

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052919\  
 Data File : BN005933.D  
 Acq On : 29 May 2019 16:46  
 Operator : JU/SJ  
 Sample : K2928-12  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A42C6

## 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\_N\METHODS\SOM-EPA-BN052819MA.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         | 3.266       | 15            | 19          | 24           | rVB      | 42024          | 59179         | 0.72%           | 0.069%        |
| 2         | 3.766       | 101           | 104         | 112          | rVB2     | 31247          | 42690         | 0.52%           | 0.050%        |
| 3         | 3.889       | 120           | 125         | 132          | rBV      | 96754          | 152321        | 1.86%           | 0.178%        |
| 4         | 3.983       | 137           | 141         | 148          | rVB      | 26217          | 38357         | 0.47%           | 0.045%        |
| 5         | 4.083       | 152           | 158         | 162          | rBV7     | 18110          | 29216         | 0.36%           | 0.034%        |
| 6         | 4.866       | 286           | 291         | 300          | rBV      | 101896         | 169304        | 2.07%           | 0.198%        |
| 7         | 6.130       | 504           | 506         | 510          | rVB5     | 16397          | 19860         | 0.24%           | 0.023%        |
| 8         | 6.889       | 628           | 635         | 645          | rBV      | 791083         | 1343363       | 16.40%          | 1.573%        |
| 9         | 7.066       | 657           | 665         | 675          | rBV      | 781115         | 1239703       | 15.14%          | 1.452%        |
| 10        | 7.260       | 691           | 698         | 710          | rBV      | 851145         | 1363420       | 16.65%          | 1.596%        |
| 11        | 7.730       | 770           | 778         | 785          | rBV      | 1684527        | 2771156       | 33.83%          | 3.245%        |
| 12        | 7.789       | 785           | 788         | 793          | rVB6     | 14264          | 21141         | 0.26%           | 0.025%        |
| 13        | 8.418       | 889           | 895         | 907          | rBV      | 826179         | 1329231       | 16.23%          | 1.556%        |
| 14        | 8.542       | 911           | 916         | 922          | rVB      | 64924          | 99988         | 1.22%           | 0.117%        |
| 15        | 8.877       | 965           | 973         | 982          | rVV      | 905881         | 1446708       | 17.66%          | 1.694%        |
| 16        | 8.948       | 982           | 985         | 989          | rVV5     | 11920          | 21893         | 0.27%           | 0.026%        |
| 17        | 9.042       | 995           | 1001        | 1008         | rBV6     | 24340          | 42342         | 0.52%           | 0.050%        |
| 18        | 9.307       | 1041          | 1046        | 1050         | rVB2     | 25995          | 37194         | 0.45%           | 0.044%        |
| 19        | 9.595       | 1088          | 1095        | 1102         | rVV      | 653039         | 1062212       | 12.97%          | 1.244%        |
| 20        | 9.718       | 1112          | 1116        | 1121         | rVB7     | 12502          | 25071         | 0.31%           | 0.029%        |
| 21        | 9.948       | 1150          | 1155        | 1161         | rVB6     | 13945          | 21993         | 0.27%           | 0.026%        |
| 22        | 10.124      | 1177          | 1185        | 1197         | rBV      | 1022565        | 1719793       | 21.00%          | 2.014%        |
| 23        | 10.512      | 1242          | 1251        | 1258         | rBV      | 2489186        | 4244732       | 51.83%          | 4.970%        |
| 24        | 10.642      | 1263          | 1273        | 1286         | rVV      | 937092         | 1609706       | 19.65%          | 1.885%        |
| 25        | 11.042      | 1336          | 1341        | 1346         | rVB7     | 12483          | 25094         | 0.31%           | 0.029%        |
| 26        | 11.289      | 1379          | 1383        | 1387         | rBV4     | 15572          | 27676         | 0.34%           | 0.032%        |
| 27        | 11.542      | 1422          | 1426        | 1430         | rVB4     | 13551          | 19416         | 0.24%           | 0.023%        |
| 28        | 12.101      | 1512          | 1521        | 1527         | rBV      | 26633          | 52624         | 0.64%           | 0.062%        |
| 29        | 12.965      | 1664          | 1668        | 1675         | rVB6     | 12223          | 21326         | 0.26%           | 0.025%        |
| 30        | 13.200      | 1702          | 1708        | 1713         | rVB6     | 17630          | 29588         | 0.36%           | 0.035%        |
| 31        | 13.689      | 1787          | 1791        | 1795         | rVB2     | 22233          | 36035         | 0.44%           | 0.042%        |
| 32        | 13.777      | 1800          | 1806        | 1810         | rVV      | 2267509        | 3005636       | 36.70%          | 3.519%        |
| 33        | 13.824      | 1810          | 1814        | 1819         | rVB      | 770254         | 977786        | 11.94%          | 1.145%        |
| 34        | 14.059      | 1847          | 1854        | 1863         | rVB      | 2248937        | 3234641       | 39.49%          | 3.787%        |

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 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\_N\METHODS\SOM-EPA-BN052819MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 14.277 | 1886 | 1891 | 1895 | rVB5  | 15126   | 24997   | 0.31%  | 0.029% |
| 36 | 14.371 | 1899 | 1907 | 1914 | rBV2  | 3601125 | 5611193 | 68.51% | 6.570% |
| 37 | 14.553 | 1932 | 1938 | 1951 | rBV   | 711754  | 1051038 | 12.83% | 1.231% |
| 38 | 14.712 | 1961 | 1965 | 1970 | rVV6  | 26894   | 49804   | 0.61%  | 0.058% |
| 39 | 14.789 | 1971 | 1978 | 1983 | rVV4  | 67272   | 130972  | 1.60%  | 0.153% |
| 40 | 14.847 | 1984 | 1988 | 1993 | rVV2  | 21489   | 34248   | 0.42%  | 0.040% |
| 41 | 15.042 | 2015 | 2021 | 2026 | rVB10 | 14360   | 26825   | 0.33%  | 0.031% |
| 42 | 15.195 | 2038 | 2047 | 2051 | rBV7  | 18831   | 44714   | 0.55%  | 0.052% |
| 43 | 15.236 | 2051 | 2054 | 2057 | rVB2  | 17659   | 19025   | 0.23%  | 0.022% |
| 44 | 15.300 | 2061 | 2065 | 2068 | rBV6  | 11654   | 18973   | 0.23%  | 0.022% |
| 45 | 15.365 | 2069 | 2076 | 2082 | rVV   | 2981821 | 4276346 | 52.21% | 5.007% |
| 46 | 15.477 | 2089 | 2095 | 2103 | rBV   | 579591  | 803161  | 9.81%  | 0.940% |
| 47 | 15.536 | 2103 | 2105 | 2110 | rVV6  | 12208   | 20083   | 0.25%  | 0.024% |
| 48 | 15.600 | 2111 | 2116 | 2121 | rVV   | 39896   | 61425   | 0.75%  | 0.072% |
| 49 | 16.059 | 2187 | 2194 | 2197 | rBV5  | 17978   | 33168   | 0.40%  | 0.039% |
| 50 | 16.094 | 2197 | 2200 | 2204 | rVV4  | 22802   | 32172   | 0.39%  | 0.038% |
| 51 | 16.153 | 2206 | 2210 | 2213 | rVV4  | 17343   | 26272   | 0.32%  | 0.031% |
| 52 | 16.424 | 2250 | 2256 | 2261 | rVV8  | 14677   | 34766   | 0.42%  | 0.041% |
| 53 | 16.471 | 2261 | 2264 | 2267 | rVV2  | 26323   | 32315   | 0.39%  | 0.038% |
| 54 | 16.524 | 2270 | 2273 | 2276 | rVV5  | 17970   | 21729   | 0.27%  | 0.025% |
| 55 | 16.665 | 2293 | 2297 | 2300 | rBV2  | 29917   | 41976   | 0.51%  | 0.049% |
| 56 | 16.906 | 2333 | 2338 | 2341 | rVV2  | 29528   | 56426   | 0.69%  | 0.066% |
| 57 | 16.936 | 2341 | 2343 | 2350 | rVB8  | 13558   | 21822   | 0.27%  | 0.026% |
| 58 | 17.047 | 2359 | 2362 | 2366 | rVB6  | 19858   | 29766   | 0.36%  | 0.035% |
| 59 | 17.118 | 2367 | 2374 | 2379 | rVV2  | 4844762 | 6939095 | 84.72% | 8.125% |
| 60 | 17.159 | 2379 | 2381 | 2385 | rVV   | 83950   | 95568   | 1.17%  | 0.112% |
| 61 | 17.218 | 2385 | 2391 | 2401 | rVB2  | 3041458 | 4351733 | 53.13% | 5.095% |
| 62 | 17.312 | 2401 | 2407 | 2412 | rBV7  | 31062   | 62469   | 0.76%  | 0.073% |
| 63 | 17.359 | 2412 | 2415 | 2419 | rBV6  | 21179   | 35705   | 0.44%  | 0.042% |
| 64 | 17.694 | 2470 | 2472 | 2477 | rVB4  | 26788   | 38223   | 0.47%  | 0.045% |
| 65 | 17.794 | 2486 | 2489 | 2494 | rVB5  | 21203   | 26951   | 0.33%  | 0.032% |
| 66 | 17.894 | 2502 | 2506 | 2508 | rBV4  | 19090   | 24722   | 0.30%  | 0.029% |
| 67 | 18.024 | 2518 | 2528 | 2536 | rBV2  | 659819  | 1189842 | 14.53% | 1.393% |
| 68 | 18.088 | 2536 | 2539 | 2543 | rVB2  | 74877   | 109483  | 1.34%  | 0.128% |
| 69 | 18.183 | 2551 | 2555 | 2560 | rVV2  | 49178   | 67360   | 0.82%  | 0.079% |
| 70 | 18.224 | 2560 | 2562 | 2568 | rVB   | 34302   | 36206   | 0.44%  | 0.042% |
| 71 | 18.341 | 2576 | 2582 | 2588 | rBV4  | 45893   | 84765   | 1.03%  | 0.099% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 18.500 | 2605 | 2609 | 2614 | rBV3 | 45480   | 66919   | 0.82%   | 0.078% |
| 73  | 18.753 | 2648 | 2652 | 2655 | rVB3 | 27202   | 35086   | 0.43%   | 0.041% |
| 74  | 18.800 | 2656 | 2660 | 2663 | rVV  | 40465   | 54161   | 0.66%   | 0.063% |
| 75  | 18.835 | 2663 | 2666 | 2670 | rVB4 | 30281   | 42970   | 0.52%   | 0.050% |
| 76  | 18.918 | 2676 | 2680 | 2685 | rBV2 | 98954   | 137808  | 1.68%   | 0.161% |
| 77  | 18.965 | 2685 | 2688 | 2693 | rVB3 | 36705   | 51266   | 0.63%   | 0.060% |
| 78  | 19.059 | 2701 | 2704 | 2706 | rBV4 | 23826   | 30404   | 0.37%   | 0.036% |
| 79  | 19.153 | 2717 | 2720 | 2722 | rBV  | 45002   | 60731   | 0.74%   | 0.071% |
| 80  | 19.188 | 2722 | 2726 | 2734 | rVB2 | 134687  | 199471  | 2.44%   | 0.234% |
| 81  | 19.253 | 2734 | 2737 | 2740 | rBV2 | 35862   | 41596   | 0.51%   | 0.049% |
| 82  | 19.312 | 2743 | 2747 | 2754 | rBV  | 245965  | 357454  | 4.36%   | 0.419% |
| 83  | 19.524 | 2777 | 2783 | 2791 | rBV  | 3849722 | 5377627 | 65.66%  | 6.296% |
| 84  | 19.877 | 2839 | 2843 | 2848 | rBV6 | 38582   | 65180   | 0.80%   | 0.076% |
| 85  | 20.053 | 2869 | 2873 | 2876 | rBV2 | 65271   | 78411   | 0.96%   | 0.092% |
| 86  | 20.082 | 2876 | 2878 | 2882 | rVB  | 82068   | 86861   | 1.06%   | 0.102% |
| 87  | 20.447 | 2937 | 2940 | 2947 | rVB6 | 58032   | 85755   | 1.05%   | 0.100% |
| 88  | 20.582 | 2960 | 2963 | 2968 | rBV2 | 125083  | 147125  | 1.80%   | 0.172% |
| 89  | 21.047 | 3038 | 3042 | 3049 | rBV  | 926834  | 1209929 | 14.77%  | 1.417% |
| 90  | 21.329 | 3084 | 3090 | 3096 | rBV2 | 6016497 | 8190230 | 100.00% | 9.590% |
| 91  | 21.494 | 3115 | 3118 | 3123 | rBV  | 325827  | 411437  | 5.02%   | 0.482% |
| 92  | 21.941 | 3190 | 3194 | 3199 | rBV  | 448603  | 617067  | 7.53%   | 0.723% |
| 93  | 22.406 | 3269 | 3273 | 3278 | rBV2 | 522269  | 792376  | 9.67%   | 0.928% |
| 94  | 22.541 | 3293 | 3296 | 3304 | rVB2 | 158855  | 236172  | 2.88%   | 0.277% |
| 95  | 22.924 | 3356 | 3361 | 3366 | rBV2 | 537761  | 839137  | 10.25%  | 0.983% |
| 96  | 23.453 | 3445 | 3451 | 3456 | rBV2 | 2551084 | 4518026 | 55.16%  | 5.290% |
| 97  | 23.500 | 3456 | 3459 | 3465 | rVB  | 511716  | 759902  | 9.28%   | 0.890% |
| 98  | 23.600 | 3469 | 3476 | 3484 | rBV2 | 4118379 | 7529734 | 91.94%  | 8.816% |
| 99  | 24.153 | 3565 | 3570 | 3579 | rVB  | 402843  | 802011  | 9.79%   | 0.939% |
| 100 | 24.912 | 3694 | 3699 | 3709 | rVB2 | 301534  | 676546  | 8.26%   | 0.792% |

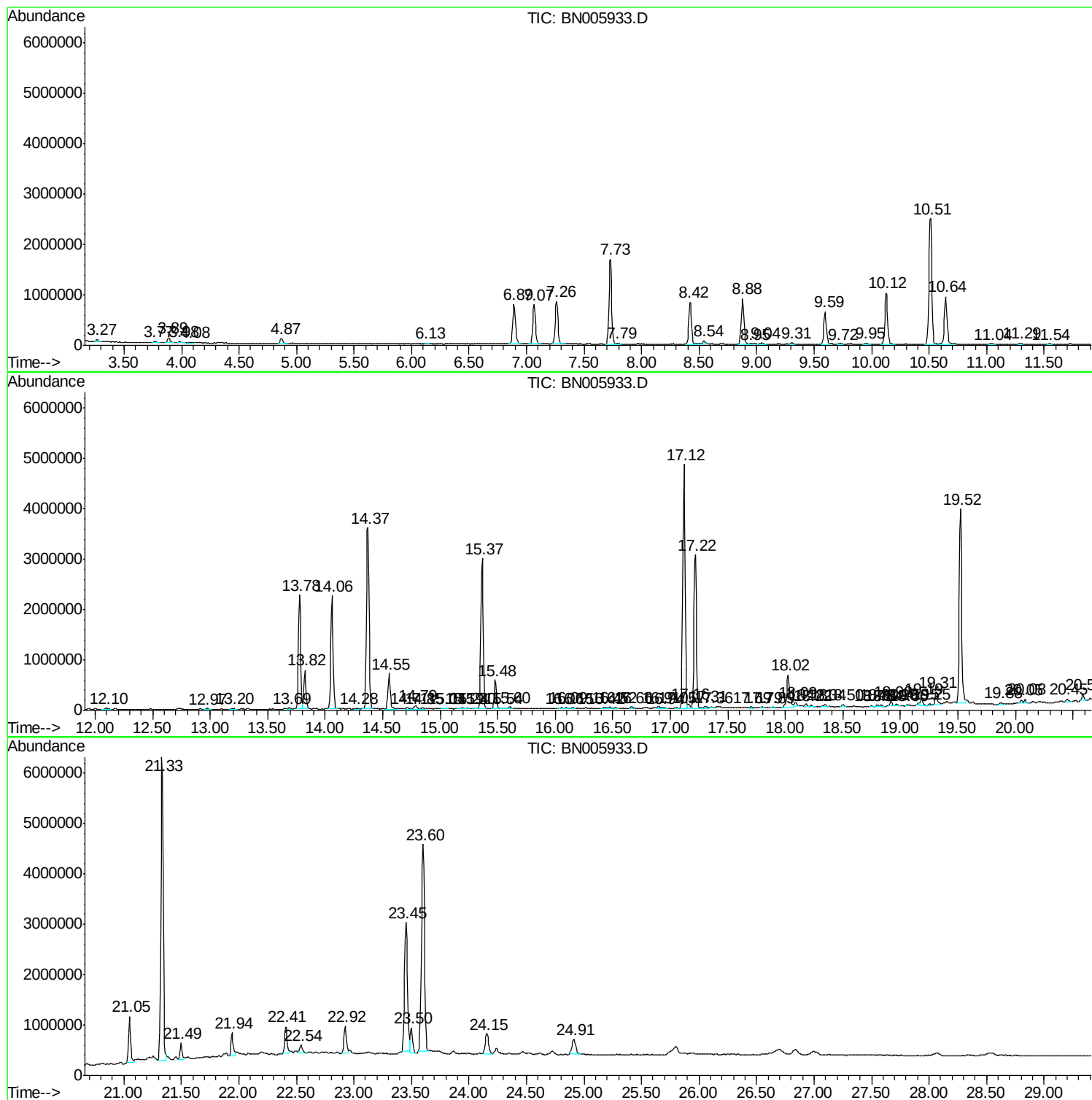
Sum of corrected areas: 85407125

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.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\_N\METHODS\SOM-EPA-BN052819MA.M  
Quant Title : SVOA CALIBRATION

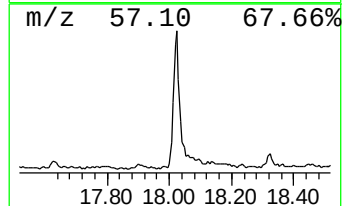
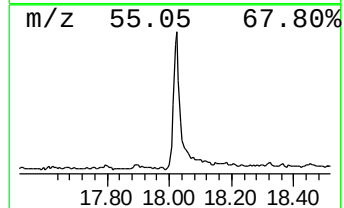
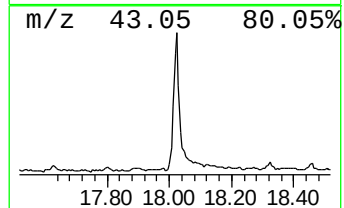
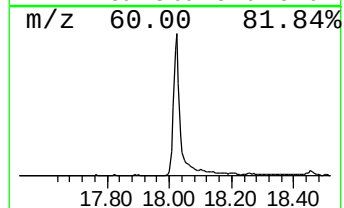
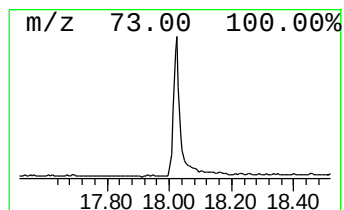
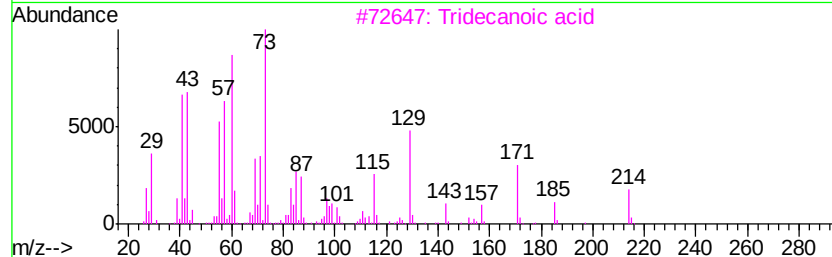
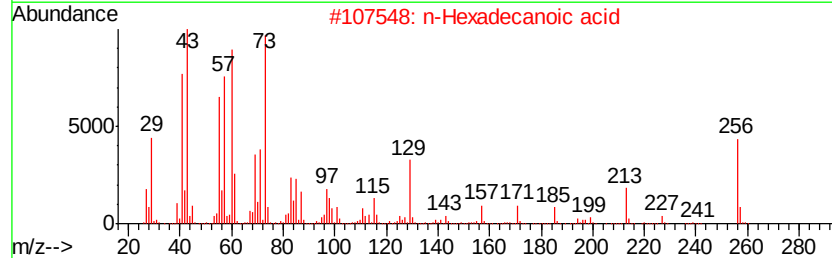
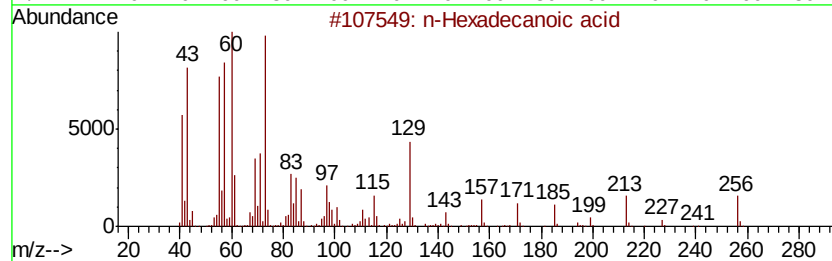
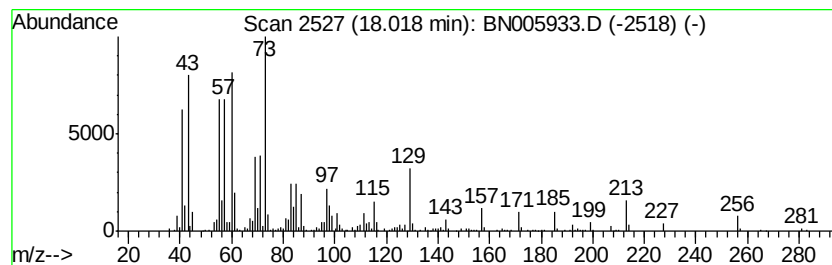
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 18.02 | 3.43 ng/ul | 1189840 | Phenanthrene-d10 | 17.12 |

| 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    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 5    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 91   |



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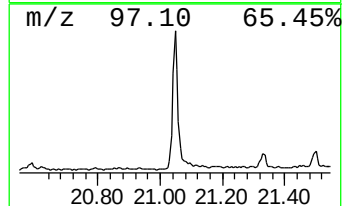
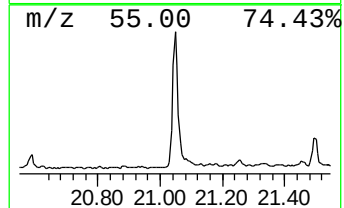
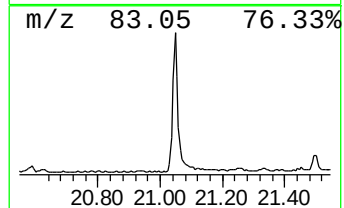
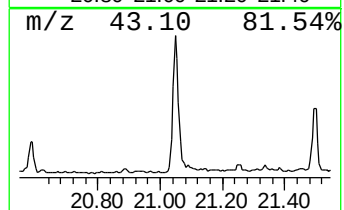
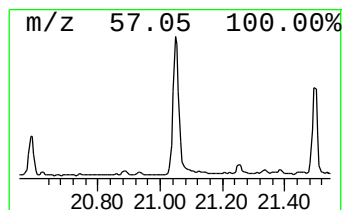
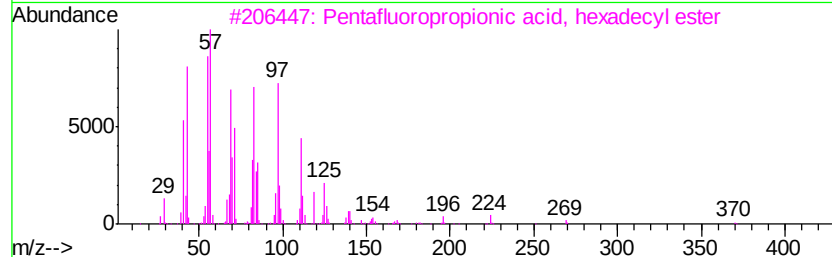
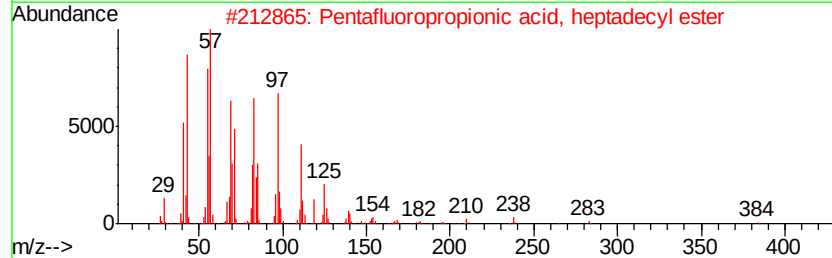
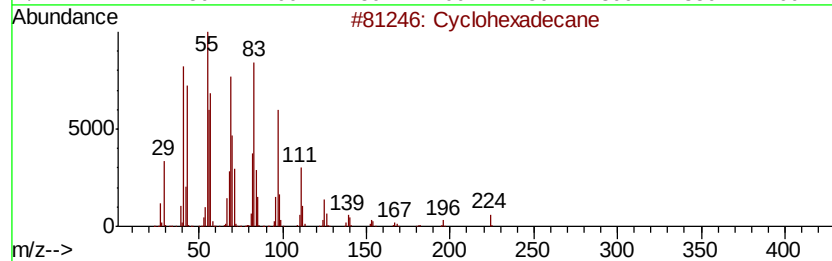
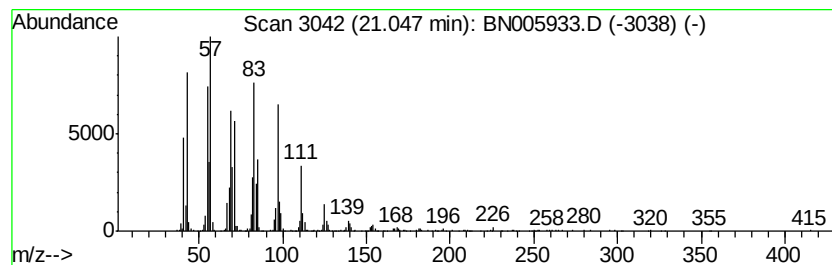
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
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\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic21.05 Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 21.05   | 2.95 ng/ul | 1209930                             | Chrysene-d12     | 21.33           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | Cyclohexadecane                     | 224 C16H32       | 000295-65-8 95  |
| 2       |            | Pentafluoropropionic acid, hepta... | 402 C20H35F5O2   | 959218-78-1 91  |
| 3       |            | Pentafluoropropionic acid, hexad... | 388 C19H33F5O2   | 006222-07-7 91  |
| 4       |            | Trichloroacetic acid, hexadecyl ... | 386 C18H33Cl3O2  | 074339-54-1 91  |
| 5       |            | Nonadecyl trifluoroacetate          | 380 C21H39F3O2   | 1000351-76-3 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052919\  
Data File : BN005933.D  
Acq On : 29 May 2019 16:46  
Operator : JU/SJ  
Sample : K2928-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
Quant Title : SVOA CALIBRATION

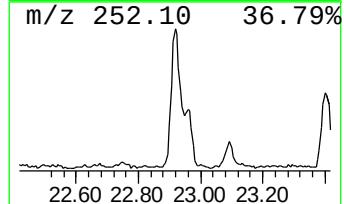
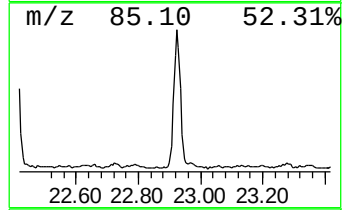
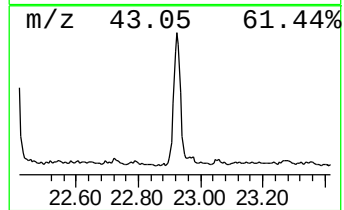
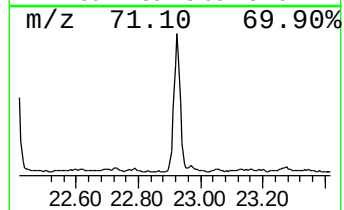
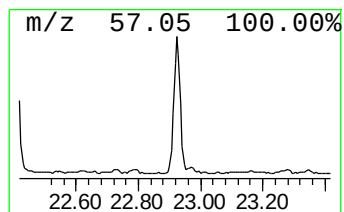
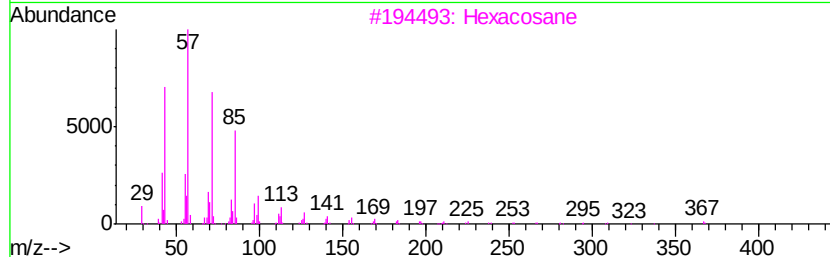
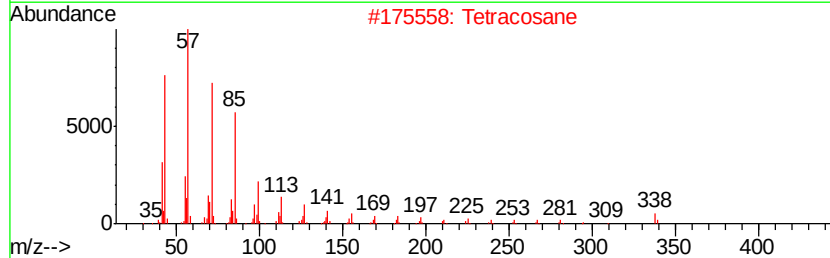
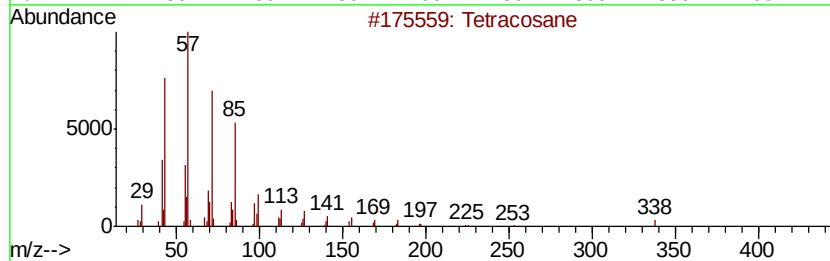
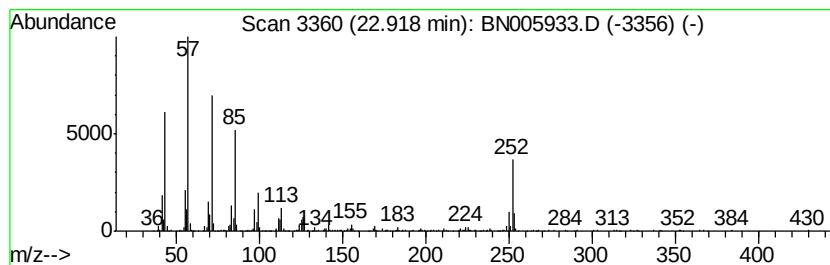
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.92 | 2.23 ng/ul | 839137 | Perylene-d12     | 23.60 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetracosane               | 338 | C24H50  | 000646-31-1 | 99   |
| 2    |    | Tetracosane               | 338 | C24H50  | 000646-31-1 | 96   |
| 3    |    | Hexacosane                | 366 | C26H54  | 000630-01-3 | 93   |
| 4    |    | Docosane, 11-butyl-       | 366 | C26H54  | 013475-76-8 | 83   |
| 5    |    | Octadecane, 5,14-dibutyl- | 366 | C26H54  | 055282-13-8 | 83   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052919\  
Data File : BN005933.D  
Acq On : 29 May 2019 16:46  
Operator : JU/SJ  
Sample : K2928-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A42C6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
Quant Title : SVOA CALIBRATION

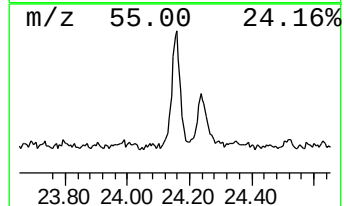
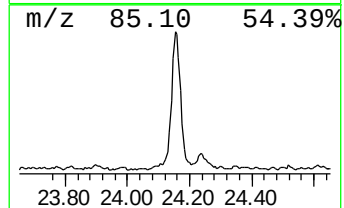
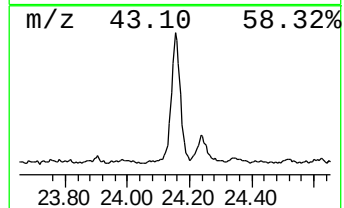
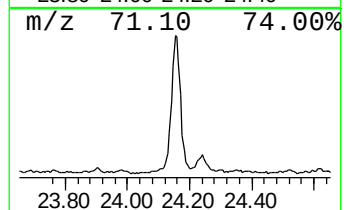
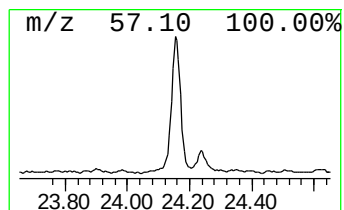
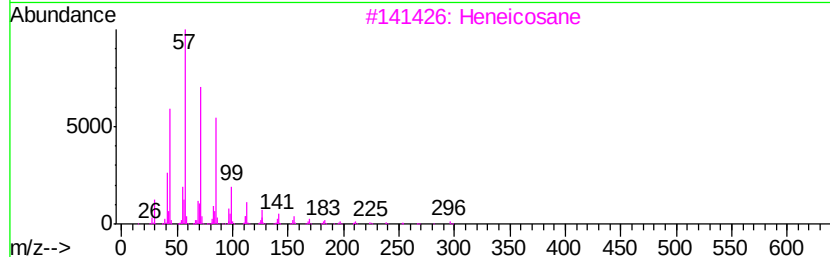
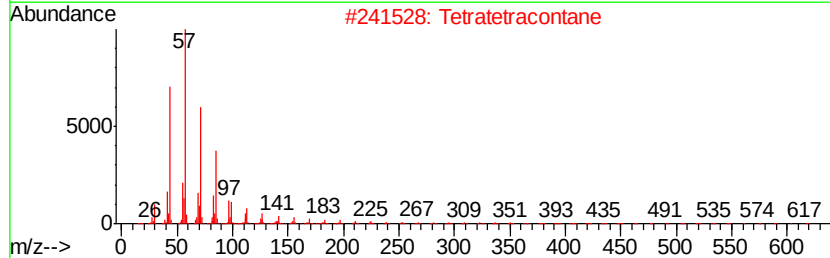
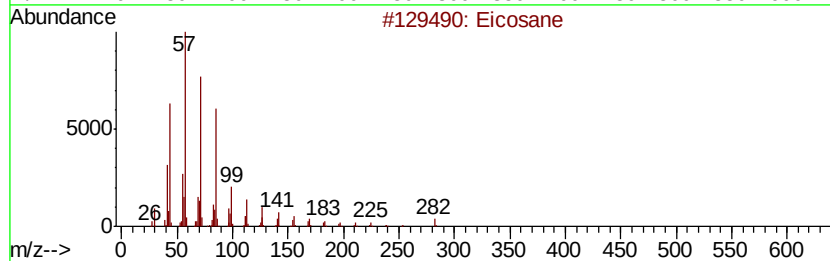
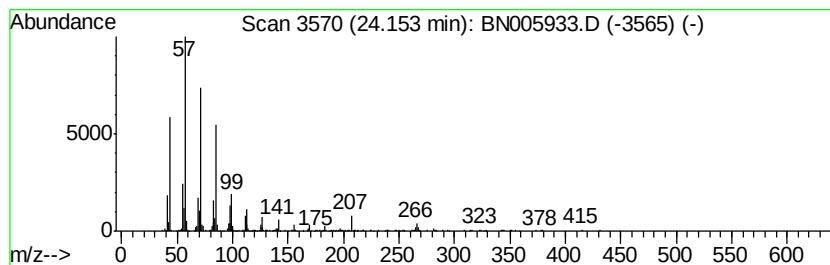
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.15 | 2.13 ng/ul | 802011 | Perylene-d12     | 23.60 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane                         | 282 | C20H42  | 000112-95-8 | 93   |
| 2    |    | Tetratetracontane                | 619 | C44H90  | 007098-22-8 | 91   |
| 3    |    | Heneicosane                      | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 87   |
| 5    |    | Octacosane                       | 394 | C28H58  | 000630-02-4 | 87   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052919\  
Data File : BN005933.D  
Acq On : 29 May 2019 16:46  
Operator : JU/SJ  
Sample : K2928-12  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A42C6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.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  | 18.02 | 3.4     | ng/ul | 1189840  | 4                     | 17.12 | 6939100 | 20.0 |
| (DEL) Alkane: Cyc... | 21.05 | 3.0     | ng/ul | 1209930  | 5                     | 21.33 | 8190230 | 20.0 |
| (DEL) Alkane: Str... | 22.92 | 2.2     | ng/ul | 839137   | 6                     | 23.60 | 7529730 | 20.0 |
| (DEL) Alkane: Str... | 24.15 | 2.1     | ng/ul | 802011   | 6                     | 23.60 | 7529730 | 20.0 |