

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011518\  
 Data File : BM013599.D  
 Acq On : 15 Jan 2018 23:28  
 Operator : SJ/JU  
 Sample : J1079-19  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DAJK9

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 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\SOM-EPA-BM011018.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         | 6.798       | 642           | 648         | 663          | rVB2     | 620470         | 1166767       | 37.96%          | 3.110%        |
| 2         | 6.963       | 671           | 676         | 685          | rBV      | 520541         | 768799        | 25.01%          | 2.049%        |
| 3         | 7.157       | 702           | 709         | 721          | rVB      | 693406         | 1118844       | 36.40%          | 2.983%        |
| 4         | 7.622       | 779           | 788         | 796          | rBV      | 550080         | 893151        | 29.06%          | 2.381%        |
| 5         | 8.334       | 902           | 909         | 917          | rBV      | 783126         | 1323804       | 43.07%          | 3.529%        |
| 6         | 8.775       | 976           | 984         | 996          | rBV      | 658896         | 1093398       | 35.57%          | 2.915%        |
| 7         | 8.904       | 1000          | 1006        | 1011         | rBV4     | 27875          | 47136         | 1.53%           | 0.126%        |
| 8         | 9.492       | 1099          | 1106        | 1116         | rBV      | 563323         | 953065        | 31.01%          | 2.541%        |
| 9         | 10.028      | 1190          | 1197        | 1205         | rBV      | 786767         | 1365943       | 44.44%          | 3.641%        |
| 10        | 10.398      | 1252          | 1260        | 1267         | rBV      | 702177         | 1174176       | 38.20%          | 3.130%        |
| 11        | 10.545      | 1278          | 1285        | 1297         | rBV      | 674825         | 1236049       | 40.21%          | 3.295%        |
| 12        | 13.092      | 1711          | 1718        | 1723         | rBV4     | 39910          | 62498         | 2.03%           | 0.167%        |
| 13        | 13.686      | 1813          | 1819        | 1824         | rBV      | 1400384        | 1916099       | 62.34%          | 5.108%        |
| 14        | 13.733      | 1824          | 1827        | 1835         | rVB      | 335927         | 469357        | 15.27%          | 1.251%        |
| 15        | 13.957      | 1858          | 1865        | 1875         | rBV      | 1507038        | 2296841       | 74.73%          | 6.123%        |
| 16        | 14.174      | 1896          | 1902        | 1909         | rBV      | 105876         | 144682        | 4.71%           | 0.386%        |
| 17        | 14.268      | 1909          | 1918        | 1926         | rVV2     | 961947         | 1483621       | 48.27%          | 3.955%        |
| 18        | 14.492      | 1950          | 1956        | 1972         | rBV      | 447566         | 806490        | 26.24%          | 2.150%        |
| 19        | 14.798      | 2004          | 2008        | 2013         | rVB4     | 24536          | 39560         | 1.29%           | 0.105%        |
| 20        | 15.133      | 2061          | 2065        | 2070         | rVB2     | 113535         | 140933        | 4.59%           | 0.376%        |
| 21        | 15.268      | 2078          | 2088        | 2094         | rBV      | 1870474        | 2629702       | 85.55%          | 7.010%        |
| 22        | 15.404      | 2103          | 2111        | 2121         | rBV      | 500978         | 754708        | 24.55%          | 2.012%        |
| 23        | 15.539      | 2133          | 2134        | 2139         | rVB      | 34911          | 32986         | 1.07%           | 0.088%        |
| 24        | 15.998      | 2208          | 2212        | 2226         | rBV      | 107379         | 194539        | 6.33%           | 0.519%        |
| 25        | 16.792      | 2343          | 2347        | 2351         | rBV2     | 56624          | 72616         | 2.36%           | 0.194%        |
| 26        | 16.839      | 2351          | 2355        | 2361         | rVB7     | 23538          | 41758         | 1.36%           | 0.111%        |
| 27        | 17.021      | 2380          | 2386        | 2392         | rBV2     | 1141163        | 1630524       | 53.05%          | 4.347%        |
| 28        | 17.121      | 2397          | 2403        | 2413         | rVB      | 1911593        | 2707064       | 88.07%          | 7.216%        |
| 29        | 17.527      | 2468          | 2472        | 2478         | rVB3     | 33973          | 49737         | 1.62%           | 0.133%        |
| 30        | 17.927      | 2535          | 2540        | 2547         | rBV2     | 192943         | 293988        | 9.56%           | 0.784%        |
| 31        | 18.221      | 2586          | 2590        | 2594         | rBV6     | 26339          | 37194         | 1.21%           | 0.099%        |
| 32        | 19.062      | 2728          | 2733        | 2735         | rBV3     | 38019          | 59598         | 1.94%           | 0.159%        |
| 33        | 19.215      | 2754          | 2759        | 2765         | rBV3     | 88150          | 135927        | 4.42%           | 0.362%        |
| 34        | 19.421      | 2788          | 2794        | 2802         | rBV      | 2264623        | 3032227       | 98.65%          | 8.083%        |

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Max Peaks: 100  
Peak Location: TOP

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

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Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 19.480 | 2802 | 2804 | 2808 | rvB4 | 29935   | 34606   | 1.13%   | 0.092% |
| 36 | 20.362 | 2952 | 2954 | 2958 | rvB3 | 40158   | 45315   | 1.47%   | 0.121% |
| 37 | 20.933 | 3047 | 3051 | 3059 | rvB  | 406508  | 534815  | 17.40%  | 1.426% |
| 38 | 21.215 | 3094 | 3099 | 3105 | rvB  | 1545129 | 1885531 | 61.34%  | 5.026% |
| 39 | 21.374 | 3124 | 3126 | 3133 | rvB8 | 44442   | 49580   | 1.61%   | 0.132% |
| 40 | 23.280 | 3443 | 3450 | 3460 | rvB2 | 1630848 | 3073709 | 100.00% | 8.194% |
| 41 | 23.415 | 3467 | 3473 | 3482 | rvB2 | 916422  | 1715486 | 55.81%  | 4.573% |

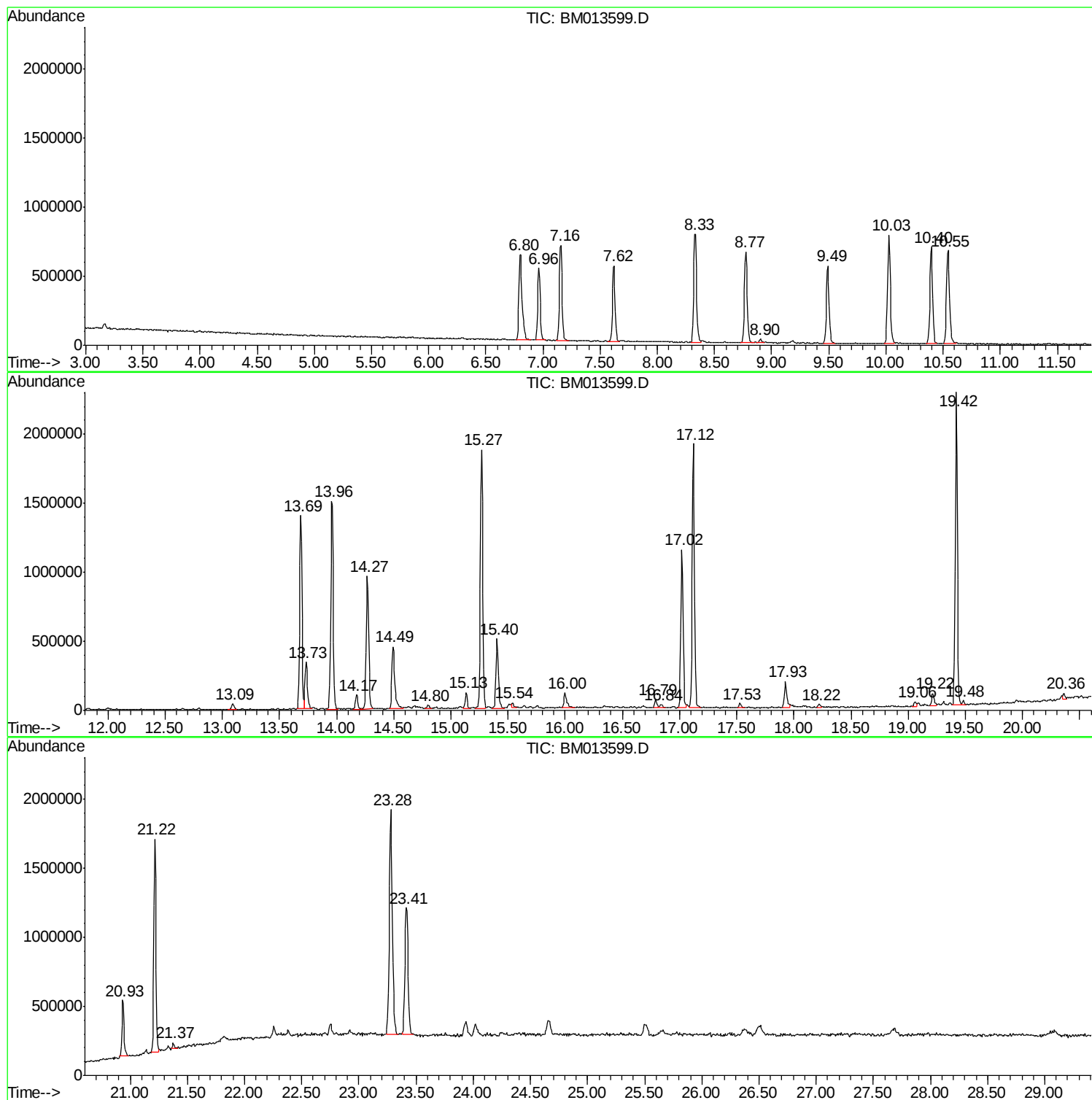
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

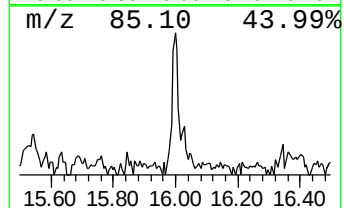
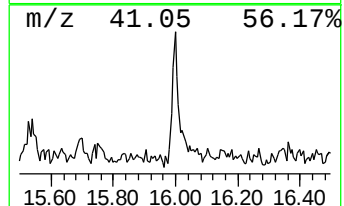
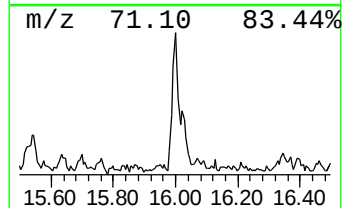
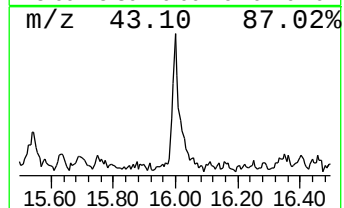
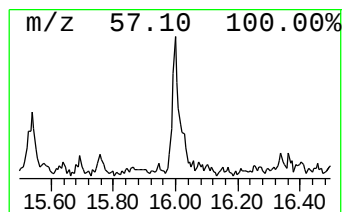
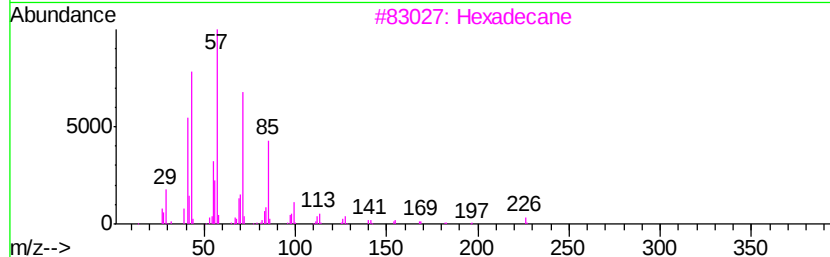
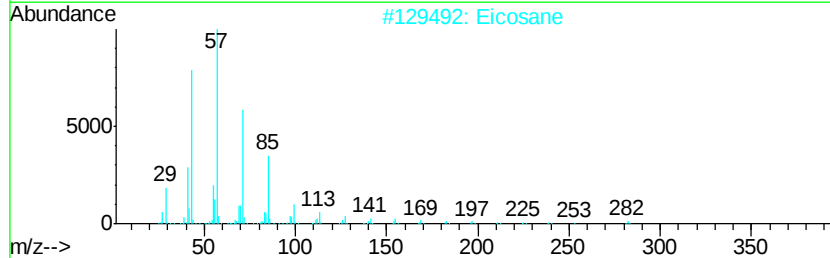
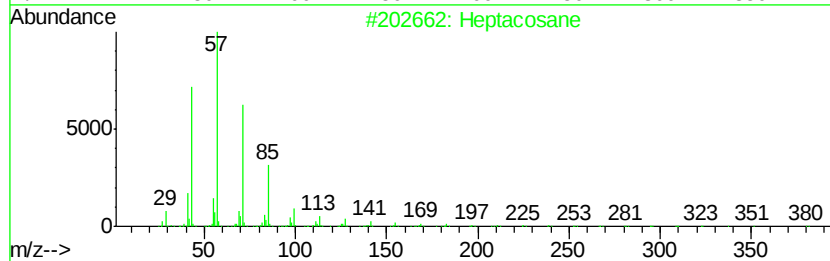
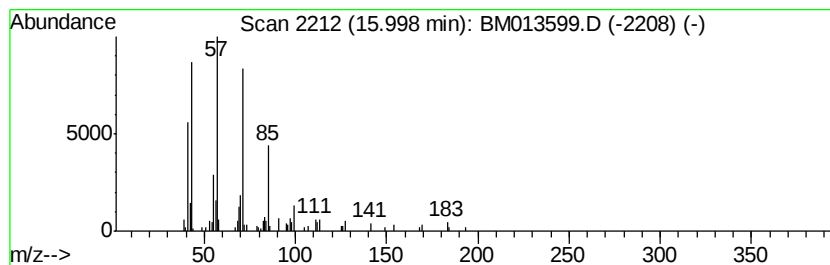
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.00 | 2.39 ng/ul | 194539 | Phenanthrene-d10 | 17.02 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane        | 380 | C27H56  | 000593-49-7 | 90   |
| 2    |    | Eicosane           | 282 | C20H42  | 000112-95-8 | 90   |
| 3    |    | Hexadecane         | 226 | C16H34  | 000544-76-3 | 86   |
| 4    |    | Hexadecane         | 226 | C16H34  | 000544-76-3 | 86   |
| 5    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 86   |



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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

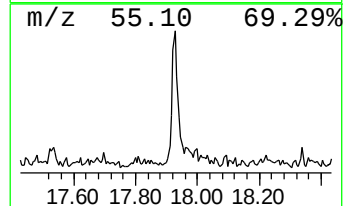
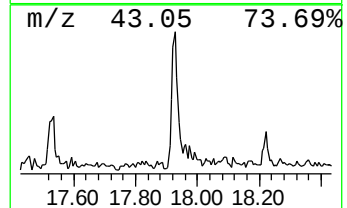
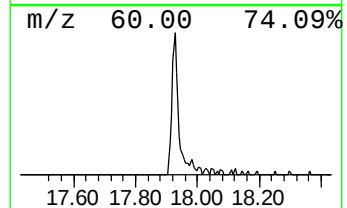
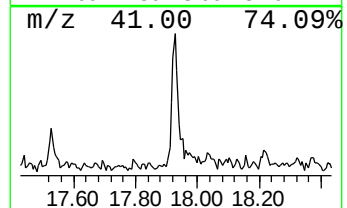
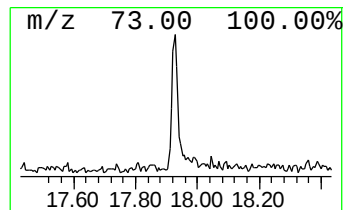
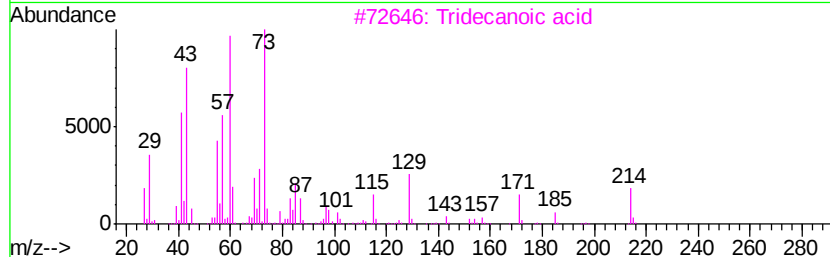
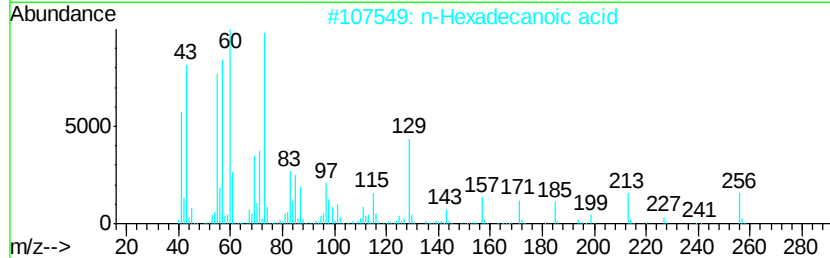
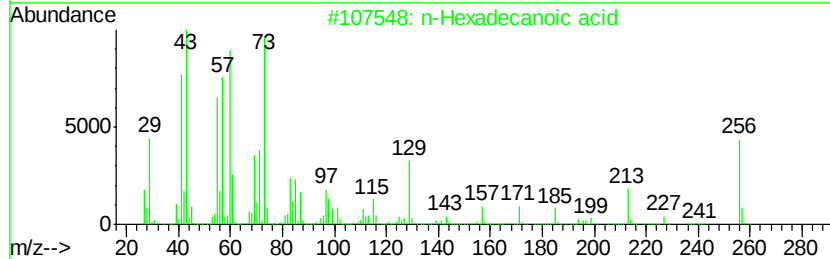
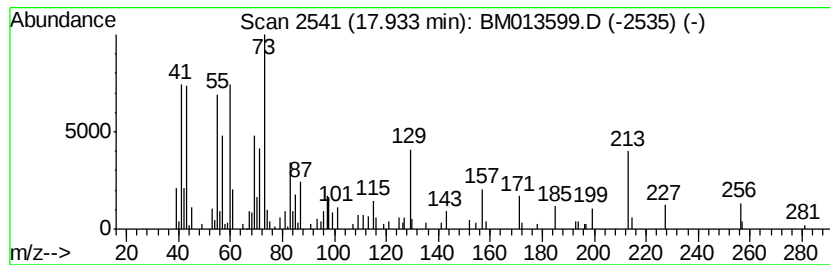
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.93 | 3.61 ng/ul | 293988 | Phenanthrene-d10 | 17.02 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 86   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 58   |
| 5    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 55   |



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Quant Title : SVOA CALIBRATION

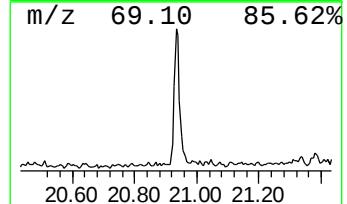
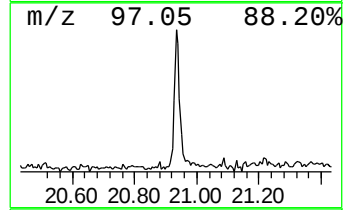
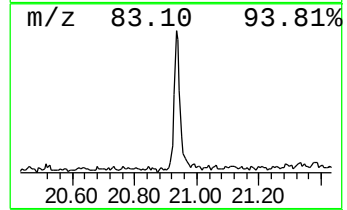
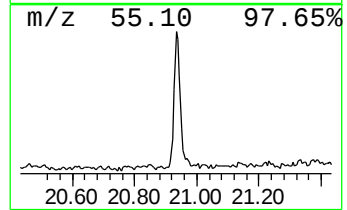
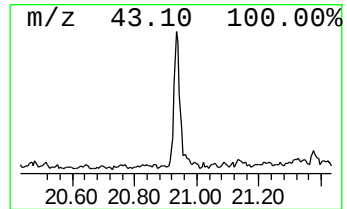
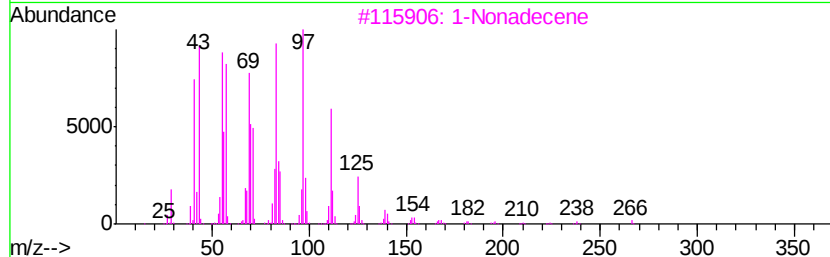
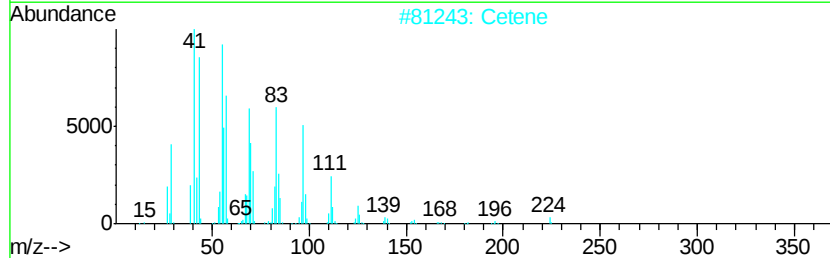
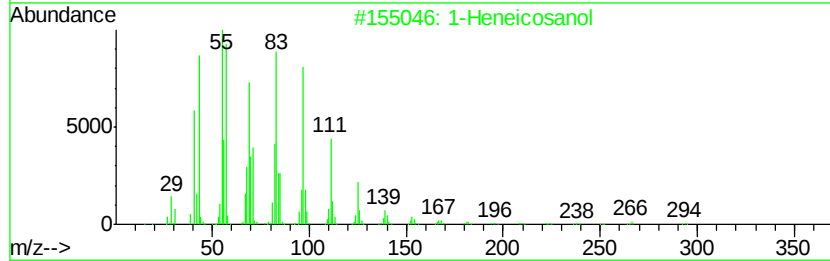
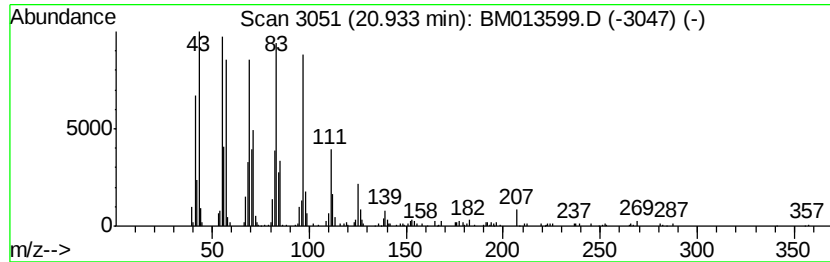
TIC Library : C:\DATABASE\NIST11.L  
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\*\*\*\*\*  
Peak Number 3 1-Heneicosanol Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.93 | 5.67 ng/ul | 534815 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 1-Heneicosanol                      | 312 | C21H44O     | 015594-90-8 | 94   |
| 2    |    | Cetene                              | 224 | C16H32      | 000629-73-2 | 93   |
| 3    |    | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5 | 92   |
| 4    |    | n-Nonadecanol-1                     | 284 | C19H40O     | 001454-84-8 | 90   |
| 5    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 87   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: Str... | 16.00 | 2.4     | ng/ul | 194539   | 4                     | 17.02 | 1630520 | 20.0 |
| n-Hexadecanoic acid  | 17.93 | 3.6     | ng/ul | 293988   | 4                     | 17.02 | 1630520 | 20.0 |
| 1-Heneicosanol       | 20.93 | 5.7     | ng/ul | 534815   | 5                     | 21.22 | 1885530 | 20.0 |