |
| 93  | 23.109 | 3467 | 3472 | 3477 | rVB  | 194825  | 294776  | 3.13%   | 0.197% |
| 94  | 23.185 | 3478 | 3485 | 3494 | rVV2 | 2920160 | 5119936 | 54.41%  | 3.420% |
| 95  | 23.321 | 3501 | 3508 | 3515 | rBV  | 1552752 | 2676796 | 28.44%  | 1.788% |
| 96  | 23.815 | 3587 | 3592 | 3599 | rVB2 | 182376  | 337207  | 3.58%   | 0.225% |
| 97  | 23.903 | 3601 | 3607 | 3616 | rVV2 | 193140  | 405004  | 4.30%   | 0.271% |
| 98  | 24.515 | 3706 | 3711 | 3719 | rBV2 | 133217  | 280118  | 2.98%   | 0.187% |
| 99  | 25.338 | 3846 | 3851 | 3860 | rVB3 | 103699  | 256416  | 2.72%   | 0.171% |
| 100 | 26.144 | 3975 | 3988 | 3998 | rBV  | 2726620 | 7928531 | 84.25%  | 5.296% |

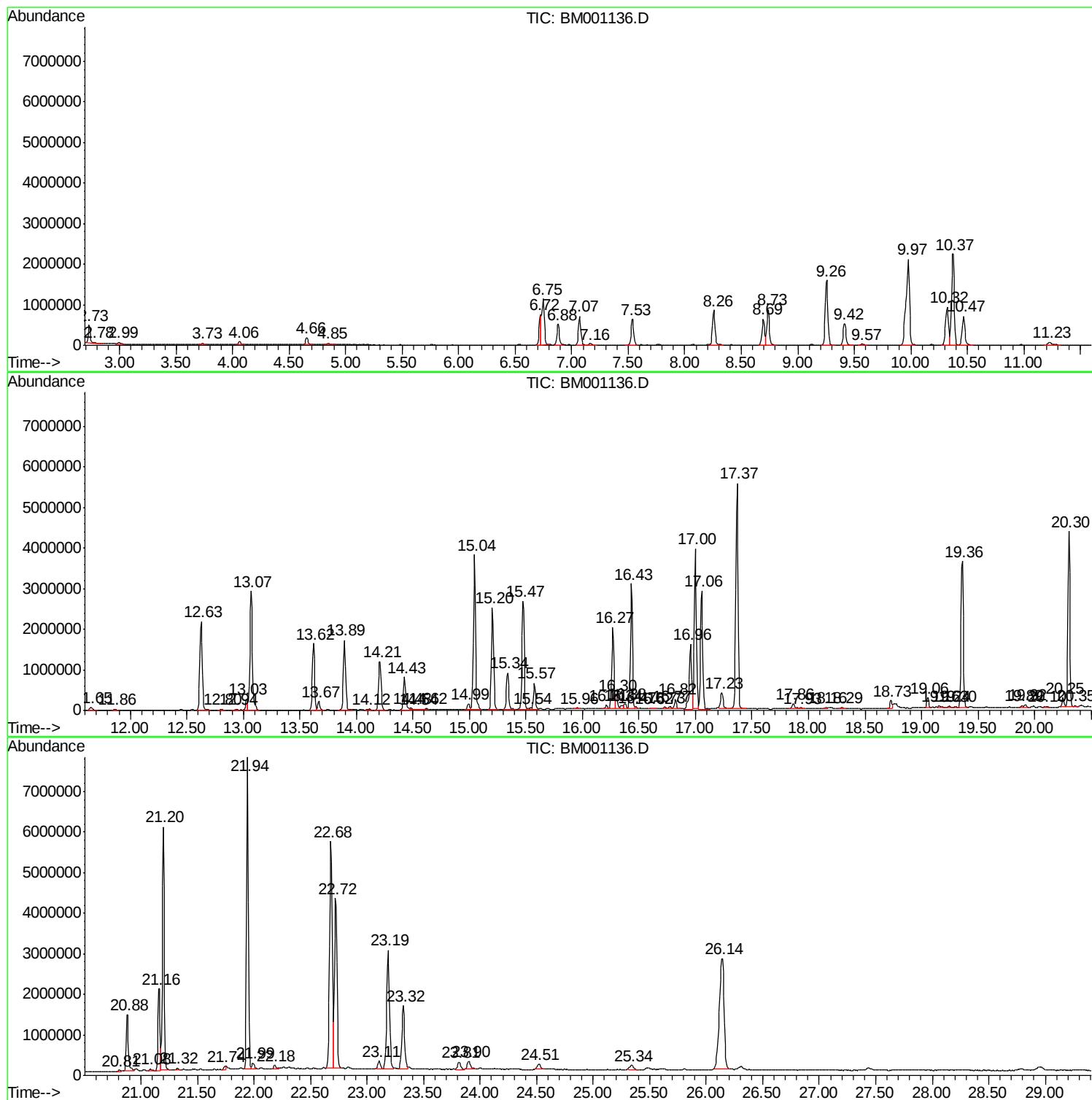
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

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



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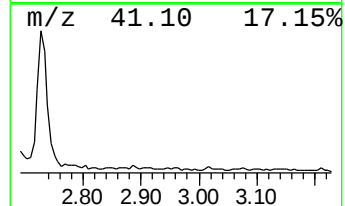
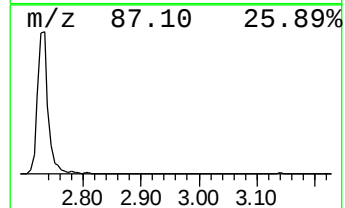
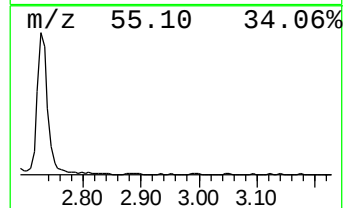
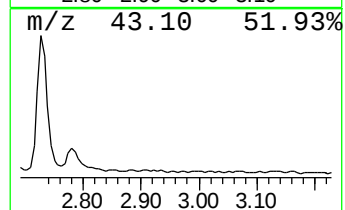
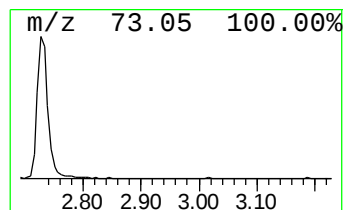
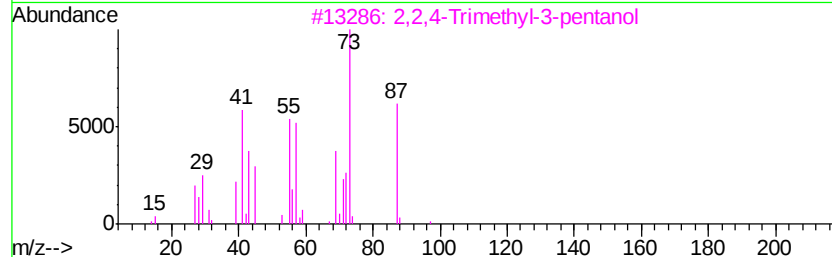
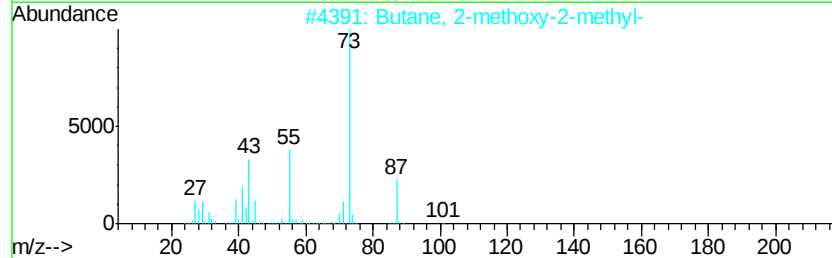
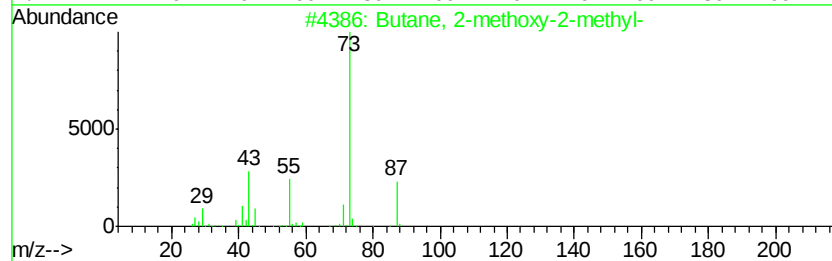
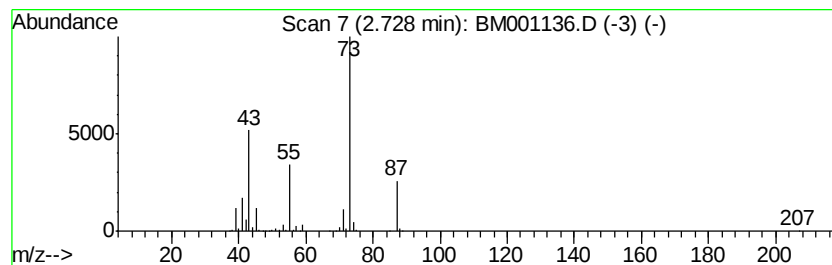
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 2.73 | 10.62 ng/ul | 547912 | 1,4-Dichlorobenzene-d4 | 7.54 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 3    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 40   |
| 4    |    | 2-Methyl-5-hexen-3-ol       | 114 | C7H14O  | 032815-70-6 | 37   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 35   |



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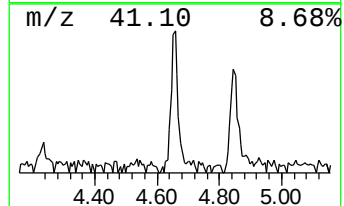
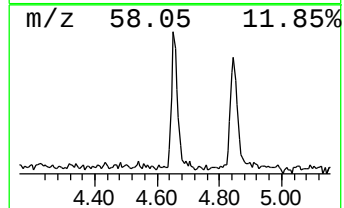
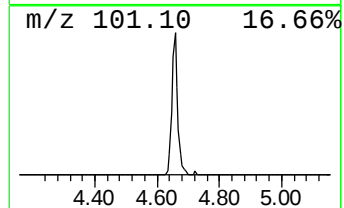
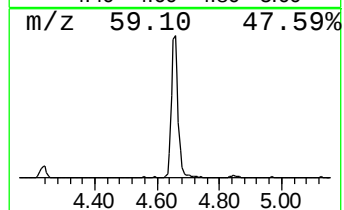
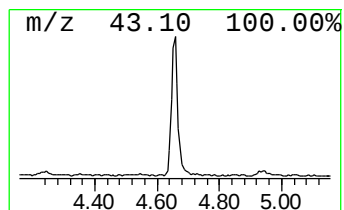
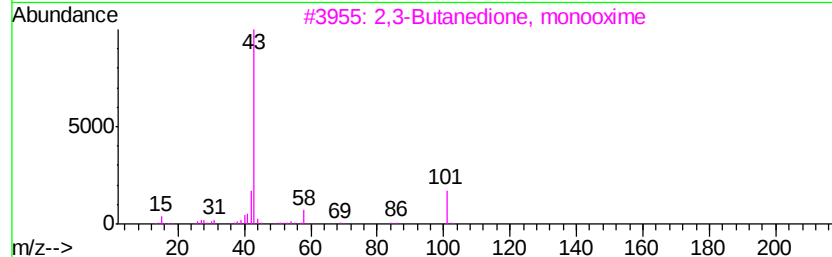
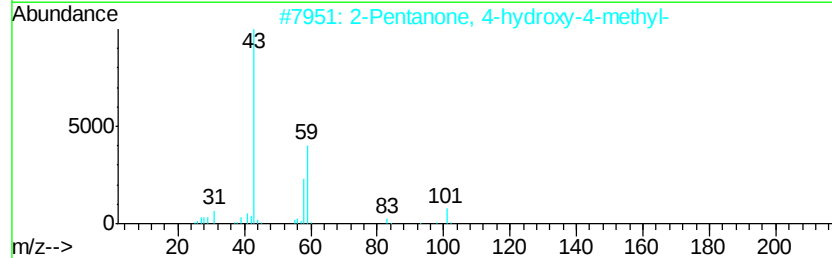
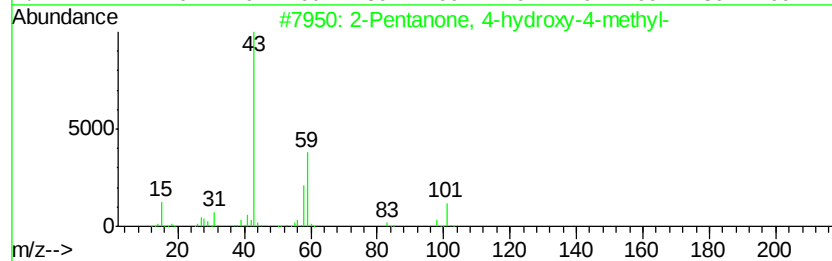
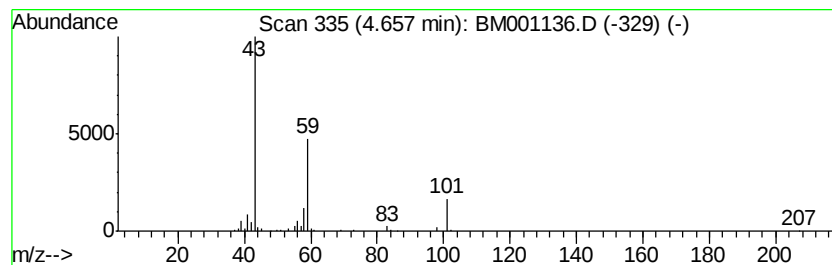
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 4.66 | 4.87 ng/ul | 251455 | 1,4-Dichlorobenzene-d4 | 7.54 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50   |
| 2    |    | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 45   |
| 3    |    | 2,3-Butanedione, monooxime       | 101 | C4H7NO2 | 000057-71-6 | 16   |
| 4    |    | 4-Penten-2-one, 4-methyl-        | 98  | C6H10O  | 003744-02-3 | 14   |
| 5    |    | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 10   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

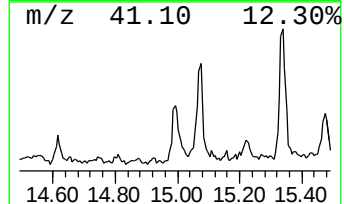
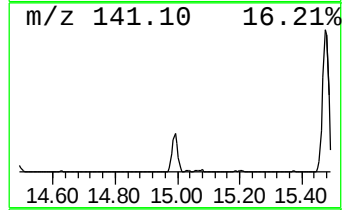
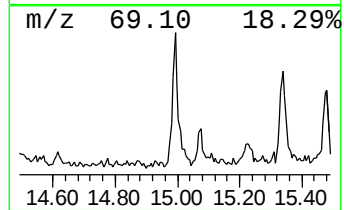
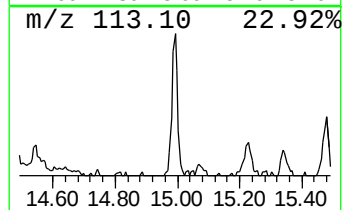
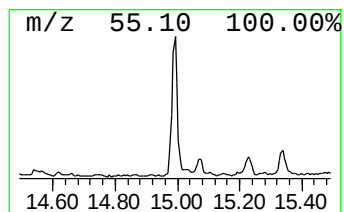
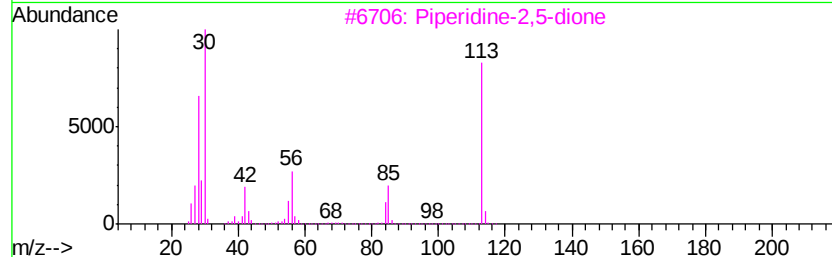
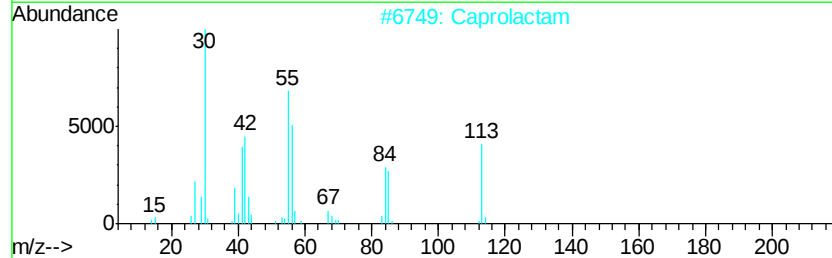
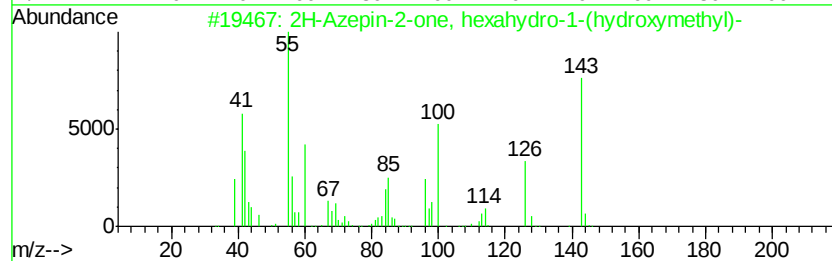
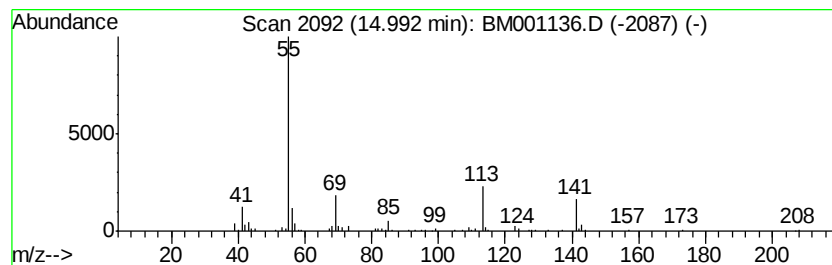
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ClientSampleId :  
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Quant Title : SVOA CALIBRATION

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

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Peak Number 3 unknown-01 Concentration Rank 11

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 14.99     | 2.21 ng/ul                          | 207095 | Acenaphthene-d10 | 14.20       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 2H-Azepin-2-one, hexahydro-1-(hy... | 143    | C7H13N02         | 013088-64-7 | 9    |
| 2         | Caprolactam                         | 113    | C6H11NO          | 000105-60-2 | 9    |
| 3         | Piperidine-2,5-dione                | 113    | C5H7N02          | 052065-78-8 | 9    |
| 4         | 1-Piperidinecarboxylic acid, 4-o... | 171    | C8H13NO3         | 029976-53-2 | 9    |
| 5         | 2-Propenoic acid, chloromethyl e... | 120    | C4H5ClO2         | 027550-72-7 | 9    |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

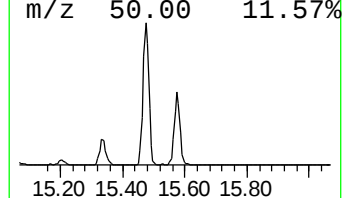
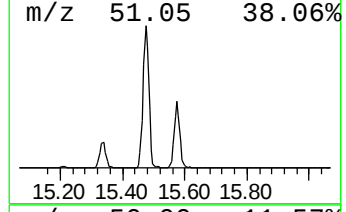
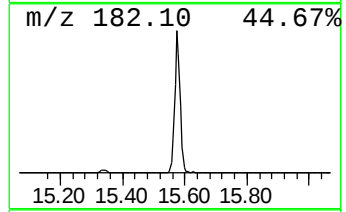
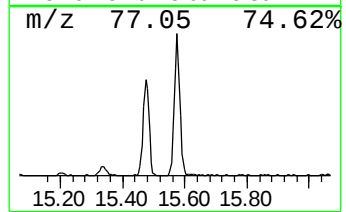
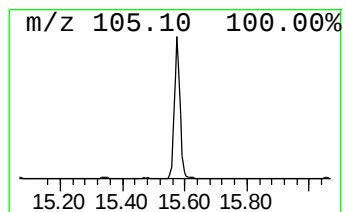
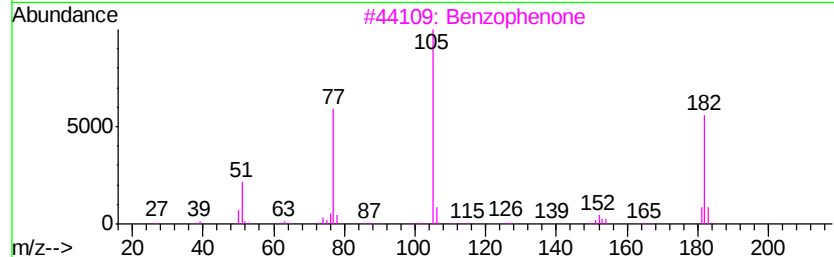
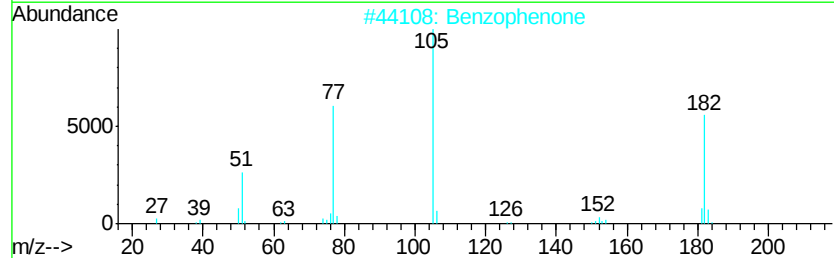
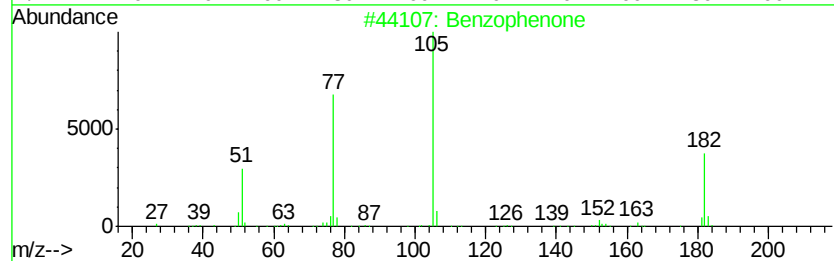
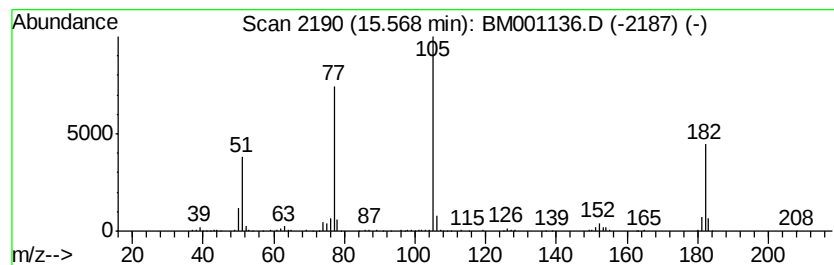
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzophenone Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.57 | 8.89 ng/ul | 832502 | Acenaphthene-d10 | 14.20 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Benzophenone | 182 | C13H10O | 000119-61-9 | 97   |
| 2    |    |   | Benzophenone | 182 | C13H10O | 000119-61-9 | 96   |
| 3    |    |   | Benzophenone | 182 | C13H10O | 000119-61-9 | 95   |
| 4    |    |   | Benzophenone | 182 | C13H10O | 000119-61-9 | 94   |
| 5    |    |   | Benzophenone | 182 | C13H10O | 000119-61-9 | 94   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

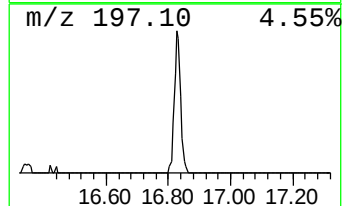
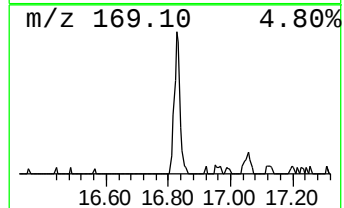
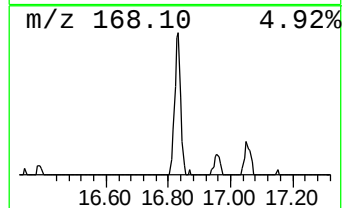
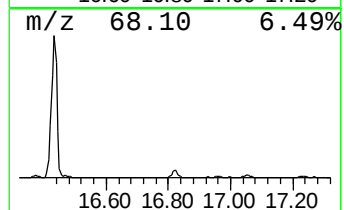
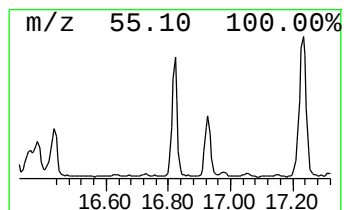
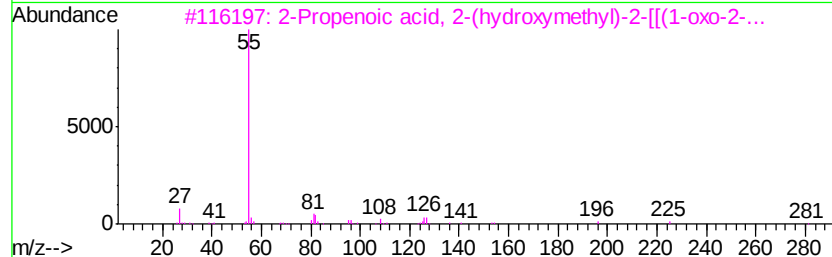
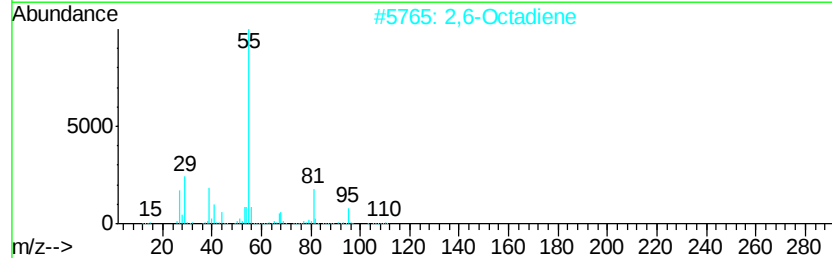
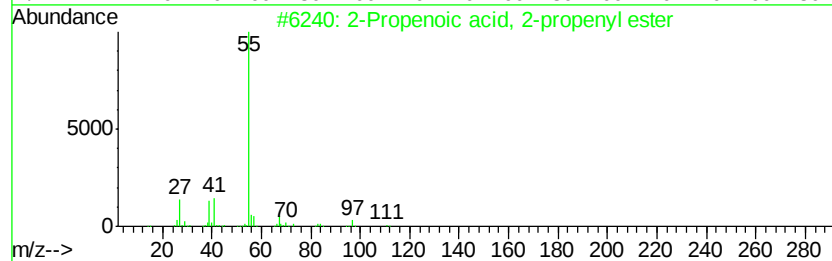
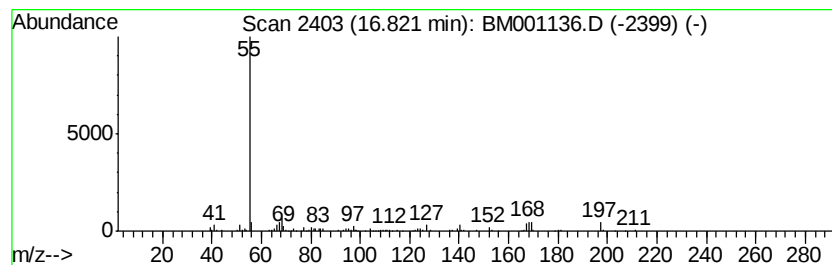
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 unknown-02 Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.82 | 2.54 ng/ul | 311467 | Phenanthrene-d10 | 16.96 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2-Propenoic acid, 2-propenyl ester  | 112 | C6H8O2       | 000999-55-3 | 12      |      |      |
| 2    | 2,6-Octadiene                       | 110 | C8H14        | 004974-27-0 | 10      |      |      |
| 3    | 2-Propenoic acid, 2-(hydroxymeth... | 298 | C14H18O7     | 003524-68-3 | 10      |      |      |
| 4    | Cyclohexane, 1-methyl-3-(1-methy... | 140 | C10H20       | 016580-24-8 | 9       |      |      |
| 5    | 1-Pentyn-3-ol                       | 84  | C5H8O        | 004187-86-4 | 9       |      |      |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

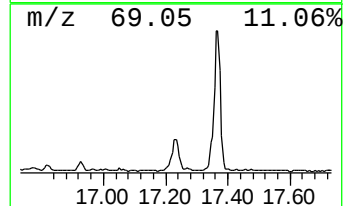
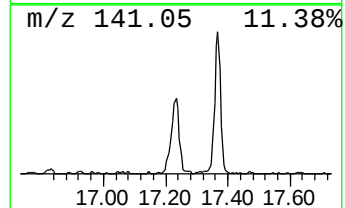
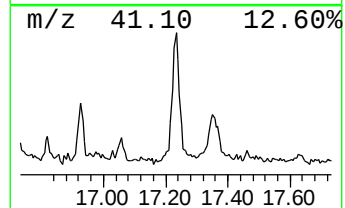
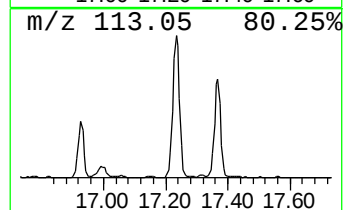
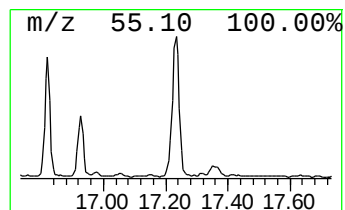
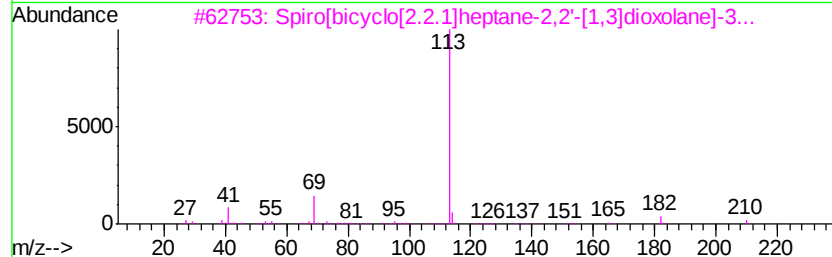
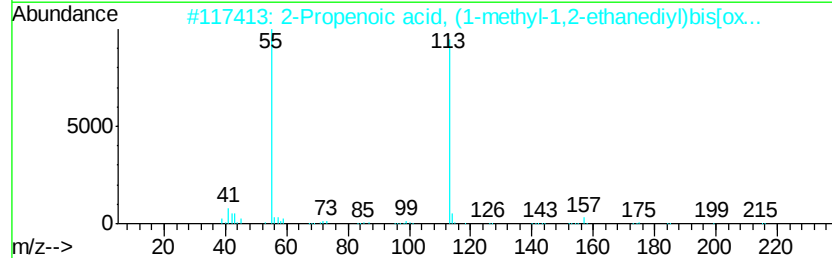
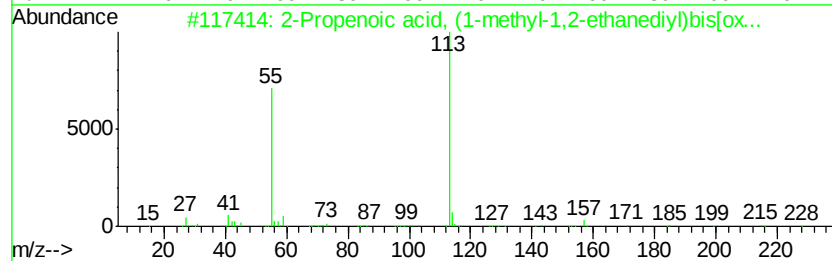
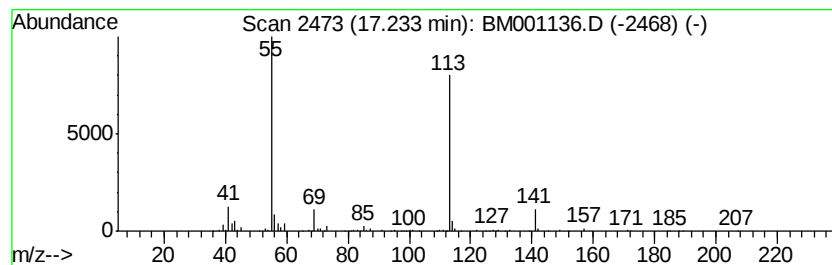
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 6 unknown-03 Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 17.23     | 5.27 ng/ul                          | 645212 | Phenanthrene-d10 |             | 16.96 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | 2-Propenoic acid, (1-methyl-1,2-... | 300    | C15H24O6         | 042978-66-5 | 45    |
| 2         | 2-Propenoic acid, (1-methyl-1,2-... | 300    | C15H24O6         | 042978-66-5 | 45    |
| 3         | Spiro[bicyclo[2.2.1]heptane-2,2'... | 210    | C12H18O3         | 018501-56-9 | 42    |
| 4         | 3,5-Heptanedione, 2,6-dimethyl-     | 156    | C9H16O2          | 018362-64-6 | 40    |
| 5         | Propanedioic acid, 2-propenyl-, ... | 172    | C8H12O4          | 040637-56-7 | 40    |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
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Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

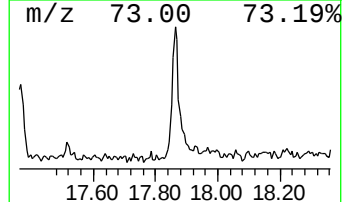
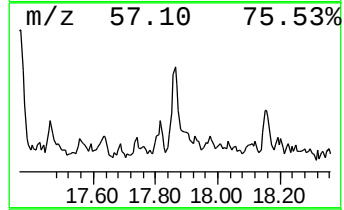
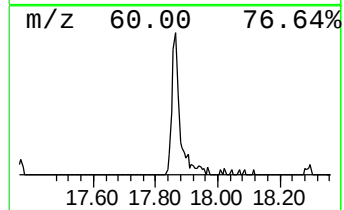
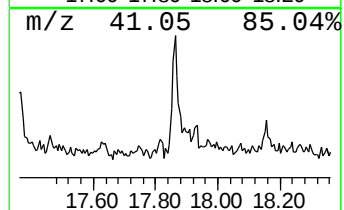
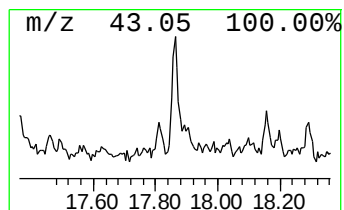
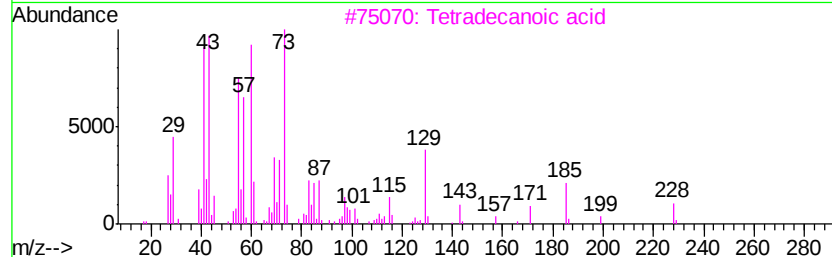
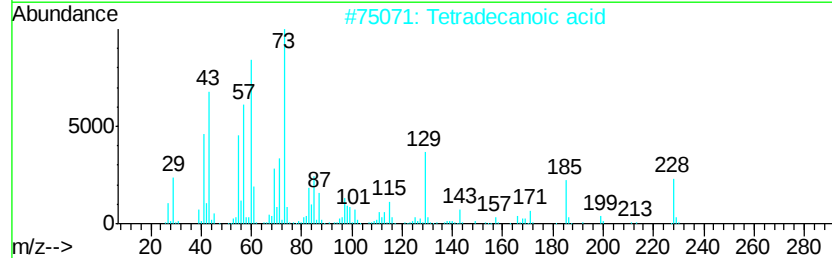
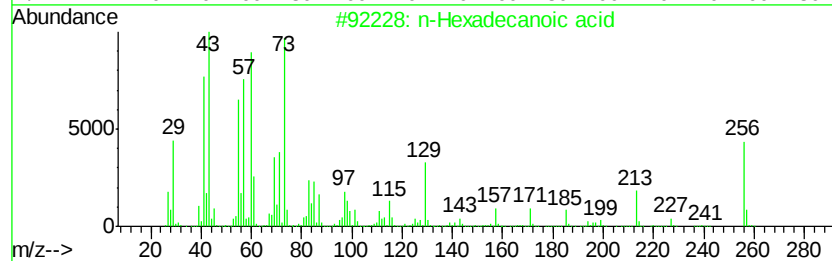
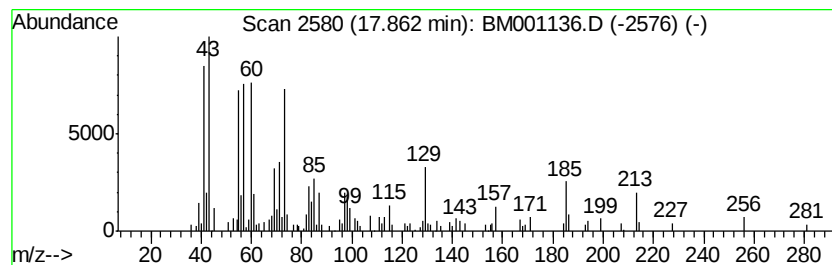
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 n-Hexadecanoic acid Concentration Rank 14

| R.T.    | EstConc    | Area                | Relative to ISTD |          | R.T.        |      |
|---------|------------|---------------------|------------------|----------|-------------|------|
| 17.86   | 2.00 ng/ul | 245436              | Phenanthrene-d10 |          | 16.96       |      |
| Hit# of | 5          | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 74   |
| 2       |            | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 64   |
| 3       |            | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 53   |
| 4       |            | n-Decanoic acid     | 172              | C10H20O2 | 000334-48-5 | 47   |
| 5       |            | Undecanoic acid     | 186              | C11H22O2 | 000112-37-8 | 47   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

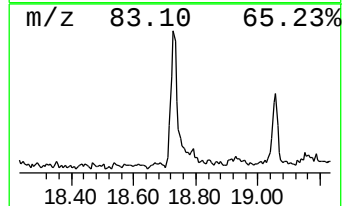
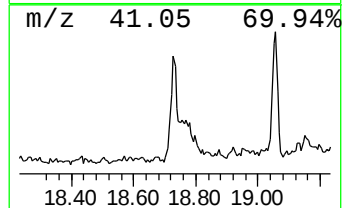
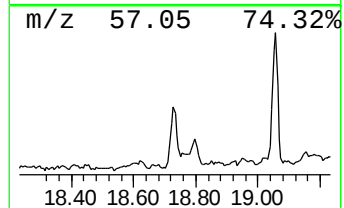
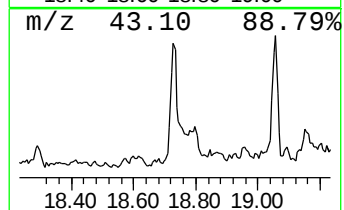
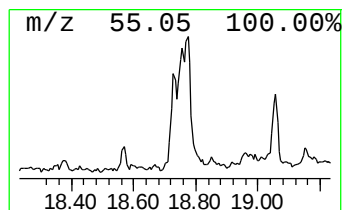
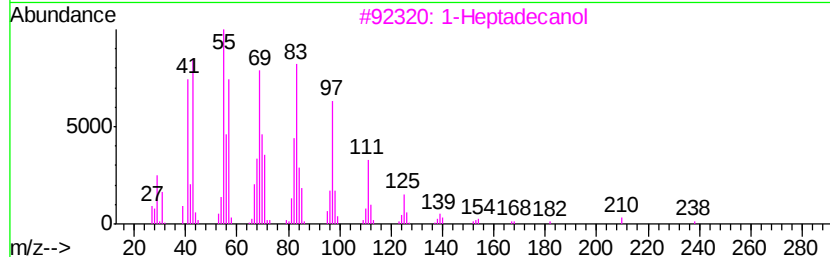
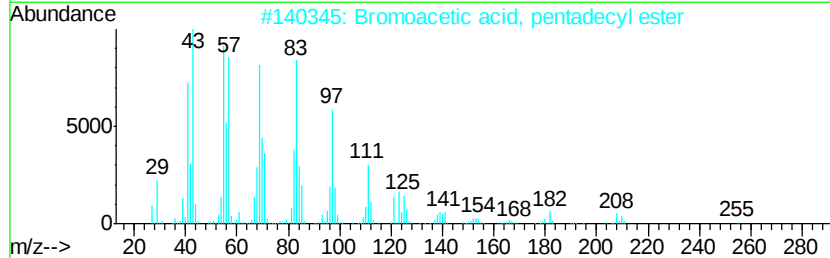
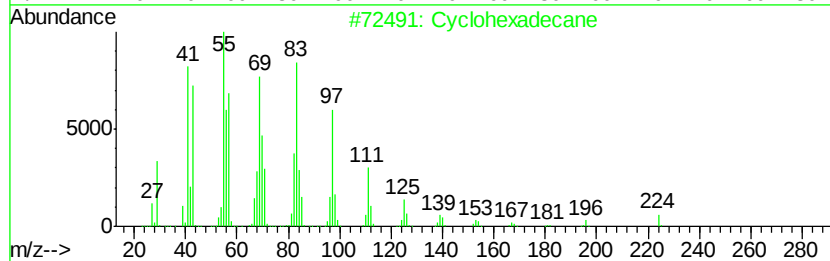
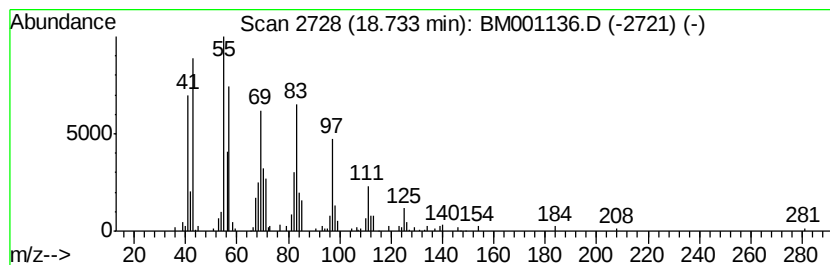
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Cyclic Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.73 | 2.46 ng/ul | 300786 | Phenanthrene-d10 | 16.96 |

| Hit# | of | Tentative ID                       | MW  | MolForm    | CAS#        | Qual |
|------|----|------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Cyclohexadecane                    | 224 | C16H32     | 000295-65-8 | 91   |
| 2    |    | Bromoacetic acid, pentadecyl ester | 348 | C17H33BrO2 | 131143-01-6 | 91   |
| 3    |    | 1-Heptadecanol                     | 256 | C17H36O    | 001454-85-9 | 90   |
| 4    |    | Cyclopentadecane                   | 210 | C15H30     | 000295-48-7 | 90   |
| 5    |    | 5-Octadecene, (E)-                 | 252 | C18H36     | 007206-21-5 | 90   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

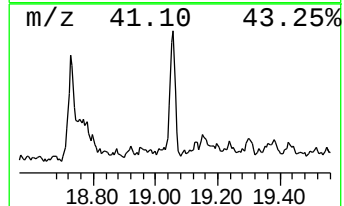
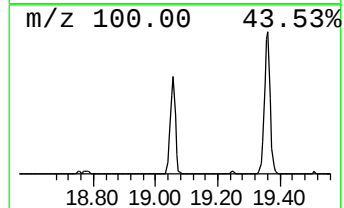
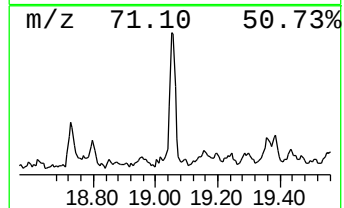
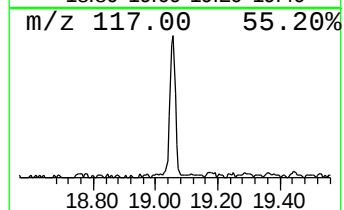
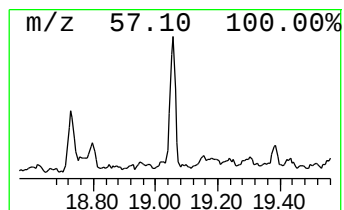
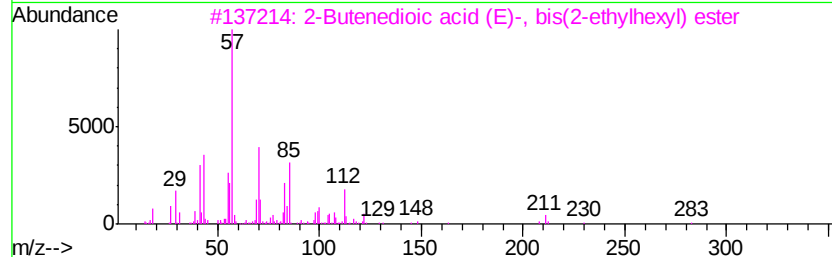
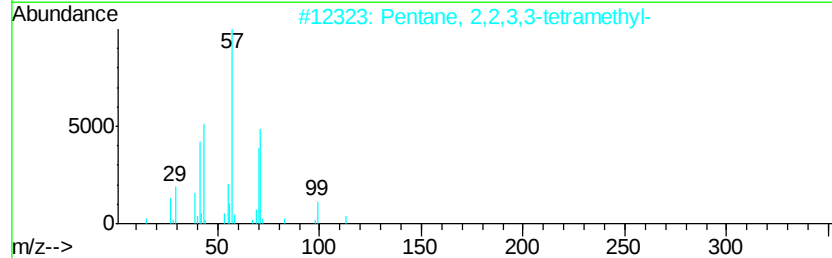
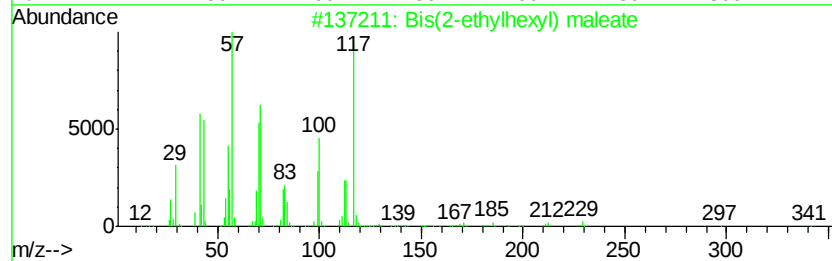
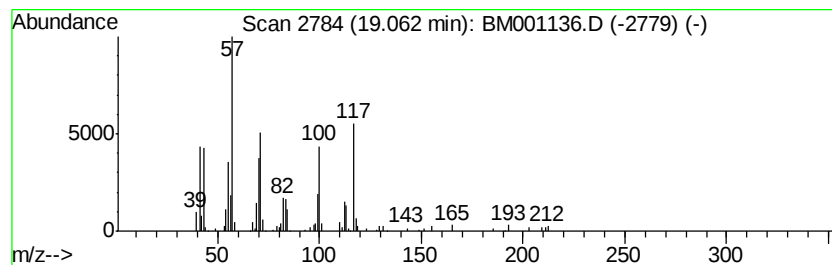
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Bis(2-ethylhexyl) maleate Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.06 | 2.22 ng/ul | 272296 | Phenanthrene-d10 | 16.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Bis(2-ethylhexyl) maleate           | 340 | C20H36O4  | 000142-16-5 | 90   |
| 2    |    | Pentane, 2,2,3,3-tetramethyl-       | 128 | C9H20     | 007154-79-2 | 35   |
| 3    |    | 2-Butenedioic acid (E)-, bis(2-e... | 340 | C20H36O4  | 000141-02-6 | 35   |
| 4    |    | dl-2-Ethylhexyl chloroformate       | 192 | C9H17ClO2 | 024468-13-1 | 27   |
| 5    |    | 2-Ethylhexyl mercaptoacetate        | 204 | C10H20O2S | 007659-86-1 | 27   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

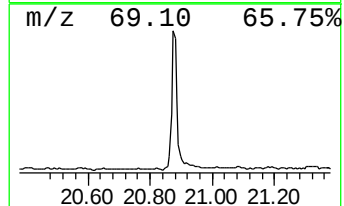
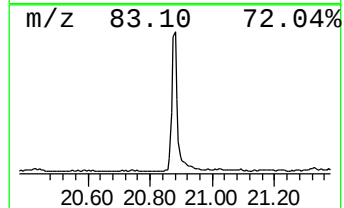
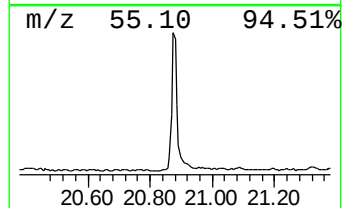
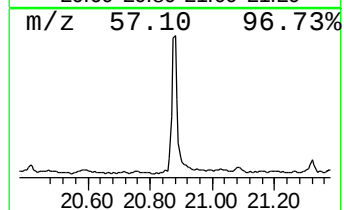
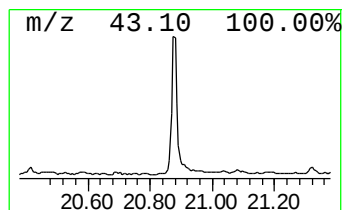
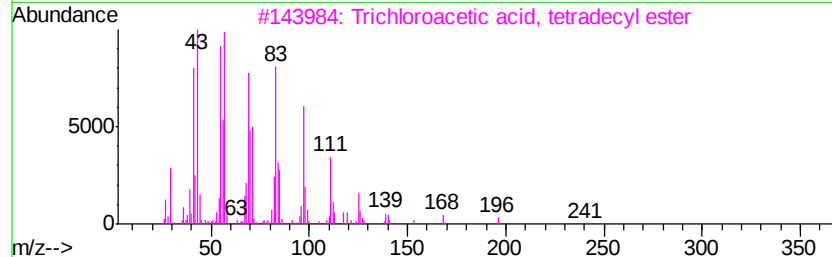
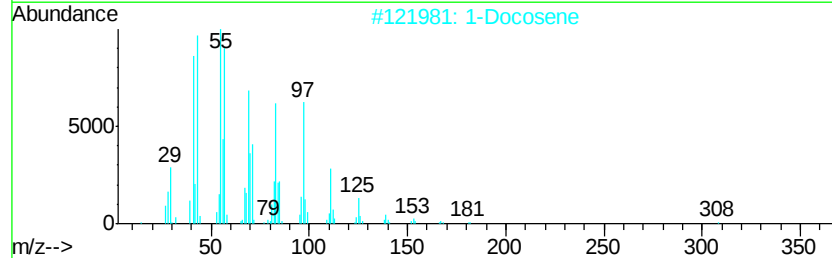
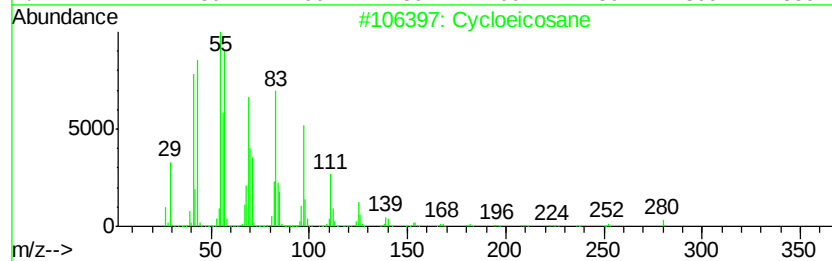
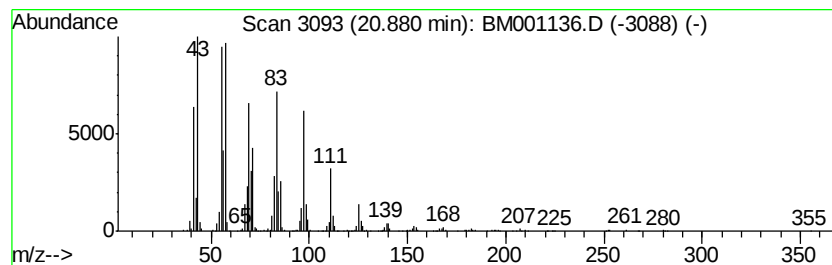
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chain Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 20.88 | 13.22 ng/ul | 1770320 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | Cycloeicosane                       | 280 | C20H40      | 000296-56-0 | 97   |
| 2    |    | 1-Docosene                          | 308 | C22H44      | 001599-67-3 | 95   |
| 3    |    | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 91   |
| 4    |    | 2-Chloropropionic acid, hexadec...  | 332 | C19H37ClO2  | 086711-81-1 | 91   |
| 5    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

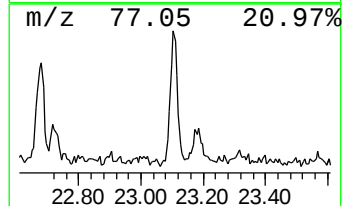
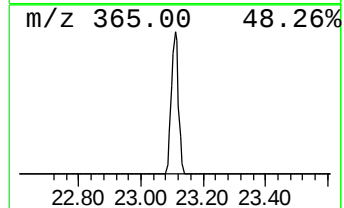
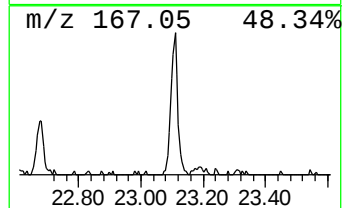
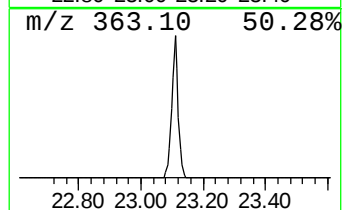
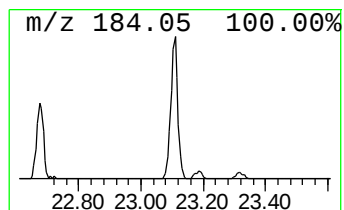
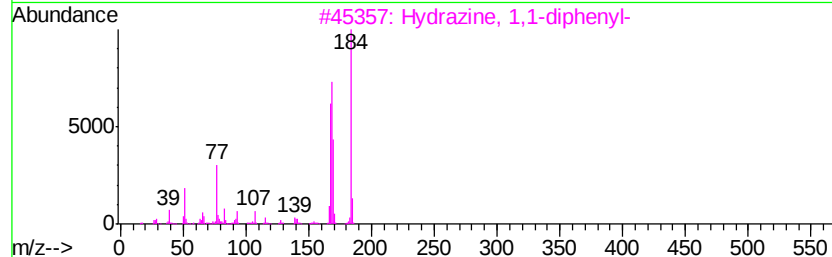
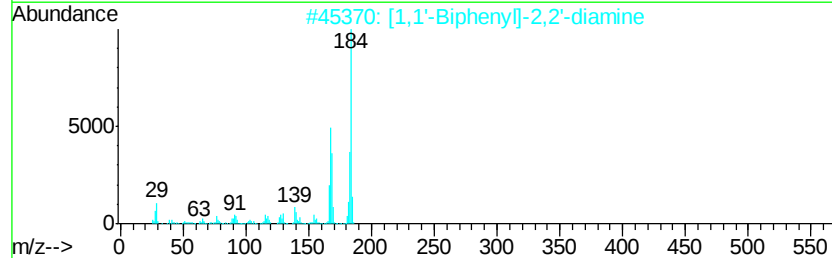
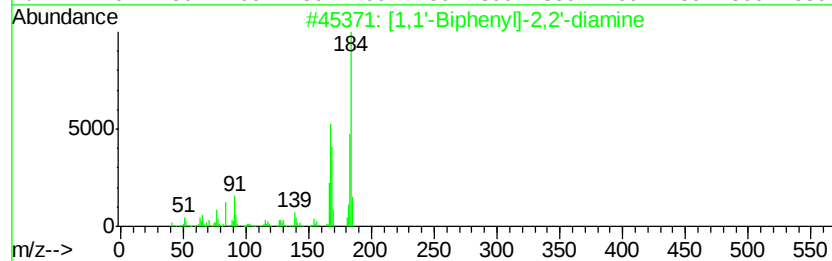
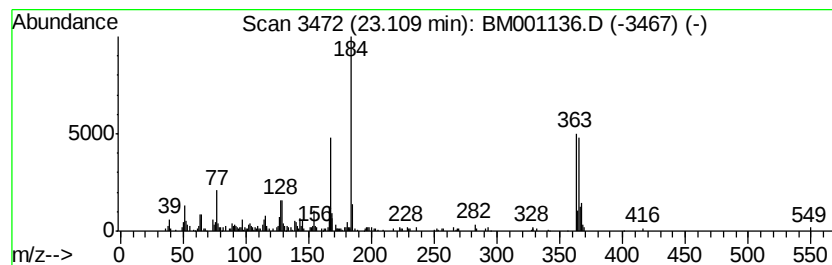
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown-04 Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.11 | 2.20 ng/ul | 294776 | Perylene-d12     | 23.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | [1,1'-Biphenyl]-2,2'-diamine        | 184 | C12H12N2  | 001454-80-4  | 43   |
| 2    |    | [1,1'-Biphenyl]-2,2'-diamine        | 184 | C12H12N2  | 001454-80-4  | 43   |
| 3    |    | Hydrazine, 1,1-diphenyl-            | 184 | C12H12N2  | 000530-50-7  | 38   |
| 4    |    | Benzidine                           | 184 | C12H12N2  | 000092-87-5  | 25   |
| 5    |    | Acetic acid N'-(4-chloro-phenyl)... | 184 | C8H9ClN2O | 1000294-84-0 | 22   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

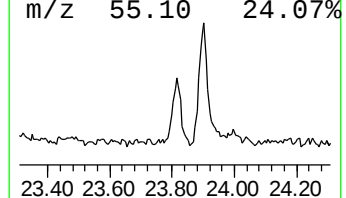
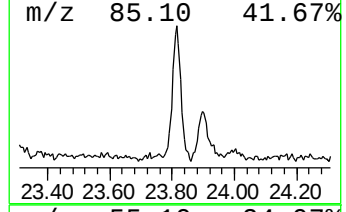
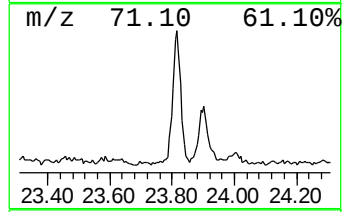
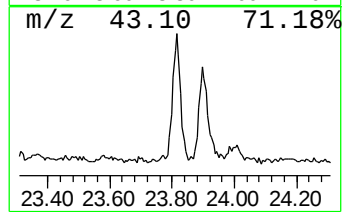
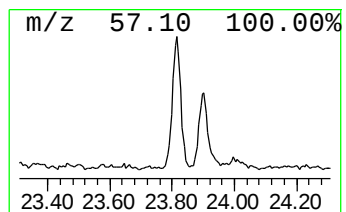
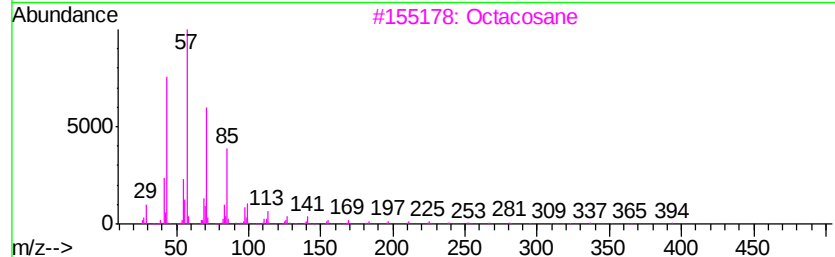
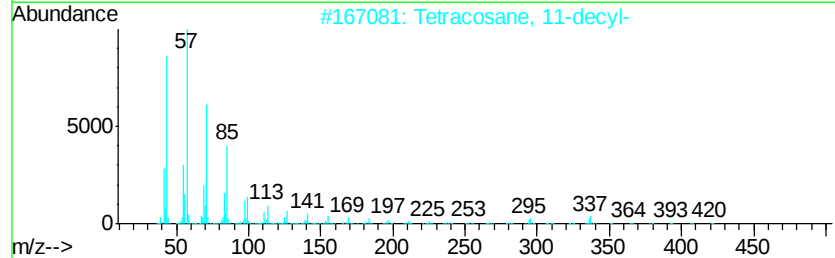
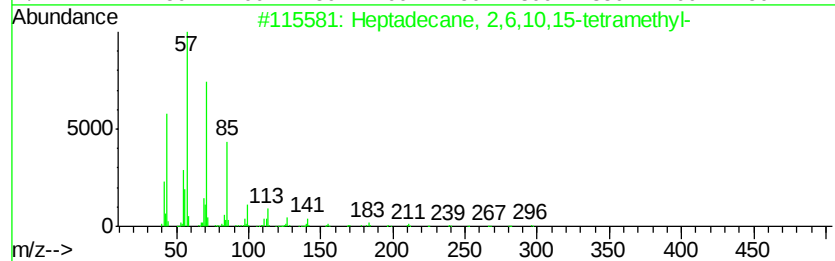
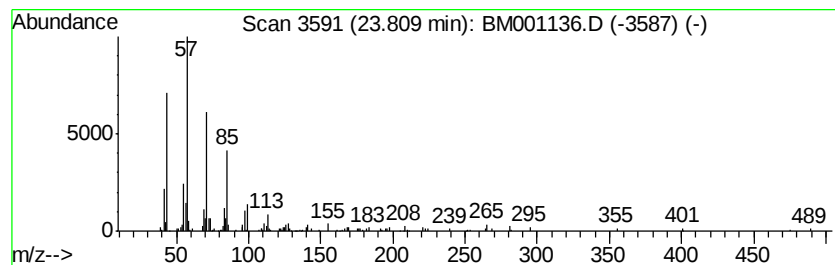
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Heptadecane, 2,6,10,15-tetr... Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.81 | 2.52 ng/ul | 337207 | Perylene-d12     | 23.32 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 96   |
| 2    |    |   | Tetracosane, 11-decyl-              | 479 | C34H70  | 055429-84-0 | 90   |
| 3    |    |   | Octacosane                          | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    |   | Heptacosane                         | 380 | C27H56  | 000593-49-7 | 87   |
| 5    |    |   | Octadecane                          | 254 | C18H38  | 000593-45-3 | 87   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

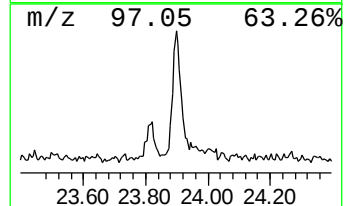
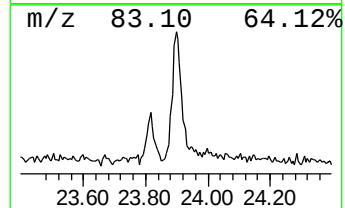
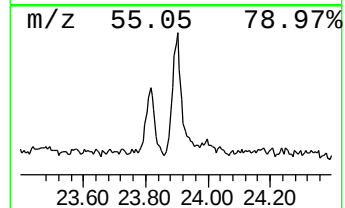
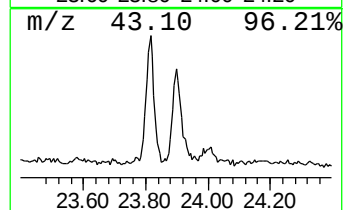
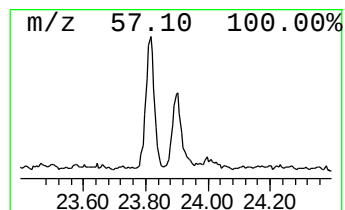
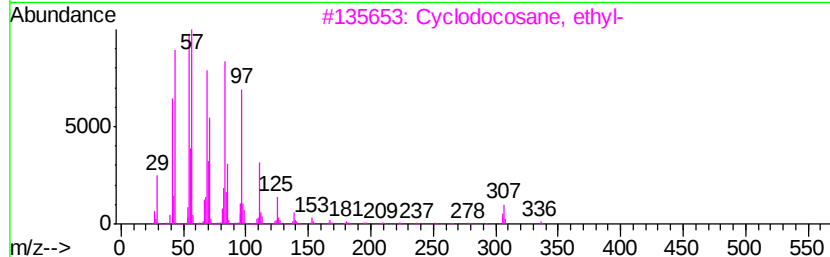
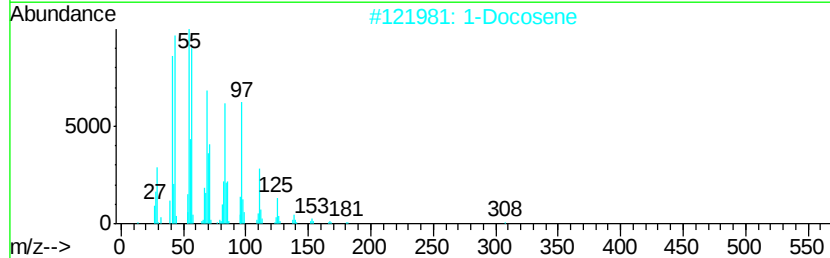
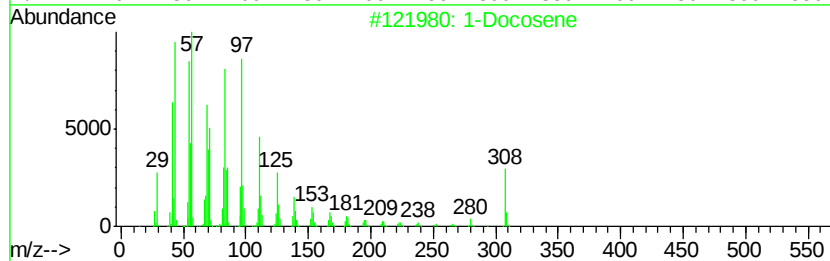
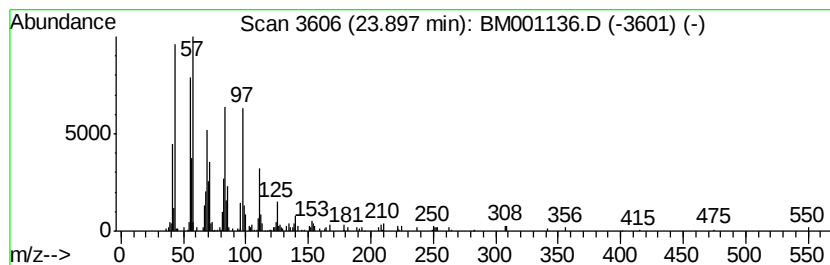
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chain Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.90 | 3.03 ng/ul | 405004 | Perylene-d12     | 23.32 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 1-Docosene                          | 308 | C22H44     | 001599-67-3  | 91   |
| 2    |    |   | 1-Docosene                          | 308 | C22H44     | 001599-67-3  | 90   |
| 3    |    |   | Cyclodocosane, ethyl-               | 336 | C24H48     | 1000151-22-6 | 87   |
| 4    |    |   | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1  | 83   |
| 5    |    |   | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 83   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
Data File : BM001136.D  
Acq On : 28 Apr 2015 19:57  
Operator : TP/IZ  
Sample : G1998-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION

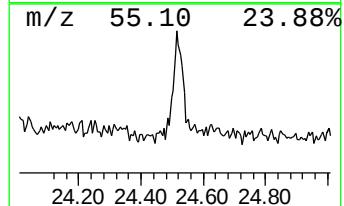
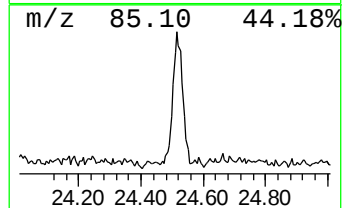
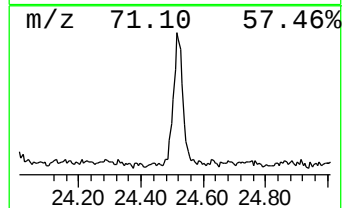
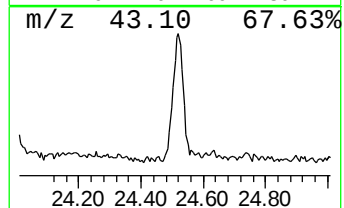
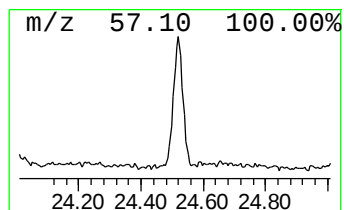
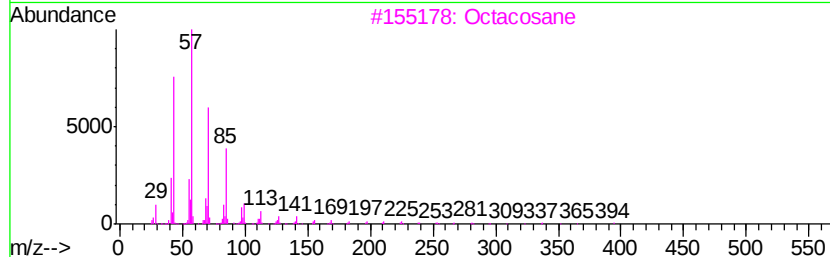
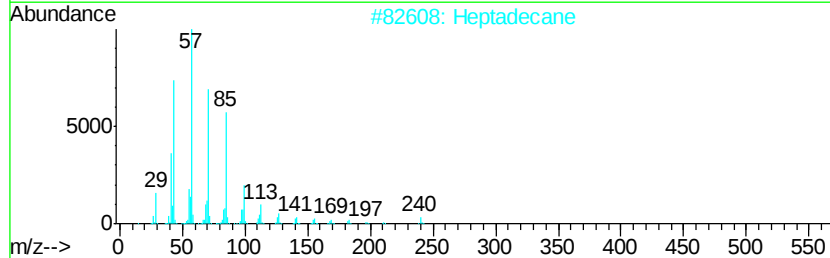
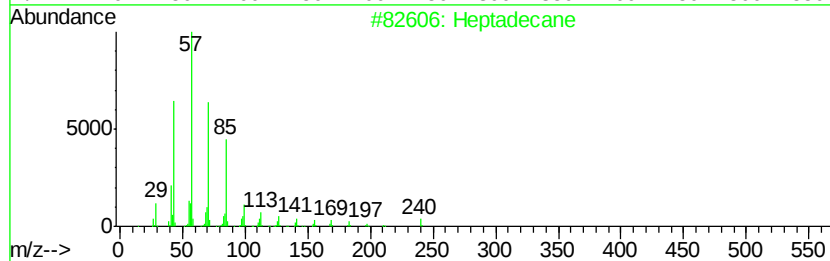
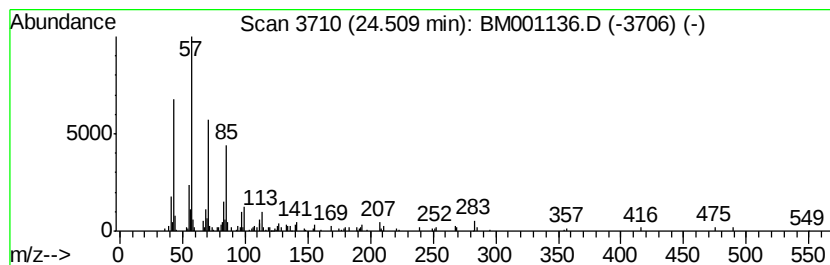
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chain Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.51 | 2.09 ng/ul | 280118 | Perylene-d12     | 23.32 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane  | 240 | C17H36  | 000629-78-7 | 91   |
| 2    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 87   |
| 3    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    | Heptacosane  | 380 | C27H56  | 000593-49-7 | 83   |
| 5    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 83   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042915\  
 Data File : BM001136.D  
 Acq On : 28 Apr 2015 19:57  
 Operator : TP/IZ  
 Sample : G1998-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1Q42

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.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 |
| Butane, 2-methoxy... | 2.73  | 10.6    | ng/ul | 547912   | 1                     | 7.54  | 1032160 | 20.0 |
| 2-Pentanone, 4-hy... | 4.66  | 4.9     | ng/ul | 251455   | 1                     | 7.54  | 1032160 | 20.0 |
| unknown-01           | 14.99 | 2.2     | ng/ul | 207095   | 3                     | 14.20 | 1872760 | 20.0 |
| Benzophenone         | 15.57 | 8.9     | ng/ul | 832502   | 3                     | 14.20 | 1872760 | 20.0 |
| unknown-02           | 16.82 | 2.5     | ng/ul | 311467   | 4                     | 16.96 | 2449140 | 20.0 |
| unknown-03           | 17.23 | 5.3     | ng/ul | 645212   | 4                     | 16.96 | 2449140 | 20.0 |
| n-Hexadecanoic acid  | 17.86 | 2.0     | ng/ul | 245436   | 4                     | 16.96 | 2449140 | 20.0 |
| (DEL) Alkane: Cyclic | 18.73 | 2.5     | ng/ul | 300786   | 4                     | 16.96 | 2449140 | 20.0 |
| Bis(2-ethylhexyl)... | 19.06 | 2.2     | ng/ul | 272296   | 4                     | 16.96 | 2449140 | 20.0 |
| (DEL) Alkane: Str... | 20.88 | 13.2    | ng/ul | 1770320  | 5                     | 21.16 | 2677990 | 20.0 |
| unknown-04           | 23.11 | 2.2     | ng/ul | 294776   | 6                     | 23.32 | 2676800 | 20.0 |
| Heptadecane, 2,6,... | 23.81 | 2.5     | ng/ul | 337207   | 6                     | 23.32 | 2676800 | 20.0 |
| (DEL) Alkane: Str... | 23.90 | 3.0     | ng/ul | 405004   | 6                     | 23.32 | 2676800 | 20.0 |
| (DEL) Alkane: Str... | 24.51 | 2.1     | ng/ul | 280118   | 6                     | 23.32 | 2676800 | 20.0 |