

Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
 Data File : BG019039.D  
 Acq On : 5 Oct 2015 22:45  
 Operator : UM/NP  
 Sample : G3865-02  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E5MY1

## 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\_G\METHODS\SOM02.2-EPA-BG100415.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         | 2.950       | 15            | 19          | 28           | rVB2     | 13353          | 20509         | 1.59%           | 0.132%        |
| 2         | 3.167       | 50            | 56          | 64           | rBV      | 89332          | 164466        | 12.72%          | 1.060%        |
| 3         | 3.243       | 64            | 69          | 84           | rVB      | 495210         | 731430        | 56.59%          | 4.712%        |
| 4         | 4.019       | 196           | 201         | 209          | rVB4     | 6497           | 10327         | 0.80%           | 0.067%        |
| 5         | 5.165       | 390           | 396         | 400          | rBV3     | 9237           | 15451         | 1.20%           | 0.100%        |
| 6         | 5.259       | 405           | 412         | 416          | rBV5     | 8178           | 14440         | 1.12%           | 0.093%        |
| 7         | 6.063       | 543           | 549         | 558          | rBV5     | 6898           | 12000         | 0.93%           | 0.077%        |
| 8         | 7.209       | 736           | 744         | 755          | rBV2     | 71219          | 129821        | 10.04%          | 0.836%        |
| 9         | 7.374       | 765           | 772         | 779          | rVB      | 60679          | 96270         | 7.45%           | 0.620%        |
| 10        | 7.585       | 800           | 808         | 814          | rBV      | 70164          | 119261        | 9.23%           | 0.768%        |
| 11        | 8.049       | 877           | 887         | 893          | rBV      | 140971         | 238170        | 18.43%          | 1.534%        |
| 12        | 8.108       | 893           | 897         | 902          | rVB3     | 6812           | 9994          | 0.77%           | 0.064%        |
| 13        | 8.173       | 902           | 908         | 913          | rBV6     | 5027           | 9144          | 0.71%           | 0.059%        |
| 14        | 8.754       | 1000          | 1007        | 1014         | rVB      | 73956          | 124795        | 9.66%           | 0.804%        |
| 15        | 9.207       | 1077          | 1084        | 1092         | rVV      | 78466          | 132256        | 10.23%          | 0.852%        |
| 16        | 9.930       | 1200          | 1207        | 1213         | rBV      | 64856          | 115163        | 8.91%           | 0.742%        |
| 17        | 10.470      | 1291          | 1299        | 1307         | rVV      | 97416          | 173747        | 13.44%          | 1.119%        |
| 18        | 10.852      | 1354          | 1364        | 1370         | rBV      | 216406         | 402656        | 31.15%          | 2.594%        |
| 19        | 10.905      | 1370          | 1373        | 1379         | rVB3     | 12212          | 18908         | 1.46%           | 0.122%        |
| 20        | 10.987      | 1379          | 1387        | 1396         | rBV      | 53746          | 100817        | 7.80%           | 0.650%        |
| 21        | 11.504      | 1467          | 1475        | 1481         | rBV2     | 4949           | 9458          | 0.73%           | 0.061%        |
| 22        | 12.268      | 1600          | 1605        | 1610         | rBV2     | 6742           | 8884          | 0.69%           | 0.057%        |
| 23        | 12.503      | 1637          | 1645        | 1653         | rVB      | 24904          | 40571         | 3.14%           | 0.261%        |
| 24        | 12.720      | 1675          | 1682        | 1689         | rVV      | 20776          | 33343         | 2.58%           | 0.215%        |
| 25        | 13.214      | 1761          | 1766        | 1772         | rVB3     | 6812           | 12056         | 0.93%           | 0.078%        |
| 26        | 13.284      | 1772          | 1778        | 1786         | rBV2     | 7714           | 12392         | 0.96%           | 0.080%        |
| 27        | 13.502      | 1809          | 1815        | 1818         | rVV2     | 8656           | 12613         | 0.98%           | 0.081%        |
| 28        | 13.848      | 1867          | 1874        | 1878         | rBV6     | 7204           | 15832         | 1.22%           | 0.102%        |
| 29        | 13.995      | 1893          | 1899        | 1904         | rVV2     | 19253          | 33791         | 2.61%           | 0.218%        |
| 30        | 14.078      | 1904          | 1913        | 1917         | rVV      | 195209         | 307778        | 23.81%          | 1.983%        |
| 31        | 14.125      | 1917          | 1921        | 1925         | rVV      | 120927         | 174059        | 13.47%          | 1.121%        |
| 32        | 14.154      | 1925          | 1926        | 1930         | rVV      | 14601          | 14926         | 1.15%           | 0.096%        |
| 33        | 14.230      | 1935          | 1939        | 1943         | rVV      | 20109          | 32596         | 2.52%           | 0.210%        |
| 34        | 14.266      | 1943          | 1945        | 1955         | rVV8     | 6329           | 14078         | 1.09%           | 0.091%        |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG100415.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 14.366 | 1955 | 1962 | 1970 | rVB  | 216718 | 352997 | 27.31% | 2.274% |
| 36 | 14.565 | 1993 | 1996 | 2002 | rVB2 | 15671  | 20890  | 1.62%  | 0.135% |
| 37 | 14.671 | 2006 | 2014 | 2022 | rBV2 | 366028 | 613086 | 47.43% | 3.950% |
| 38 | 14.736 | 2022 | 2025 | 2033 | rVB4 | 7449   | 13096  | 1.01%  | 0.084% |
| 39 | 14.865 | 2041 | 2047 | 2056 | rBV  | 63443  | 111890 | 8.66%  | 0.721% |
| 40 | 14.959 | 2056 | 2063 | 2067 | rBV  | 17179  | 25089  | 1.94%  | 0.162% |
| 41 | 15.071 | 2075 | 2082 | 2089 | rVB4 | 19185  | 33581  | 2.60%  | 0.216% |
| 42 | 15.141 | 2089 | 2094 | 2098 | rVB4 | 8937   | 14633  | 1.13%  | 0.094% |
| 43 | 15.282 | 2115 | 2118 | 2123 | rVB3 | 8300   | 12684  | 0.98%  | 0.082% |
| 44 | 15.464 | 2142 | 2149 | 2152 | rBV4 | 17049  | 34592  | 2.68%  | 0.223% |
| 45 | 15.517 | 2155 | 2158 | 2163 | rVB  | 24278  | 29783  | 2.30%  | 0.192% |
| 46 | 15.664 | 2177 | 2183 | 2188 | rVV  | 297504 | 455863 | 35.27% | 2.937% |
| 47 | 15.711 | 2188 | 2191 | 2196 | rVB4 | 17355  | 23761  | 1.84%  | 0.153% |
| 48 | 15.770 | 2196 | 2201 | 2206 | rBV  | 62450  | 93736  | 7.25%  | 0.604% |
| 49 | 15.923 | 2214 | 2227 | 2233 | rBV5 | 15630  | 41219  | 3.19%  | 0.266% |
| 50 | 16.011 | 2237 | 2242 | 2247 | rVB  | 13759  | 22389  | 1.73%  | 0.144% |
| 51 | 16.075 | 2249 | 2253 | 2259 | rVV7 | 4850   | 8949   | 0.69%  | 0.058% |
| 52 | 16.152 | 2259 | 2266 | 2274 | rVV6 | 10070  | 27871  | 2.16%  | 0.180% |
| 53 | 16.228 | 2274 | 2279 | 2287 | rVV9 | 4858   | 13589  | 1.05%  | 0.088% |
| 54 | 16.381 | 2301 | 2305 | 2306 | rVV  | 48338  | 59390  | 4.59%  | 0.383% |
| 55 | 16.404 | 2306 | 2309 | 2314 | rVB  | 71619  | 103377 | 8.00%  | 0.666% |
| 56 | 16.528 | 2326 | 2330 | 2332 | rBV4 | 7423   | 9451   | 0.73%  | 0.061% |
| 57 | 16.722 | 2357 | 2363 | 2365 | rBV5 | 6701   | 11199  | 0.87%  | 0.072% |
| 58 | 16.957 | 2398 | 2403 | 2407 | rBV4 | 18091  | 31050  | 2.40%  | 0.200% |
| 59 | 17.068 | 2417 | 2422 | 2427 | rVB2 | 10404  | 18366  | 1.42%  | 0.118% |
| 60 | 17.168 | 2429 | 2439 | 2444 | rBV2 | 47307  | 76445  | 5.91%  | 0.493% |
| 61 | 17.227 | 2445 | 2449 | 2457 | rVB2 | 24570  | 41080  | 3.18%  | 0.265% |
| 62 | 17.415 | 2475 | 2481 | 2485 | rBV  | 509715 | 763189 | 59.05% | 4.917% |
| 63 | 17.456 | 2485 | 2488 | 2492 | rVV  | 102871 | 145323 | 11.24% | 0.936% |
| 64 | 17.509 | 2492 | 2497 | 2509 | rVB2 | 320252 | 525890 | 40.69% | 3.388% |
| 65 | 17.597 | 2509 | 2512 | 2517 | rBV7 | 7087   | 11020  | 0.85%  | 0.071% |
| 66 | 17.726 | 2525 | 2534 | 2536 | rBV6 | 10178  | 20291  | 1.57%  | 0.131% |
| 67 | 17.814 | 2546 | 2549 | 2558 | rVB5 | 10465  | 20777  | 1.61%  | 0.134% |
| 68 | 17.908 | 2561 | 2565 | 2575 | rVB  | 42330  | 59370  | 4.59%  | 0.383% |
| 69 | 17.991 | 2575 | 2579 | 2582 | rBV4 | 10604  | 12622  | 0.98%  | 0.081% |
| 70 | 18.243 | 2619 | 2622 | 2627 | rBV3 | 21953  | 37985  | 2.94%  | 0.245% |
| 71 | 18.308 | 2627 | 2633 | 2636 | rBV2 | 50386  | 79400  | 6.14%  | 0.512% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG100415.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |       |         |         |         |        |
|-----|--------|------|------|------|-------|---------|---------|---------|--------|
| 72  | 18.414 | 2648 | 2651 | 2656 | rVB6  | 10196   | 14540   | 1.12%   | 0.094% |
| 73  | 18.490 | 2657 | 2664 | 2668 | rBV7  | 21870   | 58602   | 4.53%   | 0.378% |
| 74  | 18.602 | 2678 | 2683 | 2685 | rBV   | 63896   | 86021   | 6.66%   | 0.554% |
| 75  | 18.625 | 2685 | 2687 | 2694 | rVB2  | 40345   | 56276   | 4.35%   | 0.363% |
| 76  | 18.784 | 2709 | 2714 | 2717 | rBV3  | 14659   | 21928   | 1.70%   | 0.141% |
| 77  | 18.819 | 2717 | 2720 | 2726 | rVB5  | 16031   | 23905   | 1.85%   | 0.154% |
| 78  | 19.225 | 2786 | 2789 | 2794 | rVV   | 51798   | 58361   | 4.52%   | 0.376% |
| 79  | 19.295 | 2798 | 2801 | 2804 | rVB2  | 16616   | 19213   | 1.49%   | 0.124% |
| 80  | 19.460 | 2824 | 2829 | 2837 | rBV   | 134396  | 210854  | 16.31%  | 1.358% |
| 81  | 19.601 | 2851 | 2853 | 2856 | rVB4  | 13404   | 13945   | 1.08%   | 0.090% |
| 82  | 19.724 | 2869 | 2874 | 2878 | rVB   | 1104750 | 1292511 | 100.00% | 8.327% |
| 83  | 19.794 | 2878 | 2886 | 2890 | rVV2  | 438198  | 725794  | 56.15%  | 4.676% |
| 84  | 19.830 | 2890 | 2892 | 2899 | rVB2  | 174888  | 232171  | 17.96%  | 1.496% |
| 85  | 20.135 | 2940 | 2944 | 2953 | rBV10 | 17540   | 43623   | 3.38%   | 0.281% |
| 86  | 20.329 | 2974 | 2977 | 2982 | rVB   | 99111   | 112295  | 8.69%   | 0.723% |
| 87  | 20.758 | 3046 | 3050 | 3055 | rVB   | 782348  | 915585  | 70.84%  | 5.899% |
| 88  | 20.829 | 3057 | 3062 | 3065 | rVV   | 160179  | 182765  | 14.14%  | 1.178% |
| 89  | 20.858 | 3065 | 3067 | 3072 | rVB   | 68032   | 76055   | 5.88%   | 0.490% |
| 90  | 21.334 | 3143 | 3148 | 3155 | rVB2  | 193303  | 286170  | 22.14%  | 1.844% |
| 91  | 21.680 | 3199 | 3207 | 3212 | rBV   | 543185  | 970950  | 75.12%  | 6.256% |
| 92  | 21.886 | 3237 | 3242 | 3248 | rVB   | 194446  | 273421  | 21.15%  | 1.762% |
| 93  | 22.503 | 3341 | 3347 | 3354 | rBV   | 153632  | 261639  | 20.24%  | 1.686% |
| 94  | 23.202 | 3460 | 3466 | 3474 | rVB   | 127835  | 230619  | 17.84%  | 1.486% |
| 95  | 23.884 | 3576 | 3582 | 3589 | rBV3  | 28386   | 76321   | 5.90%   | 0.492% |
| 96  | 24.013 | 3599 | 3604 | 3619 | rVB   | 106560  | 210489  | 16.29%  | 1.356% |
| 97  | 24.683 | 3709 | 3718 | 3726 | rBV3  | 196052  | 502640  | 38.89%  | 3.238% |
| 98  | 24.906 | 3746 | 3756 | 3764 | rBV2  | 294684  | 883382  | 68.35%  | 5.691% |
| 99  | 24.977 | 3764 | 3768 | 3777 | rVB   | 85012   | 174611  | 13.51%  | 1.125% |
| 100 | 26.116 | 3956 | 3962 | 3973 | rVB3  | 54788   | 168685  | 13.05%  | 1.087% |

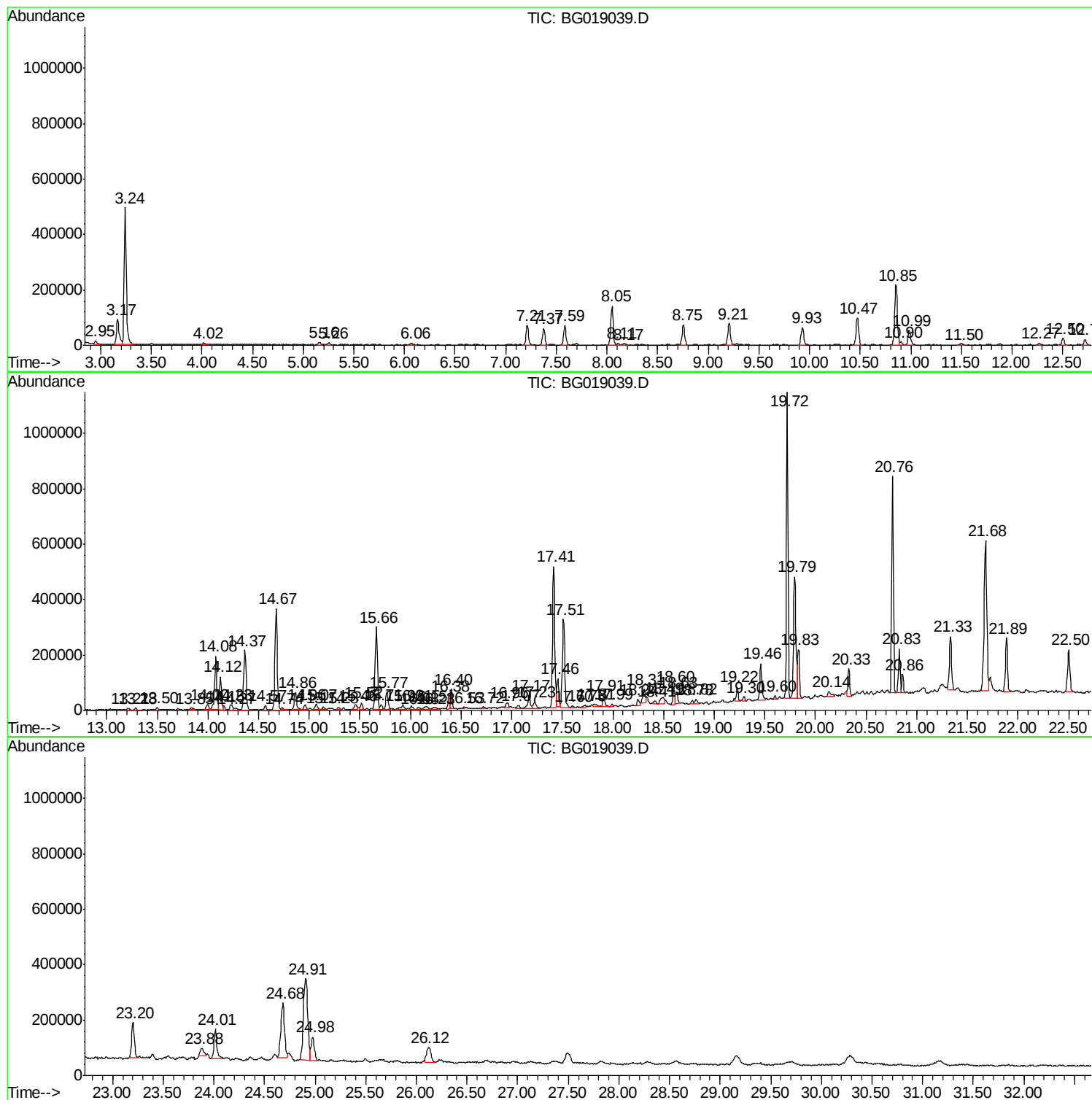
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

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



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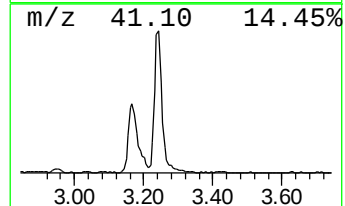
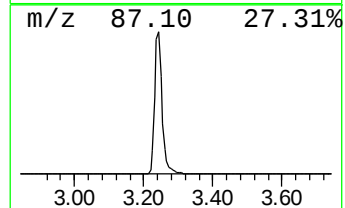
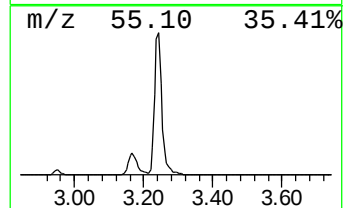
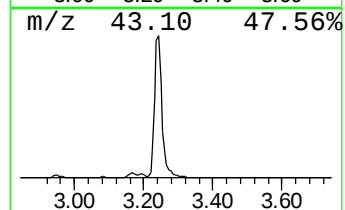
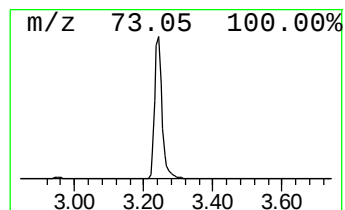
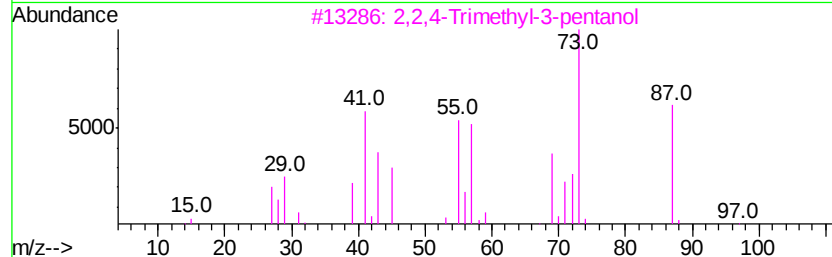
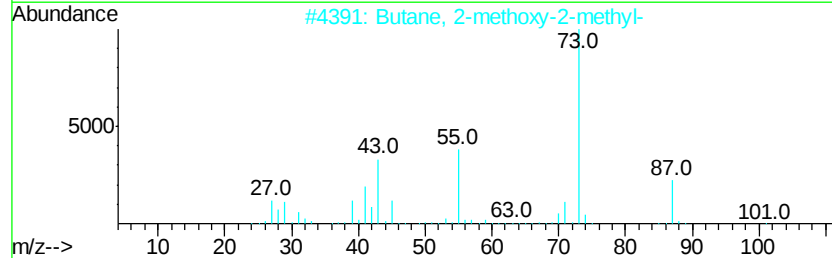
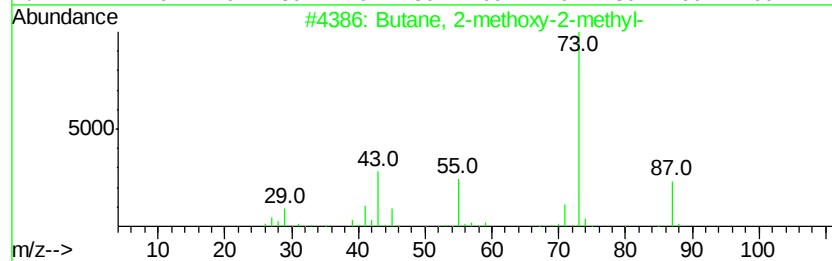
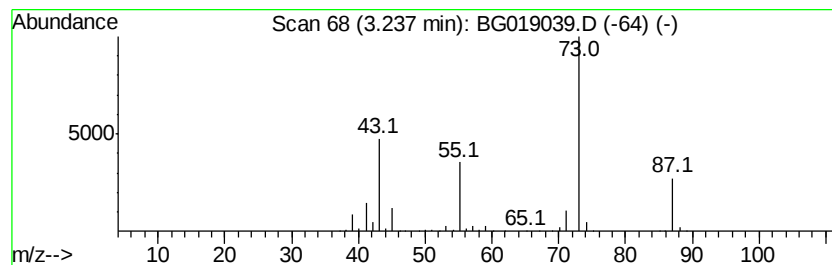
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

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

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

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 3.24 | 61.42 ng/ul | 731430 | 1,4-Dichlorobenzene-d4 | 8.05 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 56   |
| 3    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 39   |
| 4    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 5    |    | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 23   |



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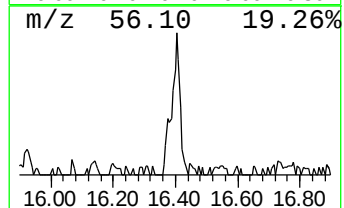
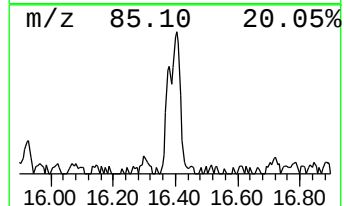
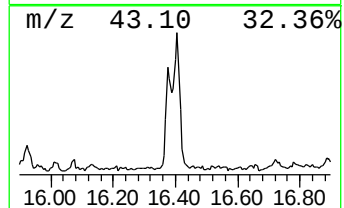
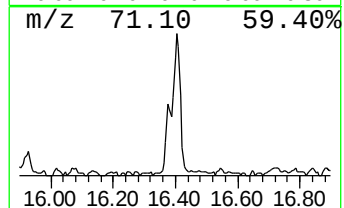
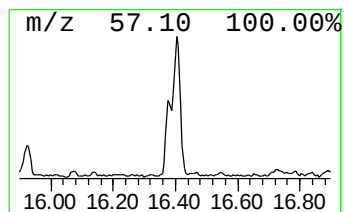
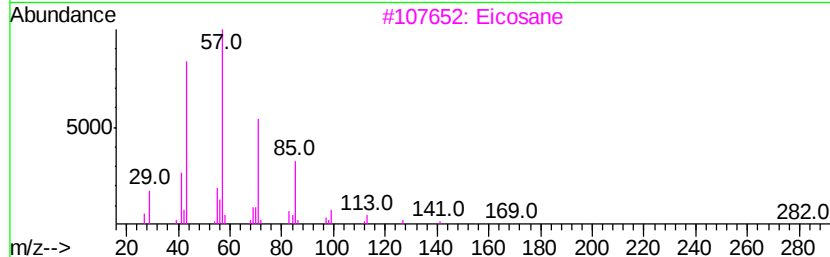
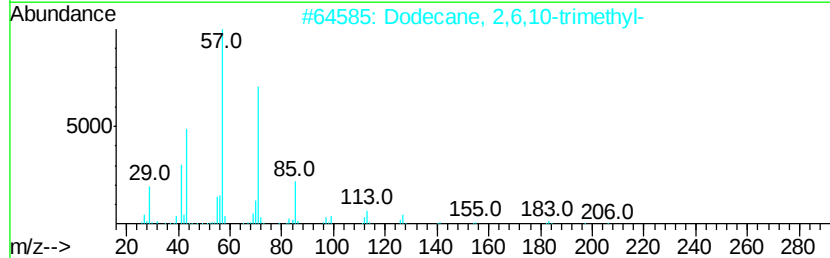
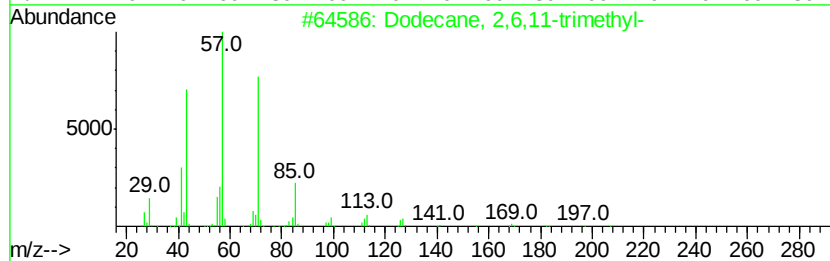
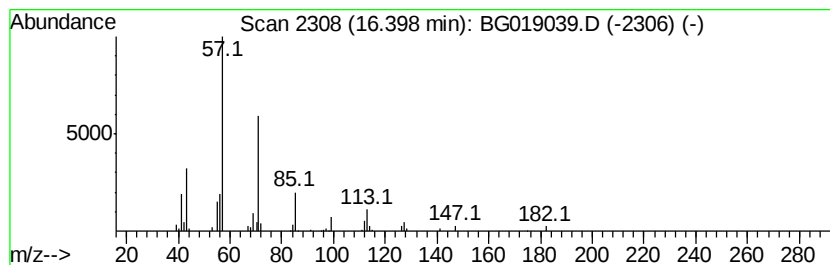
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.40 | 2.71 ng/ul | 103377 | Phenanthrene-d10 | 17.41 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 78   |
| 2    |    |   | Dodecane, 2,6,10-trimethyl- | 212 | C15H32  | 003891-98-3 | 64   |
| 3    |    |   | Eicosane                    | 282 | C20H42  | 000112-95-8 | 64   |
| 4    |    |   | Undecane, 4,6-dimethyl-     | 184 | C13H28  | 017312-82-2 | 64   |
| 5    |    |   | Octane, 2,6-dimethyl-       | 142 | C10H22  | 002051-30-1 | 64   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

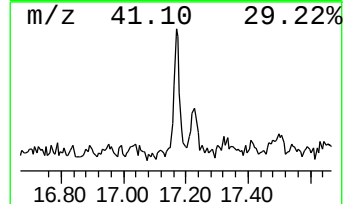
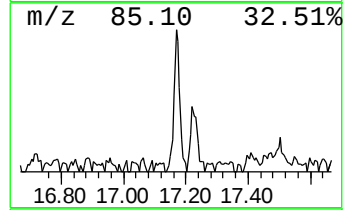
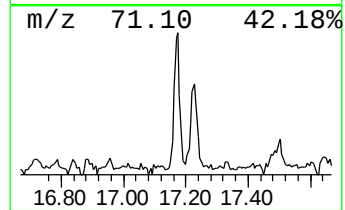
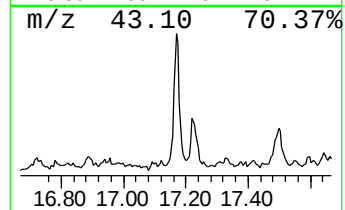
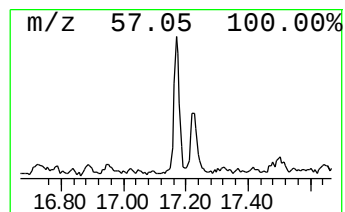
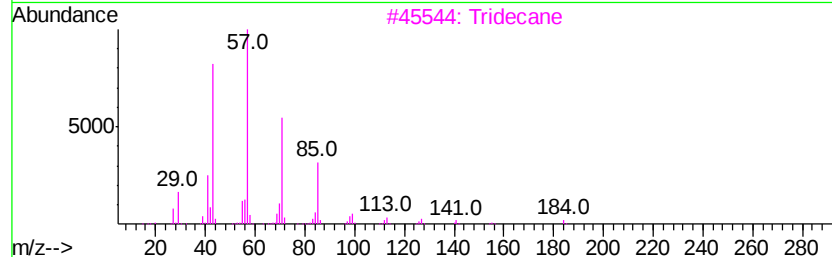
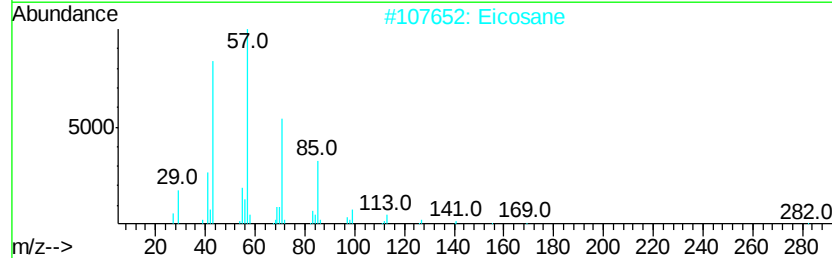
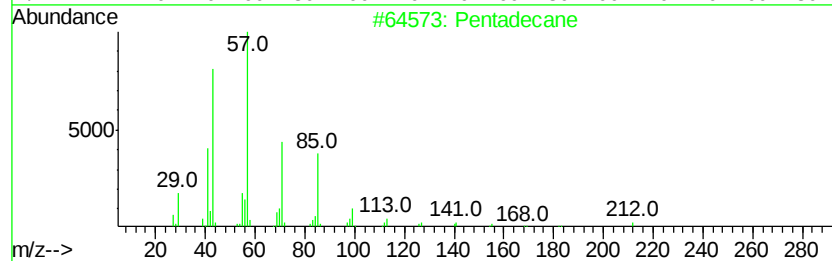
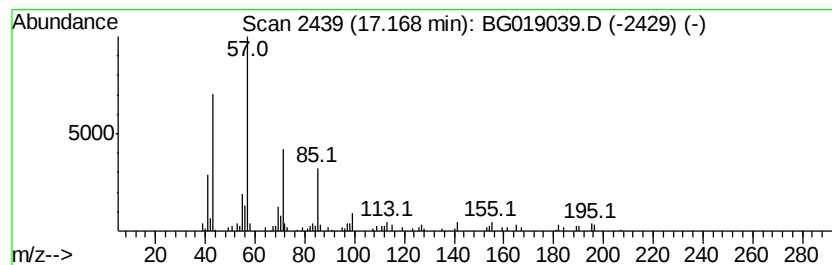
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 17.17 | 2.00 ng/ul | 76445 | Phenanthrene-d10 | 17.41 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane  | 212 | C15H32  | 000629-62-9 | 86   |
| 2    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 83   |
| 3    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 81   |
| 4    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 80   |
| 5    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 80   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

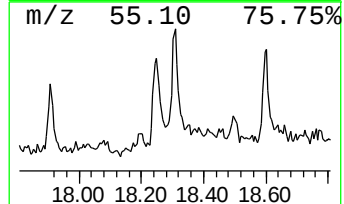
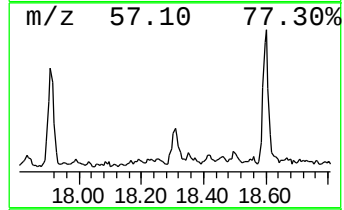
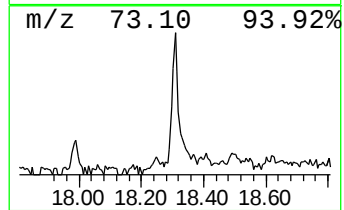
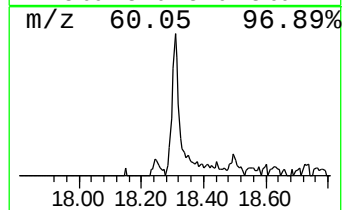
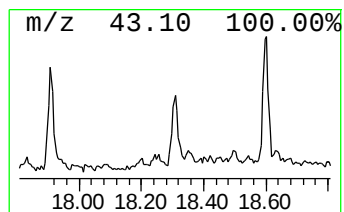
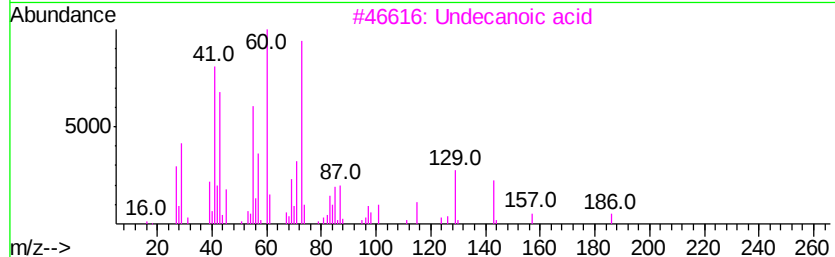
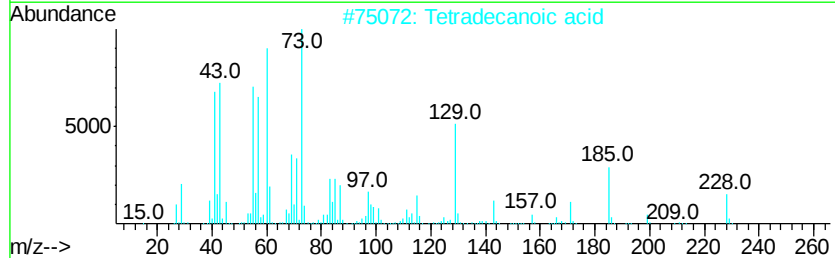
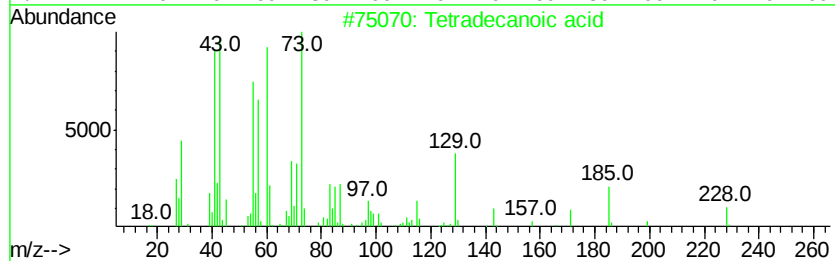
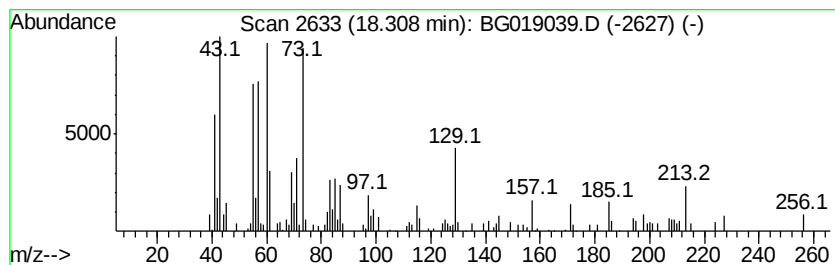
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Tetradecanoic acid Concentration Rank 16

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 18.31 | 2.08 ng/ul | 79400 | Phenanthrene-d10 | 17.41 |

| Hit# of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|---------|---|--------------------|-----|----------|-------------|------|
| 1       |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72   |
| 2       |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72   |
| 3       |   | Undecanoic acid    | 186 | C11H22O2 | 000112-37-8 | 70   |
| 4       |   | Tridecanoic acid   | 214 | C13H26O2 | 000638-53-9 | 64   |
| 5       |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

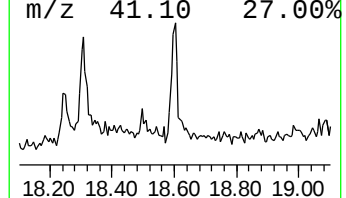
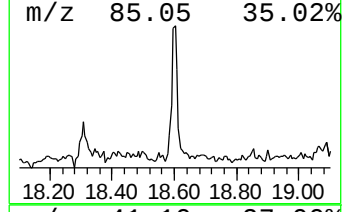
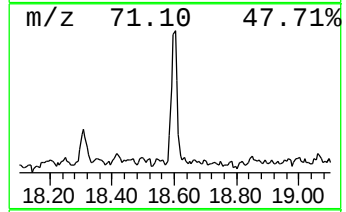
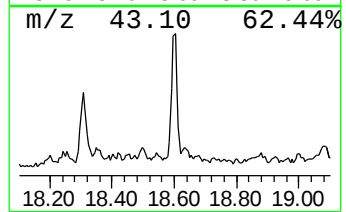
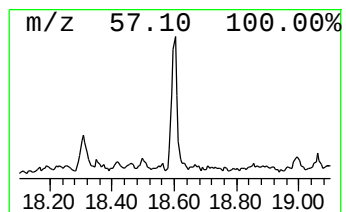
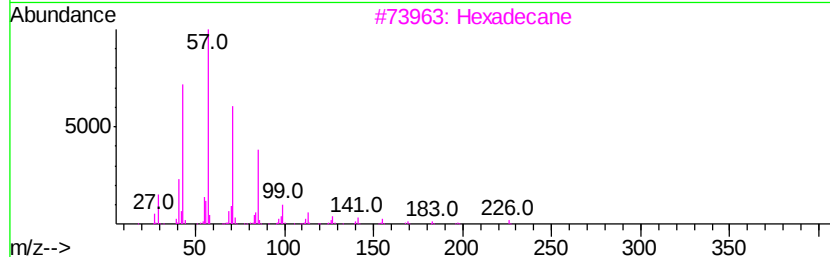
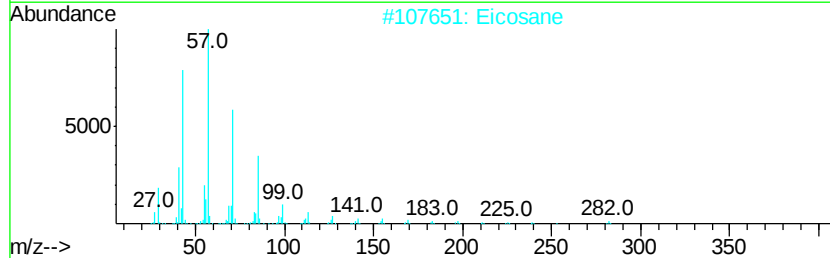
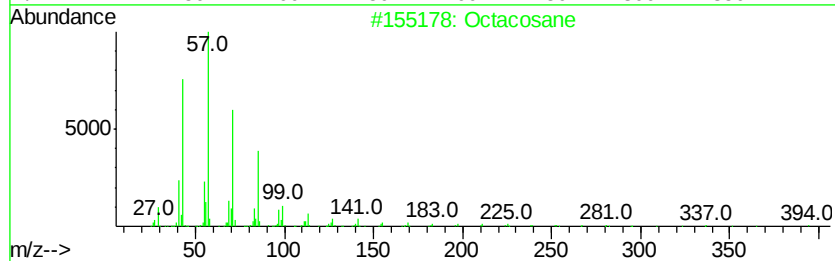
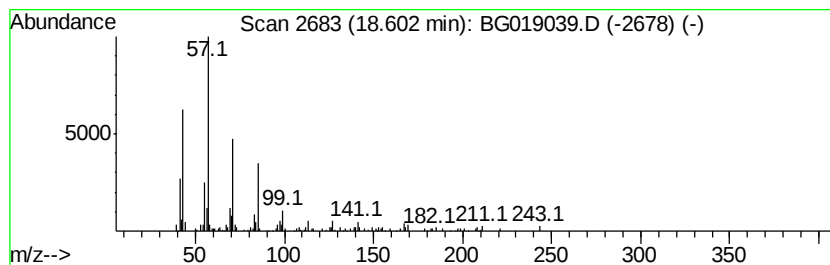
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 18.60 | 2.25 ng/ul | 86021 | Phenanthrene-d10 | 17.41 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane   | 394 | C28H58  | 000630-02-4 | 87   |
| 2    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 87   |
| 3    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 87   |
| 4    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 87   |
| 5    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 83   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

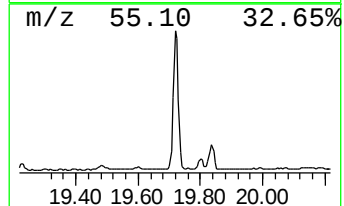
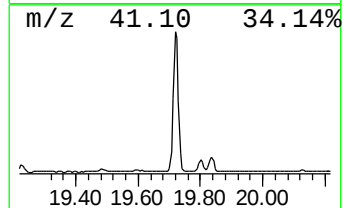
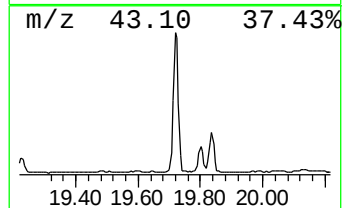
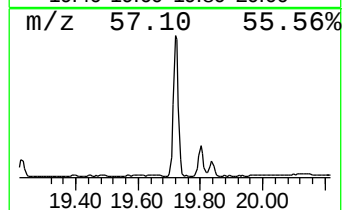
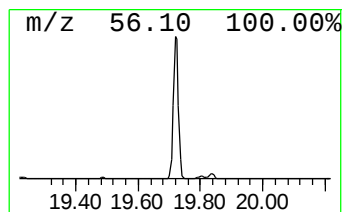
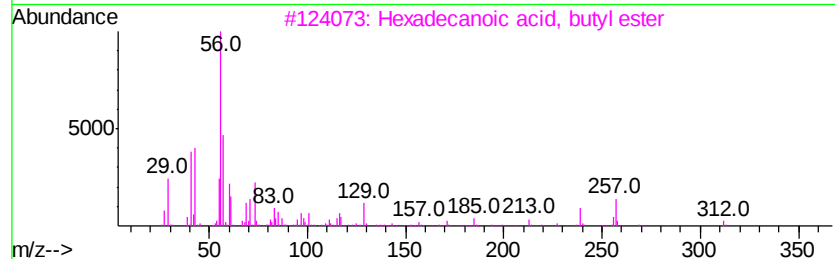
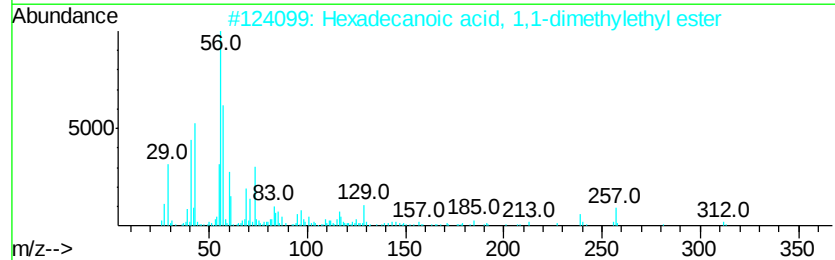
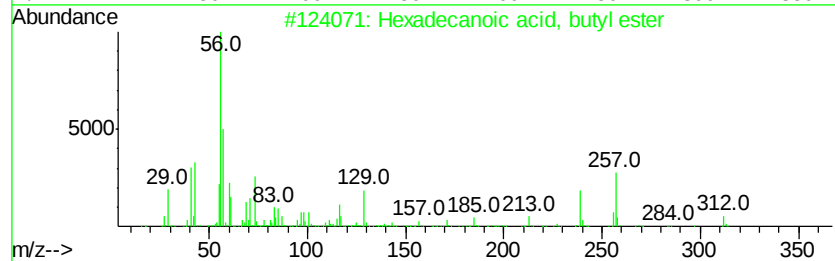
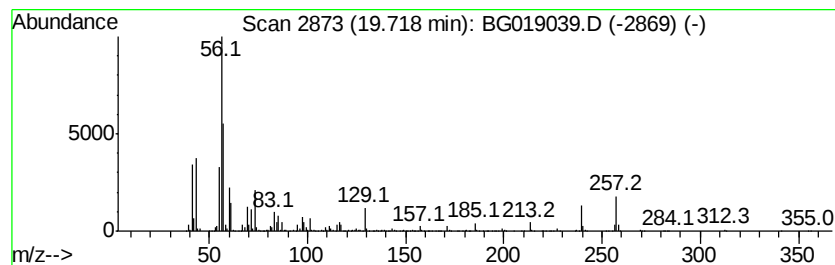
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Hexadecanoic acid, butyl ester Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 19.72 | 26.62 ng/ul | 1292510 | Chrysene-d12     | 21.68 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, butyl ester       | 312 | C20H40O2 | 000111-06-8 | 91   |
| 2    |    | Hexadecanoic acid, 1,1-dimethyle...  | 312 | C20H40O2 | 031158-91-5 | 90   |
| 3    |    | Hexadecanoic acid, butyl ester       | 312 | C20H40O2 | 000111-06-8 | 90   |
| 4    |    | Hexadecanoic acid, 2-methylpropyl... | 312 | C20H40O2 | 000110-34-9 | 46   |
| 5    |    | Cyclopentanecarboxylic acid, 2-a...  | 129 | C6H11NO2 | 040482-05-1 | 38   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

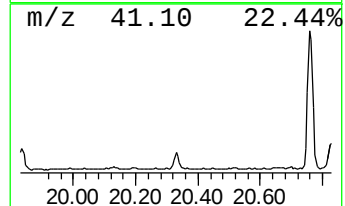
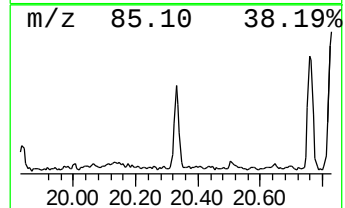
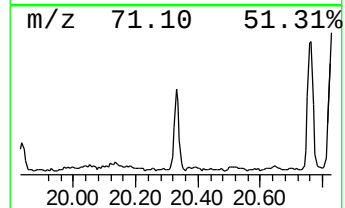
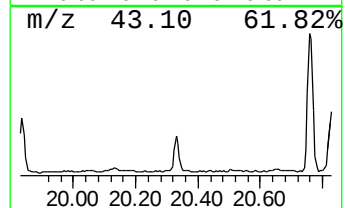
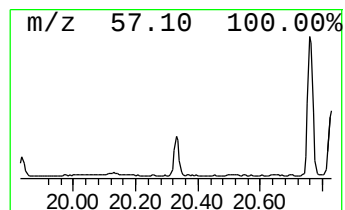
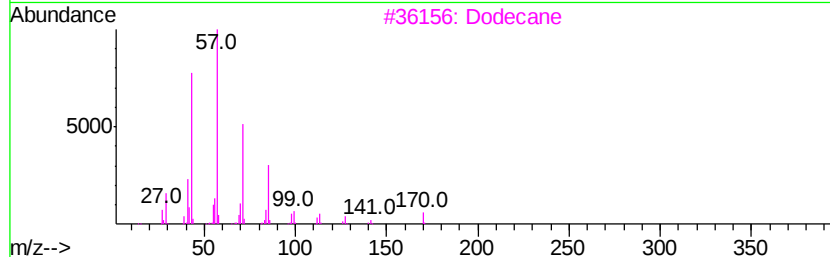
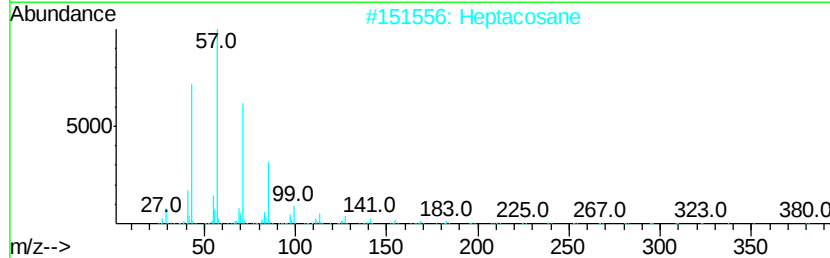
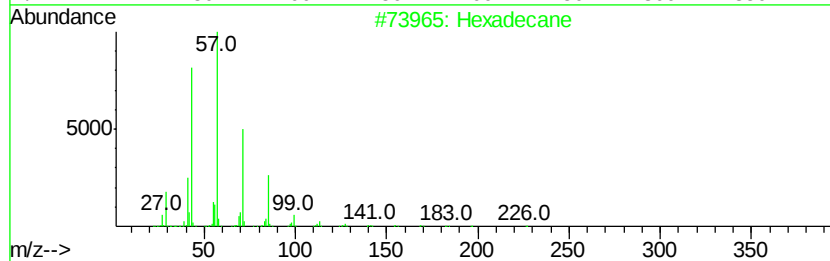
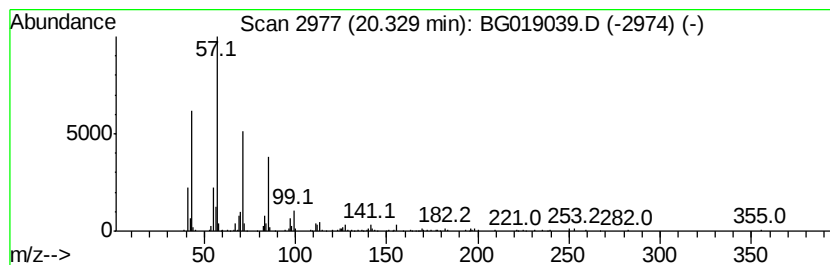
Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 20.33     | 2.31 ng/ul              | 112295 | Chrysene-d12     |             | 21.68 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Hexadecane              | 226    | C16H34           | 000544-76-3 | 91    |
| 2         | Heptacosane             | 380    | C27H56           | 000593-49-7 | 91    |
| 3         | Dodecane                | 170    | C12H26           | 000112-40-3 | 87    |
| 4         | Eicosane                | 282    | C20H42           | 000112-95-8 | 87    |
| 5         | 1-Iodo-2-methylundecane | 296    | C12H25I          | 073105-67-6 | 86    |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

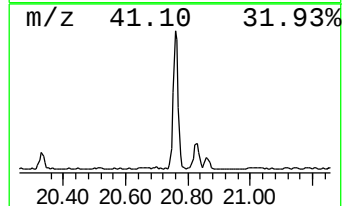
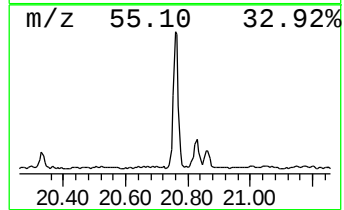
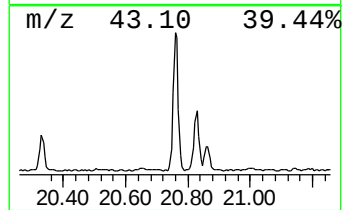
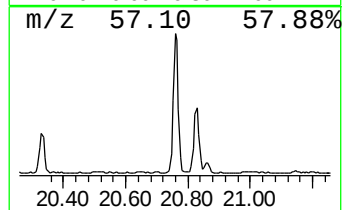
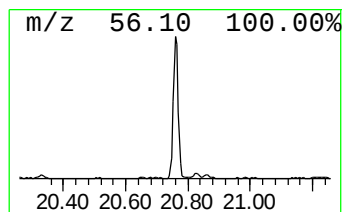
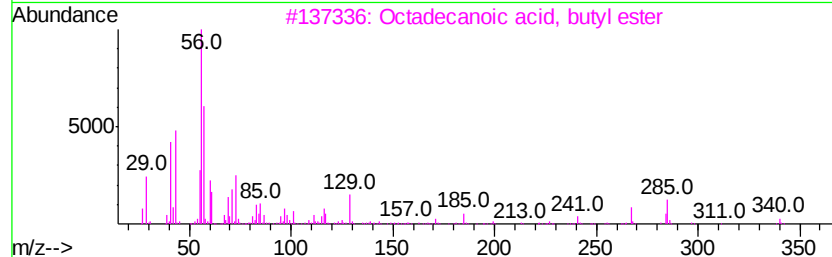
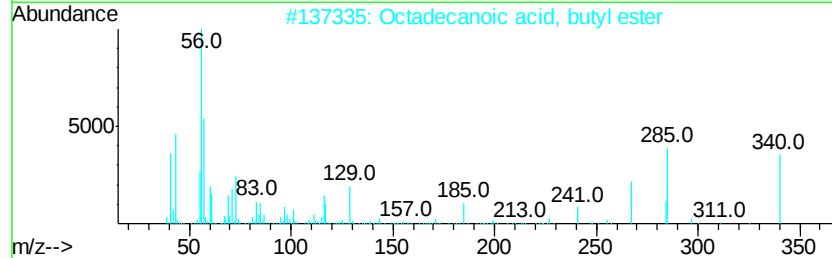
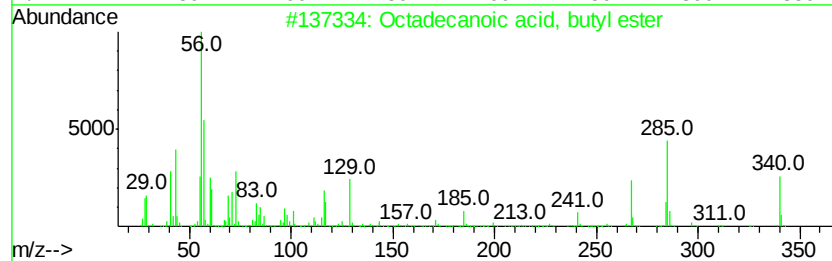
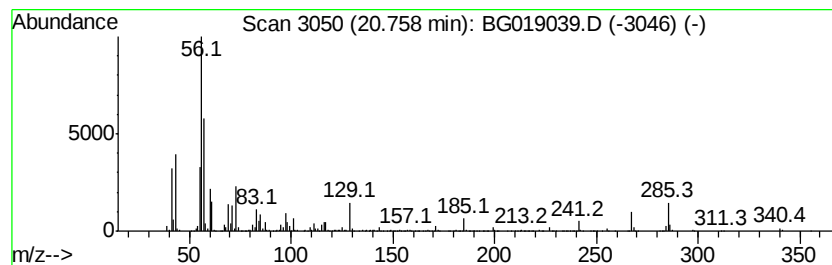
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Octadecanoic acid, butyl ester Concentration Rank 3

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 20.76 | 18.86 ng/ul | 915585 | Chrysene-d12     | 21.68 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid, butyl ester       | 340 | C22H44O2 | 000123-95-5 | 90   |
| 2    |    | Octadecanoic acid, butyl ester       | 340 | C22H44O2 | 000123-95-5 | 78   |
| 3    |    | Octadecanoic acid, butyl ester       | 340 | C22H44O2 | 000123-95-5 | 55   |
| 4    |    | Octadecanoic acid, 2-methylpropyl... | 340 | C22H44O2 | 000646-13-9 | 38   |
| 5    |    | Cyclopentanecarboxylic acid, 2-a...  | 129 | C6H11NO2 | 037910-65-9 | 37   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

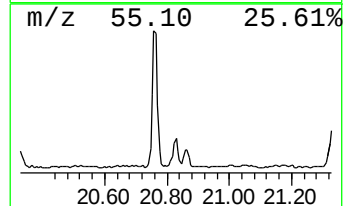
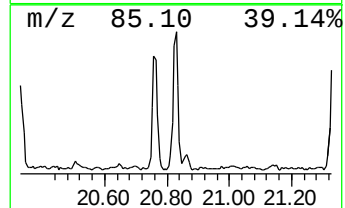
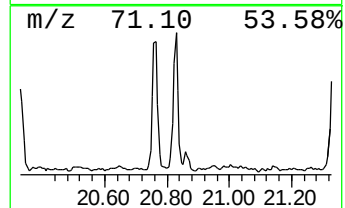
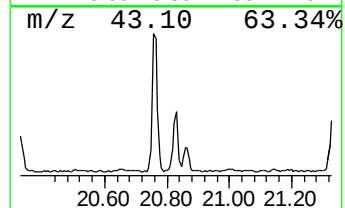
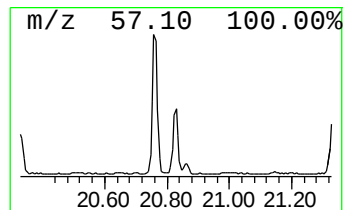
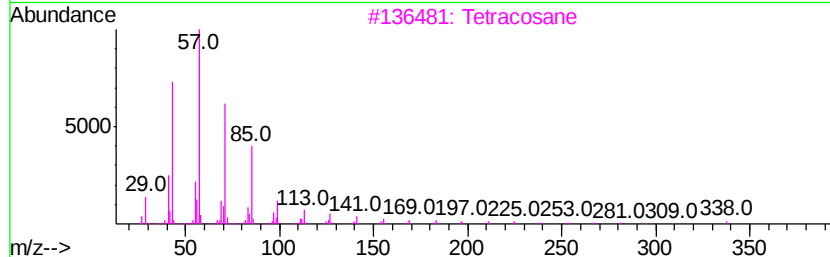
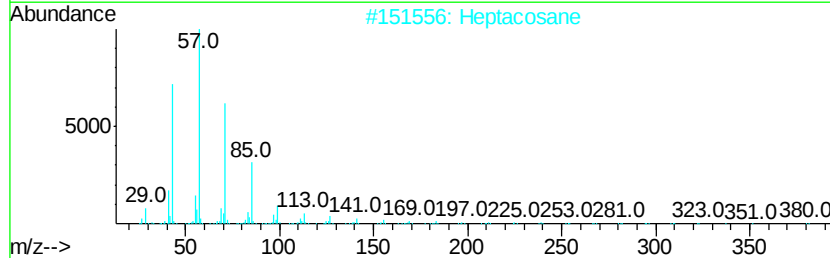
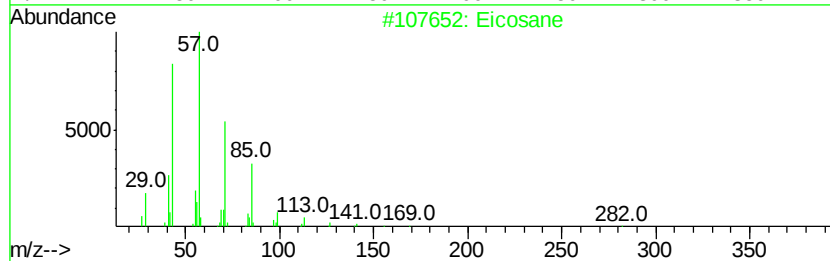
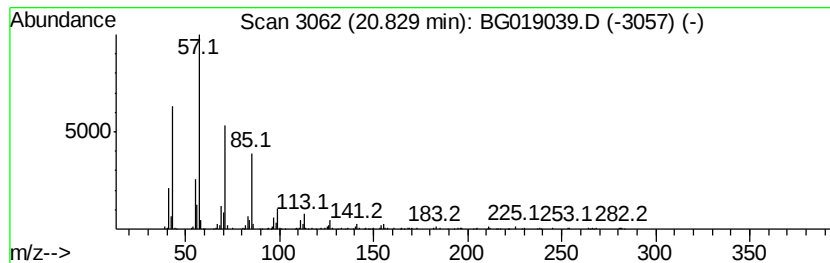
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.83 | 3.76 ng/ul | 182765 | Chrysene-d12     | 21.68 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Eicosane     | 282 | C20H42  | 000112-95-8 | 98   |
| 2    |    |   | Heptacosane  | 380 | C27H56  | 000593-49-7 | 91   |
| 3    |    |   | Tetracosane  | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    |   | Octadecane   | 254 | C18H38  | 000593-45-3 | 91   |
| 5    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

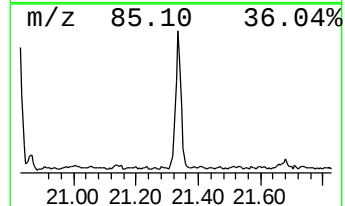
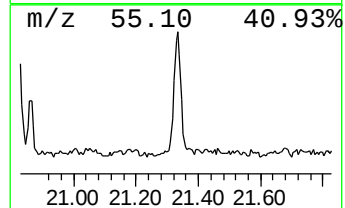
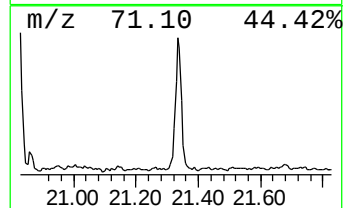
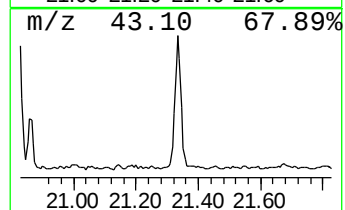
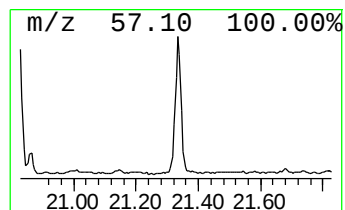
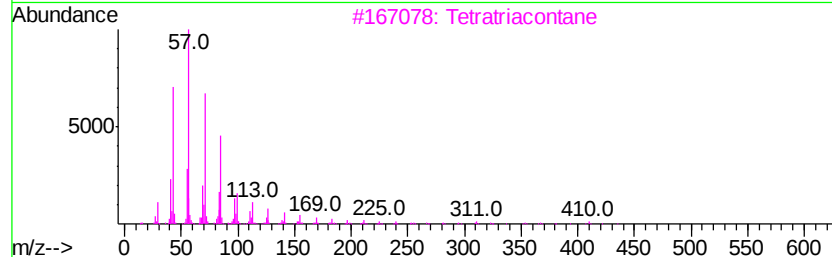
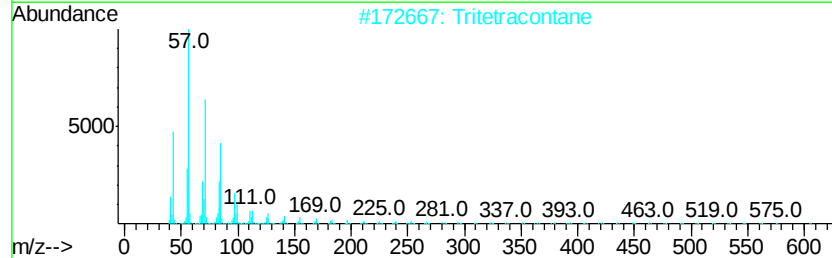
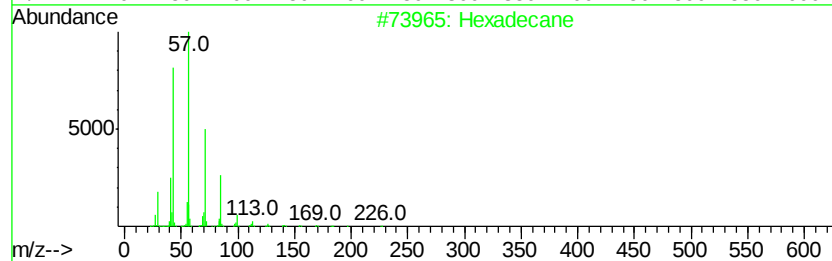
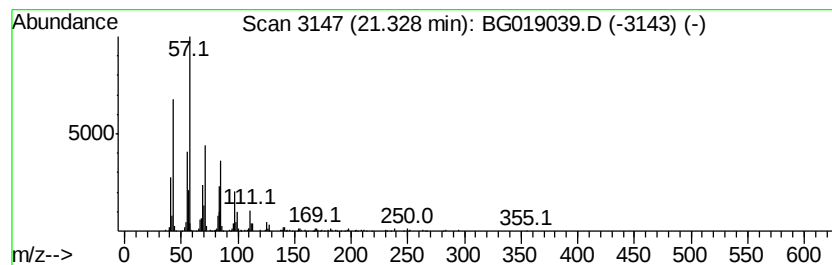
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.33 | 5.89 ng/ul | 286170 | Chrysene-d12     | 21.68 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane       | 226 | C16H34  | 000544-76-3 | 94   |
| 2    |    | Tritetracontane  | 605 | C43H88  | 007098-21-7 | 91   |
| 3    |    | Tetratriacontane | 479 | C34H70  | 014167-59-0 | 90   |
| 4    |    | Hexadecane       | 226 | C16H34  | 000544-76-3 | 86   |
| 5    |    | Pentadecane      | 212 | C15H32  | 000629-62-9 | 81   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

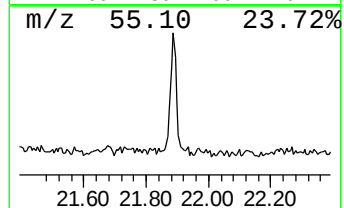
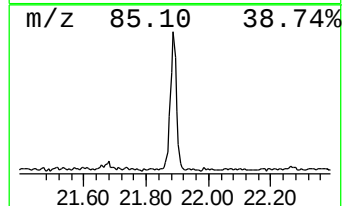
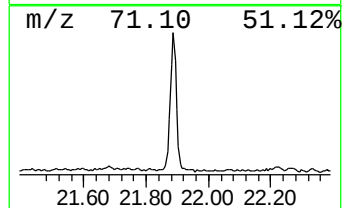
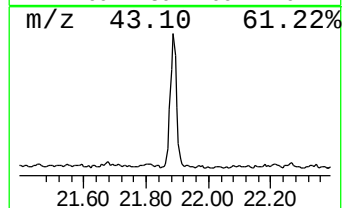
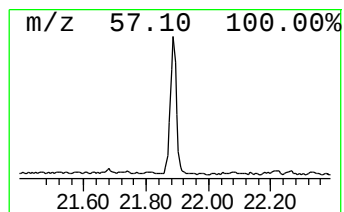
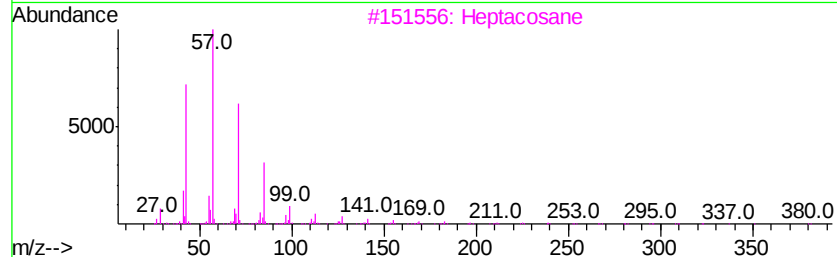
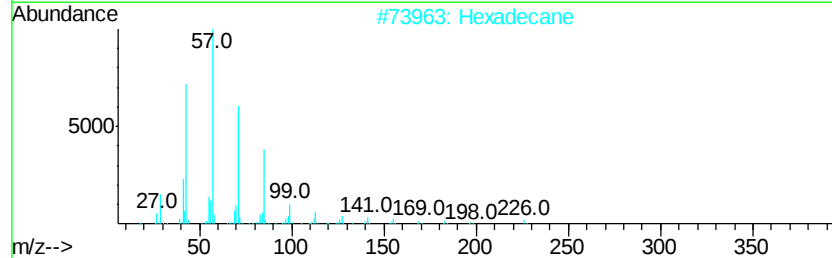
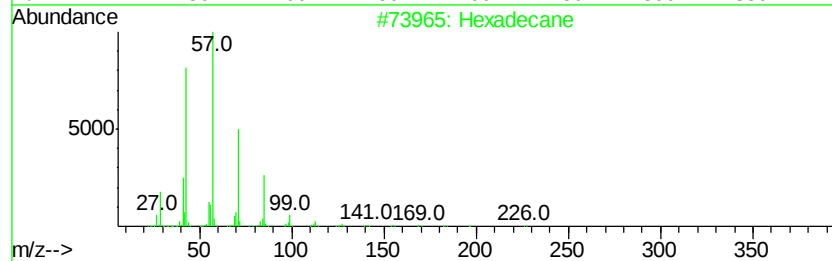
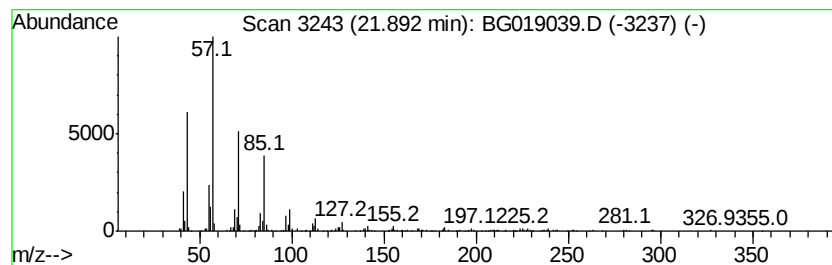
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.89 | 5.63 ng/ul | 273421 | Chrysene-d12     | 21.68 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane             | 226 | C16H34  | 000544-76-3 | 97   |
| 2    |    |   | Hexadecane             | 226 | C16H34  | 000544-76-3 | 96   |
| 3    |    |   | Heptacosane            | 380 | C27H56  | 000593-49-7 | 91   |
| 4    |    |   | Octacosane             | 394 | C28H58  | 000630-02-4 | 91   |
| 5    |    |   | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 91   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

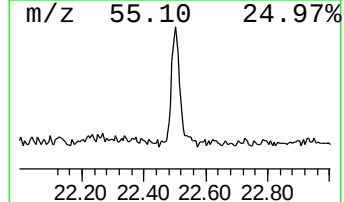
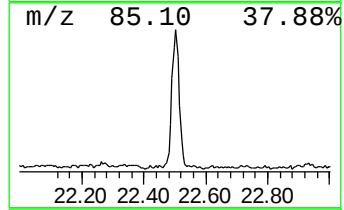
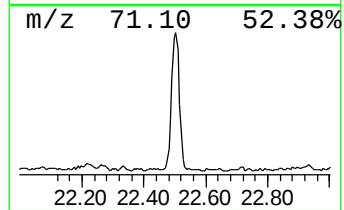
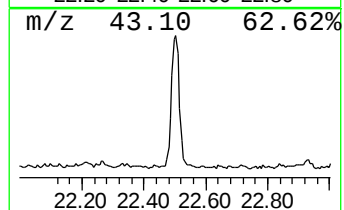
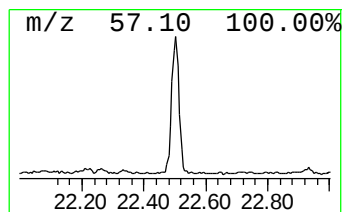
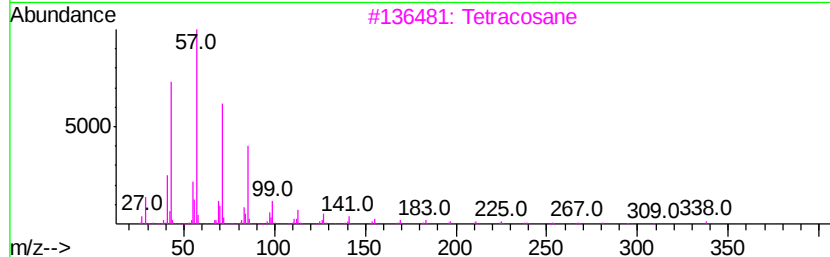
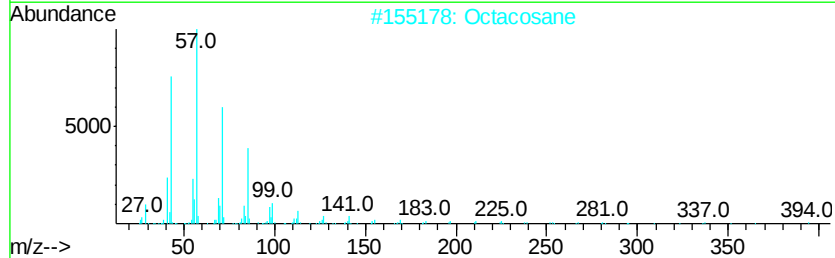
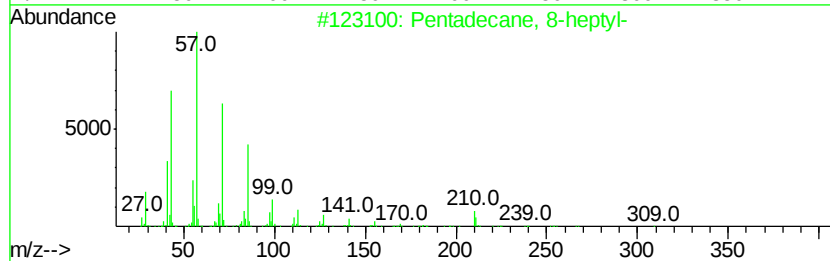
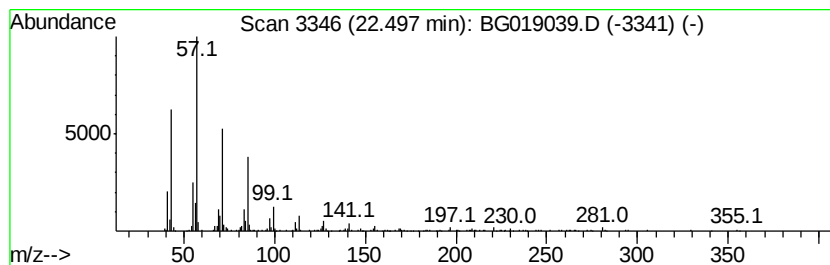
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.50 | 5.39 ng/ul | 261639 | Chrysene-d12     | 21.68 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 91   |
| 2    |    | Octacosane             | 394 | C28H58  | 000630-02-4 | 90   |
| 3    |    | Tetracosane            | 338 | C24H50  | 000646-31-1 | 90   |
| 4    |    | Pentacosane            | 352 | C25H52  | 000629-99-2 | 90   |
| 5    |    | Tridecane, 1-iodo-     | 310 | C13H27I | 035599-77-0 | 87   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

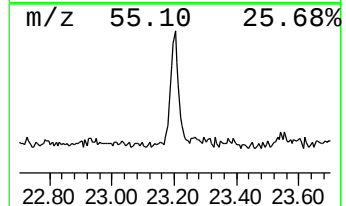
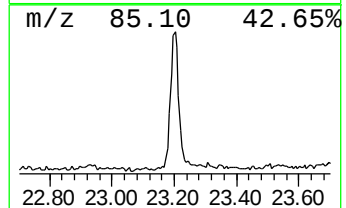
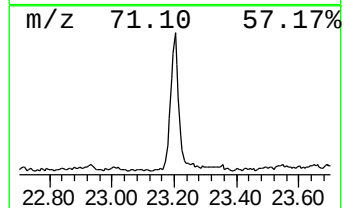
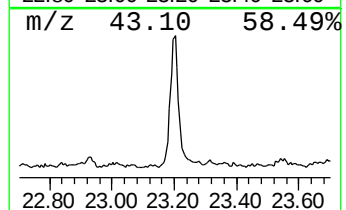
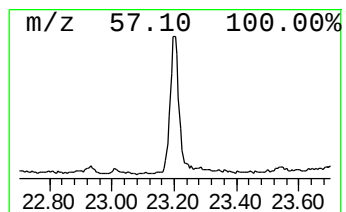
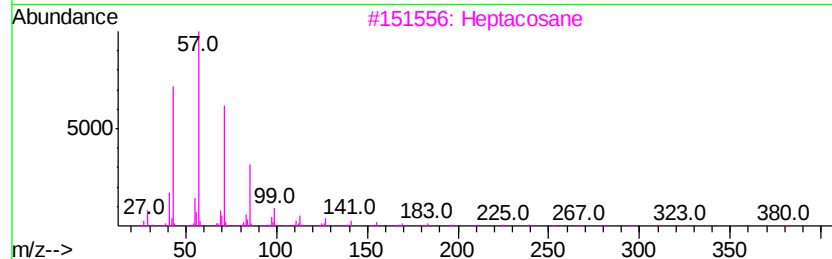
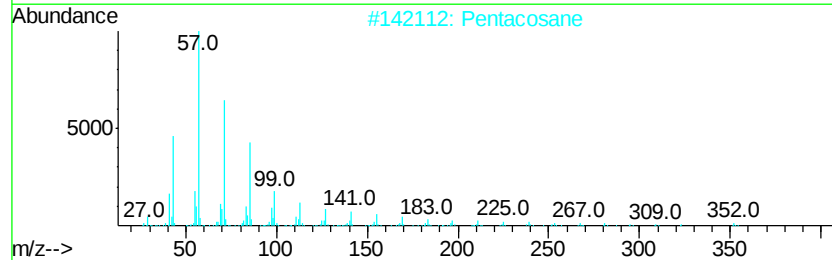
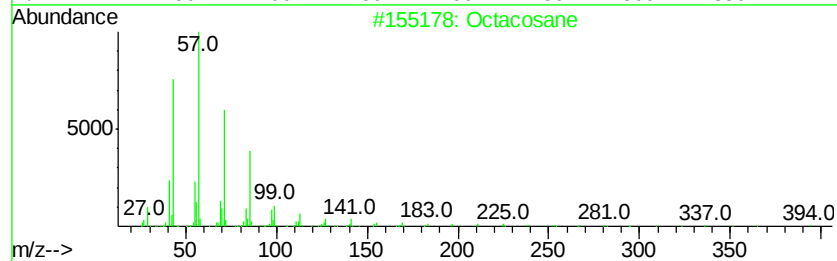
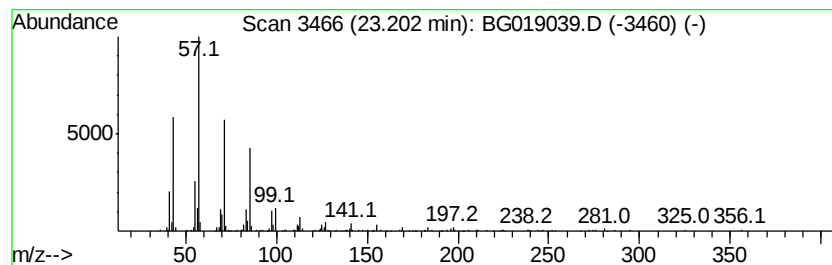
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.20 | 4.75 ng/ul | 230619 | Chrysene-d12     | 21.68 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Octacosane             | 394 | C28H58  | 000630-02-4 | 91   |
| 2    |    |   | Pentacosane            | 352 | C25H52  | 000629-99-2 | 91   |
| 3    |    |   | Heptacosane            | 380 | C27H56  | 000593-49-7 | 90   |
| 4    |    |   | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 90   |
| 5    |    |   | Tetracosane            | 338 | C24H50  | 000646-31-1 | 87   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

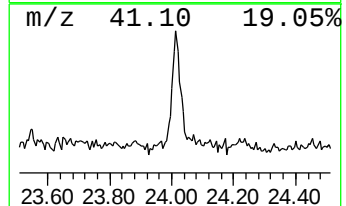
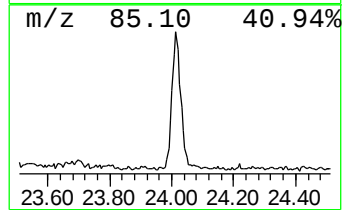
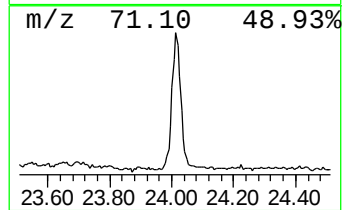
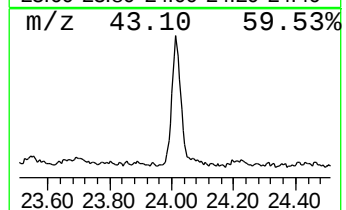
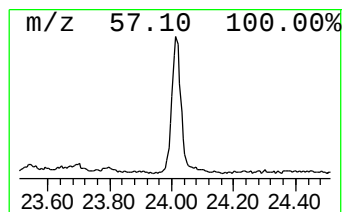
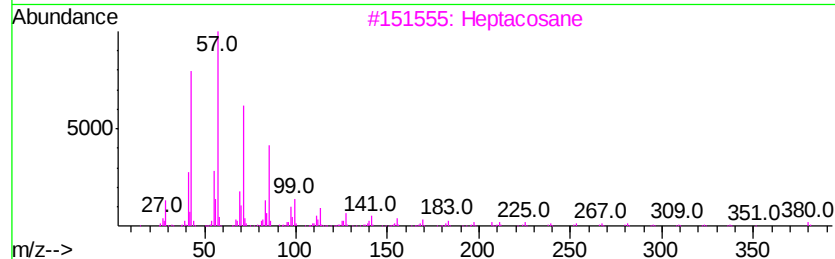
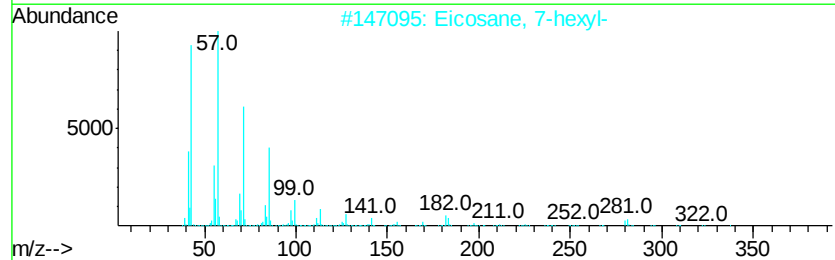
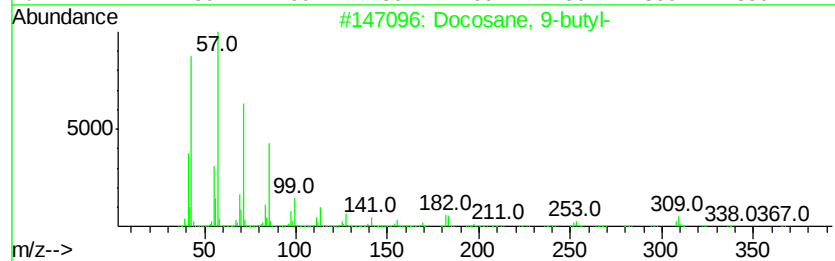
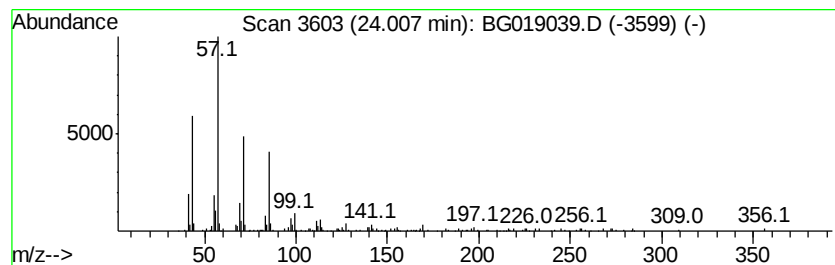
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.01 | 4.77 ng/ul | 210489 | Perylene-d12     | 24.91 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Docosane, 9-butyl-     | 366 | C26H54  | 055282-14-9 | 91   |
| 2    |    | Eicosane, 7-hexyl-     | 366 | C26H54  | 055333-99-8 | 91   |
| 3    |    | Heptacosane            | 380 | C27H56  | 000593-49-7 | 90   |
| 4    |    | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 90   |
| 5    |    | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

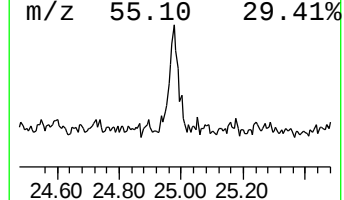
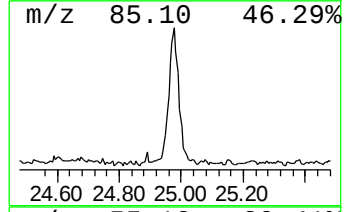
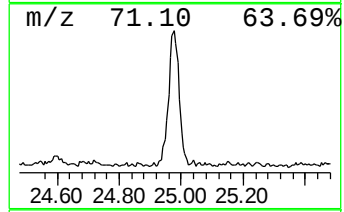
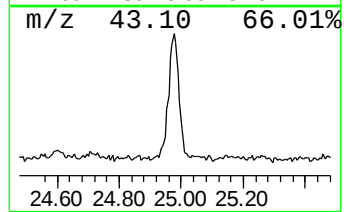
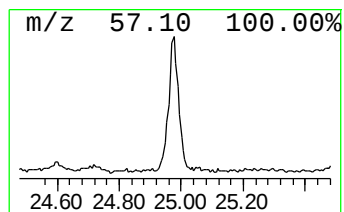
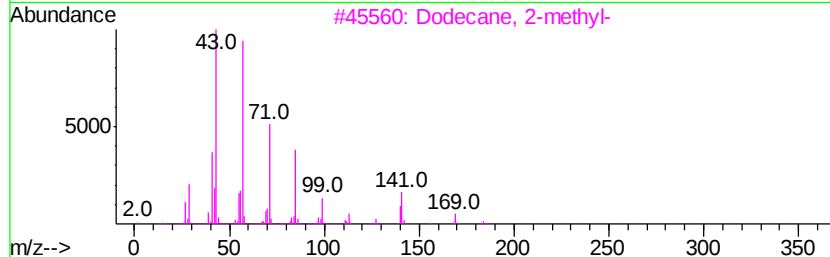
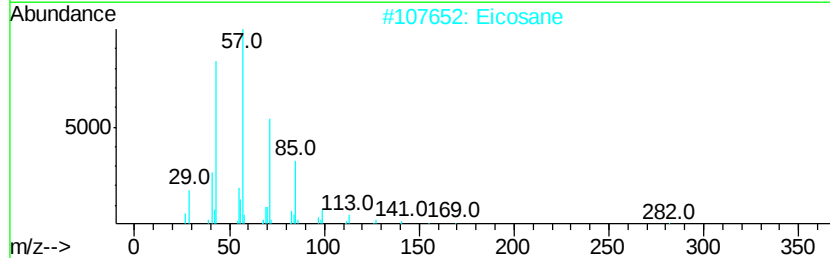
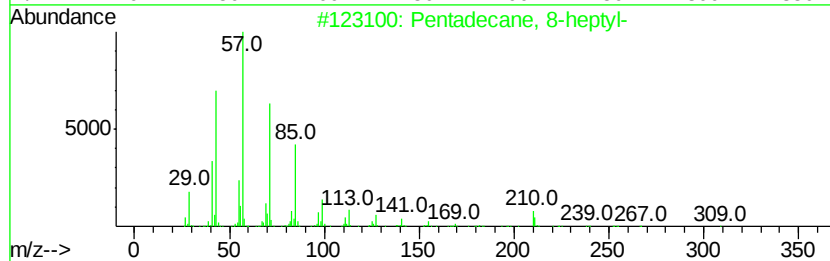
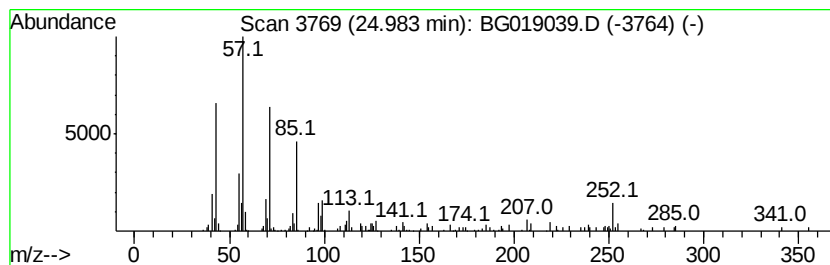
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.98 | 3.95 ng/ul | 174611 | Perylene-d12     | 24.91 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 80   |
| 2    |    |   | Eicosane               | 282 | C20H42  | 000112-95-8 | 80   |
| 3    |    |   | Dodecane, 2-methyl-    | 184 | C13H28  | 001560-97-0 | 74   |
| 4    |    |   | Eicosane               | 282 | C20H42  | 000112-95-8 | 74   |
| 5    |    |   | Nonadecane             | 268 | C19H40  | 000629-92-5 | 72   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG100515\  
Data File : BG019039.D  
Acq On : 5 Oct 2015 22:45  
Operator : UM/NP  
Sample : G3865-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
E5MY1

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION

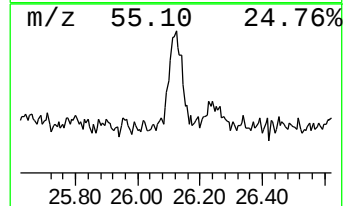
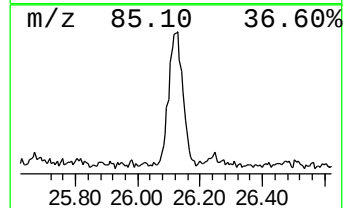
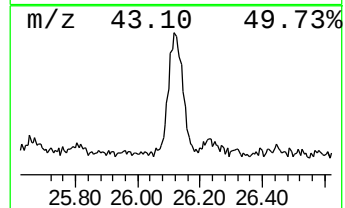
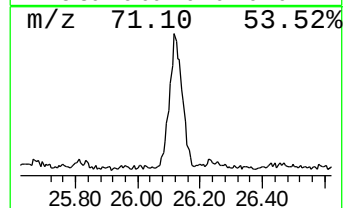
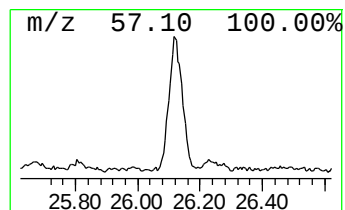
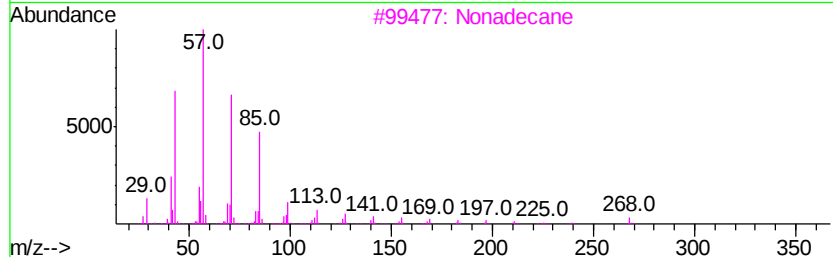
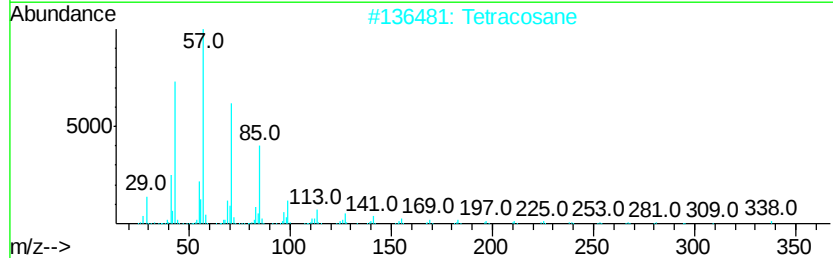
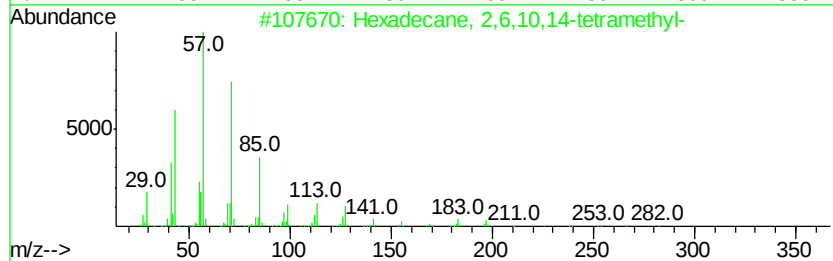
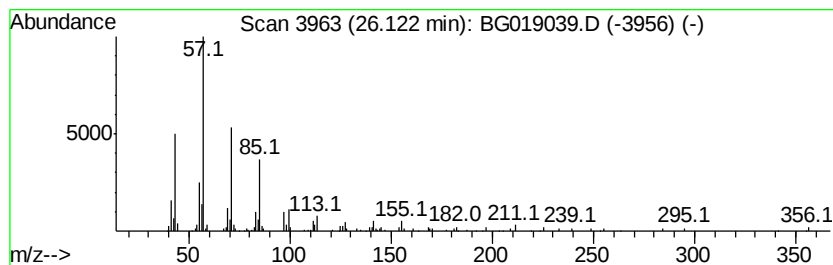
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.12 | 3.82 ng/ul | 168685 | Perylene-d12     | 24.91 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 87   |
| 2    |    |   | Tetracosane                        | 338 | C24H50  | 000646-31-1 | 87   |
| 3    |    |   | Nonadecane                         | 268 | C19H40  | 000629-92-5 | 83   |
| 4    |    |   | Pentadecane, 8-heptyl-             | 310 | C22H46  | 071005-15-7 | 83   |
| 5    |    |   | Heptacosane                        | 380 | C27H56  | 000593-49-7 | 80   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG100515\  
 Data File : BG019039.D  
 Acq On : 5 Oct 2015 22:45  
 Operator : UM/NP  
 Sample : G3865-02  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E5MY1

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG100415.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... | 3.24  | 61.4    | ng/ul | 731430   | 1                     | 8.05  | 238170 | 20.0 |
| (DEL) Alkane: Str... | 16.40 | 2.7     | ng/ul | 103377   | 4                     | 17.41 | 763189 | 20.0 |
| (DEL) Alkane: Str... | 17.17 | 2.0     | ng/ul | 76445    | 4                     | 17.41 | 763189 | 20.0 |
| Tetradecanoic acid   | 18.31 | 2.1     | ng/ul | 79400    | 4                     | 17.41 | 763189 | 20.0 |
| (DEL) Alkane: Str... | 18.60 | 2.3     | ng/ul | 86021    | 4                     | 17.41 | 763189 | 20.0 |
| Hexadecanoic acid... | 19.72 | 26.6    | ng/ul | 1292510  | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 20.33 | 2.3     | ng/ul | 112295   | 5                     | 21.68 | 970950 | 20.0 |
| Octadecanoic acid... | 20.76 | 18.9    | ng/ul | 915585   | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 20.83 | 3.8     | ng/ul | 182765   | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 21.33 | 5.9     | ng/ul | 286170   | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 21.89 | 5.6     | ng/ul | 273421   | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 22.50 | 5.4     | ng/ul | 261639   | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 23.20 | 4.8     | ng/ul | 230619   | 5                     | 21.68 | 970950 | 20.0 |
| (DEL) Alkane: Str... | 24.01 | 4.8     | ng/ul | 210489   | 6                     | 24.91 | 883382 | 20.0 |
| (DEL) Alkane: Str... | 24.98 | 4.0     | ng/ul | 174611   | 6                     | 24.91 | 883382 | 20.0 |
| (DEL) Alkane: Str... | 26.12 | 3.8     | ng/ul | 168685   | 6                     | 24.91 | 883382 | 20.0 |