

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM121219\  
 Data File : BM024086.D  
 Acq On : 13 Dec 2019 11:31  
 Operator : JU  
 Sample : K6132-06  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BFQR2

## 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-BM112719MA.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         | 3.028       | 21            | 24          | 35           | rVB      | 120130         | 184818        | 2.14%           | 0.191%        |
| 2         | 3.728       | 141           | 143         | 151          | rVB3     | 25178          | 39990         | 0.46%           | 0.041%        |
| 3         | 4.693       | 303           | 307         | 311          | rBV5     | 7809           | 11161         | 0.13%           | 0.012%        |
| 4         | 6.534       | 614           | 620         | 627          | rBV5     | 14875          | 30230         | 0.35%           | 0.031%        |
| 5         | 6.663       | 635           | 642         | 660          | rBV      | 529688         | 1002988       | 11.62%          | 1.039%        |
| 6         | 6.822       | 662           | 669         | 687          | rBV      | 1439369        | 2372830       | 27.50%          | 2.458%        |
| 7         | 7.004       | 694           | 700         | 715          | rBV      | 1601049        | 2685115       | 31.12%          | 2.781%        |
| 8         | 7.469       | 772           | 779         | 790          | rBV      | 1605962        | 2537071       | 29.40%          | 2.628%        |
| 9         | 8.192       | 893           | 902         | 914          | rBV      | 1278396        | 2217463       | 25.70%          | 2.297%        |
| 10        | 8.622       | 968           | 975         | 988          | rBV      | 1771219        | 2910591       | 33.73%          | 3.015%        |
| 11        | 8.810       | 1005          | 1007        | 1010         | rVV4     | 8609           | 9354          | 0.11%           | 0.010%        |
| 12        | 8.904       | 1020          | 1023        | 1027         | rVB5     | 6296           | 9637          | 0.11%           | 0.010%        |
| 13        | 8.975       | 1027          | 1035        | 1042         | rBV      | 157907         | 258502        | 3.00%           | 0.268%        |
| 14        | 9.057       | 1044          | 1049        | 1055         | rBV2     | 26087          | 51061         | 0.59%           | 0.053%        |
| 15        | 9.245       | 1075          | 1081        | 1084         | rBV7     | 7305           | 14957         | 0.17%           | 0.015%        |
| 16        | 9.339       | 1087          | 1097        | 1108         | rBV      | 1441131        | 2440633       | 28.28%          | 2.528%        |
| 17        | 9.539       | 1126          | 1131        | 1133         | rBV6     | 6163           | 10077         | 0.12%           | 0.010%        |
| 18        | 9.875       | 1181          | 1188        | 1201         | rBV      | 2149086        | 3773595       | 43.73%          | 3.909%        |
| 19        | 10.045      | 1215          | 1217        | 1221         | rVB4     | 7556           | 9238          | 0.11%           | 0.010%        |
| 20        | 10.239      | 1240          | 1250        | 1260         | rBV      | 2128545        | 3581462       | 41.50%          | 3.710%        |
| 21        | 10.398      | 1269          | 1277        | 1287         | rBV      | 116496         | 270729        | 3.14%           | 0.280%        |
| 22        | 10.675      | 1322          | 1324        | 1333         | rVB9     | 4780           | 9574          | 0.11%           | 0.010%        |
| 23        | 10.975      | 1370          | 1375        | 1381         | rBV8     | 9494           | 16523         | 0.19%           | 0.017%        |
| 24        | 11.098      | 1389          | 1396        | 1402         | rBV10    | 14544          | 32986         | 0.38%           | 0.034%        |
| 25        | 11.798      | 1508          | 1515        | 1517         | rBV7     | 6642           | 14349         | 0.17%           | 0.015%        |
| 26        | 11.845      | 1517          | 1523        | 1527         | rVV2     | 34804          | 62410         | 0.72%           | 0.065%        |
| 27        | 11.886      | 1527          | 1530        | 1533         | rVB5     | 5738           | 8814          | 0.10%           | 0.009%        |
| 28        | 11.992      | 1547          | 1548        | 1554         | rVB5     | 7166           | 9130          | 0.11%           | 0.009%        |
| 29        | 12.063      | 1554          | 1560        | 1561         | rBV6     | 6697           | 12815         | 0.15%           | 0.013%        |
| 30        | 12.280      | 1591          | 1597        | 1600         | rBV8     | 6036           | 11061         | 0.13%           | 0.011%        |
| 31        | 12.327      | 1600          | 1605        | 1608         | rVV8     | 6668           | 12376         | 0.14%           | 0.013%        |
| 32        | 12.604      | 1648          | 1652        | 1655         | rBV5     | 12729          | 19433         | 0.23%           | 0.020%        |
| 33        | 12.733      | 1671          | 1674        | 1680         | rVB8     | 11444          | 17335         | 0.20%           | 0.018%        |
| 34        | 13.045      | 1725          | 1727        | 1731         | rVB5     | 8128           | 8751          | 0.10%           | 0.009%        |

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFQR2

## 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-BM112719MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 13.363 | 1776 | 1781 | 1783 | rBV6 | 9836    | 16941   | 0.20%   | 0.018% |
| 36 | 13.551 | 1807 | 1813 | 1818 | rBV  | 3968382 | 5396129 | 62.53%  | 5.589% |
| 37 | 13.598 | 1818 | 1821 | 1827 | rVB  | 195300  | 275673  | 3.19%   | 0.286% |
| 38 | 13.816 | 1851 | 1858 | 1869 | rBV  | 4665019 | 6844298 | 79.31%  | 7.089% |
| 39 | 13.951 | 1877 | 1881 | 1888 | rVB  | 119397  | 181179  | 2.10%   | 0.188% |
| 40 | 14.127 | 1905 | 1911 | 1918 | rBV  | 3047549 | 4465946 | 51.75%  | 4.626% |
| 41 | 14.380 | 1948 | 1954 | 1966 | rBV  | 229581  | 536283  | 6.21%   | 0.555% |
| 42 | 14.904 | 2040 | 2043 | 2048 | rBV7 | 21355   | 31675   | 0.37%   | 0.033% |
| 43 | 14.963 | 2049 | 2053 | 2060 | rVB5 | 15036   | 35006   | 0.41%   | 0.036% |
| 44 | 15.133 | 2075 | 2082 | 2089 | rBV  | 5637296 | 8154101 | 94.49%  | 8.446% |
| 45 | 15.274 | 2100 | 2106 | 2116 | rBV  | 1596472 | 2323067 | 26.92%  | 2.406% |
| 46 | 15.374 | 2119 | 2123 | 2128 | rVB  | 59983   | 88667   | 1.03%   | 0.092% |
| 47 | 15.921 | 2212 | 2216 | 2220 | rBV4 | 23850   | 36242   | 0.42%   | 0.038% |
| 48 | 16.674 | 2341 | 2344 | 2348 | rBV3 | 23481   | 26073   | 0.30%   | 0.027% |
| 49 | 16.886 | 2373 | 2380 | 2390 | rBV  | 3293504 | 4742482 | 54.96%  | 4.912% |
| 50 | 16.980 | 2390 | 2396 | 2410 | rVV  | 5531966 | 8120101 | 94.10%  | 8.411% |
| 51 | 17.304 | 2447 | 2451 | 2458 | rVB6 | 49877   | 75679   | 0.88%   | 0.078% |
| 52 | 17.809 | 2532 | 2537 | 2545 | rBV  | 440973  | 668807  | 7.75%   | 0.693% |
| 53 | 18.921 | 2723 | 2726 | 2729 | rBV2 | 61467   | 78368   | 0.91%   | 0.081% |
| 54 | 19.103 | 2754 | 2757 | 2762 | rBV2 | 106628  | 145031  | 1.68%   | 0.150% |
| 55 | 19.292 | 2783 | 2789 | 2794 | rBV  | 6466068 | 8462818 | 98.07%  | 8.766% |
| 56 | 20.833 | 3048 | 3051 | 3058 | rBV  | 985411  | 1221962 | 14.16%  | 1.266% |
| 57 | 21.092 | 3091 | 3095 | 3102 | rBV  | 3603475 | 4585868 | 53.14%  | 4.750% |
| 58 | 21.274 | 3123 | 3126 | 3131 | rBV  | 304758  | 344592  | 3.99%   | 0.357% |
| 59 | 21.697 | 3195 | 3198 | 3208 | rVB2 | 330133  | 449313  | 5.21%   | 0.465% |
| 60 | 22.139 | 3270 | 3273 | 3279 | rVB  | 430681  | 519681  | 6.02%   | 0.538% |
| 61 | 22.615 | 3351 | 3354 | 3359 | rVB  | 478634  | 630120  | 7.30%   | 0.653% |
| 62 | 23.097 | 3430 | 3436 | 3442 | rBV  | 5026577 | 8629641 | 100.00% | 8.939% |
| 63 | 23.233 | 3453 | 3459 | 3466 | rVB  | 2798246 | 4800555 | 55.63%  | 4.972% |

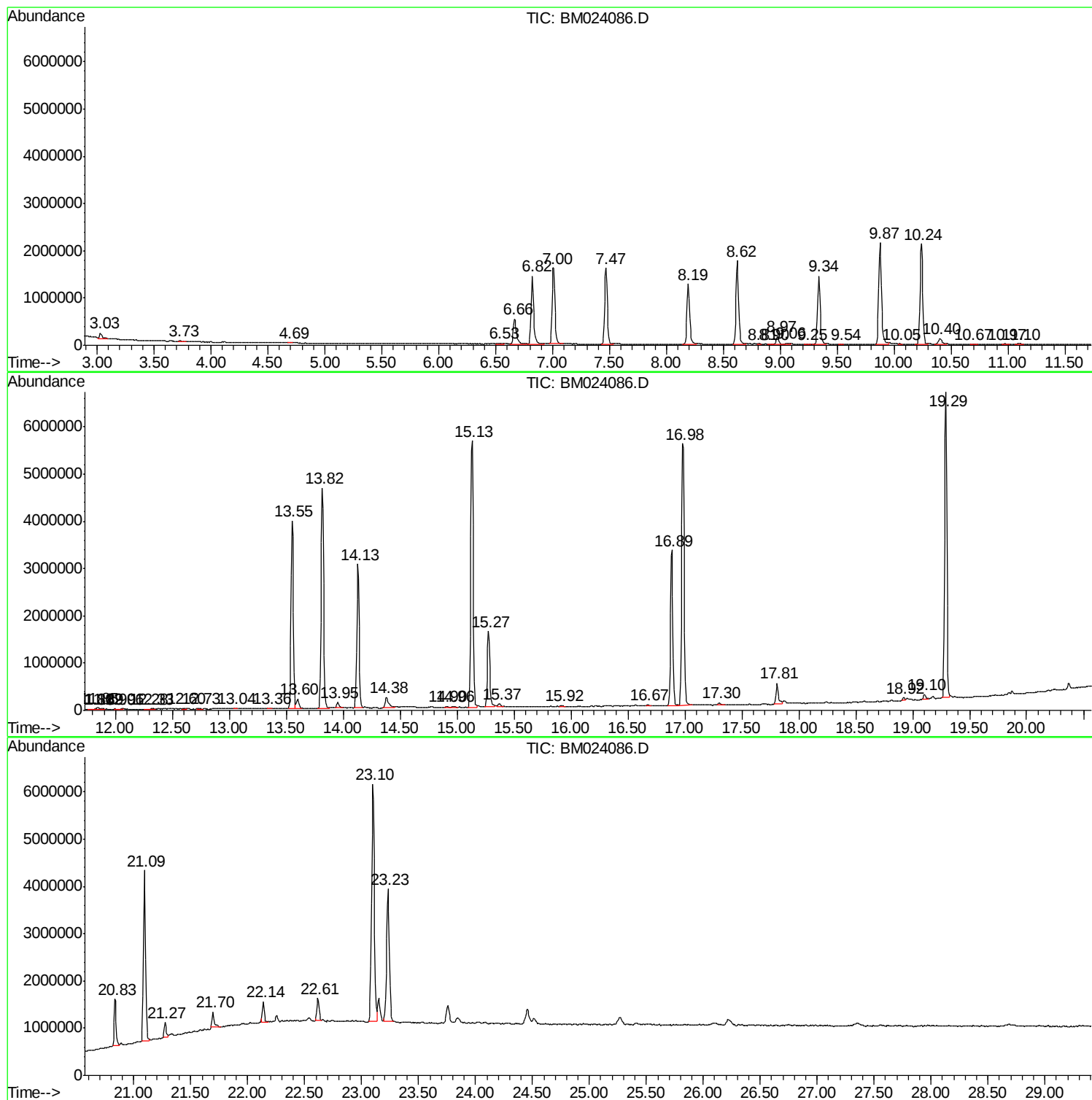
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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

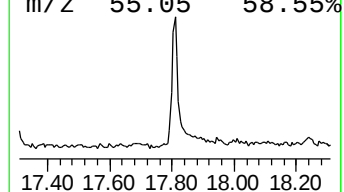
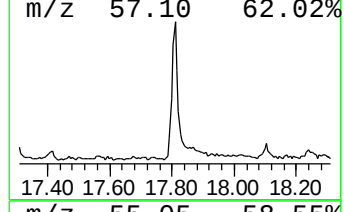
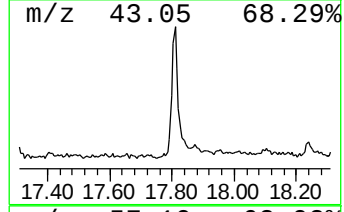
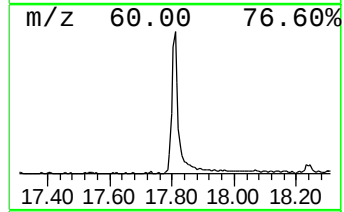
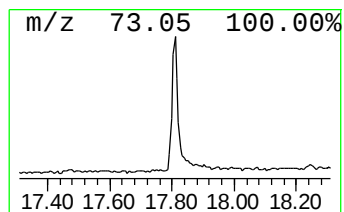
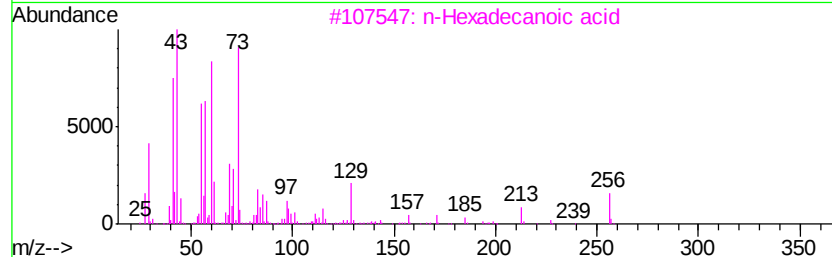
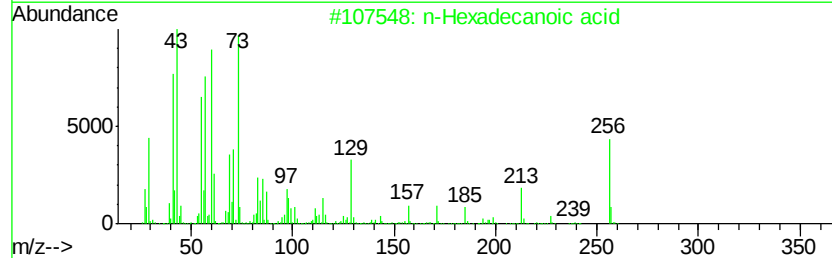
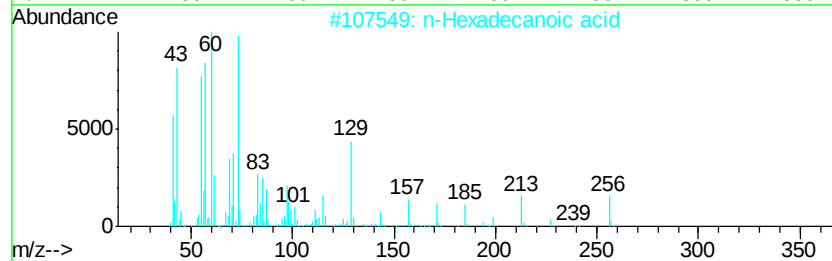
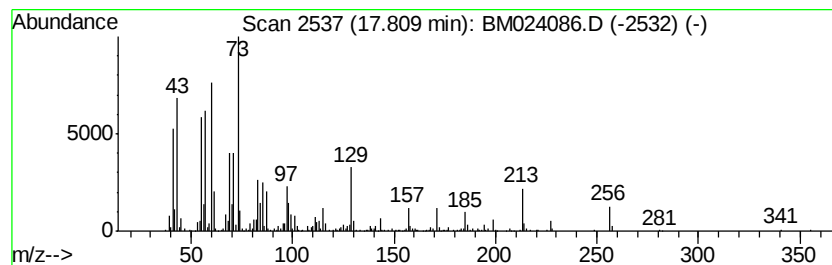
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.81 | 2.82 ng/ul | 668807 | Phenanthrene-d10 | 16.89 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 3    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 91   |
| 5    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 89   |



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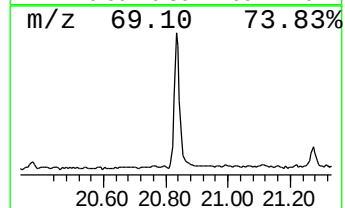
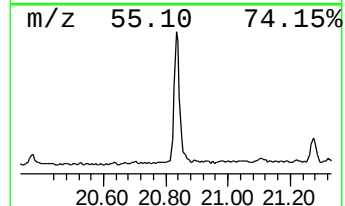
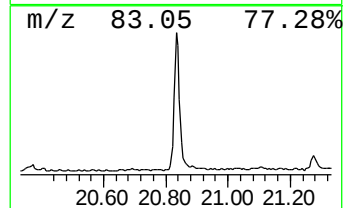
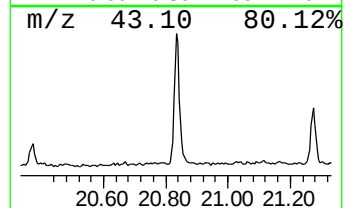
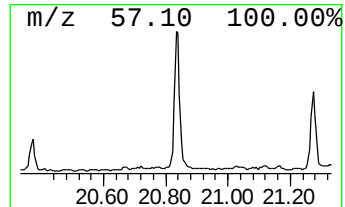
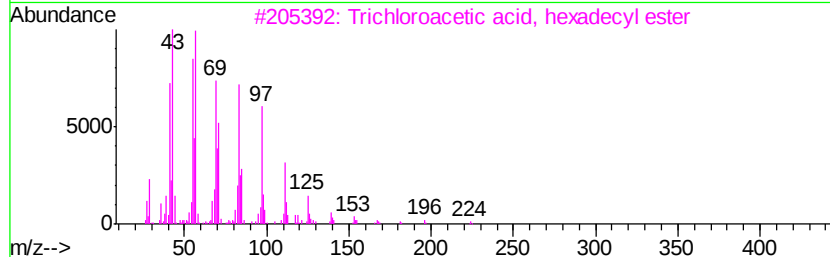
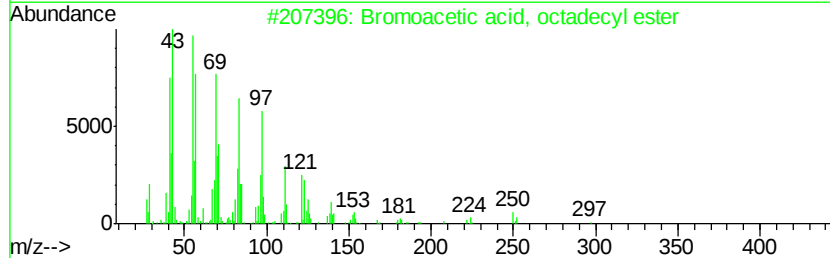
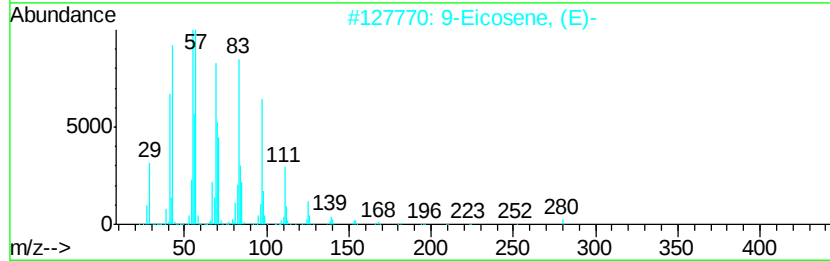
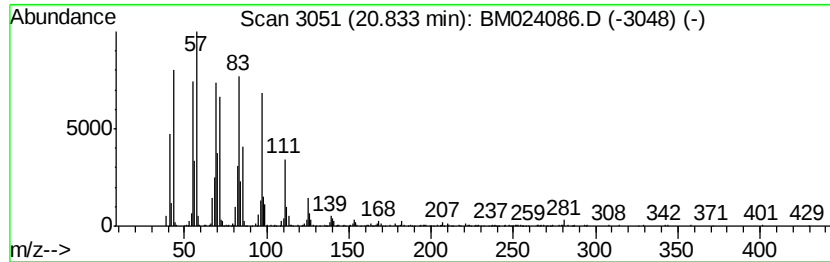
Instrument :  
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Quant Title : SVOA CALIBRATION

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

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Peak Number 2 (DEL) Alkane: Cyclic20.83 Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD |             | R.T.        |      |
|---------|-------------------------------------|--------------|------------------|-------------|-------------|------|
| 20.83   | 5.33 ng/ul                          | 1221960      | Chrysene-d12     |             | 21.09       |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS#        | Qual |
| 1       | 9-Eicosene, (E)-                    |              | 280              | C20H40      | 074685-29-3 | 93   |
| 2       | Bromoacetic acid, octadecyl ester   |              | 390              | C20H39BrO2  | 018992-03-5 | 90   |
| 3       | Trichloroacetic acid, hexadecyl ... |              | 386              | C18H33Cl3O2 | 074339-54-1 | 90   |
| 4       | Heptafluorobutyric acid, pentade... |              | 424              | C19H31F7O2  | 959261-23-5 | 87   |
| 5       | Behenic alcohol                     |              | 326              | C22H46O     | 000661-19-8 | 87   |



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Quant Title : SVOA CALIBRATION

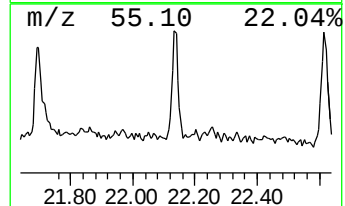
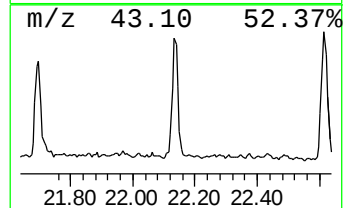
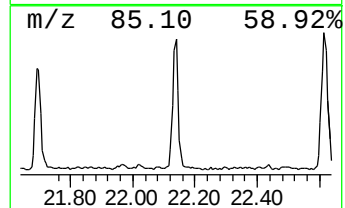
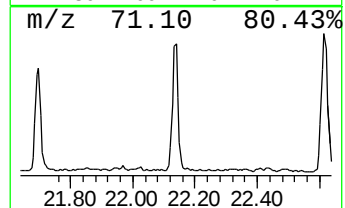
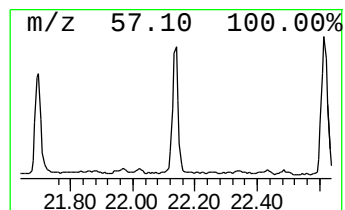
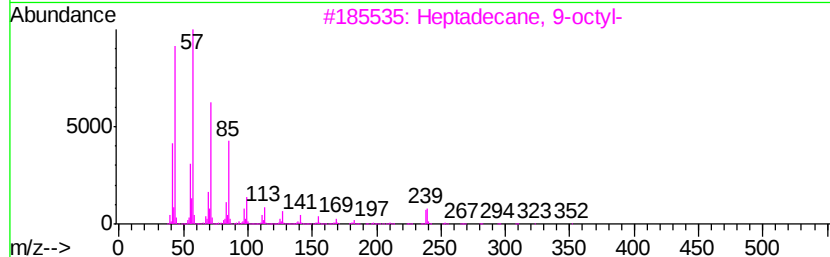
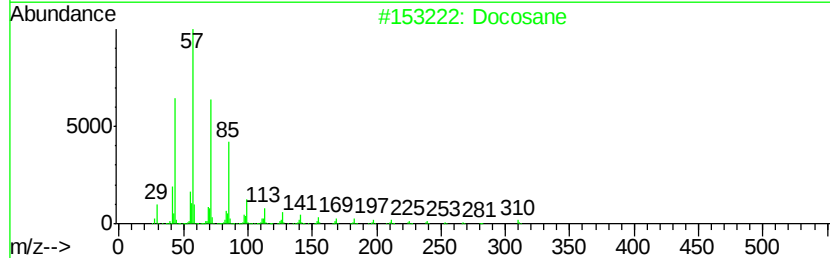
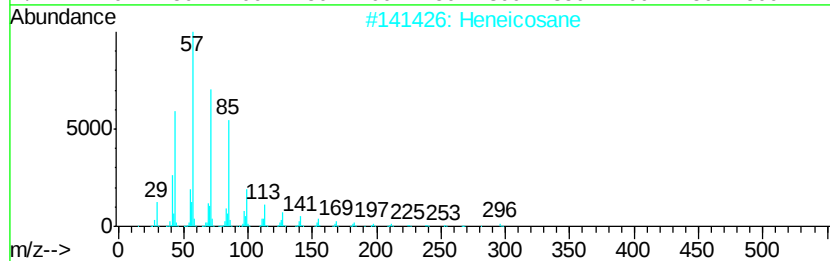
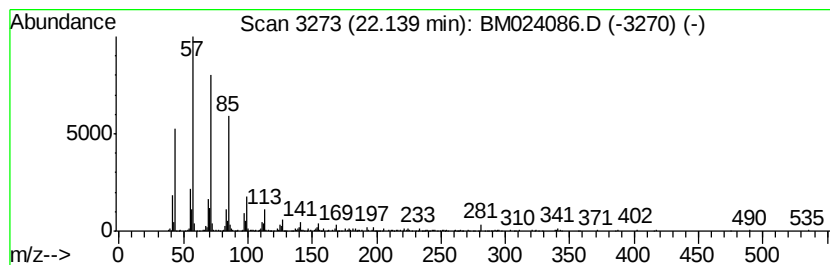
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.14 | 2.27 ng/ul | 519681 | Chrysene-d12     | 21.09 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Docosane              | 310 | C22H46  | 000629-97-0 | 91   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 4    |    | Octadecane, 1-iodo-   | 380 | C18H37I | 000629-93-6 | 86   |
| 5    |    | Nonadecane            | 268 | C19H40  | 000629-92-5 | 86   |



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Quant Title : SVOA CALIBRATION

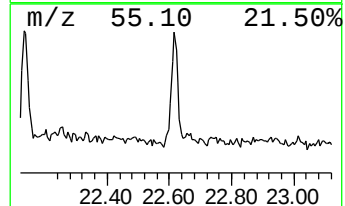
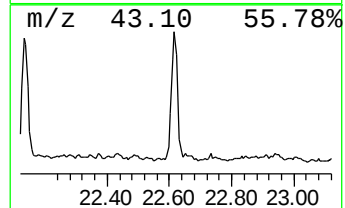
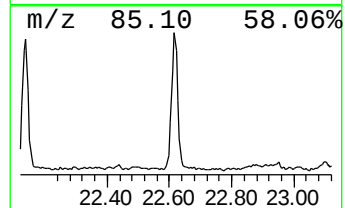
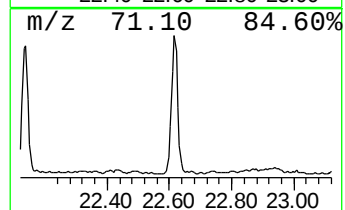
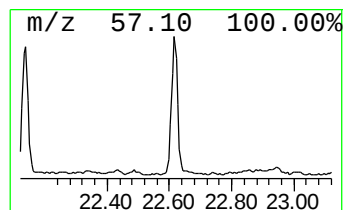
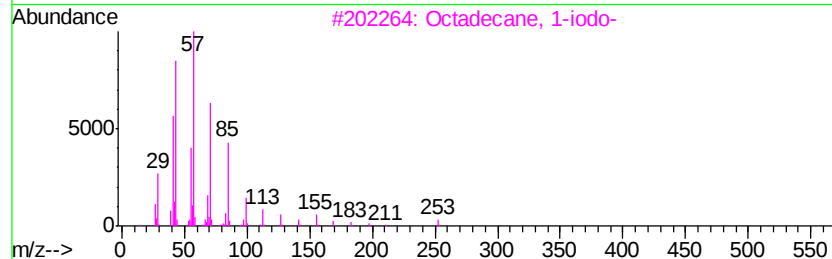
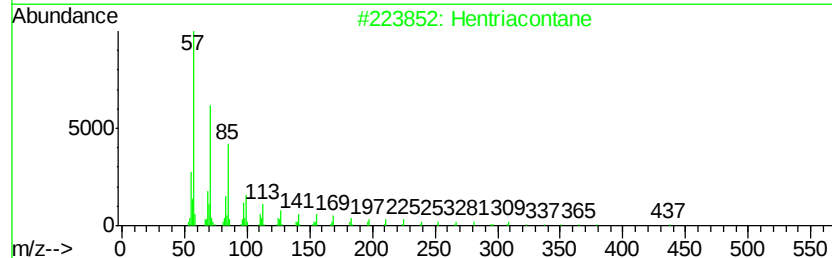
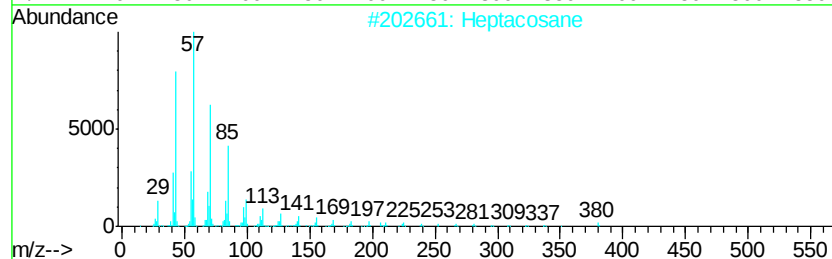
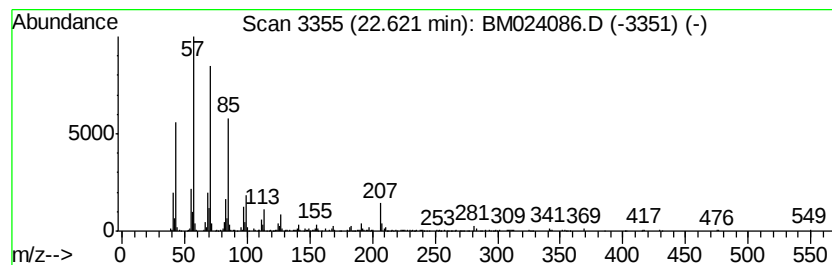
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.62 | 2.63 ng/ul | 630120 | Perylene-d12     | 23.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Heptacosane                         | 380 | C27H56    | 000593-49-7  | 87   |
| 2    |    | Hentriacontane                      | 437 | C31H64    | 000630-04-6  | 86   |
| 3    |    | Octadecane, 1-iodo-                 | 380 | C18H37I   | 000629-93-6  | 83   |
| 4    |    | 2-Thiopheneacetic acid, 4-tetrad... | 338 | C20H34O2S | 1000280-67-0 | 80   |
| 5    |    | Tridecane, 6-propyl-                | 226 | C16H34    | 055045-10-8  | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM121219\  
Data File : BM024086.D  
Acq On : 13 Dec 2019 11:31  
Operator : JU  
Sample : K6132-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFQR2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| n-Hexadecanoic acid  | 17.81 | 2.8     | ng/ul | 668807   | 4                     | 16.89 | 4742480 | 20.0 |
| (DEL) Alkane: Cyc... | 20.83 | 5.3     | ng/ul | 1221960  | 5                     | 21.09 | 4585870 | 20.0 |
| (DEL) Alkane: Str... | 22.14 | 2.3     | ng/ul | 519681   | 5                     | 21.09 | 4585870 | 20.0 |
| (DEL) Alkane: Str... | 22.62 | 2.6     | ng/ul | 630120   | 6                     | 23.23 | 4800560 | 20.0 |