

Data Path : Z:\HPCHEM1\BNA N\DATA\BN032618\  
 Data File : BN000628.D  
 Acq On : 26 Mar 2018 19:54  
 Operator : JU/SJ  
 Sample : J1986-18  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEEJ6

## 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\_N\METHODS\SOM-EPA-BN031918.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         | 3.490       | 6             | 9           | 12           | rBV3     | 2770           | 3025          | 0.10%           | 0.009%        |
| 2         | 3.584       | 20            | 25          | 33           | rVB      | 25721          | 39311         | 1.36%           | 0.114%        |
| 3         | 3.902       | 75            | 79          | 85           | rBV3     | 2708           | 5770          | 0.20%           | 0.017%        |
| 4         | 4.408       | 161           | 165         | 169          | rBV      | 4115           | 6072          | 0.21%           | 0.018%        |
| 5         | 4.761       | 221           | 225         | 230          | rBV3     | 5885           | 11263         | 0.39%           | 0.033%        |
| 6         | 5.402       | 329           | 334         | 339          | rBV      | 6379           | 11359         | 0.39%           | 0.033%        |
| 7         | 5.767       | 392           | 396         | 397          | rBV2     | 2181           | 3135          | 0.11%           | 0.009%        |
| 8         | 6.419       | 501           | 507         | 514          | rBV      | 8346           | 13778         | 0.48%           | 0.040%        |
| 9         | 6.561       | 526           | 531         | 539          | rBV5     | 2971           | 7614          | 0.26%           | 0.022%        |
| 10        | 7.361       | 664           | 667         | 676          | rVB5     | 3935           | 8331          | 0.29%           | 0.024%        |
| 11        | 7.555       | 690           | 700         | 711          | rBV      | 445822         | 777184        | 26.93%          | 2.255%        |
| 12        | 7.714       | 717           | 727         | 735          | rBV      | 392282         | 607830        | 21.06%          | 1.764%        |
| 13        | 7.931       | 757           | 764         | 773          | rBV      | 439533         | 734135        | 25.44%          | 2.130%        |
| 14        | 8.408       | 838           | 845         | 860          | rVB      | 475978         | 784427        | 27.18%          | 2.276%        |
| 15        | 8.949       | 932           | 937         | 943          | rBV3     | 1569           | 3202          | 0.11%           | 0.009%        |
| 16        | 9.119       | 959           | 966         | 975          | rBV      | 512177         | 832248        | 28.84%          | 2.415%        |
| 17        | 9.184       | 975           | 977         | 984          | rVB2     | 3348           | 5798          | 0.20%           | 0.017%        |
| 18        | 9.590       | 1039          | 1046        | 1056         | rBV      | 446025         | 746497        | 25.87%          | 2.166%        |
| 19        | 9.678       | 1056          | 1061        | 1067         | rVV      | 9420           | 18915         | 0.66%           | 0.055%        |
| 20        | 9.943       | 1101          | 1106        | 1111         | rVB      | 12005          | 16128         | 0.56%           | 0.047%        |
| 21        | 10.319      | 1162          | 1170        | 1180         | rBV      | 364573         | 621708        | 21.54%          | 1.804%        |
| 22        | 10.866      | 1254          | 1263        | 1272         | rBV      | 558532         | 954187        | 33.06%          | 2.769%        |
| 23        | 11.249      | 1321          | 1328        | 1336         | rVB      | 704207         | 1191252       | 41.28%          | 3.457%        |
| 24        | 11.378      | 1343          | 1350        | 1361         | rBV      | 454389         | 772699        | 26.77%          | 2.242%        |
| 25        | 12.619      | 1556          | 1561        | 1565         | rBV3     | 2828           | 4741          | 0.16%           | 0.014%        |
| 26        | 12.807      | 1588          | 1593        | 1598         | rVB2     | 9443           | 13179         | 0.46%           | 0.038%        |
| 27        | 13.390      | 1687          | 1692        | 1696         | rVB3     | 2029           | 3736          | 0.13%           | 0.011%        |
| 28        | 13.537      | 1714          | 1717        | 1721         | rBV3     | 2450           | 3213          | 0.11%           | 0.009%        |
| 29        | 13.619      | 1729          | 1731        | 1734         | rBV3     | 2634           | 3258          | 0.11%           | 0.009%        |
| 30        | 13.819      | 1758          | 1765        | 1771         | rBV      | 17587          | 24300         | 0.84%           | 0.071%        |
| 31        | 13.890      | 1771          | 1777        | 1783         | rVV4     | 2606           | 4765          | 0.17%           | 0.014%        |
| 32        | 14.337      | 1849          | 1853        | 1858         | rVB3     | 3094           | 4955          | 0.17%           | 0.014%        |
| 33        | 14.419      | 1861          | 1867        | 1871         | rVV      | 1105386        | 1547395       | 53.62%          | 4.490%        |
| 34        | 14.460      | 1871          | 1874        | 1880         | rVV      | 286328         | 394836        | 13.68%          | 1.146%        |

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 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
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## Integration Parameters: LSCINT.P

Integrator: RTE  
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 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\_N\METHODS\SOM-EPA-BN031918.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.507 | 1880 | 1882 | 1887 | rVB  | 7094    | 8544    | 0.30%  | 0.025% |
| 36 | 14.584 | 1890 | 1895 | 1899 | rBV  | 6611    | 8774    | 0.30%  | 0.025% |
| 37 | 14.637 | 1899 | 1904 | 1908 | rBV2 | 4326    | 8216    | 0.28%  | 0.024% |
| 38 | 14.731 | 1913 | 1920 | 1927 | rBV  | 1232423 | 1888719 | 65.45% | 5.481% |
| 39 | 14.878 | 1938 | 1945 | 1950 | rVB  | 66303   | 85233   | 2.95%  | 0.247% |
| 40 | 14.954 | 1953 | 1958 | 1962 | rVV5 | 5052    | 8923    | 0.31%  | 0.026% |
| 41 | 15.031 | 1962 | 1971 | 1979 | rVV2 | 1025652 | 1602015 | 55.51% | 4.649% |
| 42 | 15.219 | 1996 | 2003 | 2015 | rBV  | 477111  | 742352  | 25.72% | 2.154% |
| 43 | 15.319 | 2015 | 2020 | 2026 | rVV6 | 10258   | 27792   | 0.96%  | 0.081% |
| 44 | 15.372 | 2026 | 2029 | 2035 | rVV4 | 10886   | 20359   | 0.71%  | 0.059% |
| 45 | 15.425 | 2035 | 2038 | 2044 | rVV3 | 8788    | 13413   | 0.46%  | 0.039% |
| 46 | 15.484 | 2044 | 2048 | 2057 | rVV4 | 14474   | 29801   | 1.03%  | 0.086% |
| 47 | 15.560 | 2057 | 2061 | 2067 | rVB4 | 7161    | 12195   | 0.42%  | 0.035% |
| 48 | 15.654 | 2074 | 2077 | 2082 | rBV4 | 2202    | 4296    | 0.15%  | 0.012% |
| 49 | 15.719 | 2086 | 2088 | 2091 | rVB3 | 3373    | 3034    | 0.11%  | 0.009% |
| 50 | 15.778 | 2094 | 2098 | 2101 | rVV  | 27008   | 33321   | 1.15%  | 0.097% |
| 51 | 15.819 | 2101 | 2105 | 2110 | rVB  | 89775   | 107430  | 3.72%  | 0.312% |
| 52 | 15.878 | 2111 | 2115 | 2119 | rBV4 | 4709    | 7510    | 0.26%  | 0.022% |
| 53 | 15.931 | 2119 | 2124 | 2128 | rBV6 | 3743    | 7007    | 0.24%  | 0.020% |
| 54 | 16.013 | 2131 | 2138 | 2145 | rBV  | 1553026 | 2272788 | 78.75% | 6.596% |
| 55 | 16.131 | 2152 | 2158 | 2167 | rBV  | 413396  | 573699  | 19.88% | 1.665% |
| 56 | 16.219 | 2167 | 2173 | 2176 | rVV3 | 22001   | 46680   | 1.62%  | 0.135% |
| 57 | 16.248 | 2176 | 2178 | 2185 | rVV2 | 19182   | 26481   | 0.92%  | 0.077% |
| 58 | 16.319 | 2186 | 2190 | 2195 | rVB5 | 7640    | 13035   | 0.45%  | 0.038% |
| 59 | 16.372 | 2195 | 2199 | 2203 | rBV3 | 9415    | 15404   | 0.53%  | 0.045% |
| 60 | 16.437 | 2207 | 2210 | 2214 | rVB2 | 9774    | 11540   | 0.40%  | 0.033% |
| 61 | 16.519 | 2218 | 2224 | 2227 | rBV5 | 2661    | 5049    | 0.17%  | 0.015% |
| 62 | 16.619 | 2237 | 2241 | 2242 | rBV3 | 3717    | 3316    | 0.11%  | 0.010% |
| 63 | 16.672 | 2246 | 2250 | 2258 | rBV  | 71152   | 113744  | 3.94%  | 0.330% |
| 64 | 16.954 | 2294 | 2298 | 2302 | rVB5 | 5147    | 6365    | 0.22%  | 0.018% |
| 65 | 17.019 | 2304 | 2309 | 2315 | rVV5 | 5919    | 12902   | 0.45%  | 0.037% |
| 66 | 17.072 | 2315 | 2318 | 2322 | rVB3 | 5181    | 6846    | 0.24%  | 0.020% |
| 67 | 17.125 | 2322 | 2327 | 2332 | rVB8 | 5075    | 9245    | 0.32%  | 0.027% |
| 68 | 17.178 | 2332 | 2336 | 2339 | rBV2 | 6221    | 7241    | 0.25%  | 0.021% |
| 69 | 17.242 | 2343 | 2347 | 2349 | rBV4 | 4923    | 7595    | 0.26%  | 0.022% |
| 70 | 17.272 | 2349 | 2352 | 2358 | rVB2 | 9292    | 15067   | 0.52%  | 0.044% |
| 71 | 17.460 | 2380 | 2384 | 2389 | rBV  | 41781   | 50413   | 1.75%  | 0.146% |

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Method : Z:\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN031918.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 17.513 | 2389 | 2393 | 2396 | rVV  | 11314   | 17394   | 0.60%   | 0.050% |
| 73  | 17.542 | 2396 | 2398 | 2404 | rVB  | 7690    | 9793    | 0.34%   | 0.028% |
| 74  | 17.613 | 2404 | 2410 | 2418 | rVB9 | 3471    | 8534    | 0.30%   | 0.025% |
| 75  | 17.754 | 2423 | 2434 | 2444 | rBV  | 1344679 | 1881488 | 65.20%  | 5.460% |
| 76  | 17.854 | 2444 | 2451 | 2460 | rBV  | 1762454 | 2455743 | 85.09%  | 7.126% |
| 77  | 17.931 | 2460 | 2464 | 2470 | rVB5 | 4019    | 6485    | 0.22%   | 0.019% |
| 78  | 17.995 | 2471 | 2475 | 2481 | rVB6 | 4124    | 8230    | 0.29%   | 0.024% |
| 79  | 18.084 | 2485 | 2490 | 2503 | rBV5 | 26920   | 63788   | 2.21%   | 0.185% |
| 80  | 18.189 | 2504 | 2508 | 2514 | rVB  | 28473   | 34910   | 1.21%   | 0.101% |
| 81  | 18.366 | 2535 | 2538 | 2543 | rVB2 | 13514   | 15473   | 0.54%   | 0.045% |
| 82  | 18.472 | 2551 | 2556 | 2558 | rBV4 | 5008    | 8491    | 0.29%   | 0.025% |
| 83  | 18.589 | 2571 | 2576 | 2587 | rBV  | 470309  | 699757  | 24.25%  | 2.031% |
| 84  | 18.872 | 2620 | 2624 | 2627 | rBV  | 17291   | 19421   | 0.67%   | 0.056% |
| 85  | 18.907 | 2628 | 2630 | 2637 | rVB5 | 4496    | 5976    | 0.21%   | 0.017% |
| 86  | 18.995 | 2643 | 2645 | 2650 | rVB5 | 4632    | 6415    | 0.22%   | 0.019% |
| 87  | 19.354 | 2702 | 2706 | 2709 | rBV4 | 6370    | 11432   | 0.40%   | 0.033% |
| 88  | 19.436 | 2715 | 2720 | 2726 | rBV5 | 20355   | 37740   | 1.31%   | 0.110% |
| 89  | 19.489 | 2727 | 2729 | 2731 | rVV2 | 4814    | 4403    | 0.15%   | 0.013% |
| 90  | 19.707 | 2762 | 2766 | 2767 | rBV3 | 10251   | 12702   | 0.44%   | 0.037% |
| 91  | 19.748 | 2767 | 2773 | 2777 | rVB  | 21477   | 42072   | 1.46%   | 0.122% |
| 92  | 19.836 | 2784 | 2788 | 2803 | rBV  | 160023  | 278309  | 9.64%   | 0.808% |
| 93  | 19.995 | 2812 | 2815 | 2820 | rVB  | 21078   | 27662   | 0.96%   | 0.080% |
| 94  | 20.107 | 2828 | 2834 | 2843 | rBV  | 2044922 | 2819912 | 97.71%  | 8.183% |
| 95  | 20.572 | 2909 | 2913 | 2917 | rBV6 | 9108    | 19273   | 0.67%   | 0.056% |
| 96  | 21.530 | 3072 | 3076 | 3087 | rBV  | 345626  | 579208  | 20.07%  | 1.681% |
| 97  | 21.878 | 3129 | 3135 | 3141 | rBV  | 1616123 | 2149570 | 74.49%  | 6.238% |
| 98  | 23.095 | 3339 | 3342 | 3350 | rVB  | 105324  | 156959  | 5.44%   | 0.455% |
| 99  | 24.201 | 3523 | 3530 | 3541 | rVB2 | 1344979 | 2885901 | 100.00% | 8.375% |
| 100 | 24.354 | 3549 | 3556 | 3567 | rVB  | 1013438 | 2195798 | 76.09%  | 6.372% |

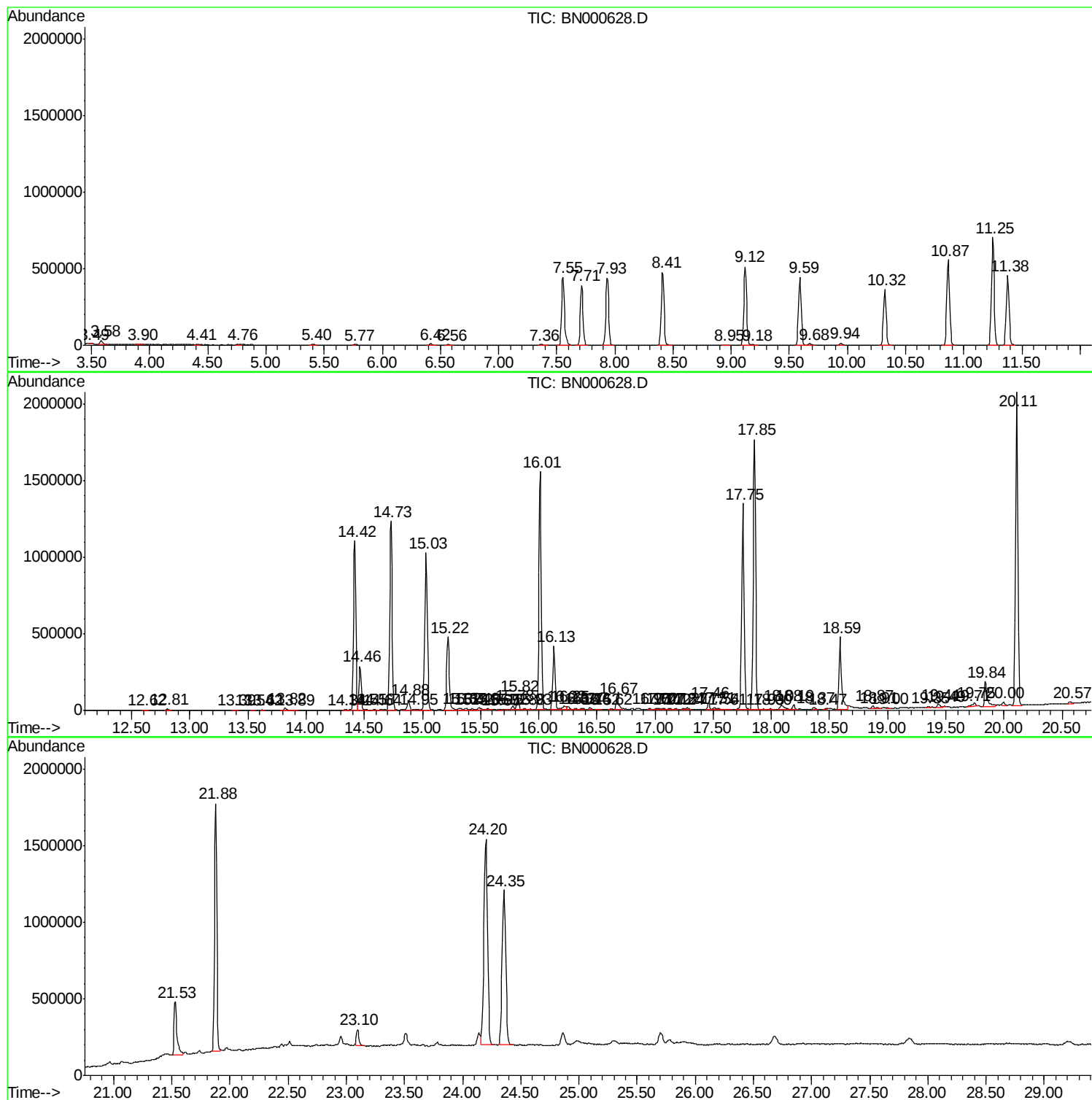
Sum of corrected areas: 34459429

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Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN031918.M  
Quant Title : SVOA CALIBRATION

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



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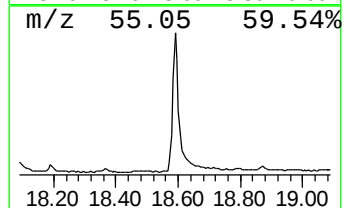
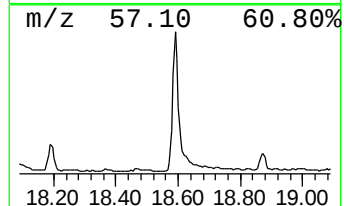
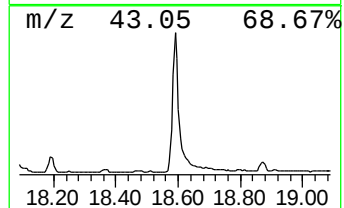
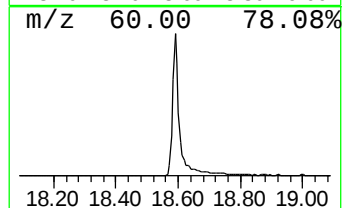
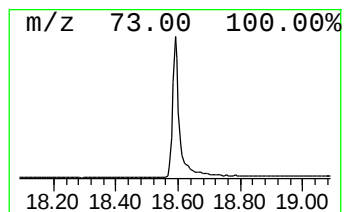
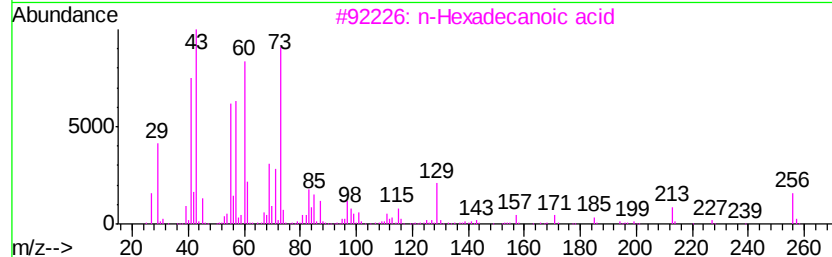
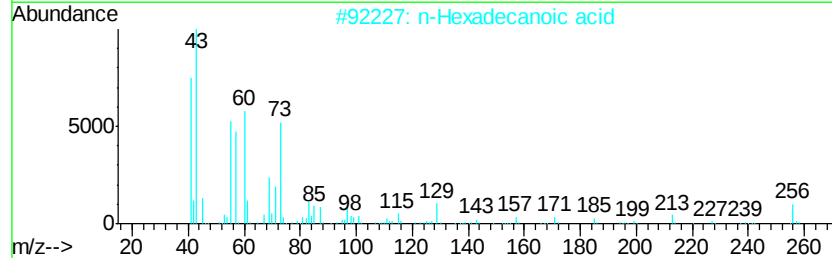
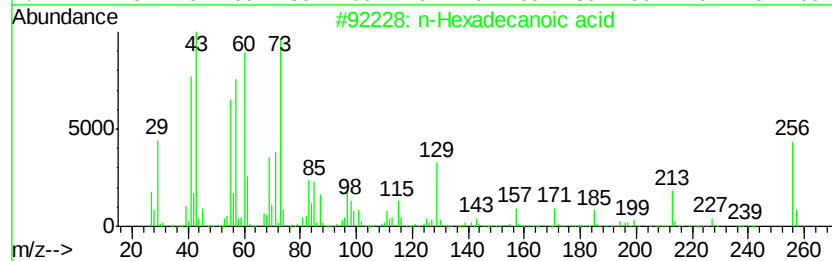
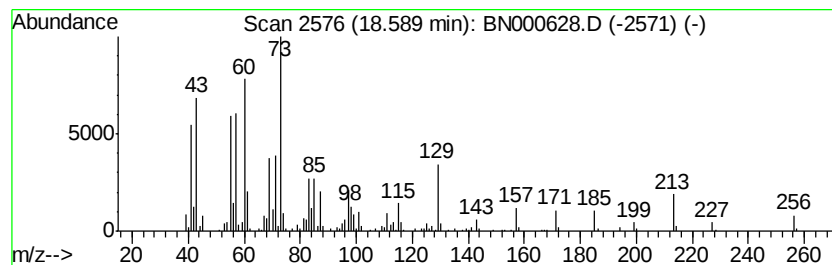
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN031918.M  
Quant Title : SVOA CALIBRATION

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

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

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 18.59     | 7.44 ng/ul          | 699757 | Phenanthrene-d10 |             | 17.75 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 98    |
| 2         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 95    |
| 3         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 95    |
| 4         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 93    |
| 5         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 83    |



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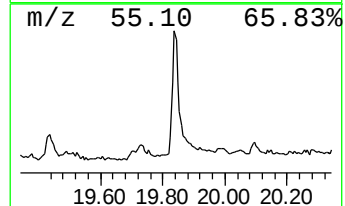
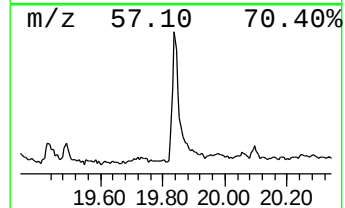
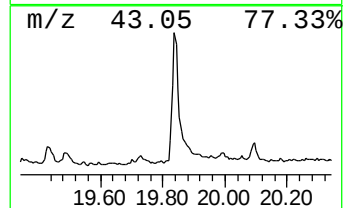
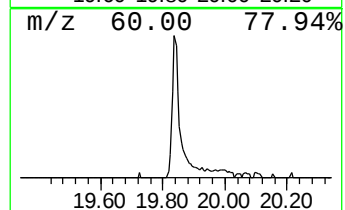
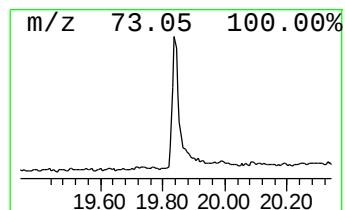
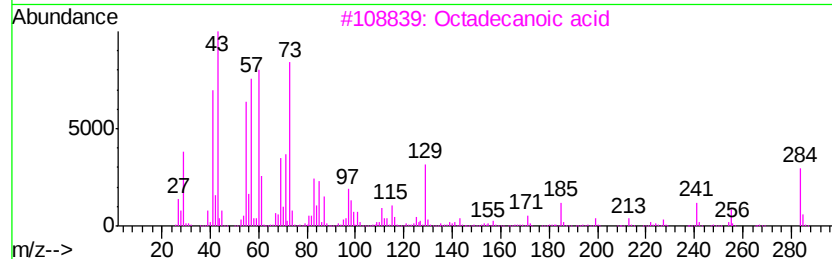
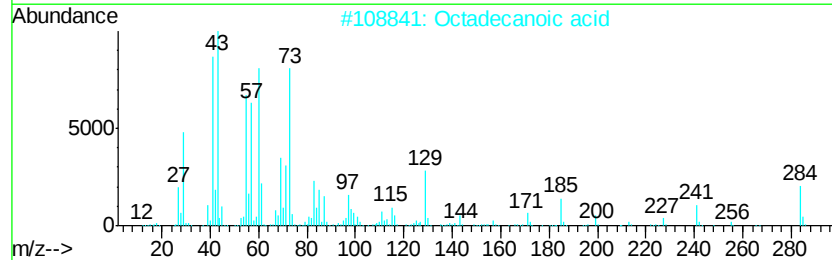
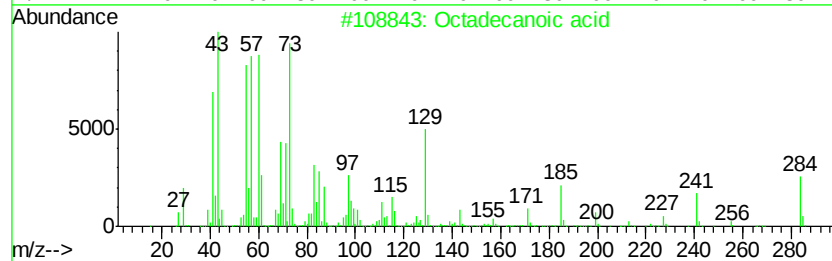
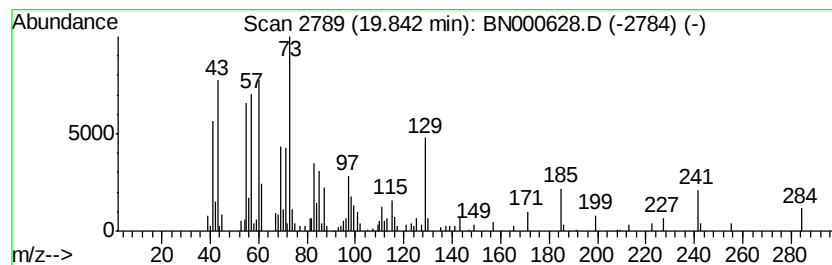
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Octadecanoic acid Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.84 | 2.59 ng/ul | 278309 | Chrysene-d12     | 21.88 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 98   |
| 3    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 95   |
| 4    |    | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 91   |
| 5    |    | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 91   |



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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BEEJ6

Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN031918.M  
Quant Title : SVOA CALIBRATION

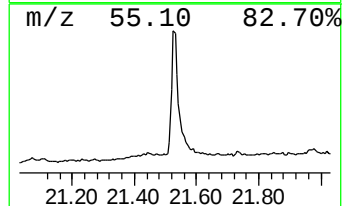
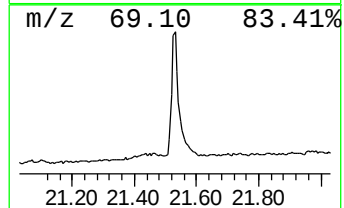
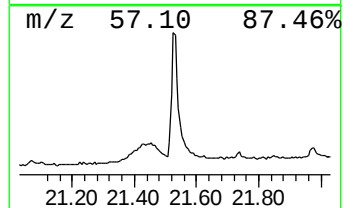
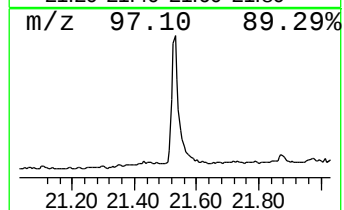
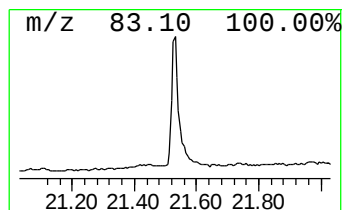
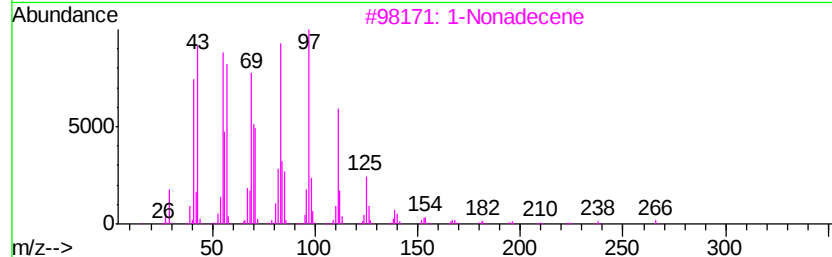
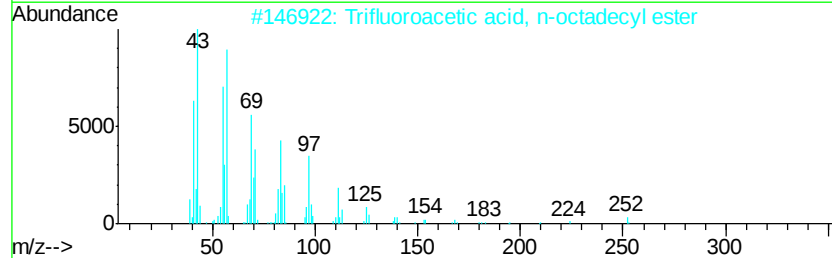
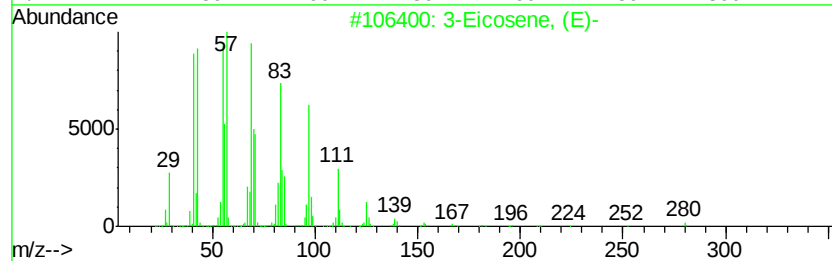
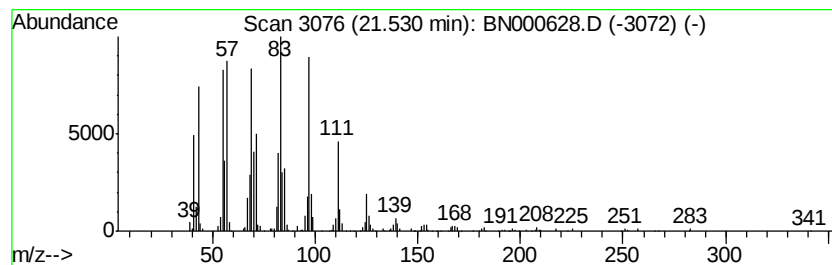
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Cyclic21.53 Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.53 | 5.39 ng/ul | 579208 | Chrysene-d12     | 21.88 |

| Hit# | of                                   | 5              | Tentative ID | MW          | MolForm     | CAS# | Qual |
|------|--------------------------------------|----------------|--------------|-------------|-------------|------|------|
| 1    | 3                                    | Eicosene, (E)- | 280          | C20H40      | 074685-33-9 | 91   |      |
| 2    | Trifluoroacetic acid, n-octadecyl... | 366            | C20H37F3O2   | 079392-43-1 | 91          |      |      |
| 3    | 1-Nonadecene                         | 266            | C19H38       | 018435-45-5 | 91          |      |      |
| 4    | 1-Heptadecanol                       | 256            | C17H36O      | 001454-85-9 | 90          |      |      |
| 5    | 9-Eicosene, (E)-                     | 280            | C20H40       | 074685-29-3 | 87          |      |      |



Data Path : Z:\HPCHEM1\BNA\_N\DATA\BN032618\  
Data File : BN000628.D  
Acq On : 26 Mar 2018 19:54  
Operator : JU/SJ  
Sample : J1986-18  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BEEJ6

Quant Method : Z:\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN031918.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 |
| n-Hexadecanoic acid  | 18.59 | 7.4     | ng/ul | 699757   | 4                     | 17.75 | 1881490 | 20.0 |
| Octadecanoic acid    | 19.84 | 2.6     | ng/ul | 278309   | 5                     | 21.88 | 2149570 | 20.0 |
| (DEL) Alkane: Cyc... | 21.53 | 5.4     | ng/ul | 579208   | 5                     | 21.88 | 2149570 | 20.0 |