

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121318\  
 Data File : BM018141.D  
 Acq On : 13 Dec 2018 22:31  
 Operator : JU/SJ  
 Sample : J6236-19  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9F19

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.005       | 17            | 20          | 22           | rBV4     | 4439           | 5394          | 0.12%           | 0.014%        |
| 2         | 3.105       | 33            | 37          | 44           | rVB      | 28036          | 38840         | 0.90%           | 0.100%        |
| 3         | 3.387       | 77            | 85          | 88           | rBV4     | 6414           | 13126         | 0.30%           | 0.034%        |
| 4         | 3.605       | 116           | 122         | 124          | rBV4     | 7590           | 10397         | 0.24%           | 0.027%        |
| 5         | 3.704       | 133           | 139         | 146          | rVB      | 28890          | 47611         | 1.10%           | 0.123%        |
| 6         | 3.793       | 150           | 154         | 159          | rVB2     | 3686           | 5882          | 0.14%           | 0.015%        |
| 7         | 3.899       | 167           | 172         | 178          | rBV2     | 33310          | 47444         | 1.10%           | 0.123%        |
| 8         | 4.152       | 212           | 215         | 219          | rVB3     | 3795           | 4986          | 0.12%           | 0.013%        |
| 9         | 4.675       | 296           | 304         | 319          | rBV      | 48265          | 87732         | 2.03%           | 0.227%        |
| 10        | 5.651       | 466           | 470         | 475          | rBV3     | 4264           | 6330          | 0.15%           | 0.016%        |
| 11        | 5.940       | 514           | 519         | 526          | rBV3     | 29673          | 43809         | 1.01%           | 0.113%        |
| 12        | 6.704       | 643           | 649         | 663          | rBV2     | 446351         | 919943        | 21.25%          | 2.376%        |
| 13        | 6.863       | 670           | 676         | 686          | rBV      | 403283         | 618783        | 14.30%          | 1.598%        |
| 14        | 7.051       | 700           | 708         | 718          | rBV      | 499354         | 829932        | 19.17%          | 2.144%        |
| 15        | 7.510       | 779           | 786         | 795          | rBV      | 425038         | 688248        | 15.90%          | 1.778%        |
| 16        | 8.228       | 901           | 908         | 922          | rBV      | 537187         | 941304        | 21.75%          | 2.432%        |
| 17        | 8.339       | 922           | 927         | 930          | rVB5     | 4974           | 7243          | 0.17%           | 0.019%        |
| 18        | 8.669       | 976           | 983         | 994          | rBV      | 469582         | 792526        | 18.31%          | 2.047%        |
| 19        | 9.051       | 1041          | 1048        | 1053         | rVB2     | 27707          | 39751         | 0.92%           | 0.103%        |
| 20        | 9.381       | 1096          | 1104        | 1114         | rBV      | 414847         | 703429        | 16.25%          | 1.817%        |
| 21        | 9.916       | 1187          | 1195        | 1214         | rBV      | 529445         | 987470        | 22.81%          | 2.551%        |
| 22        | 10.275      | 1246          | 1256        | 1267         | rBV      | 609171         | 983129        | 22.71%          | 2.540%        |
| 23        | 10.433      | 1276          | 1283        | 1309         | rBV      | 412686         | 915130        | 21.14%          | 2.364%        |
| 24        | 11.533      | 1465          | 1470        | 1474         | rBV2     | 3039           | 5032          | 0.12%           | 0.013%        |
| 25        | 11.704      | 1492          | 1499        | 1504         | rVB4     | 4376           | 5821          | 0.13%           | 0.015%        |
| 26        | 11.904      | 1527          | 1533        | 1541         | rBV3     | 5569           | 12258         | 0.28%           | 0.032%        |
| 27        | 13.592      | 1813          | 1820        | 1824         | rBV      | 1207862        | 1741360       | 40.23%          | 4.498%        |
| 28        | 13.639      | 1824          | 1828        | 1836         | rVB      | 220292         | 326313        | 7.54%           | 0.843%        |
| 29        | 13.857      | 1858          | 1865        | 1878         | rBV      | 1294025        | 1986063       | 45.88%          | 5.130%        |
| 30        | 14.074      | 1898          | 1902        | 1905         | rVB2     | 4110           | 4467          | 0.10%           | 0.012%        |
| 31        | 14.169      | 1911          | 1918        | 1930         | rVB2     | 909237         | 1454302       | 33.60%          | 3.757%        |
| 32        | 14.410      | 1953          | 1959        | 1971         | rBV      | 343476         | 714284        | 16.50%          | 1.845%        |
| 33        | 14.627      | 1991          | 1996        | 2002         | rVB5     | 11914          | 20406         | 0.47%           | 0.053%        |
| 34        | 14.974      | 2051          | 2055        | 2059         | rBV3     | 6316           | 9994          | 0.23%           | 0.026%        |

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 15.033 | 2059 | 2065 | 2068 | rVB3 | 7156    | 12682   | 0.29%  | 0.033% |
| 36 | 15.168 | 2080 | 2088 | 2098 | rBV  | 1958279 | 2786969 | 64.39% | 7.199% |
| 37 | 15.245 | 2098 | 2101 | 2104 | rVB2 | 6649    | 7264    | 0.17%  | 0.019% |
| 38 | 15.321 | 2107 | 2114 | 2125 | rBV  | 592311  | 932082  | 21.53% | 2.408% |
| 39 | 15.410 | 2125 | 2129 | 2135 | rVB3 | 21558   | 33283   | 0.77%  | 0.086% |
| 40 | 15.904 | 2209 | 2213 | 2219 | rBV2 | 7208    | 11779   | 0.27%  | 0.030% |
| 41 | 16.080 | 2239 | 2243 | 2245 | rVV3 | 3660    | 4792    | 0.11%  | 0.012% |
| 42 | 16.310 | 2278 | 2282 | 2286 | rBV3 | 3688    | 7087    | 0.16%  | 0.018% |
| 43 | 16.486 | 2307 | 2312 | 2318 | rVB3 | 17066   | 25952   | 0.60%  | 0.067% |
| 44 | 16.704 | 2343 | 2349 | 2355 | rBV6 | 8195    | 22642   | 0.52%  | 0.058% |
| 45 | 16.845 | 2369 | 2373 | 2374 | rBV  | 6071    | 5707    | 0.13%  | 0.015% |
| 46 | 16.857 | 2374 | 2375 | 2381 | rVV5 | 6218    | 7437    | 0.17%  | 0.019% |
| 47 | 16.927 | 2381 | 2387 | 2396 | rVV  | 1325458 | 1873982 | 43.29% | 4.841% |
| 48 | 17.027 | 2397 | 2404 | 2419 | rVV  | 1891624 | 2776085 | 64.13% | 7.171% |
| 49 | 17.121 | 2419 | 2420 | 2425 | rVB3 | 3488    | 4351    | 0.10%  | 0.011% |
| 50 | 17.233 | 2436 | 2439 | 2442 | rBV4 | 4065    | 5200    | 0.12%  | 0.013% |
| 51 | 17.427 | 2470 | 2472 | 2476 | rVV3 | 5823    | 8326    | 0.19%  | 0.022% |
| 52 | 17.609 | 2500 | 2503 | 2508 | rVB5 | 4220    | 6043    | 0.14%  | 0.016% |
| 53 | 17.709 | 2517 | 2520 | 2526 | rBV6 | 6644    | 12180   | 0.28%  | 0.031% |
| 54 | 17.774 | 2529 | 2531 | 2532 | rBV2 | 6206    | 4709    | 0.11%  | 0.012% |
| 55 | 17.839 | 2537 | 2542 | 2552 | rBV  | 226080  | 344008  | 7.95%  | 0.889% |
| 56 | 17.904 | 2552 | 2553 | 2557 | rVV4 | 4226    | 5413    | 0.13%  | 0.014% |
| 57 | 18.127 | 2588 | 2591 | 2597 | rVB6 | 8760    | 15919   | 0.37%  | 0.041% |
| 58 | 18.339 | 2624 | 2627 | 2630 | rVB4 | 5522    | 7788    | 0.18%  | 0.020% |
| 59 | 18.386 | 2630 | 2635 | 2637 | rBV4 | 7021    | 10138   | 0.23%  | 0.026% |
| 60 | 18.521 | 2656 | 2658 | 2663 | rVB6 | 5080    | 6645    | 0.15%  | 0.017% |
| 61 | 18.704 | 2687 | 2689 | 2695 | rBV6 | 5240    | 7642    | 0.18%  | 0.020% |
| 62 | 18.774 | 2696 | 2701 | 2703 | rBV5 | 8818    | 10614   | 0.25%  | 0.027% |
| 63 | 18.974 | 2731 | 2735 | 2740 | rBV2 | 23041   | 46277   | 1.07%  | 0.120% |
| 64 | 19.133 | 2757 | 2762 | 2767 | rBV3 | 107316  | 160810  | 3.72%  | 0.415% |
| 65 | 19.221 | 2774 | 2777 | 2784 | rVB2 | 22241   | 27557   | 0.64%  | 0.071% |
| 66 | 19.280 | 2784 | 2787 | 2791 | rBV  | 97776   | 97696   | 2.26%  | 0.252% |
| 67 | 19.339 | 2791 | 2797 | 2805 | rBV  | 2482601 | 3427229 | 79.18% | 8.853% |
| 68 | 19.751 | 2862 | 2867 | 2868 | rBV5 | 8836    | 12072   | 0.28%  | 0.031% |
| 69 | 20.186 | 2938 | 2941 | 2943 | rBV3 | 10809   | 11088   | 0.26%  | 0.029% |
| 70 | 20.233 | 2947 | 2949 | 2950 | rBV2 | 10925   | 7098    | 0.16%  | 0.018% |
| 71 | 20.298 | 2957 | 2960 | 2961 | rBV3 | 16254   | 15624   | 0.36%  | 0.040% |

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|----|--------|------|------|------|------|---------|---------|---------|---------|
| 72 | 20.339 | 2963 | 2967 | 2972 | rVB  | 83380   | 92424   | 2.14%   | 0.239%  |
| 73 | 20.392 | 2974 | 2976 | 2978 | rBV3 | 12635   | 14802   | 0.34%   | 0.038%  |
| 74 | 20.703 | 3027 | 3029 | 3030 | rBV2 | 14038   | 7944    | 0.18%   | 0.021%  |
| 75 | 20.868 | 3053 | 3057 | 3064 | rVB2 | 200240  | 276543  | 6.39%   | 0.714%  |
| 76 | 21.050 | 3086 | 3088 | 3089 | rBV2 | 19160   | 11437   | 0.26%   | 0.030%  |
| 77 | 21.109 | 3096 | 3098 | 3099 | rBV2 | 21776   | 16859   | 0.39%   | 0.044%  |
| 78 | 21.145 | 3099 | 3104 | 3110 | rVV  | 1930935 | 2419706 | 55.90%  | 6.251%  |
| 79 | 21.727 | 3201 | 3203 | 3206 | rBV2 | 67173   | 52980   | 1.22%   | 0.137%  |
| 80 | 22.174 | 3276 | 3279 | 3287 | rVB3 | 118978  | 147330  | 3.40%   | 0.381%  |
| 81 | 22.656 | 3358 | 3361 | 3366 | rVB2 | 161873  | 212748  | 4.91%   | 0.550%  |
| 82 | 23.174 | 3441 | 3449 | 3457 | rBV  | 2365118 | 4328583 | 100.00% | 11.182% |
| 83 | 23.303 | 3465 | 3471 | 3479 | rVB  | 1313479 | 2523769 | 58.30%  | 6.520%  |
| 84 | 23.803 | 3550 | 3556 | 3563 | rBV2 | 237092  | 451042  | 10.42%  | 1.165%  |
| 85 | 24.503 | 3668 | 3675 | 3681 | rBV4 | 171240  | 373895  | 8.64%   | 0.966%  |

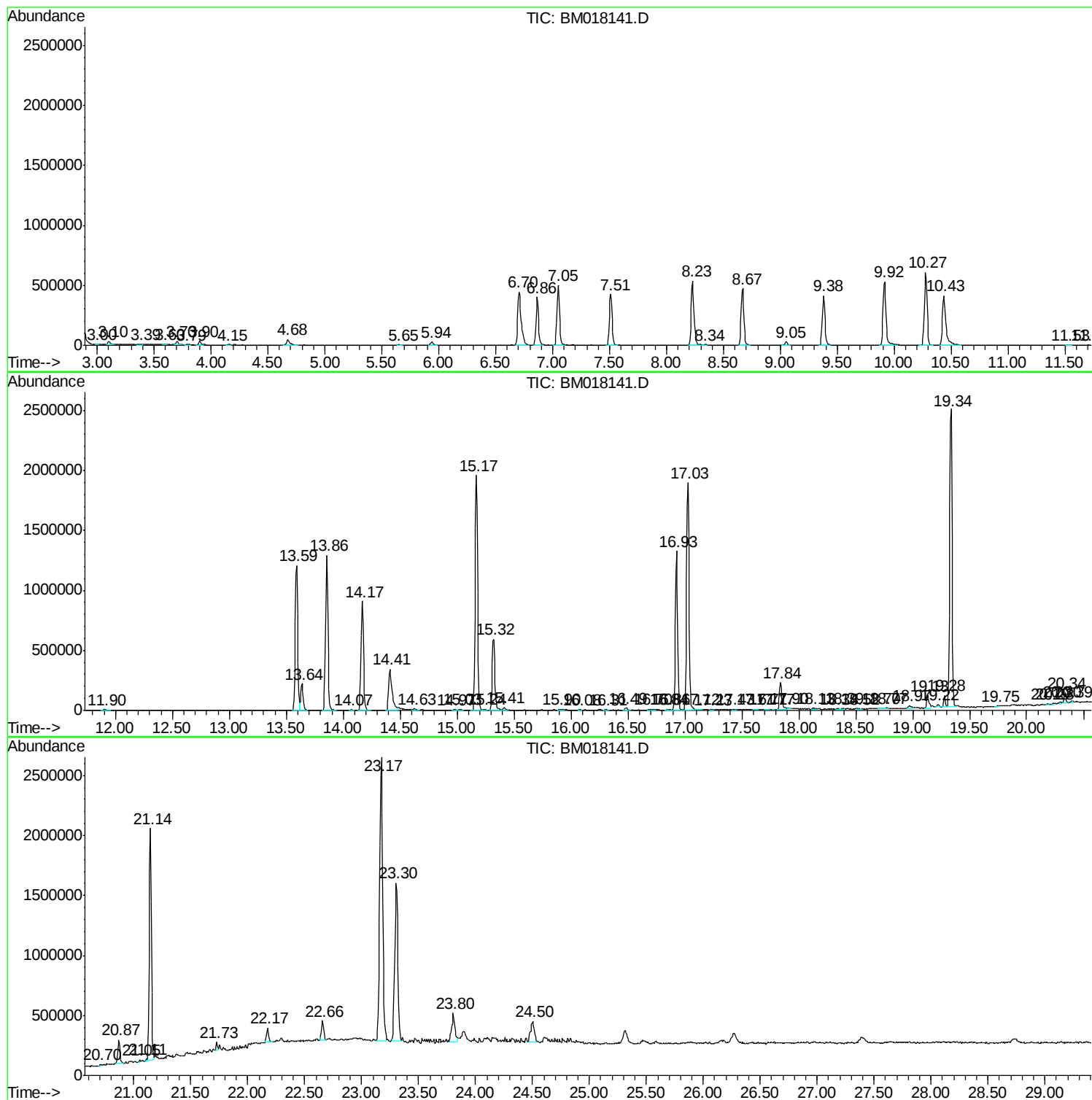
Sum of corrected areas: 38710971

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.M  
Quant Title : SVOA CALIBRATION

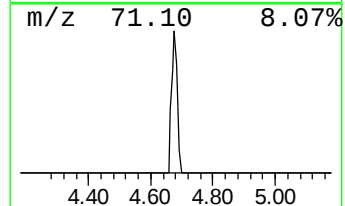
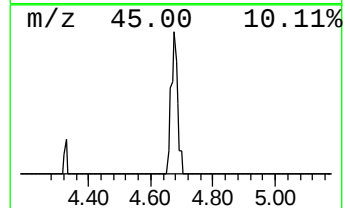
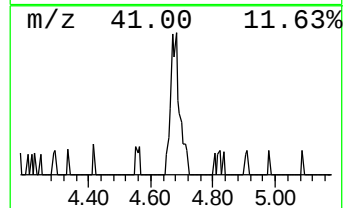
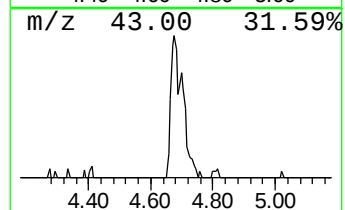
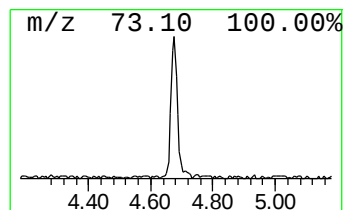
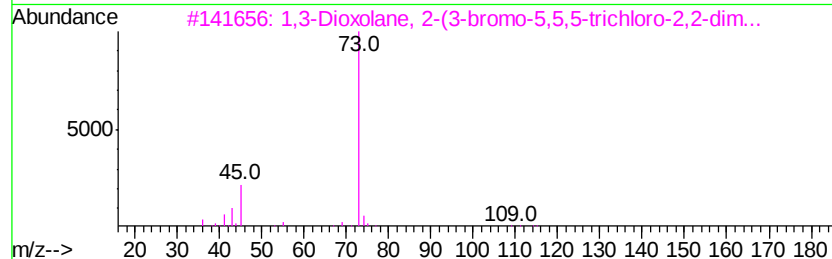
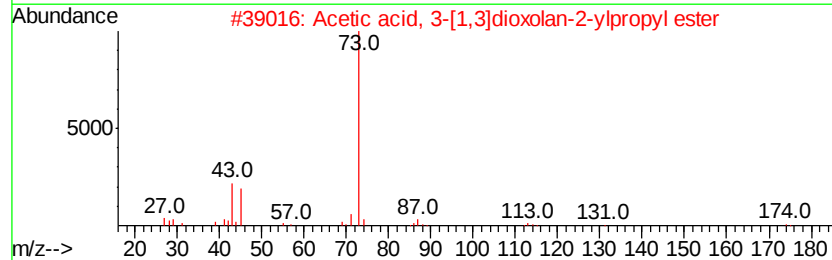
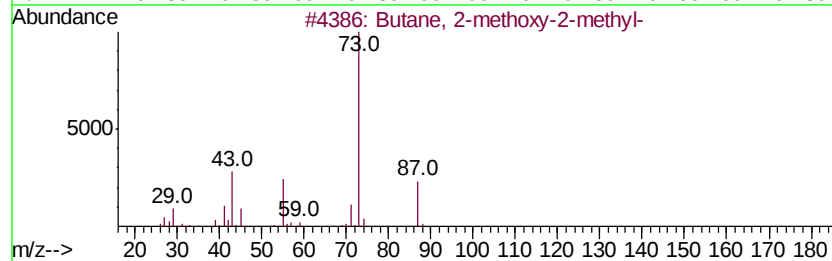
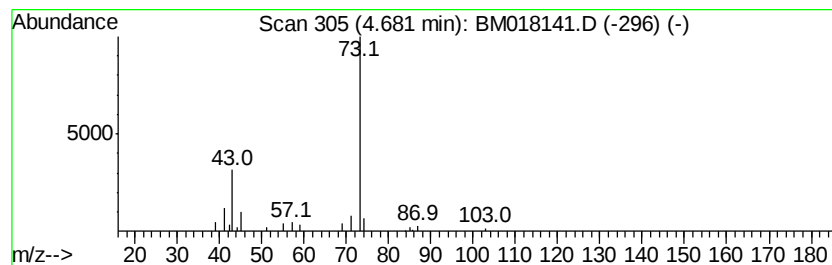
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 4

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 4.68 | 2.55 ng/ul | 87732 | 1,4-Dichlorobenzene-d4 | 7.51 |

| Hit# | of | Tentative ID                                             | MW  | MolForm       | CAS#         | Qual |
|------|----|----------------------------------------------------------|-----|---------------|--------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-                              | 102 | C6H14O        | 000994-05-8  | 36   |
| 2    |    | Acetic acid, 3-[1,3]dioxolan-2-ylpropyl ester            | 174 | C8H14O4       | 1000186-02-3 | 25   |
| 3    |    | 1,3-Dioxolane, 2-(3-bromo-5,5,5-trichloro-2,2-dimethyl-) | 352 | C10H16BrCl3O2 | 1000115-31-4 | 23   |
| 4    |    | Octanal, 7-methoxy-3,7-dimethyl-                         | 186 | C11H22O2      | 003613-30-7  | 9    |
| 5    |    | 3-Hexanol, 2-methyl-                                     | 116 | C7H16O        | 000617-29-8  | 9    |



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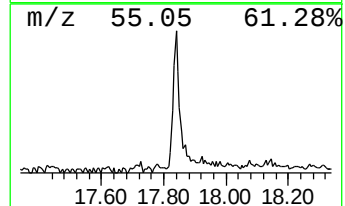
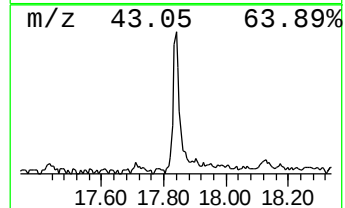
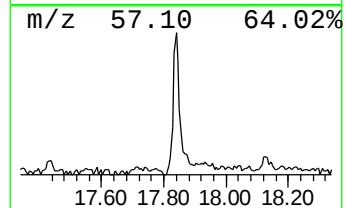
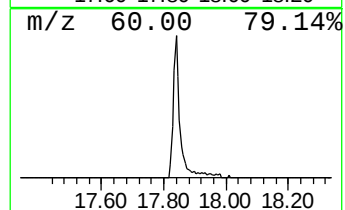
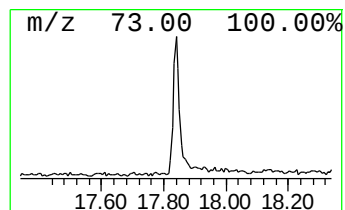
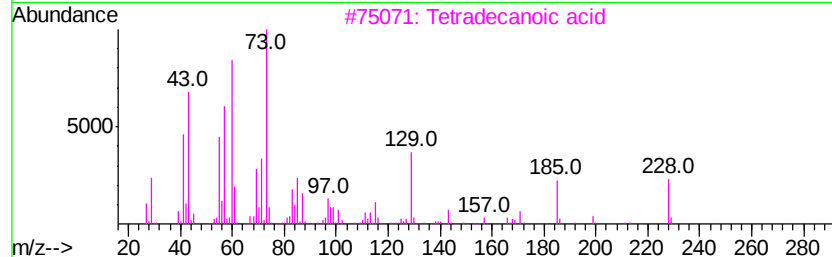
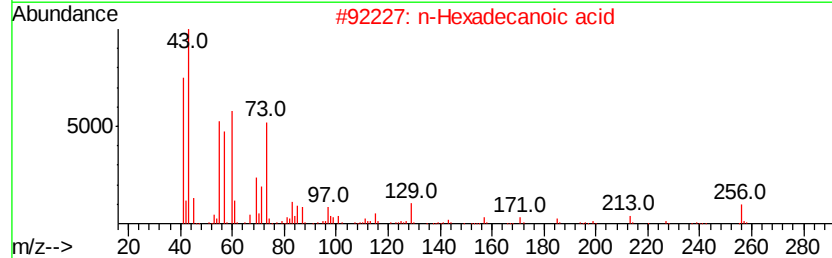
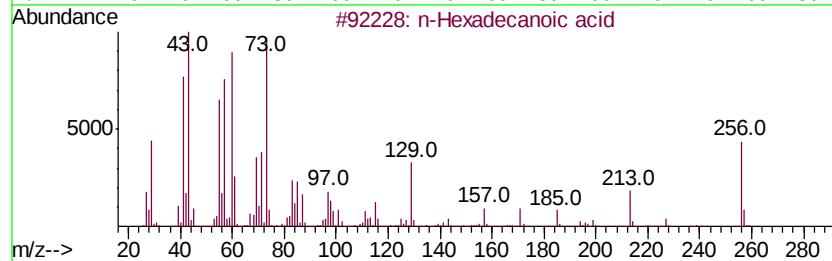
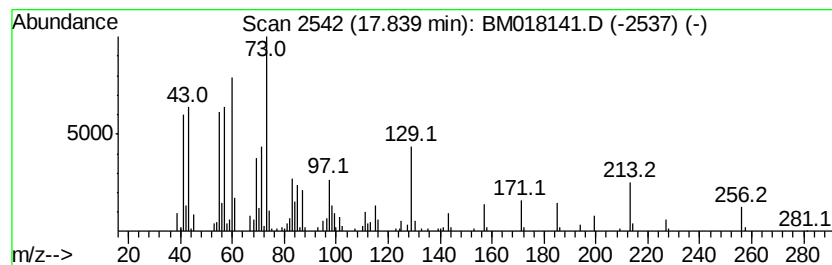
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 n-Hexadecanoic acid Concentration Rank 1

| R.T.    | EstConc             | Area         | Relative to ISTD |          | R.T.        |      |
|---------|---------------------|--------------|------------------|----------|-------------|------|
| 17.84   | 3.67 ng/ul          | 344008       | Phenanthrene-d10 |          | 16.93       |      |
| Hit# of | 5                   | Tentative ID | MW               | MolForm  | CAS#        | Qual |
| 1       | n-Hexadecanoic acid |              | 256              | C16H32O2 | 000057-10-3 | 96   |
| 2       | n-Hexadecanoic acid |              | 256              | C16H32O2 | 000057-10-3 | 95   |
| 3       | Tetradecanoic acid  |              | 228              | C14H28O2 | 000544-63-8 | 93   |
| 4       | Tridecanoic acid    |              | 214              | C13H26O2 | 000638-53-9 | 91   |
| 5       | n-Decanoic acid     |              | 172              | C10H20O2 | 000334-48-5 | 76   |



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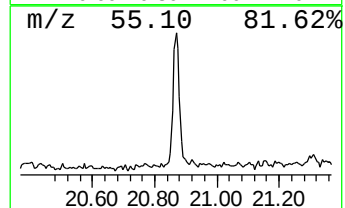
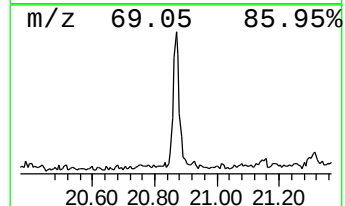
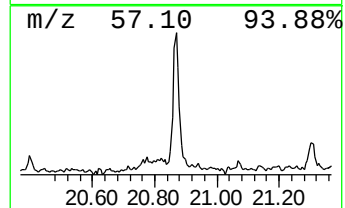
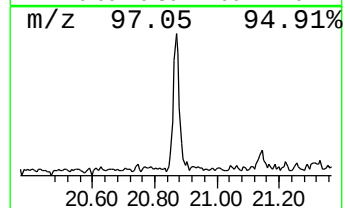
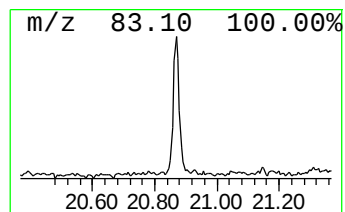
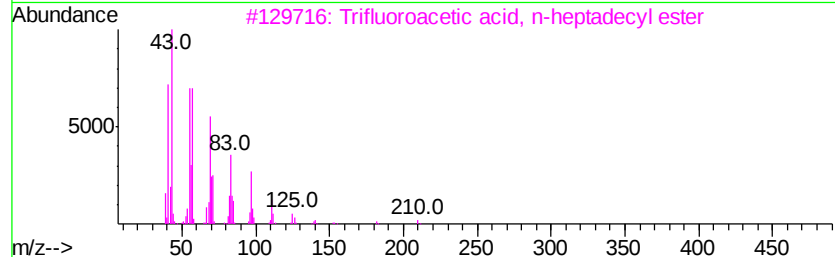
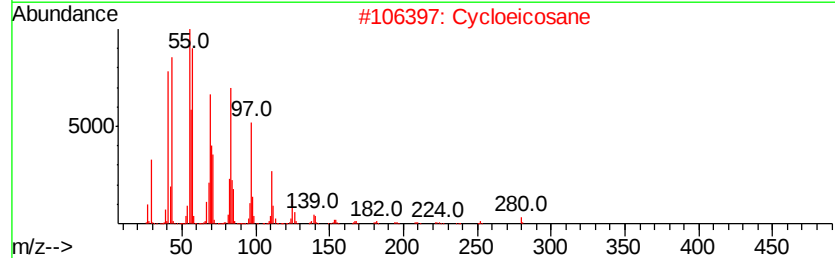
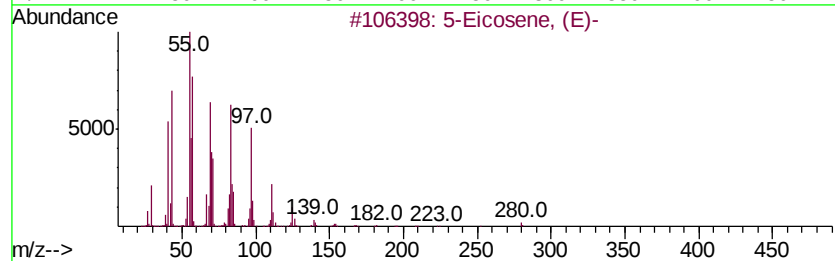
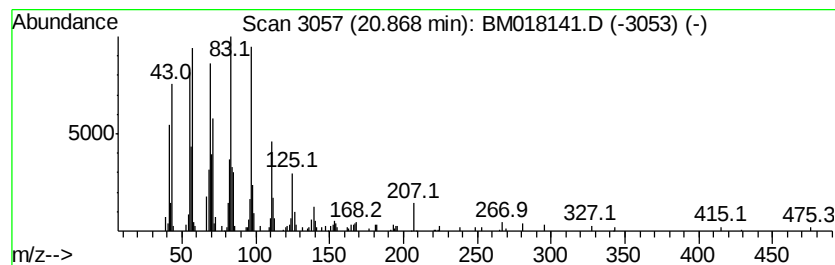
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Cyclic20.87 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.87 | 2.29 ng/ul | 276543 | Chrysene-d12     | 21.14 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm    | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|------------|--------------|------|
| 1       | 5-Eicosene, (E)-                    |              | 280 | C20H40     | 074685-30-6  | 98   |
| 2       | Cycloeicosane                       |              | 280 | C20H40     | 000296-56-0  | 94   |
| 3       | Trifluoroacetic acid, n-heptadec... |              | 324 | C17H31F3O2 | 1000216-79-2 | 91   |
| 4       | 1-Octadecanol                       |              | 270 | C18H38O    | 000112-92-5  | 91   |
| 5       | 1-Nonadecene                        |              | 266 | C19H38     | 018435-45-5  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121318\  
Data File : BM018141.D  
Acq On : 13 Dec 2018 22:31  
Operator : JU/SJ  
Sample : J6236-19  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9F19

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.M  
Quant Title : SVOA CALIBRATION

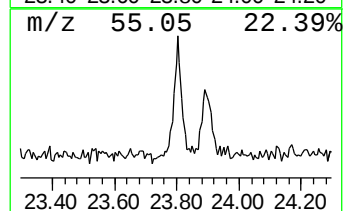
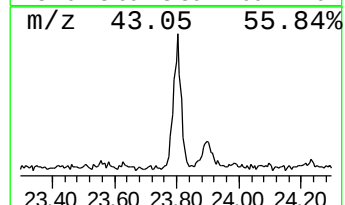
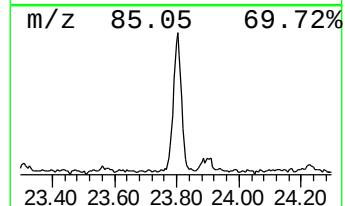
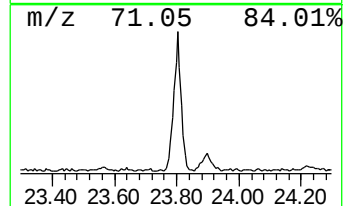
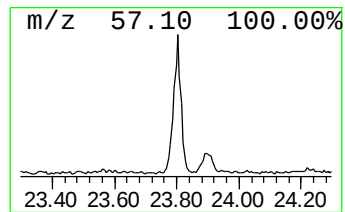
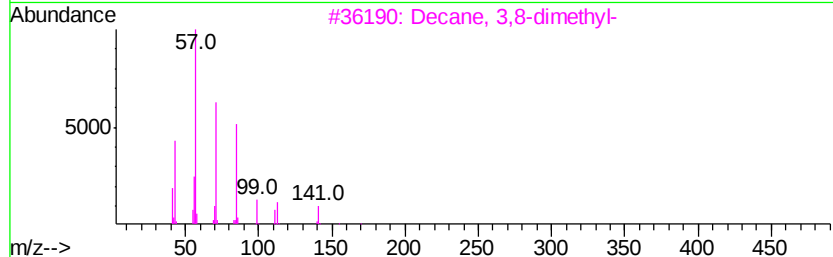
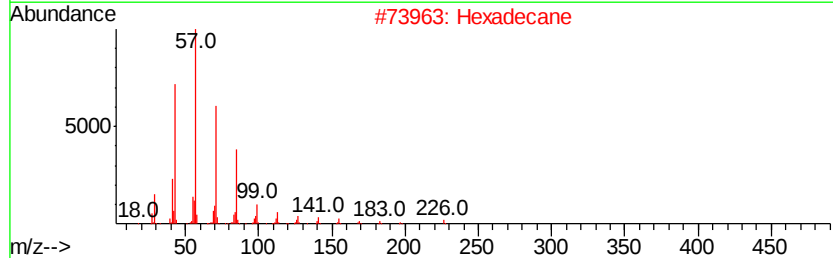
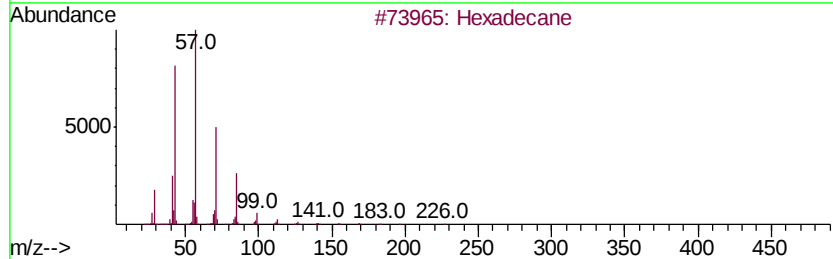
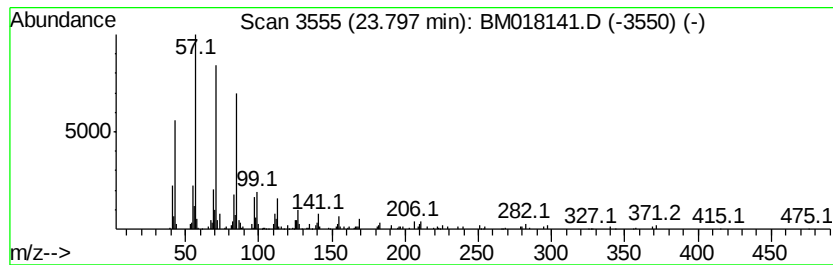
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.80 | 3.57 ng/ul | 451042 | Perylene-d12     | 23.30 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34  | 000544-76-3 | 93   |
| 2    |    | Hexadecane            | 226 | C16H34  | 000544-76-3 | 93   |
| 3    |    | Decane, 3,8-dimethyl- | 170 | C12H26  | 017312-55-9 | 89   |
| 4    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 86   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121318\  
Data File : BM018141.D  
Acq On : 13 Dec 2018 22:31  
Operator : JU/SJ  
Sample : J6236-19  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9F19

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.M  
Quant Title : SVOA CALIBRATION

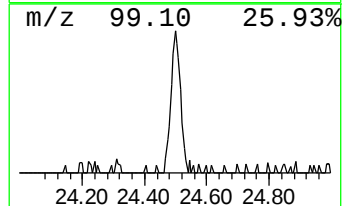
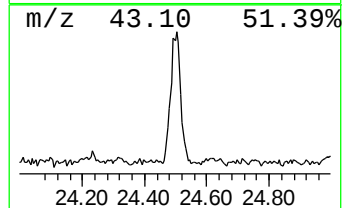
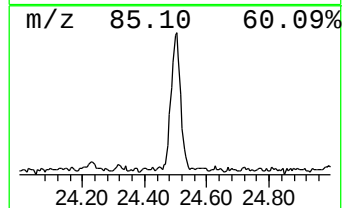
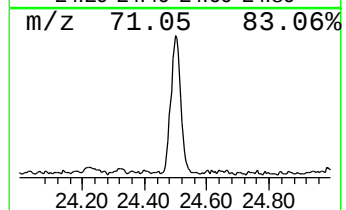
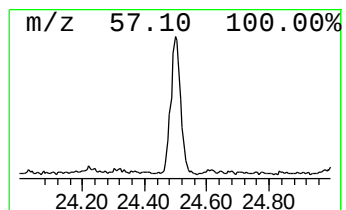
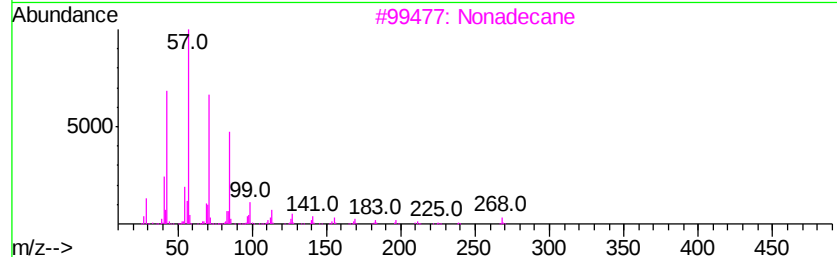
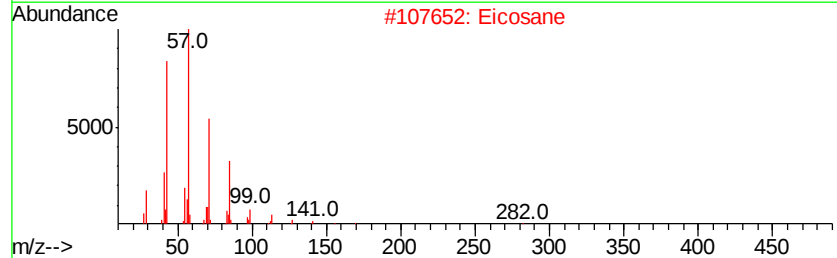
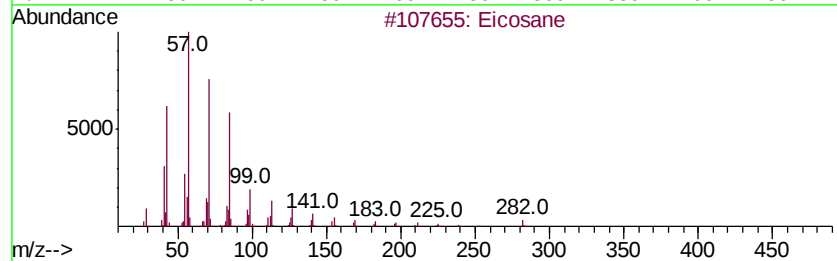
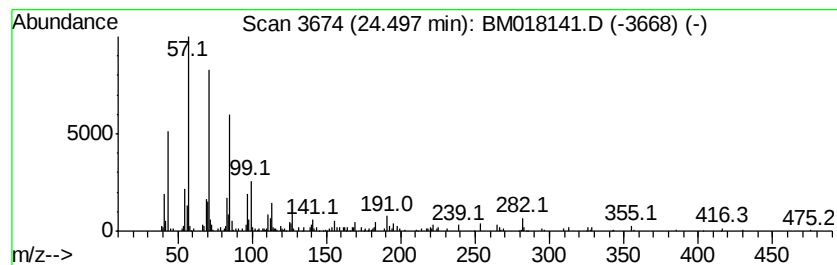
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.50 | 2.96 ng/ul | 373895 | Perylene-d12     | 23.30 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane     | 282 | C20H42  | 000112-95-8 | 98   |
| 2    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 93   |
| 3    |    | Nonadecane   | 268 | C19H40  | 000629-92-5 | 90   |
| 4    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 90   |
| 5    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM121318\  
Data File : BM018141.D  
Acq On : 13 Dec 2018 22:31  
Operator : JU/SJ  
Sample : J6236-19  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9F19

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121318MA.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 |
| unknown-01           | 4.68  | 2.5     | ng/ul | 87732    | 1                     | 7.51  | 688248  | 20.0 |
| n-Hexadecanoic acid  | 17.84 | 3.7     | ng/ul | 344008   | 4                     | 16.93 | 1873980 | 20.0 |
| (DEL) Alkane: Cyc... | 20.87 | 2.3     | ng/ul | 276543   | 5                     | 21.14 | 2419710 | 20.0 |
| (DEL) Alkane: Str... | 23.80 | 3.6     | ng/ul | 451042   | 6                     | 23.30 | 2523770 | 20.0 |
| (DEL) Alkane: Str... | 24.50 | 3.0     | ng/ul | 373895   | 6                     | 23.30 | 2523770 | 20.0 |