

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122819\  
 Data File : BM024355.D  
 Acq On : 28 Dec 2019 18:36  
 Operator : JU  
 Sample : K6278-13  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0C60

## 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-BM121719MA.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         | 3.487       | 99            | 102         | 110          | rVB      | 39796          | 56333         | 0.88%           | 0.109%        |
| 2         | 3.675       | 132           | 134         | 142          | rVB      | 21309          | 27647         | 0.43%           | 0.053%        |
| 3         | 4.581       | 284           | 288         | 296          | rBV      | 24441          | 47424         | 0.74%           | 0.092%        |
| 4         | 6.622       | 629           | 635         | 651          | rBV2     | 302331         | 692859        | 10.88%          | 1.337%        |
| 5         | 6.769       | 655           | 660         | 673          | rBV      | 303267         | 549404        | 8.62%           | 1.060%        |
| 6         | 6.951       | 686           | 691         | 704          | rBV      | 345805         | 624051        | 9.80%           | 1.205%        |
| 7         | 7.122       | 716           | 720         | 724          | rBV5     | 3605           | 7554          | 0.12%           | 0.015%        |
| 8         | 7.410       | 763           | 769         | 781          | rBV      | 1233290        | 2051551       | 32.20%          | 3.960%        |
| 9         | 8.145       | 887           | 894         | 909          | rBV      | 323481         | 665771        | 10.45%          | 1.285%        |
| 10        | 8.257       | 909           | 913         | 921          | rVB      | 22259          | 42588         | 0.67%           | 0.082%        |
| 11        | 8.569       | 960           | 966         | 985          | rBV      | 343715         | 668080        | 10.49%          | 1.290%        |
| 12        | 8.987       | 1034          | 1037        | 1044         | rBV6     | 6224           | 11996         | 0.19%           | 0.023%        |
| 13        | 9.286       | 1079          | 1088        | 1109         | rBV      | 274215         | 541826        | 8.50%           | 1.046%        |
| 14        | 9.828       | 1174          | 1180        | 1194         | rBV      | 307676         | 687817        | 10.80%          | 1.328%        |
| 15        | 9.981       | 1204          | 1206        | 1211         | rVB4     | 5844           | 7087          | 0.11%           | 0.014%        |
| 16        | 10.175      | 1232          | 1239        | 1253         | rBV      | 1930948        | 3280967       | 51.50%          | 6.333%        |
| 17        | 10.345      | 1262          | 1268        | 1288         | rBV      | 196790         | 522768        | 8.21%           | 1.009%        |
| 18        | 10.722      | 1329          | 1332        | 1336         | rBV5     | 6579           | 10047         | 0.16%           | 0.019%        |
| 19        | 11.798      | 1511          | 1515        | 1519         | rBV5     | 4227           | 6684          | 0.10%           | 0.013%        |
| 20        | 12.910      | 1700          | 1704        | 1707         | rBV4     | 5806           | 7819          | 0.12%           | 0.015%        |
| 21        | 13.386      | 1781          | 1785        | 1787         | rBV5     | 5063           | 6628          | 0.10%           | 0.013%        |
| 22        | 13.504      | 1799          | 1805        | 1809         | rBV      | 984951         | 1402883       | 22.02%          | 2.708%        |
| 23        | 13.551      | 1809          | 1813        | 1824         | rVB      | 274213         | 421734        | 6.62%           | 0.814%        |
| 24        | 13.763      | 1843          | 1849        | 1862         | rBV      | 824855         | 1285225       | 20.17%          | 2.481%        |
| 25        | 13.974      | 1880          | 1885        | 1887         | rBV4     | 6296           | 9983          | 0.16%           | 0.019%        |
| 26        | 14.004      | 1887          | 1890        | 1895         | rVV6     | 9721           | 14647         | 0.23%           | 0.028%        |
| 27        | 14.074      | 1895          | 1902        | 1914         | rVV      | 3092045        | 4529805       | 71.10%          | 8.743%        |
| 28        | 14.357      | 1943          | 1950        | 1971         | rBV3     | 110115         | 391980        | 6.15%           | 0.757%        |
| 29        | 14.492      | 1971          | 1973        | 1977         | rVV5     | 12004          | 20573         | 0.32%           | 0.040%        |
| 30        | 14.545      | 1977          | 1982        | 1990         | rVB9     | 26216          | 52108         | 0.82%           | 0.101%        |
| 31        | 14.904      | 2039          | 2043        | 2046         | rBV3     | 6926           | 7798          | 0.12%           | 0.015%        |
| 32        | 14.963      | 2050          | 2053        | 2057         | rVB4     | 7339           | 9328          | 0.15%           | 0.018%        |
| 33        | 15.080      | 2066          | 2073        | 2083         | rBV      | 1270106        | 1843937       | 28.94%          | 3.559%        |
| 34        | 15.245      | 2095          | 2101        | 2111         | rBV      | 210317         | 379407        | 5.96%           | 0.732%        |

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 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121719MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 15.321 | 2111 | 2114 | 2118 | rVB3 | 14497   | 20616   | 0.32%   | 0.040%  |
| 36 | 15.527 | 2144 | 2149 | 2153 | rVB6 | 6001    | 8925    | 0.14%   | 0.017%  |
| 37 | 15.827 | 2195 | 2200 | 2206 | rBV5 | 11232   | 22052   | 0.35%   | 0.043%  |
| 38 | 15.874 | 2206 | 2208 | 2215 | rVB7 | 6985    | 8807    | 0.14%   | 0.017%  |
| 39 | 16.074 | 2239 | 2242 | 2250 | rVB4 | 7653    | 12504   | 0.20%   | 0.024%  |
| 40 | 16.398 | 2294 | 2297 | 2307 | rBV7 | 13581   | 17789   | 0.28%   | 0.034%  |
| 41 | 16.515 | 2313 | 2317 | 2320 | rVB6 | 5996    | 8837    | 0.14%   | 0.017%  |
| 42 | 16.627 | 2330 | 2336 | 2339 | rBV3 | 24577   | 34612   | 0.54%   | 0.067%  |
| 43 | 16.833 | 2365 | 2371 | 2382 | rBV  | 3834482 | 5322971 | 83.55%  | 10.274% |
| 44 | 16.933 | 2382 | 2388 | 2403 | rVB  | 1364362 | 1990109 | 31.24%  | 3.841%  |
| 45 | 17.051 | 2403 | 2408 | 2409 | rBV4 | 5290    | 6585    | 0.10%   | 0.013%  |
| 46 | 17.362 | 2457 | 2461 | 2465 | rBV6 | 11041   | 14932   | 0.23%   | 0.029%  |
| 47 | 17.721 | 2519 | 2522 | 2525 | rBV5 | 5495    | 8128    | 0.13%   | 0.016%  |
| 48 | 17.762 | 2525 | 2529 | 2538 | rVV3 | 71549   | 123221  | 1.93%   | 0.238%  |
| 49 | 17.915 | 2551 | 2555 | 2558 | rBV6 | 9414    | 14671   | 0.23%   | 0.028%  |
| 50 | 17.945 | 2558 | 2560 | 2565 | rVB6 | 9560    | 12345   | 0.19%   | 0.024%  |
| 51 | 18.051 | 2574 | 2578 | 2582 | rBV5 | 21091   | 29958   | 0.47%   | 0.058%  |
| 52 | 18.698 | 2684 | 2688 | 2694 | rBV3 | 44368   | 59825   | 0.94%   | 0.115%  |
| 53 | 18.909 | 2721 | 2724 | 2731 | rVB  | 50851   | 66564   | 1.04%   | 0.128%  |
| 54 | 19.056 | 2745 | 2749 | 2754 | rBV7 | 24345   | 47136   | 0.74%   | 0.091%  |
| 55 | 19.133 | 2759 | 2762 | 2769 | rVV4 | 23648   | 36957   | 0.58%   | 0.071%  |
| 56 | 19.245 | 2775 | 2781 | 2786 | rBV  | 1882086 | 2597748 | 40.77%  | 5.014%  |
| 57 | 19.327 | 2792 | 2795 | 2799 | rVB2 | 53496   | 61533   | 0.97%   | 0.119%  |
| 58 | 19.827 | 2877 | 2880 | 2884 | rVB  | 105829  | 113383  | 1.78%   | 0.219%  |
| 59 | 20.327 | 2961 | 2965 | 2969 | rBV  | 214191  | 239862  | 3.76%   | 0.463%  |
| 60 | 20.792 | 3040 | 3044 | 3050 | rBV  | 587060  | 708311  | 11.12%  | 1.367%  |
| 61 | 21.050 | 3083 | 3088 | 3098 | rBV  | 4551525 | 6104590 | 95.82%  | 11.783% |
| 62 | 21.233 | 3115 | 3119 | 3123 | rBV  | 375647  | 441411  | 6.93%   | 0.852%  |
| 63 | 21.650 | 3186 | 3190 | 3198 | rBV  | 512134  | 664768  | 10.43%  | 1.283%  |
| 64 | 22.086 | 3260 | 3264 | 3269 | rBV  | 590343  | 721995  | 11.33%  | 1.394%  |
| 65 | 22.562 | 3341 | 3345 | 3349 | rVB  | 571120  | 763573  | 11.99%  | 1.474%  |
| 66 | 23.039 | 3421 | 3426 | 3431 | rBV  | 1478682 | 2566787 | 40.29%  | 4.954%  |
| 67 | 23.086 | 3431 | 3434 | 3441 | rVB  | 621221  | 899960  | 14.13%  | 1.737%  |
| 68 | 23.174 | 3443 | 3449 | 3462 | rVB  | 3472074 | 6371009 | 100.00% | 12.297% |
| 69 | 23.680 | 3531 | 3535 | 3542 | rVB  | 454539  | 799990  | 12.56%  | 1.544%  |

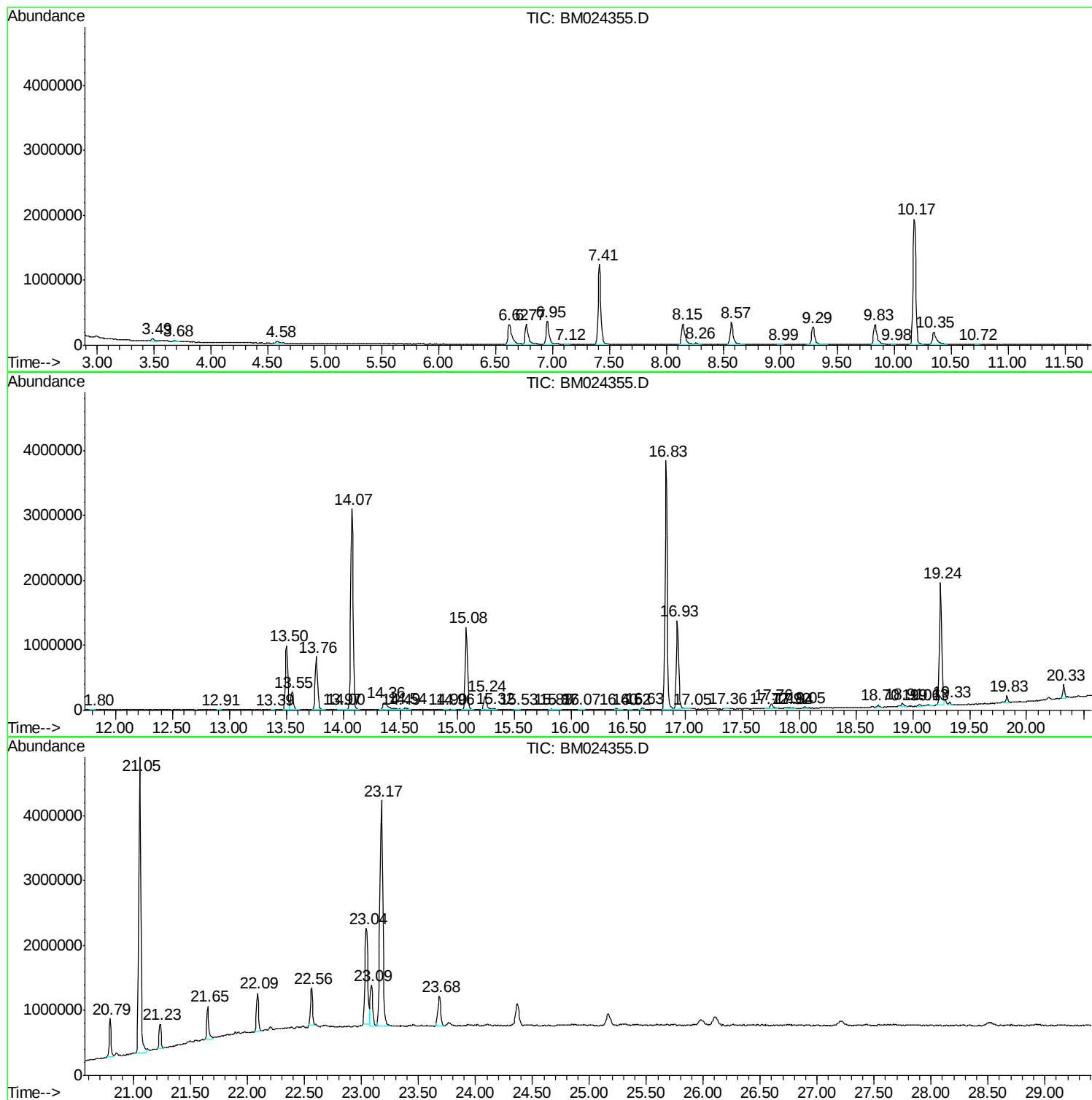
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ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121719MA.M  
Quant Title : SVOA CALIBRATION

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



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ALS Vial : 13 Sample Multiplier: 1

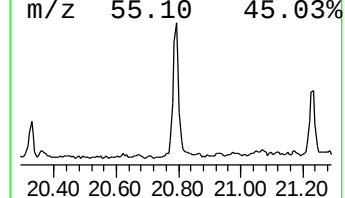
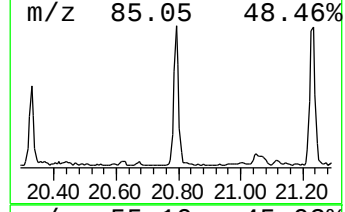
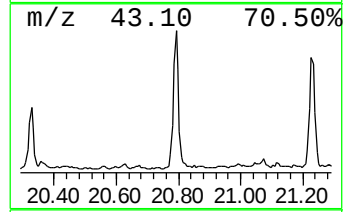
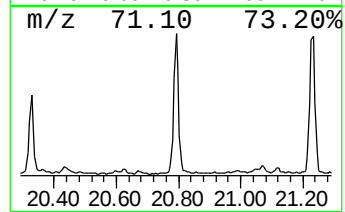
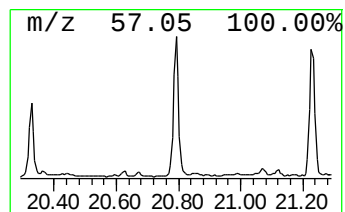
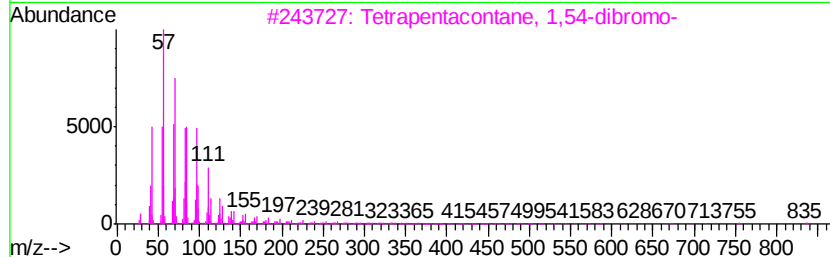
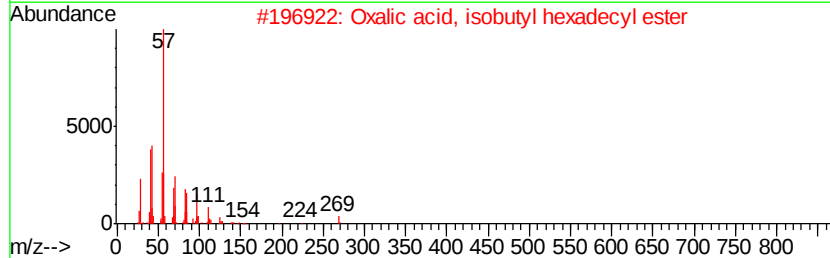
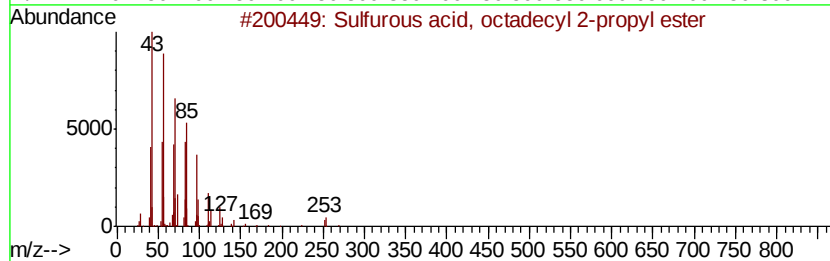
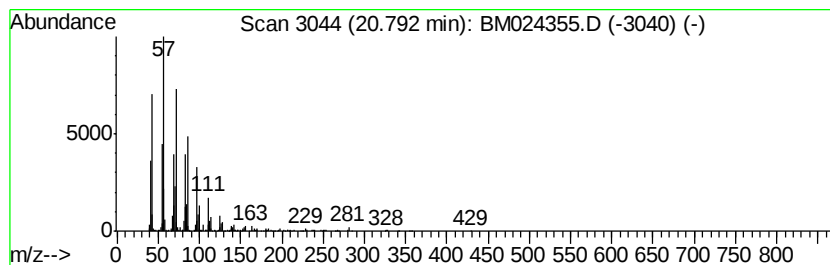
Instrument :  
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C0C60

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121719MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 Sulfurous acid, octadecyl 2... Concentration Rank 4

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.       |              |      |
|---------|------------|-------------------------------------|------------------|------------|--------------|------|
| 20.79   | 2.32 ng/ul | 708311                              | Chrysene-d12     | 21.05      |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm    | CAS#         | Qual |
| 1       |            | Sulfurous acid, octadecyl 2-prop... | 376              | C21H44O3S  | 1000309-12-7 | 87   |
| 2       |            | Oxalic acid, isobutyl hexadecyl ... | 370              | C22H42O4   | 1000309-38-1 | 87   |
| 3       |            | Tetrapentacontane, 1,54-dibromo-    | 915              | C54H108Br2 | 1000156-09-4 | 86   |
| 4       |            | 3-Eicosene, (E)-                    | 280              | C20H40     | 074685-33-9  | 83   |
| 5       |            | Oxalic acid, isobutyl tetradecyl... | 342              | C20H38O4   | 1000309-37-9 | 83   |



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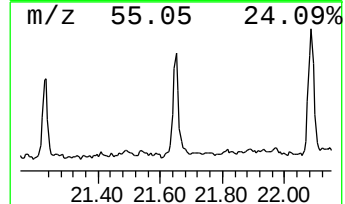
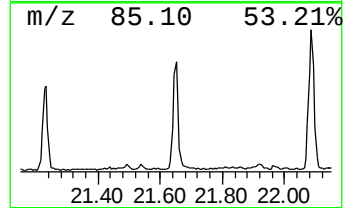
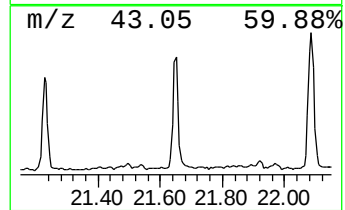
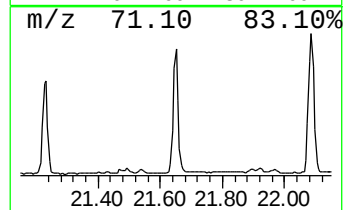
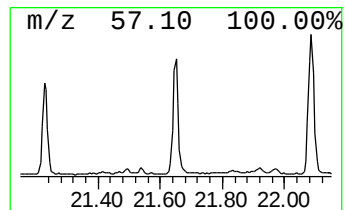
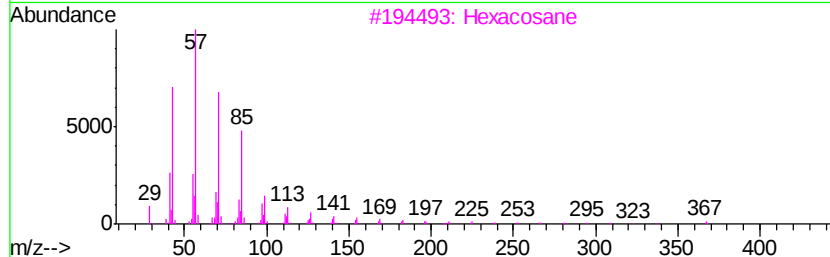
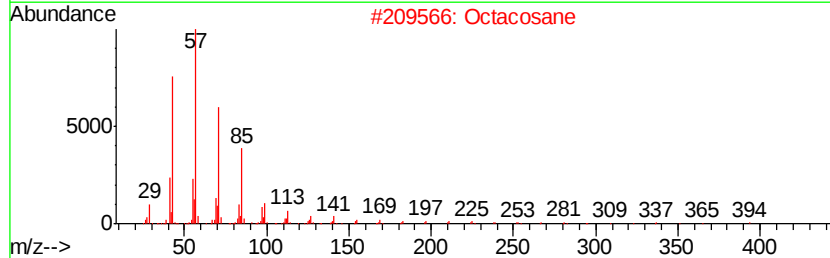
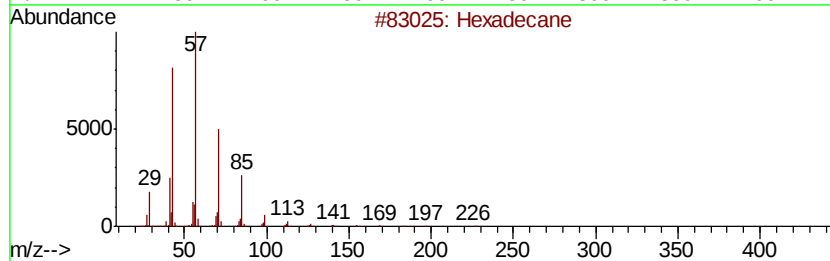
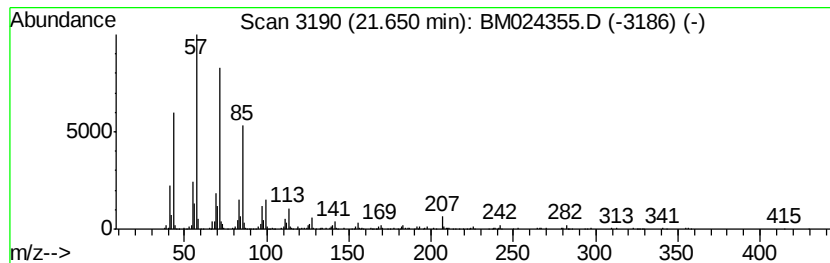
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.65 | 2.18 ng/ul | 664768 | Chrysene-d12     | 21.05 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane   | 226 | C16H34  | 000544-76-3 | 93   |
| 2    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Hexacosane   | 366 | C26H54  | 000630-01-3 | 91   |
| 4    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 91   |
| 5    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 91   |



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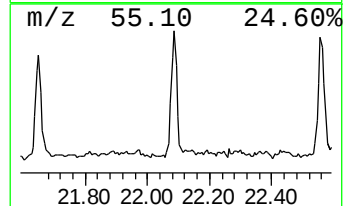
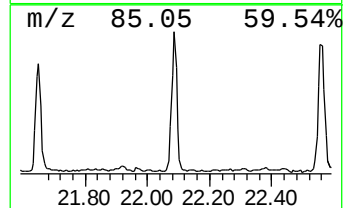
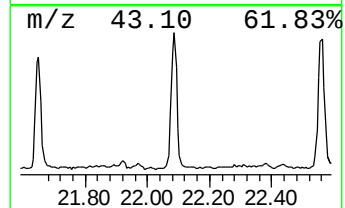
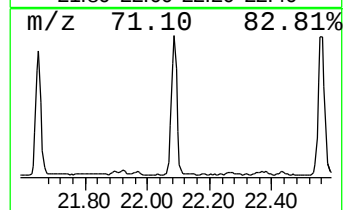
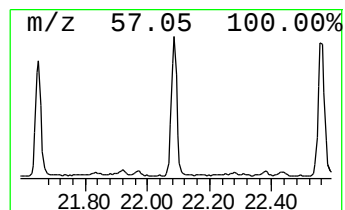
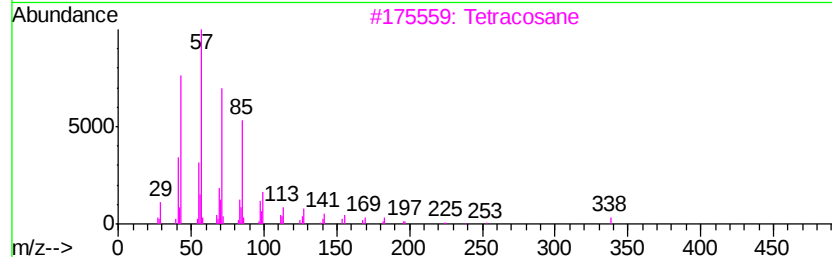
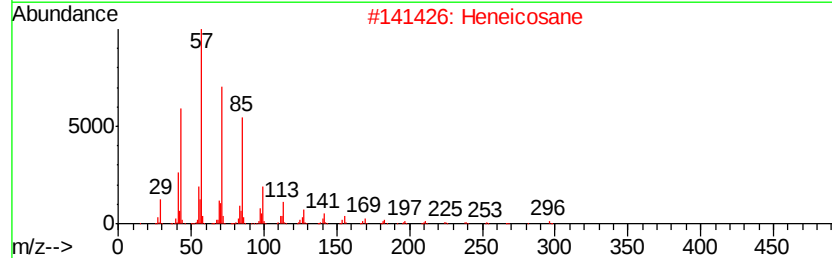
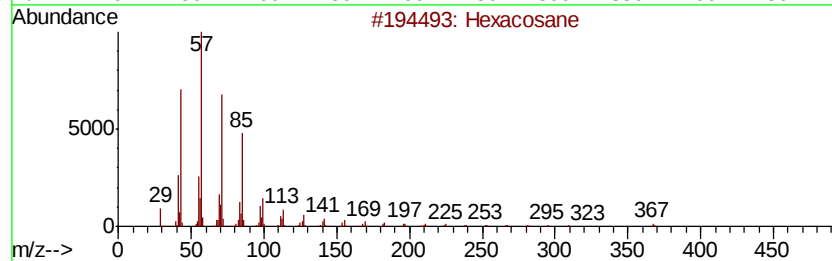
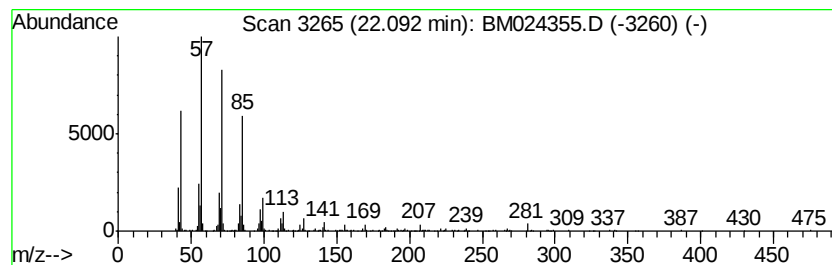
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.09 | 2.37 ng/ul | 721995 | Chrysene-d12     | 21.05 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane            | 366 | C26H54  | 000630-01-3 | 91   |
| 2    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Tetracosane           | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |



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Quant Title : SVOA CALIBRATION

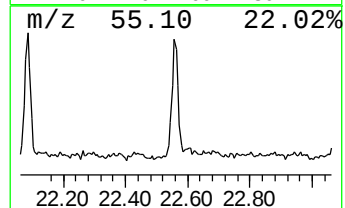
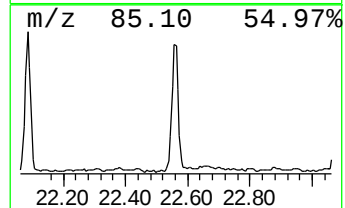
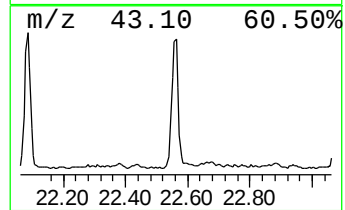
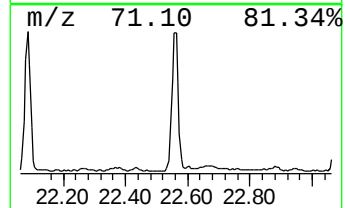
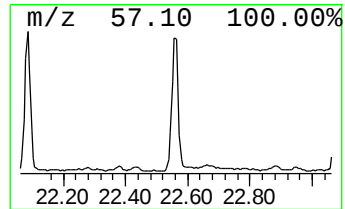
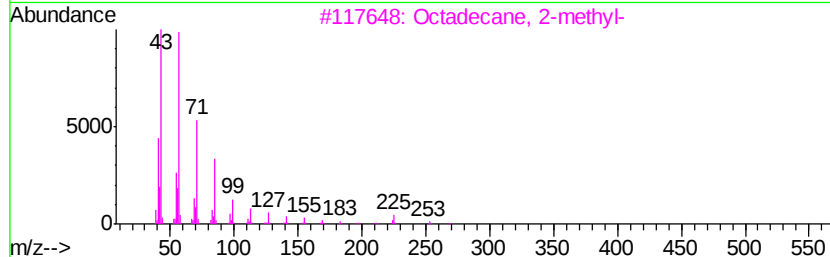
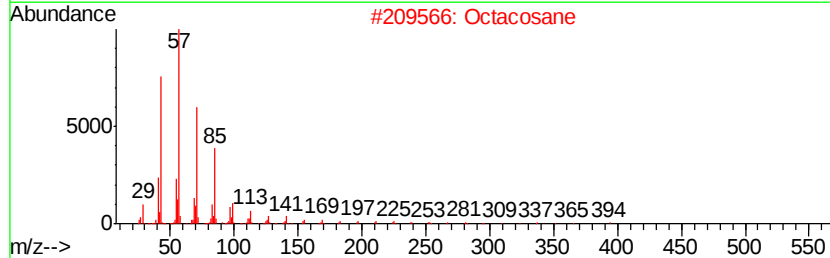
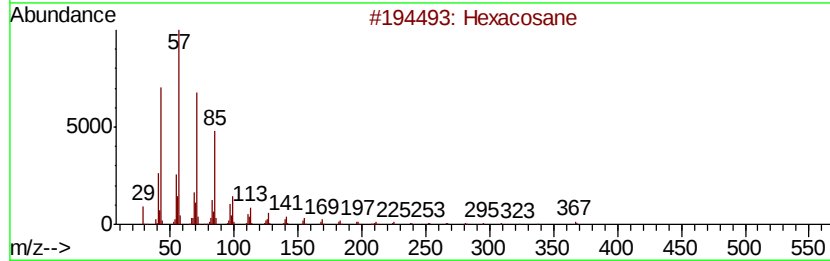
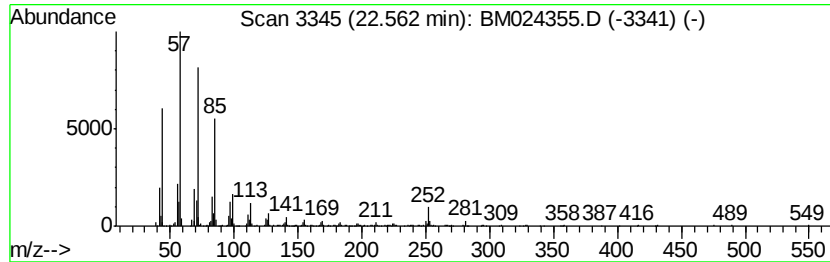
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.56 | 2.40 ng/ul | 763573 | Perylene-d12     | 23.17 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Hexacosane            | 366 | C26H54  | 000630-01-3  | 93   |
| 2    |    | Octacosane            | 394 | C28H58  | 000630-02-4  | 90   |
| 3    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9  | 90   |
| 4    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 90   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122819\  
Data File : BM024355.D  
Acq On : 28 Dec 2019 18:36  
Operator : JU  
Sample : K6278-13  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0C60

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121719MA.M  
Quant Title : SVOA CALIBRATION

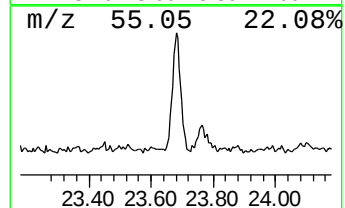
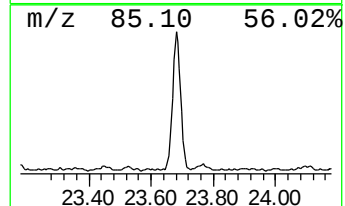
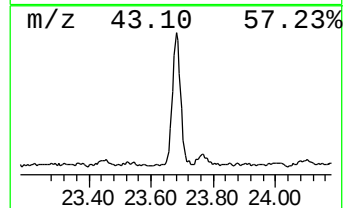
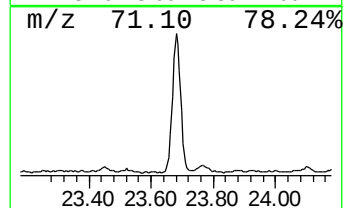
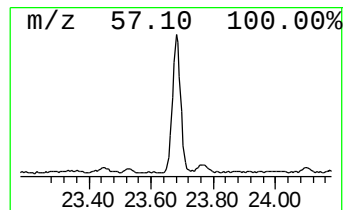
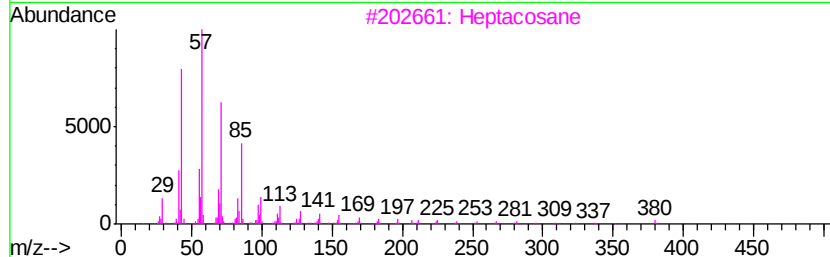
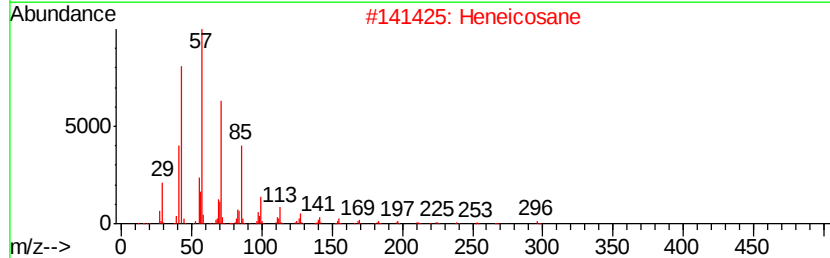
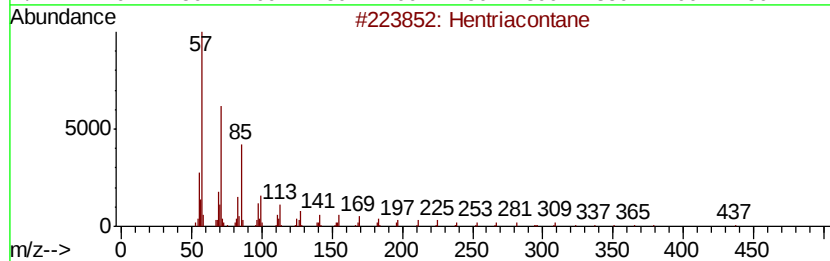
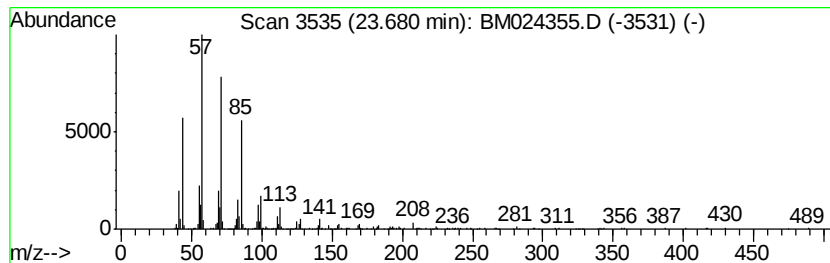
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.68 | 2.51 ng/ul | 799990 | Perylene-d12     | 23.17 |

| Hit# | of | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|----|----------------|-----|---------|-------------|------|
| 1    | 5  | Hentriacontane | 437 | C31H64  | 000630-04-6 | 87   |
| 2    |    | Heneicosane    | 296 | C21H44  | 000629-94-7 | 87   |
| 3    |    | Heptacosane    | 380 | C27H56  | 000593-49-7 | 87   |
| 4    |    | Octacosane     | 394 | C28H58  | 000630-02-4 | 87   |
| 5    |    | Octadecane     | 254 | C18H38  | 000593-45-3 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM122819\  
Data File : BM024355.D  
Acq On : 28 Dec 2019 18:36  
Operator : JU  
Sample : K6278-13  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0C60

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121719MA.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 |
| Sulfurous acid, o... | 20.79 | 2.3     | ng/ul | 708311   | 5                     | 21.05 | 6104590 | 20.0 |
| (DEL) Alkane: Str... | 21.65 | 2.2     | ng/ul | 664768   | 5                     | 21.05 | 6104590 | 20.0 |
| (DEL) Alkane: Str... | 22.09 | 2.4     | ng/ul | 721995   | 5                     | 21.05 | 6104590 | 20.0 |
| (DEL) Alkane: Str... | 22.56 | 2.4     | ng/ul | 763573   | 6                     | 23.17 | 6371010 | 20.0 |
| (DEL) Alkane: Str... | 23.68 | 2.5     | ng/ul | 799990   | 6                     | 23.17 | 6371010 | 20.0 |