

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
 Data File : BM024899.D  
 Acq On : 14 Feb 2020 18:57  
 Operator : CG/JU  
 Sample : L1422-20  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C5AX9

## 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-BM020620MA.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         | 3.040       | 22            | 26          | 39           | rVB      | 35675          | 86126         | 1.71%           | 0.134%        |
| 2         | 3.522       | 104           | 108         | 113          | rVB2     | 26242          | 42911         | 0.85%           | 0.067%        |
| 3         | 3.646       | 123           | 129         | 138          | rVB3     | 19635          | 43990         | 0.87%           | 0.068%        |
| 4         | 3.728       | 138           | 143         | 147          | rBV5     | 8652           | 15760         | 0.31%           | 0.025%        |
| 5         | 3.940       | 174           | 179         | 185          | rBV2     | 31519          | 56434         | 1.12%           | 0.088%        |
| 6         | 4.245       | 229           | 231         | 236          | rVB7     | 9024           | 14257         | 0.28%           | 0.022%        |
| 7         | 4.334       | 242           | 246         | 253          | rBV2     | 18491          | 30343         | 0.60%           | 0.047%        |
| 8         | 4.598       | 286           | 291         | 301          | rVB      | 77970          | 143085        | 2.84%           | 0.223%        |
| 9         | 6.592       | 619           | 630         | 644          | rBV      | 830683         | 1398653       | 27.73%          | 2.176%        |
| 10        | 6.745       | 650           | 656         | 669          | rBV      | 703417         | 1143615       | 22.68%          | 1.779%        |
| 11        | 6.934       | 682           | 688         | 698          | rBV      | 955776         | 1539788       | 30.53%          | 2.395%        |
| 12        | 7.392       | 758           | 766         | 777          | rBV      | 1125779        | 1807331       | 35.84%          | 2.811%        |
| 13        | 8.104       | 881           | 887         | 899          | rBV      | 963232         | 1515178       | 30.04%          | 2.357%        |
| 14        | 8.210       | 900           | 905         | 912          | rVB      | 44525          | 74833         | 1.48%           | 0.116%        |
| 15        | 8.528       | 952           | 959         | 972          | rBV      | 810307         | 1325669       | 26.29%          | 2.062%        |
| 16        | 9.016       | 1037          | 1042        | 1050         | rVB2     | 35660          | 54013         | 1.07%           | 0.084%        |
| 17        | 9.245       | 1074          | 1081        | 1092         | rBV      | 666193         | 1122220       | 22.25%          | 1.746%        |
| 18        | 9.780       | 1165          | 1172        | 1187         | rBV      | 1067320        | 1853083       | 36.74%          | 2.883%        |
| 19        | 10.145      | 1227          | 1234        | 1245         | rBV      | 1431186        | 2349801       | 46.59%          | 3.655%        |
| 20        | 10.286      | 1251          | 1258        | 1277         | rBV      | 619524         | 1259222       | 24.97%          | 1.959%        |
| 21        | 11.698      | 1492          | 1498        | 1505         | rBV      | 104278         | 206301        | 4.09%           | 0.321%        |
| 22        | 12.963      | 1708          | 1713        | 1719         | rBV5     | 13553          | 24179         | 0.48%           | 0.038%        |
| 23        | 13.368      | 1775          | 1782        | 1787         | rBV6     | 9413           | 19428         | 0.39%           | 0.030%        |
| 24        | 13.463      | 1792          | 1798        | 1803         | rVV      | 1736835        | 2466137       | 48.90%          | 3.836%        |
| 25        | 13.510      | 1803          | 1806        | 1817         | rVB      | 255771         | 355967        | 7.06%           | 0.554%        |
| 26        | 13.727      | 1836          | 1843        | 1853         | rBV      | 2105457        | 3170877       | 62.87%          | 4.932%        |
| 27        | 13.886      | 1859          | 1870        | 1879         | rBV3     | 29770          | 77121         | 1.53%           | 0.120%        |
| 28        | 13.998      | 1883          | 1889        | 1890         | rVV5     | 6875           | 12550         | 0.25%           | 0.020%        |
| 29        | 14.039      | 1890          | 1896        | 1904         | rVV      | 2155687        | 3071109       | 60.89%          | 4.777%        |
| 30        | 14.098      | 1904          | 1906        | 1912         | rVB4     | 11574          | 16346         | 0.32%           | 0.025%        |
| 31        | 14.268      | 1928          | 1935        | 1948         | rBV      | 396834         | 794350        | 15.75%          | 1.236%        |
| 32        | 14.457      | 1960          | 1967        | 1968         | rBV7     | 9417           | 19306         | 0.38%           | 0.030%        |
| 33        | 14.486      | 1968          | 1972        | 1978         | rVV2     | 43529          | 71772         | 1.42%           | 0.112%        |
| 34        | 14.533      | 1978          | 1980        | 1986         | rVB5     | 11459          | 13260         | 0.26%           | 0.021%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.674 | 1999 | 2004 | 2010 | rBV8 | 8808    | 16128   | 0.32%  | 0.025% |
| 36 | 15.045 | 2060 | 2067 | 2073 | rBV  | 2807365 | 3840777 | 76.16% | 5.975% |
| 37 | 15.098 | 2073 | 2076 | 2080 | rVV4 | 26002   | 41905   | 0.83%  | 0.065% |
| 38 | 15.174 | 2083 | 2089 | 2101 | rVV  | 572463  | 883375  | 17.52% | 1.374% |
| 39 | 15.286 | 2104 | 2108 | 2112 | rVB2 | 32049   | 42973   | 0.85%  | 0.067% |
| 40 | 15.398 | 2123 | 2127 | 2131 | rBV4 | 12295   | 15294   | 0.30%  | 0.024% |
| 41 | 15.551 | 2148 | 2153 | 2161 | rVB5 | 10617   | 23251   | 0.46%  | 0.036% |
| 42 | 15.621 | 2161 | 2165 | 2172 | rBV8 | 5391    | 11635   | 0.23%  | 0.018% |
| 43 | 15.780 | 2187 | 2192 | 2195 | rBV5 | 7010    | 12310   | 0.24%  | 0.019% |
| 44 | 15.827 | 2195 | 2200 | 2207 | rVB7 | 12741   | 24465   | 0.49%  | 0.038% |
| 45 | 16.115 | 2243 | 2249 | 2253 | rVV6 | 13402   | 28593   | 0.57%  | 0.044% |
| 46 | 16.162 | 2253 | 2257 | 2262 | rVB4 | 10163   | 17282   | 0.34%  | 0.027% |
| 47 | 16.362 | 2285 | 2291 | 2298 | rBV6 | 16847   | 43598   | 0.86%  | 0.068% |
| 48 | 16.539 | 2317 | 2321 | 2327 | rBV4 | 11423   | 23161   | 0.46%  | 0.036% |
| 49 | 16.580 | 2327 | 2328 | 2331 | rVV3 | 10448   | 13752   | 0.27%  | 0.021% |
| 50 | 16.615 | 2331 | 2334 | 2338 | rVV  | 23925   | 31073   | 0.62%  | 0.048% |
| 51 | 16.792 | 2358 | 2364 | 2369 | rBV  | 2468889 | 3522003 | 69.83% | 5.479% |
| 52 | 16.833 | 2369 | 2371 | 2376 | rVV  | 346101  | 442634  | 8.78%  | 0.689% |
| 53 | 16.892 | 2376 | 2381 | 2395 | rVB  | 2757184 | 3881153 | 76.96% | 6.037% |
| 54 | 17.015 | 2395 | 2402 | 2406 | rBV6 | 15596   | 36847   | 0.73%  | 0.057% |
| 55 | 17.168 | 2423 | 2428 | 2430 | rBV5 | 7963    | 11924   | 0.24%  | 0.019% |
| 56 | 17.215 | 2432 | 2436 | 2441 | rBV7 | 10745   | 18748   | 0.37%  | 0.029% |
| 57 | 17.380 | 2460 | 2464 | 2469 | rVB3 | 20277   | 24557   | 0.49%  | 0.038% |
| 58 | 17.498 | 2478 | 2484 | 2485 | rBV4 | 8163    | 12319   | 0.24%  | 0.019% |
| 59 | 17.521 | 2485 | 2488 | 2493 | rVB2 | 15498   | 23332   | 0.46%  | 0.036% |
| 60 | 17.674 | 2509 | 2514 | 2518 | rBV  | 91053   | 126394  | 2.51%  | 0.197% |
| 61 | 17.733 | 2518 | 2524 | 2532 | rVV2 | 195206  | 380779  | 7.55%  | 0.592% |
| 62 | 17.803 | 2532 | 2536 | 2541 | rVV  | 48831   | 85711   | 1.70%  | 0.133% |
| 63 | 17.862 | 2541 | 2546 | 2550 | rVV  | 133454  | 228106  | 4.52%  | 0.355% |
| 64 | 17.903 | 2550 | 2553 | 2563 | rVB2 | 68576   | 108171  | 2.14%  | 0.168% |
| 65 | 18.027 | 2570 | 2574 | 2579 | rVV6 | 28264   | 41237   | 0.82%  | 0.064% |
| 66 | 18.186 | 2596 | 2601 | 2605 | rVV  | 57127   | 91422   | 1.81%  | 0.142% |
| 67 | 18.221 | 2605 | 2607 | 2614 | rVB4 | 22342   | 35776   | 0.71%  | 0.056% |
| 68 | 18.403 | 2635 | 2638 | 2640 | rBV3 | 10303   | 11304   | 0.22%  | 0.018% |
| 69 | 18.439 | 2640 | 2644 | 2648 | rVB3 | 25295   | 34313   | 0.68%  | 0.053% |
| 70 | 18.486 | 2648 | 2652 | 2655 | rBV  | 34286   | 45754   | 0.91%  | 0.071% |
| 71 | 18.521 | 2655 | 2658 | 2662 | rVB3 | 25243   | 34862   | 0.69%  | 0.054% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 18.609 | 2668 | 2673 | 2677 | rBV  | 86472   | 135325  | 2.68%   | 0.211% |
| 73  | 18.668 | 2677 | 2683 | 2686 | rBV4 | 38276   | 69667   | 1.38%   | 0.108% |
| 74  | 18.698 | 2686 | 2688 | 2692 | rVB3 | 29100   | 33118   | 0.66%   | 0.052% |
| 75  | 18.745 | 2692 | 2696 | 2698 | rBV3 | 43627   | 68022   | 1.35%   | 0.106% |
| 76  | 18.862 | 2709 | 2716 | 2725 | rVB  | 825621  | 1181485 | 23.43%  | 1.838% |
| 77  | 19.033 | 2740 | 2745 | 2749 | rBV7 | 37955   | 72501   | 1.44%   | 0.113% |
| 78  | 19.086 | 2751 | 2754 | 2756 | rBV2 | 23411   | 27296   | 0.54%   | 0.042% |
| 79  | 19.203 | 2768 | 2774 | 2777 | rBV  | 3564004 | 5043356 | 100.00% | 7.845% |
| 80  | 19.309 | 2789 | 2792 | 2801 | rVB4 | 39857   | 82128   | 1.63%   | 0.128% |
| 81  | 19.415 | 2806 | 2810 | 2818 | rVV2 | 42376   | 69242   | 1.37%   | 0.108% |
| 82  | 19.486 | 2818 | 2822 | 2827 | rVB7 | 17495   | 38076   | 0.75%   | 0.059% |
| 83  | 19.574 | 2831 | 2837 | 2841 | rBV4 | 58734   | 127108  | 2.52%   | 0.198% |
| 84  | 19.656 | 2848 | 2851 | 2854 | rBV4 | 17669   | 28150   | 0.56%   | 0.044% |
| 85  | 19.703 | 2855 | 2859 | 2861 | rBV2 | 61436   | 89227   | 1.77%   | 0.139% |
| 86  | 19.739 | 2861 | 2865 | 2868 | rVB  | 125378  | 171708  | 3.40%   | 0.267% |
| 87  | 19.839 | 2878 | 2882 | 2886 | rBV2 | 99988   | 118206  | 2.34%   | 0.184% |
| 88  | 19.892 | 2887 | 2891 | 2896 | rVV  | 97028   | 139911  | 2.77%   | 0.218% |
| 89  | 20.033 | 2912 | 2915 | 2920 | rVB2 | 55977   | 76215   | 1.51%   | 0.119% |
| 90  | 20.080 | 2920 | 2923 | 2928 | rBV3 | 66637   | 95454   | 1.89%   | 0.148% |
| 91  | 20.692 | 3025 | 3027 | 3030 | rVB  | 51296   | 52356   | 1.04%   | 0.081% |
| 92  | 20.768 | 3036 | 3040 | 3046 | rBV3 | 538927  | 663257  | 13.15%  | 1.032% |
| 93  | 21.009 | 3074 | 3081 | 3085 | rBV2 | 3286487 | 4765804 | 94.50%  | 7.413% |
| 94  | 21.044 | 3085 | 3087 | 3096 | rVB  | 435984  | 512667  | 10.17%  | 0.797% |
| 95  | 21.633 | 3184 | 3187 | 3192 | rBV3 | 152176  | 225471  | 4.47%   | 0.351% |
| 96  | 22.491 | 3329 | 3333 | 3337 | rBV  | 330062  | 635008  | 12.59%  | 0.988% |
| 97  | 22.533 | 3338 | 3340 | 3345 | rVB2 | 376607  | 507905  | 10.07%  | 0.790% |
| 98  | 22.974 | 3410 | 3415 | 3420 | rBV  | 2626034 | 4200023 | 83.28%  | 6.533% |
| 99  | 23.062 | 3427 | 3430 | 3432 | rBV  | 162356  | 228904  | 4.54%   | 0.356% |
| 100 | 23.103 | 3432 | 3437 | 3453 | rVB  | 2444568 | 4366293 | 86.58%  | 6.792% |

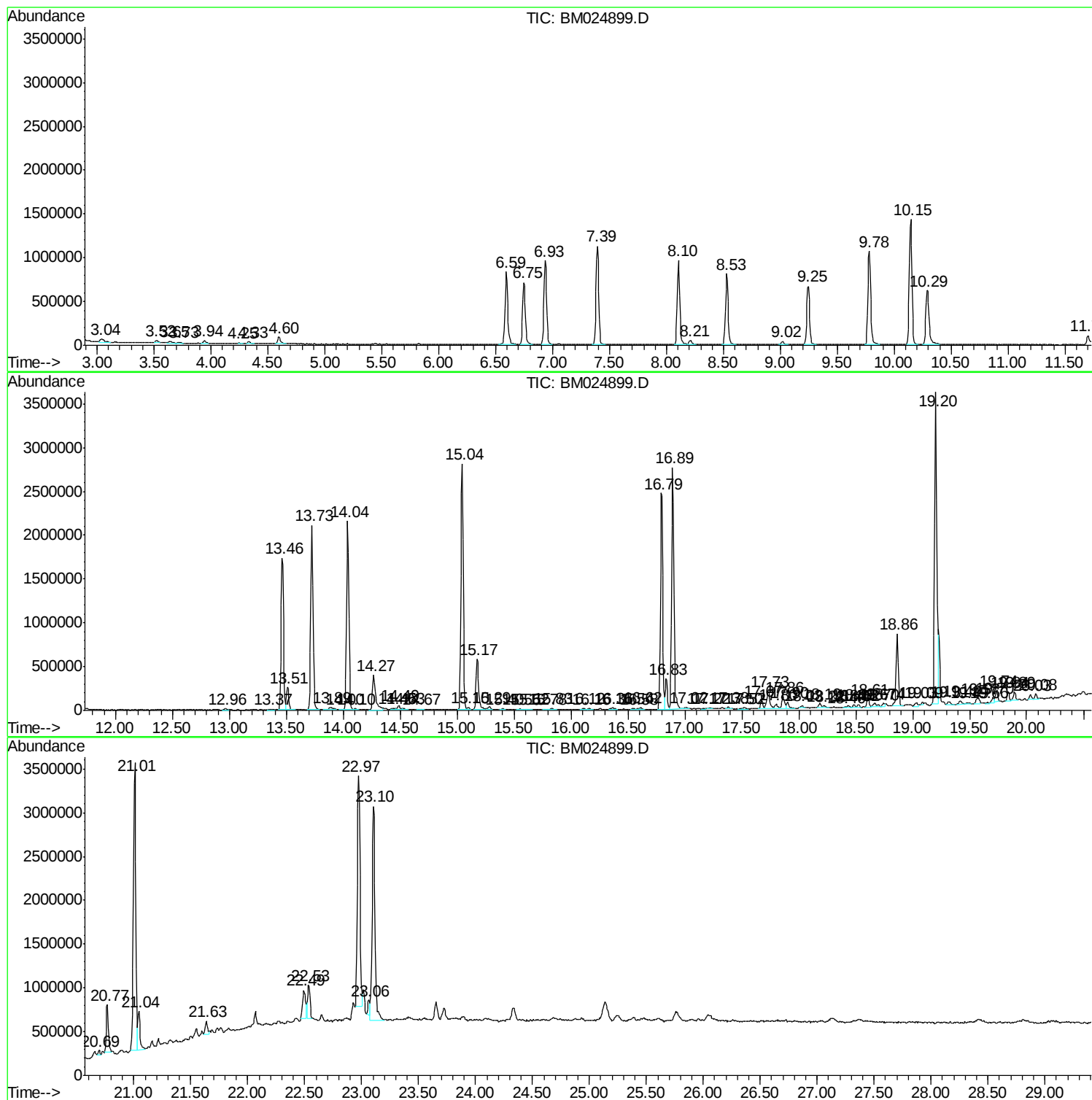
Sum of corrected areas: 64285816

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
Quant Title : SVOA CALIBRATION

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



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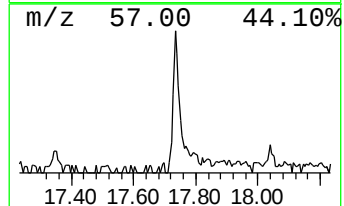
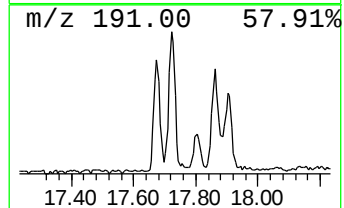
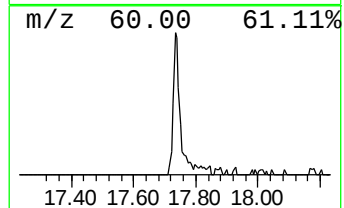
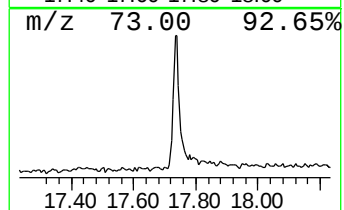
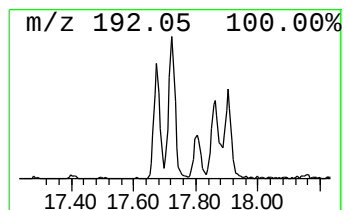
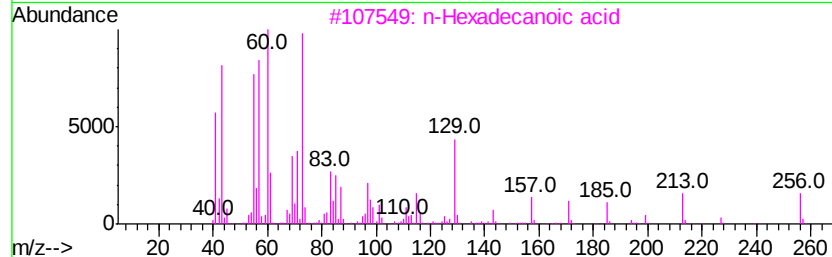
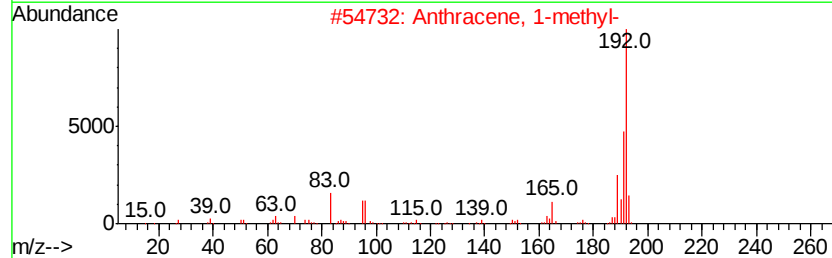
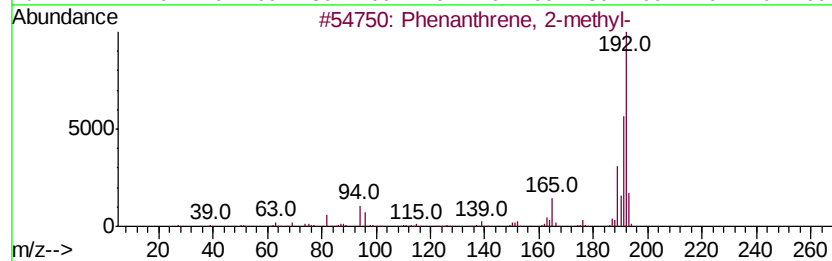
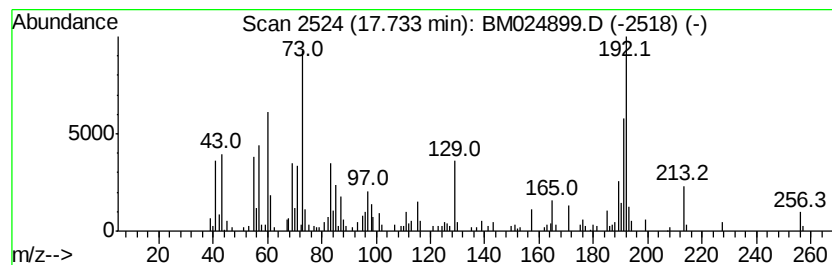
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 2

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 17.73     | 2.16 ng/ul              | 380779 | Phenanthrene-d10 | 16.79       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 50   |
| 2         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 49   |
| 3         | n-Hexadecanoic acid     | 256    | C16H32O2         | 000057-10-3 | 49   |
| 4         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 46   |
| 5         | Propyne, 1,3-diphenyl-  | 192    | C15H12           | 004980-70-5 | 42   |



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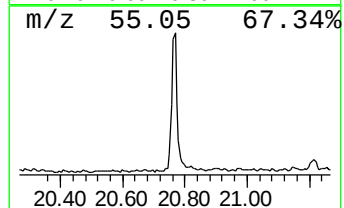
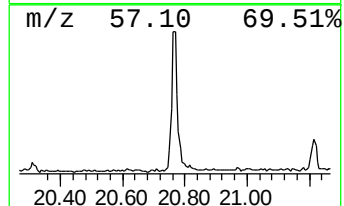
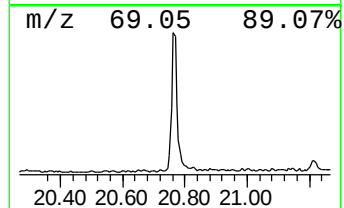
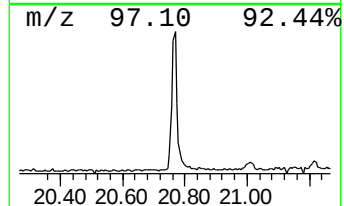
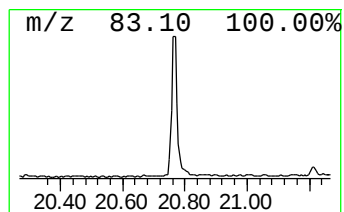
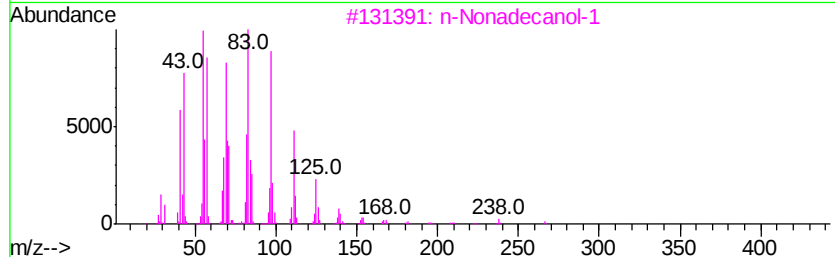
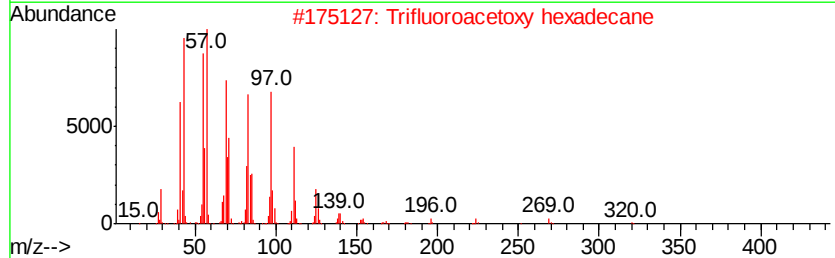
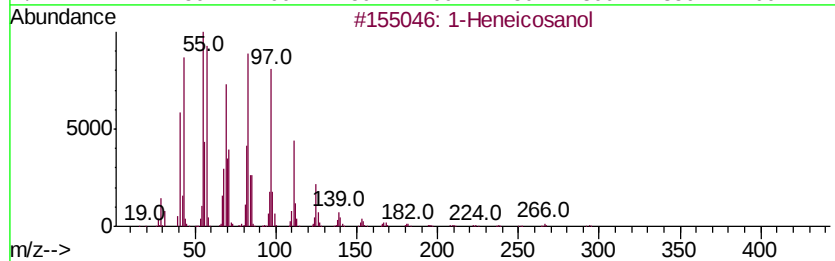
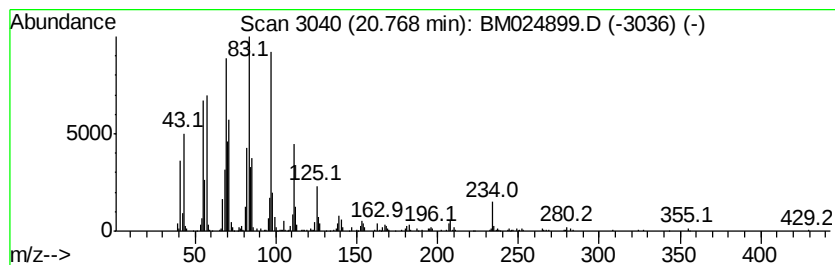
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\*\*\*\*\*  
Peak Number 2 1-Heneicosanol Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD            |     | R.T.       |             |      |
|-------|------------|--------|-----------------------------|-----|------------|-------------|------|
| 20.77 | 2.78 ng/ul | 663257 | Chrysene-d12                |     | 21.01      |             |      |
| Hit#  | of         | 5      | Tentative ID                | MW  | MolForm    | CAS#        | Qual |
| 1     |            |        | 1-Heneicosanol              | 312 | C21H44O    | 015594-90-8 | 94   |
| 2     |            |        | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 91   |
| 3     |            |        | n-Nonadecanol-1             | 284 | C19H40O    | 001454-84-8 | 91   |
| 4     |            |        | 1-Heneicosyl formate        | 340 | C22H44O2   | 077899-03-7 | 83   |
| 5     |            |        | Cyclotetracosane            | 336 | C24H48     | 000297-03-0 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM021320\  
Data File : BM024899.D  
Acq On : 14 Feb 2020 18:57  
Operator : CG/JU  
Sample : L1422-20  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C5AX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.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 |
| Phenanthrene, 2-m... | 17.73 | 2.2     | ng/ul | 380779   | 4                     | 16.79 | 3522000 | 20.0 |
| 1-Heneicosanol       | 20.77 | 2.8     | ng/ul | 663257   | 5                     | 21.01 | 4765800 | 20.0 |