

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
 Data File : BM024893.D  
 Acq On : 14 Feb 2020 15:21  
 Operator : CG/JU  
 Sample : L1422-15  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C5AY2

## 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         | 3.034       | 22            | 25          | 35           | rVB3     | 36338          | 85706         | 1.86%           | 0.145%        |
| 2         | 3.640       | 124           | 128         | 136          | rVB4     | 20729          | 43540         | 0.94%           | 0.074%        |
| 3         | 3.711       | 138           | 140         | 141          | rBV2     | 7478           | 5723          | 0.12%           | 0.010%        |
| 4         | 3.940       | 174           | 179         | 188          | rVB2     | 27100          | 60100         | 1.30%           | 0.102%        |
| 5         | 4.328       | 242           | 245         | 250          | rVB2     | 12999          | 17650         | 0.38%           | 0.030%        |
| 6         | 4.599       | 285           | 291         | 304          | rVB      | 70085          | 146107        | 3.16%           | 0.247%        |
| 7         | 5.822       | 497           | 499         | 505          | rVB4     | 5661           | 8075          | 0.17%           | 0.014%        |
| 8         | 6.128       | 545           | 551         | 552          | rBV3     | 4769           | 7501          | 0.16%           | 0.013%        |
| 9         | 6.252       | 568           | 572         | 575          | rBV6     | 3598           | 5103          | 0.11%           | 0.009%        |
| 10        | 6.593       | 620           | 630         | 643          | rBV      | 743227         | 1286225       | 27.84%          | 2.173%        |
| 11        | 6.746       | 650           | 656         | 666          | rBV      | 658419         | 1062710       | 23.00%          | 1.795%        |
| 12        | 6.934       | 681           | 688         | 696          | rBV      | 867717         | 1409841       | 30.52%          | 2.382%        |
| 13        | 7.046       | 705           | 707         | 712          | rVB5     | 8356           | 11400         | 0.25%           | 0.019%        |
| 14        | 7.393       | 759           | 766         | 778          | rBV      | 1263628        | 1985362       | 42.97%          | 3.354%        |
| 15        | 7.481       | 778           | 781         | 786          | rVB6     | 8190           | 14503         | 0.31%           | 0.025%        |
| 16        | 8.105       | 881           | 887         | 901          | rBV      | 974606         | 1546967       | 33.48%          | 2.613%        |
| 17        | 8.210       | 901           | 905         | 914          | rVB      | 28556          | 50495         | 1.09%           | 0.085%        |
| 18        | 8.528       | 951           | 959         | 971          | rBV      | 740843         | 1229678       | 26.62%          | 2.077%        |
| 19        | 8.716       | 990           | 991         | 995          | rBV4     | 4123           | 4683          | 0.10%           | 0.008%        |
| 20        | 9.022       | 1036          | 1043        | 1050         | rVB      | 37715          | 57686         | 1.25%           | 0.097%        |
| 21        | 9.246       | 1074          | 1081        | 1091         | rBV      | 622266         | 1038637       | 22.48%          | 1.755%        |
| 22        | 9.328       | 1093          | 1095        | 1101         | rVB6     | 4732           | 6692          | 0.14%           | 0.011%        |
| 23        | 9.781       | 1165          | 1172        | 1187         | rBV      | 977980         | 1722438       | 37.28%          | 2.910%        |
| 24        | 10.146      | 1226          | 1234        | 1247         | rBV      | 1560603        | 2545805       | 55.10%          | 4.301%        |
| 25        | 10.287      | 1252          | 1258        | 1271         | rBV      | 730803         | 1396919       | 30.24%          | 2.360%        |
| 26        | 10.987      | 1369          | 1377        | 1380         | rBV5     | 3767           | 6924          | 0.15%           | 0.012%        |
| 27        | 11.751      | 1501          | 1507        | 1516         | rVB5     | 13633          | 22905         | 0.50%           | 0.039%        |
| 28        | 12.398      | 1609          | 1617        | 1621         | rVB7     | 3281           | 5990          | 0.13%           | 0.010%        |
| 29        | 12.892      | 1698          | 1701        | 1705         | rBV3     | 4338           | 6086          | 0.13%           | 0.010%        |
| 30        | 12.963      | 1710          | 1713        | 1717         | rBV4     | 10608          | 14421         | 0.31%           | 0.024%        |
| 31        | 13.463      | 1792          | 1798        | 1803         | rBV      | 1644810        | 2349068       | 50.85%          | 3.968%        |
| 32        | 13.510      | 1803          | 1806        | 1815         | rVB      | 214869         | 306166        | 6.63%           | 0.517%        |
| 33        | 13.728      | 1836          | 1843        | 1855         | rBV      | 2027775        | 2982488       | 64.56%          | 5.039%        |
| 34        | 13.887      | 1863          | 1870        | 1876         | rBV4     | 31534          | 66112         | 1.43%           | 0.112%        |

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.039 | 1890 | 1896 | 1905 | rVV  | 2310150 | 3337966 | 72.25% | 5.639% |
| 36 | 14.134 | 1909 | 1912 | 1916 | rVB4 | 5181    | 6068    | 0.13%  | 0.010% |
| 37 | 14.269 | 1929 | 1935 | 1947 | rBV  | 412897  | 789077  | 17.08% | 1.333% |
| 38 | 14.386 | 1953 | 1955 | 1958 | rVB3 | 5803    | 5705    | 0.12%  | 0.010% |
| 39 | 14.445 | 1962 | 1965 | 1968 | rBV4 | 4988    | 6445    | 0.14%  | 0.011% |
| 40 | 14.492 | 1968 | 1973 | 1980 | rVB9 | 16214   | 29443   | 0.64%  | 0.050% |
| 41 | 14.686 | 2001 | 2006 | 2010 | rBV6 | 3585    | 6887    | 0.15%  | 0.012% |
| 42 | 14.892 | 2036 | 2041 | 2047 | rBV5 | 7684    | 13508   | 0.29%  | 0.023% |
| 43 | 14.951 | 2047 | 2051 | 2055 | rBV5 | 6200    | 7781    | 0.17%  | 0.013% |
| 44 | 15.045 | 2059 | 2067 | 2075 | rBV  | 2638019 | 3636349 | 78.71% | 6.143% |
| 45 | 15.181 | 2084 | 2090 | 2104 | rBV  | 574236  | 889049  | 19.24% | 1.502% |
| 46 | 15.286 | 2104 | 2108 | 2114 | rVB2 | 29051   | 43018   | 0.93%  | 0.073% |
| 47 | 15.504 | 2139 | 2145 | 2149 | rBV6 | 2580    | 5639    | 0.12%  | 0.010% |
| 48 | 15.769 | 2185 | 2190 | 2196 | rBV3 | 9840    | 20138   | 0.44%  | 0.034% |
| 49 | 15.839 | 2196 | 2202 | 2205 | rVV6 | 11399   | 19588   | 0.42%  | 0.033% |
| 50 | 15.916 | 2211 | 2215 | 2218 | rBV3 | 3107    | 5944    | 0.13%  | 0.010% |
| 51 | 15.986 | 2224 | 2227 | 2230 | rVB3 | 4696    | 7298    | 0.16%  | 0.012% |
| 52 | 16.486 | 2308 | 2312 | 2315 | rVB5 | 4889    | 7990    | 0.17%  | 0.013% |
| 53 | 16.580 | 2323 | 2328 | 2331 | rBV3 | 11718   | 16966   | 0.37%  | 0.029% |
| 54 | 16.616 | 2331 | 2334 | 2339 | rVV6 | 8355    | 12159   | 0.26%  | 0.021% |
| 55 | 16.692 | 2343 | 2347 | 2349 | rVB4 | 6436    | 9266    | 0.20%  | 0.016% |
| 56 | 16.798 | 2358 | 2365 | 2370 | rBV  | 2740603 | 3802506 | 82.30% | 6.424% |
| 57 | 16.892 | 2376 | 2381 | 2391 | rBV  | 2540447 | 3606772 | 78.07% | 6.093% |
| 58 | 17.016 | 2399 | 2402 | 2406 | rBV6 | 6159    | 7870    | 0.17%  | 0.013% |
| 59 | 17.127 | 2417 | 2421 | 2422 | rBV4 | 3814    | 5206    | 0.11%  | 0.009% |
| 60 | 17.227 | 2433 | 2438 | 2444 | rBV6 | 12114   | 19354   | 0.42%  | 0.033% |
| 61 | 17.351 | 2456 | 2459 | 2462 | rVB3 | 5933    | 7474    | 0.16%  | 0.013% |
| 62 | 17.463 | 2475 | 2478 | 2480 | rBV3 | 7618    | 9182    | 0.20%  | 0.016% |
| 63 | 17.527 | 2486 | 2489 | 2490 | rVB2 | 4898    | 4670    | 0.10%  | 0.008% |
| 64 | 17.674 | 2511 | 2514 | 2517 | rBV5 | 6145    | 7328    | 0.16%  | 0.012% |
| 65 | 17.739 | 2519 | 2525 | 2533 | rBV2 | 172356  | 277800  | 6.01%  | 0.469% |
| 66 | 17.798 | 2533 | 2535 | 2538 | rVV3 | 16026   | 19041   | 0.41%  | 0.032% |
| 67 | 17.869 | 2542 | 2547 | 2550 | rVV6 | 8455    | 15644   | 0.34%  | 0.026% |
| 68 | 18.027 | 2569 | 2574 | 2581 | rBV9 | 20038   | 41884   | 0.91%  | 0.071% |
| 69 | 18.174 | 2596 | 2599 | 2604 | rVB7 | 7989    | 12360   | 0.27%  | 0.021% |
| 70 | 18.292 | 2615 | 2619 | 2622 | rBV5 | 5148    | 6938    | 0.15%  | 0.012% |
| 71 | 18.610 | 2669 | 2673 | 2679 | rVB8 | 20247   | 27302   | 0.59%  | 0.046% |

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|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 18.686 | 2679 | 2686 | 2690 | rBV7 | 28850   | 43470   | 0.94%   | 0.073% |
| 73 | 18.751 | 2694 | 2697 | 2698 | rBV2 | 6729    | 7330    | 0.16%   | 0.012% |
| 74 | 18.774 | 2698 | 2701 | 2704 | rVB5 | 6645    | 7577    | 0.16%   | 0.013% |
| 75 | 18.839 | 2708 | 2712 | 2714 | rVV  | 24342   | 35322   | 0.76%   | 0.060% |
| 76 | 18.869 | 2714 | 2717 | 2722 | rVB  | 69956   | 89276   | 1.93%   | 0.151% |
| 77 | 18.974 | 2733 | 2735 | 2736 | rBV2 | 5302    | 4760    | 0.10%   | 0.008% |
| 78 | 19.033 | 2742 | 2745 | 2751 | rBV4 | 54118   | 87695   | 1.90%   | 0.148% |
| 79 | 19.086 | 2751 | 2754 | 2761 | rVB2 | 28411   | 46568   | 1.01%   | 0.079% |
| 80 | 19.204 | 2767 | 2774 | 2783 | rBV  | 3276155 | 4620053 | 100.00% | 7.805% |
| 81 | 19.274 | 2783 | 2786 | 2789 | rVB4 | 17091   | 19318   | 0.42%   | 0.033% |
| 82 | 19.774 | 2868 | 2871 | 2873 | rBV3 | 17580   | 17427   | 0.38%   | 0.029% |
| 83 | 19.816 | 2874 | 2878 | 2881 | rBV2 | 75518   | 79954   | 1.73%   | 0.135% |
| 84 | 20.768 | 3036 | 3040 | 3046 | rBV2 | 511418  | 706793  | 15.30%  | 1.194% |
| 85 | 21.010 | 3076 | 3081 | 3090 | rBV  | 3467910 | 4291308 | 92.88%  | 7.250% |
| 86 | 21.215 | 3113 | 3116 | 3119 | rBV2 | 110472  | 117643  | 2.55%   | 0.199% |
| 87 | 21.639 | 3184 | 3188 | 3196 | rBV  | 500023  | 705201  | 15.26%  | 1.191% |
| 88 | 22.068 | 3258 | 3261 | 3265 | rBV  | 195295  | 224699  | 4.86%   | 0.380% |
| 89 | 22.539 | 3338 | 3341 | 3345 | rBV2 | 239623  | 302264  | 6.54%   | 0.511% |
| 90 | 22.974 | 3409 | 3415 | 3425 | rVB  | 2622021 | 4441654 | 96.14%  | 7.504% |
| 91 | 23.062 | 3427 | 3430 | 3432 | rVV2 | 243800  | 335260  | 7.26%   | 0.566% |
| 92 | 23.104 | 3432 | 3437 | 3451 | rVB  | 2497662 | 4389612 | 95.01%  | 7.416% |
| 93 | 23.656 | 3527 | 3531 | 3537 | rVB  | 225713  | 362464  | 7.85%   | 0.612% |

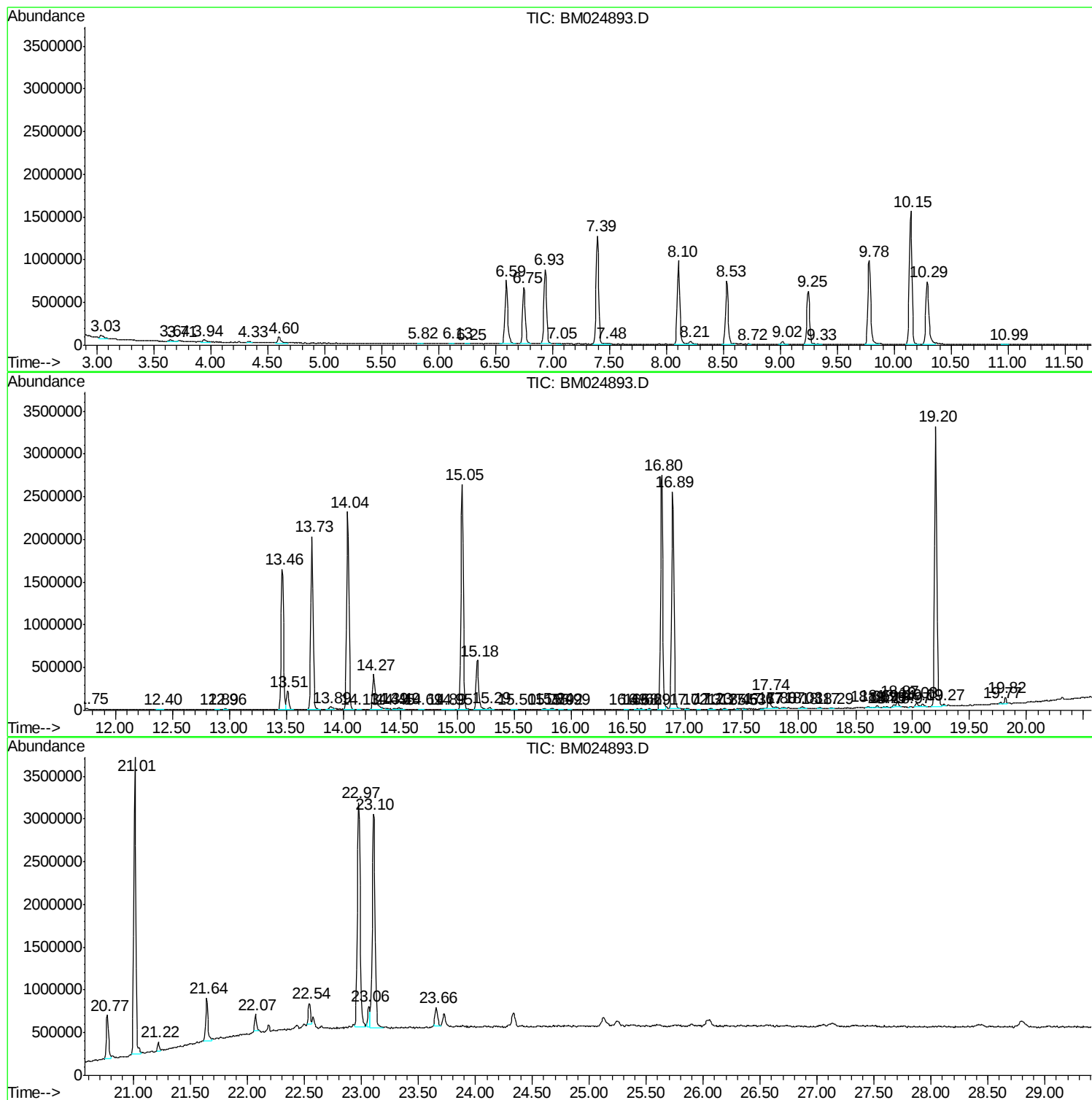
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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
Quant Title : SVOA CALIBRATION

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



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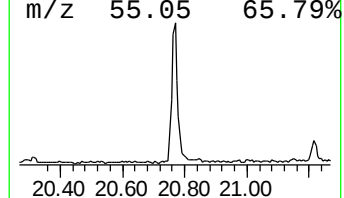
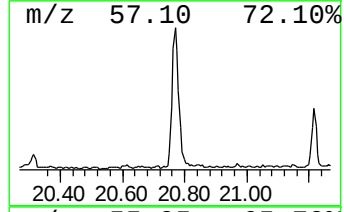
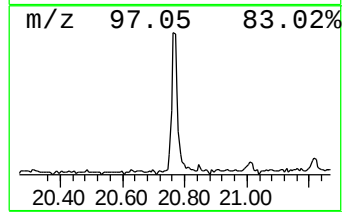
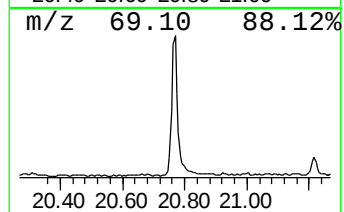
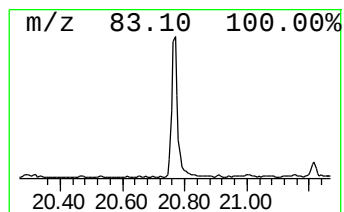
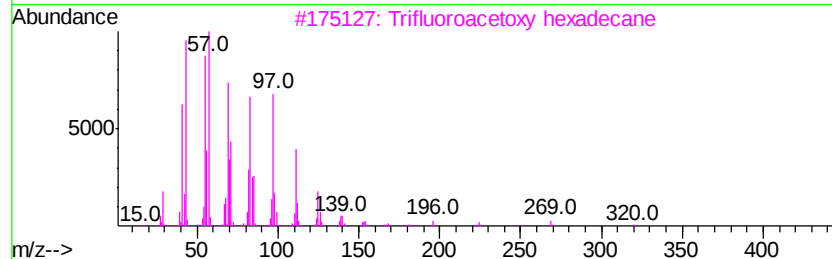
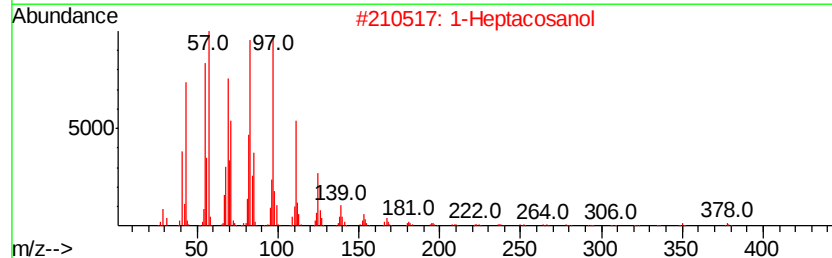
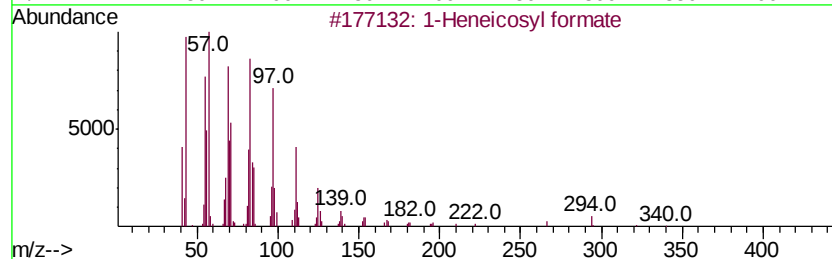
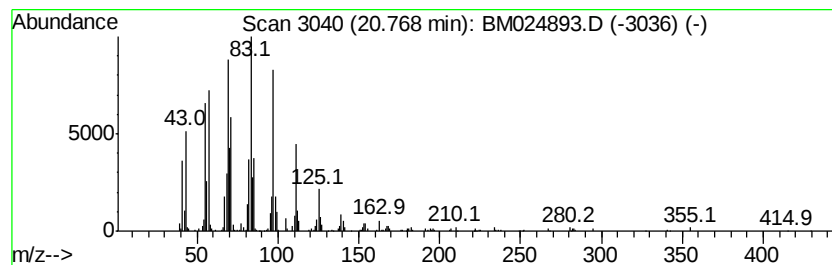
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 1-Heneicosyl formate Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.77 | 3.29 ng/ul | 706793 | Chrysene-d12     | 21.01 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 1-Heneicosyl formate                | 340 | C22H44O2    | 077899-03-7 | 94   |
| 2    |    | 1-Heptacosanol                      | 396 | C27H56O     | 002004-39-9 | 93   |
| 3    |    | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2  | 006222-03-3 | 91   |
| 4    |    | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91   |
| 5    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91   |



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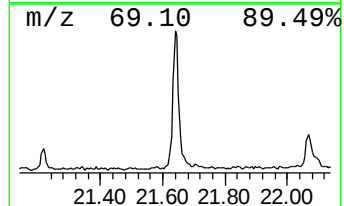
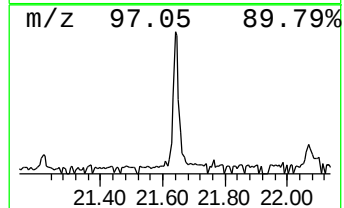
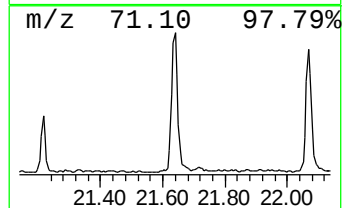
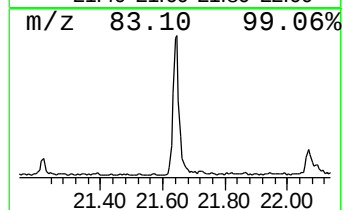
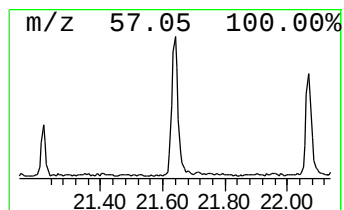
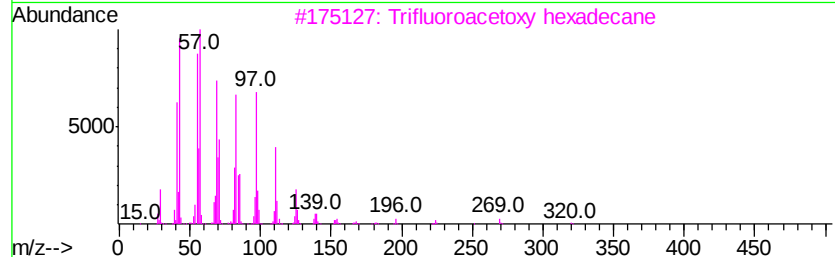
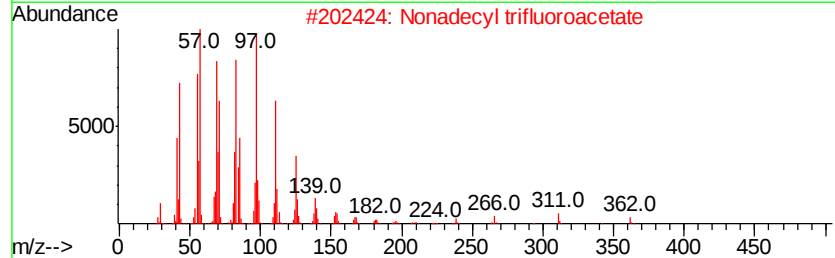
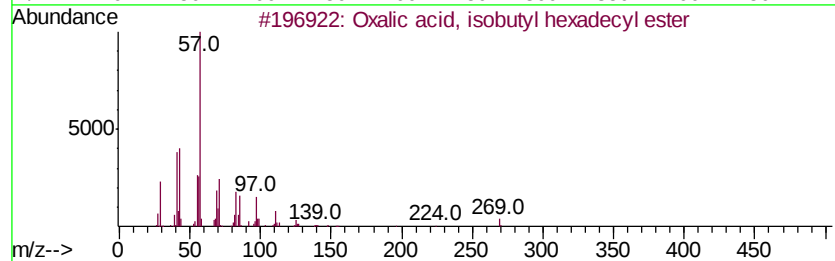
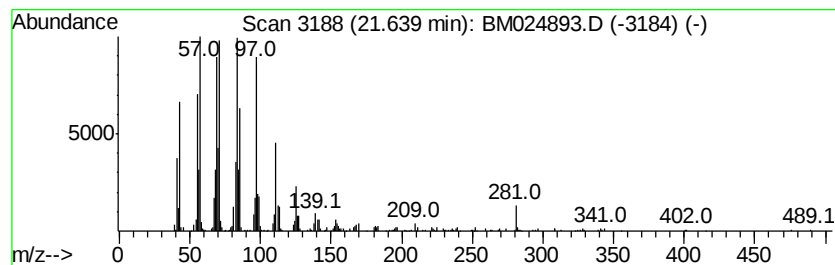
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Oxalic acid, isobutyl hexad... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.64 | 3.29 ng/ul | 705201 | Chrysene-d12     | 21.01 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4   | 1000309-38-1 | 91   |
| 2    |    | Nonadecyl trifluoroacetate          | 380 | C21H39F3O2 | 1000351-76-3 | 91   |
| 3    |    | Trifluoroacetoxv hexadecane         | 338 | C18H33F3O2 | 006222-03-3  | 87   |
| 4    |    | 1-Docosene                          | 308 | C22H44     | 001599-67-3  | 83   |
| 5    |    | 5-Octadecene, (E)-                  | 252 | C18H36     | 007206-21-5  | 78   |



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

| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |         |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|---------|------|
|                      |       |         |       |          | #                       | RT    | Resp    | Conc |
| 1-Heneicosyl formate | 20.77 | 3.3     | ng/ul | 706793   | 5                       | 21.01 | 4291310 | 20.0 |
| Oxalic acid, isob... | 21.64 | 3.3     | ng/ul | 705201   | 5                       | 21.01 | 4291310 | 20.0 |