

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
 Data File : BM024866.D  
 Acq On : 13 Feb 2020 21:39  
 Operator : CG/JU  
 Sample : L1404-09  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB6N3

## 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         | 3.046       | 22            | 27          | 38           | rVB2     | 44622          | 114981        | 1.31%           | 0.082%        |
| 2         | 3.522       | 104           | 108         | 116          | rVV      | 89535          | 164662        | 1.87%           | 0.118%        |
| 3         | 3.946       | 174           | 180         | 192          | rBV      | 171329         | 344904        | 3.92%           | 0.247%        |
| 4         | 4.334       | 240           | 246         | 254          | rBV      | 151808         | 281157        | 3.19%           | 0.201%        |
| 5         | 6.598       | 620           | 631         | 645          | rBV      | 1024390        | 1769473       | 20.09%          | 1.268%        |
| 6         | 6.751       | 651           | 657         | 671          | rVB      | 986694         | 1563262       | 17.75%          | 1.120%        |
| 7         | 6.940       | 682           | 689         | 702          | rVB      | 1244708        | 2040893       | 23.17%          | 1.463%        |
| 8         | 7.398       | 760           | 767         | 777          | rBV      | 1464950        | 2382049       | 27.04%          | 1.707%        |
| 9         | 8.110       | 880           | 888         | 897          | rBV      | 775365         | 1252225       | 14.22%          | 0.897%        |
| 10        | 8.534       | 953           | 960         | 972          | rBV      | 1098018        | 1792557       | 20.35%          | 1.285%        |
| 11        | 9.022       | 1038          | 1043        | 1050         | rVB2     | 139640         | 200402        | 2.28%           | 0.144%        |
| 12        | 9.245       | 1074          | 1081        | 1090         | rBV      | 946323         | 1552442       | 17.63%          | 1.113%        |
| 13        | 9.781       | 1165          | 1172        | 1187         | rBV      | 1354739        | 2363282       | 26.83%          | 1.694%        |
| 14        | 10.145      | 1227          | 1234        | 1240         | rBV      | 1878086        | 3160392       | 35.88%          | 2.265%        |
| 15        | 10.198      | 1240          | 1243        | 1251         | rVB      | 285138         | 427528        | 4.85%           | 0.306%        |
| 16        | 10.292      | 1251          | 1259        | 1275         | rBV      | 893935         | 1746914       | 19.83%          | 1.252%        |
| 17        | 11.822      | 1514          | 1519        | 1530         | rVB      | 130103         | 218529        | 2.48%           | 0.157%        |
| 18        | 12.045      | 1547          | 1557        | 1565         | rBV      | 93826          | 165369        | 1.88%           | 0.119%        |
| 19        | 13.363      | 1774          | 1781        | 1786         | rVV2     | 78440          | 135005        | 1.53%           | 0.097%        |
| 20        | 13.469      | 1793          | 1799        | 1805         | rVV      | 2553254        | 3479716       | 39.51%          | 2.494%        |
| 21        | 13.727      | 1836          | 1843        | 1859         | rBV      | 3018764        | 4513825       | 51.25%          | 3.235%        |
| 22        | 14.045      | 1891          | 1897        | 1903         | rVV      | 2824006        | 4120465       | 46.78%          | 2.953%        |
| 23        | 14.110      | 1903          | 1908        | 1912         | rVV      | 361039         | 529978        | 6.02%           | 0.380%        |
| 24        | 14.268      | 1929          | 1935        | 1947         | rBV      | 721752         | 1316495       | 14.95%          | 0.943%        |
| 25        | 14.451      | 1958          | 1966        | 1973         | rBV      | 248379         | 435842        | 4.95%           | 0.312%        |
| 26        | 15.045      | 2056          | 2067        | 2073         | rBV      | 3826360        | 5461802       | 62.01%          | 3.914%        |
| 27        | 15.104      | 2073          | 2077        | 2085         | rVV      | 403933         | 588184        | 6.68%           | 0.422%        |
| 28        | 15.180      | 2085          | 2090        | 2096         | rVV      | 1010974        | 1431480       | 16.25%          | 1.026%        |
| 29        | 15.268      | 2101          | 2105        | 2112         | rVV4     | 69713          | 163182        | 1.85%           | 0.117%        |
| 30        | 15.404      | 2124          | 2128        | 2132         | rVB      | 88591          | 118887        | 1.35%           | 0.085%        |
| 31        | 15.551      | 2145          | 2153        | 2160         | rBV      | 95302          | 201786        | 2.29%           | 0.145%        |
| 32        | 16.115      | 2237          | 2249        | 2254         | rVV3     | 68263          | 181506        | 2.06%           | 0.130%        |
| 33        | 16.368      | 2285          | 2292        | 2299         | rVV3     | 164535         | 383098        | 4.35%           | 0.275%        |
| 34        | 16.457      | 2303          | 2307        | 2316         | rVV2     | 128126         | 229524        | 2.61%           | 0.164%        |

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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\_M\METHODS\SOM-EPA-BM020620MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 16.545 | 2316 | 2322 | 2327 | rVV3 | 65168   | 142328  | 1.62%  | 0.102% |
| 36 | 16.615 | 2327 | 2334 | 2339 | rVV  | 256902  | 406867  | 4.62%  | 0.292% |
| 37 | 16.798 | 2359 | 2365 | 2369 | rVV  | 3304501 | 4738500 | 53.80% | 3.396% |
| 38 | 16.839 | 2369 | 2372 | 2377 | rVV  | 3716506 | 4996147 | 56.72% | 3.580% |
| 39 | 16.898 | 2377 | 2382 | 2386 | rVV  | 3743709 | 5252950 | 59.64% | 3.764% |
| 40 | 16.933 | 2386 | 2388 | 2395 | rVV  | 659148  | 750838  | 8.52%  | 0.538% |
| 41 | 17.204 | 2430 | 2434 | 2441 | rVV  | 346636  | 588326  | 6.68%  | 0.422% |
| 42 | 17.386 | 2461 | 2465 | 2472 | rVB3 | 75904   | 121172  | 1.38%  | 0.087% |
| 43 | 17.680 | 2509 | 2515 | 2519 | rBV  | 386330  | 580135  | 6.59%  | 0.416% |
| 44 | 17.727 | 2519 | 2523 | 2530 | rVB  | 558574  | 797423  | 9.05%  | 0.571% |
| 45 | 17.804 | 2532 | 2536 | 2541 | rVB  | 145328  | 203816  | 2.31%  | 0.146% |
| 46 | 17.868 | 2541 | 2547 | 2551 | rBV2 | 603142  | 979282  | 11.12% | 0.702% |
| 47 | 17.904 | 2551 | 2553 | 2562 | rVB  | 268452  | 364163  | 4.13%  | 0.261% |
| 48 | 18.027 | 2570 | 2574 | 2580 | rVV4 | 85112   | 176710  | 2.01%  | 0.127% |
| 49 | 18.186 | 2596 | 2601 | 2605 | rVV  | 326574  | 470211  | 5.34%  | 0.337% |
| 50 | 18.221 | 2605 | 2607 | 2614 | rVB4 | 91900   | 131185  | 1.49%  | 0.094% |
| 51 | 18.439 | 2640 | 2644 | 2648 | rVV2 | 100967  | 139976  | 1.59%  | 0.100% |
| 52 | 18.492 | 2649 | 2653 | 2656 | rVV  | 100023  | 149181  | 1.69%  | 0.107% |
| 53 | 18.527 | 2656 | 2659 | 2663 | rVB2 | 90790   | 112318  | 1.28%  | 0.080% |
| 54 | 18.609 | 2668 | 2673 | 2678 | rBV  | 257844  | 419748  | 4.77%  | 0.301% |
| 55 | 18.668 | 2678 | 2683 | 2686 | rBV2 | 114783  | 201406  | 2.29%  | 0.144% |
| 56 | 18.745 | 2692 | 2696 | 2705 | rBV3 | 176602  | 362066  | 4.11%  | 0.259% |
| 57 | 18.868 | 2709 | 2717 | 2724 | rBV  | 4936104 | 6745293 | 76.58% | 4.834% |
| 58 | 19.115 | 2755 | 2759 | 2765 | rVB2 | 133164  | 209836  | 2.38%  | 0.150% |
| 59 | 19.209 | 2769 | 2775 | 2777 | rBV  | 5477912 | 7786672 | 88.40% | 5.580% |
| 60 | 19.233 | 2777 | 2779 | 2784 | rVB  | 3975296 | 4799036 | 54.48% | 3.439% |
| 61 | 19.315 | 2789 | 2793 | 2801 | rVB2 | 182305  | 339176  | 3.85%  | 0.243% |
| 62 | 19.421 | 2807 | 2811 | 2818 | rBV  | 251367  | 340002  | 3.86%  | 0.244% |
| 63 | 19.580 | 2830 | 2838 | 2842 | rBV4 | 282954  | 660828  | 7.50%  | 0.474% |
| 64 | 19.709 | 2855 | 2860 | 2862 | rVV2 | 256892  | 419019  | 4.76%  | 0.300% |
| 65 | 19.745 | 2862 | 2866 | 2872 | rVB  | 635437  | 890885  | 10.11% | 0.638% |
| 66 | 19.845 | 2879 | 2883 | 2887 | rVB2 | 469918  | 549611  | 6.24%  | 0.394% |
| 67 | 19.898 | 2887 | 2892 | 2896 | rBV2 | 467509  | 703403  | 7.99%  | 0.504% |
| 68 | 19.939 | 2897 | 2899 | 2904 | rVB2 | 124803  | 151737  | 1.72%  | 0.109% |
| 69 | 19.986 | 2904 | 2907 | 2912 | rBV2 | 106578  | 138694  | 1.57%  | 0.099% |
| 70 | 20.039 | 2912 | 2916 | 2920 | rBV  | 255840  | 310830  | 3.53%  | 0.223% |
| 71 | 20.086 | 2920 | 2924 | 2929 | rBV2 | 231702  | 362577  | 4.12%  | 0.260% |

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

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 20.492 | 2990 | 2993 | 3000 | rVB  | 306857  | 480551  | 5.46%   | 0.344% |
| 73  | 20.656 | 3016 | 3021 | 3025 | rBV3 | 404042  | 621442  | 7.06%   | 0.445% |
| 74  | 20.697 | 3025 | 3028 | 3031 | rVV  | 393071  | 466345  | 5.29%   | 0.334% |
| 75  | 20.733 | 3031 | 3034 | 3037 | rVV  | 297498  | 371959  | 4.22%   | 0.267% |
| 76  | 20.768 | 3037 | 3040 | 3052 | rVB4 | 772779  | 1443809 | 16.39%  | 1.035% |
| 77  | 21.009 | 3075 | 3081 | 3085 | rBV2 | 4826557 | 8808000 | 100.00% | 6.312% |
| 78  | 21.050 | 3085 | 3088 | 3096 | rVB  | 2473633 | 3111911 | 35.33%  | 2.230% |
| 79  | 21.168 | 3104 | 3108 | 3113 | rBV  | 294018  | 341542  | 3.88%   | 0.245% |
| 80  | 21.221 | 3114 | 3117 | 3123 | rBV3 | 209437  | 295203  | 3.35%   | 0.212% |
| 81  | 21.321 | 3131 | 3134 | 3140 | rBV2 | 232542  | 322309  | 3.66%   | 0.231% |
| 82  | 21.550 | 3171 | 3173 | 3177 | rVB  | 382872  | 431299  | 4.90%   | 0.309% |
| 83  | 21.603 | 3179 | 3182 | 3185 | rVB  | 259845  | 292163  | 3.32%   | 0.209% |
| 84  | 21.639 | 3185 | 3188 | 3192 | rBV3 | 399197  | 576086  | 6.54%   | 0.413% |
| 85  | 21.733 | 3202 | 3204 | 3207 | rBV  | 209023  | 208142  | 2.36%   | 0.149% |
| 86  | 22.074 | 3259 | 3262 | 3267 | rVB  | 312499  | 340862  | 3.87%   | 0.244% |
| 87  | 22.280 | 3295 | 3297 | 3305 | rVB4 | 286950  | 395017  | 4.48%   | 0.283% |
| 88  | 22.497 | 3329 | 3334 | 3339 | rBV  | 2180530 | 4687427 | 53.22%  | 3.359% |
| 89  | 22.539 | 3339 | 3341 | 3345 | rVV2 | 1556857 | 2230393 | 25.32%  | 1.598% |
| 90  | 22.580 | 3345 | 3348 | 3357 | rVV2 | 577582  | 937129  | 10.64%  | 0.672% |
| 91  | 22.656 | 3358 | 3361 | 3366 | rVB  | 375304  | 546293  | 6.20%   | 0.391% |
| 92  | 22.939 | 3404 | 3409 | 3412 | rBV  | 1071976 | 1789822 | 20.32%  | 1.283% |
| 93  | 22.986 | 3412 | 3417 | 3421 | rVV  | 3412638 | 5753422 | 65.32%  | 4.123% |
| 94  | 23.027 | 3421 | 3424 | 3429 | rVB  | 1583159 | 2170929 | 24.65%  | 1.556% |
| 95  | 23.074 | 3429 | 3432 | 3434 | rBV  | 228095  | 289892  | 3.29%   | 0.208% |
| 96  | 23.115 | 3434 | 3439 | 3444 | rVV  | 2727978 | 4191789 | 47.59%  | 3.004% |
| 97  | 23.662 | 3528 | 3532 | 3538 | rVB  | 754177  | 1231232 | 13.98%  | 0.882% |
| 98  | 23.733 | 3540 | 3544 | 3550 | rVB2 | 374008  | 627312  | 7.12%   | 0.450% |
| 99  | 25.156 | 3778 | 3786 | 3796 | rVB2 | 1154648 | 3508669 | 39.84%  | 2.514% |
| 100 | 25.774 | 3887 | 3891 | 3907 | rVB2 | 658762  | 1744325 | 19.80%  | 1.250% |

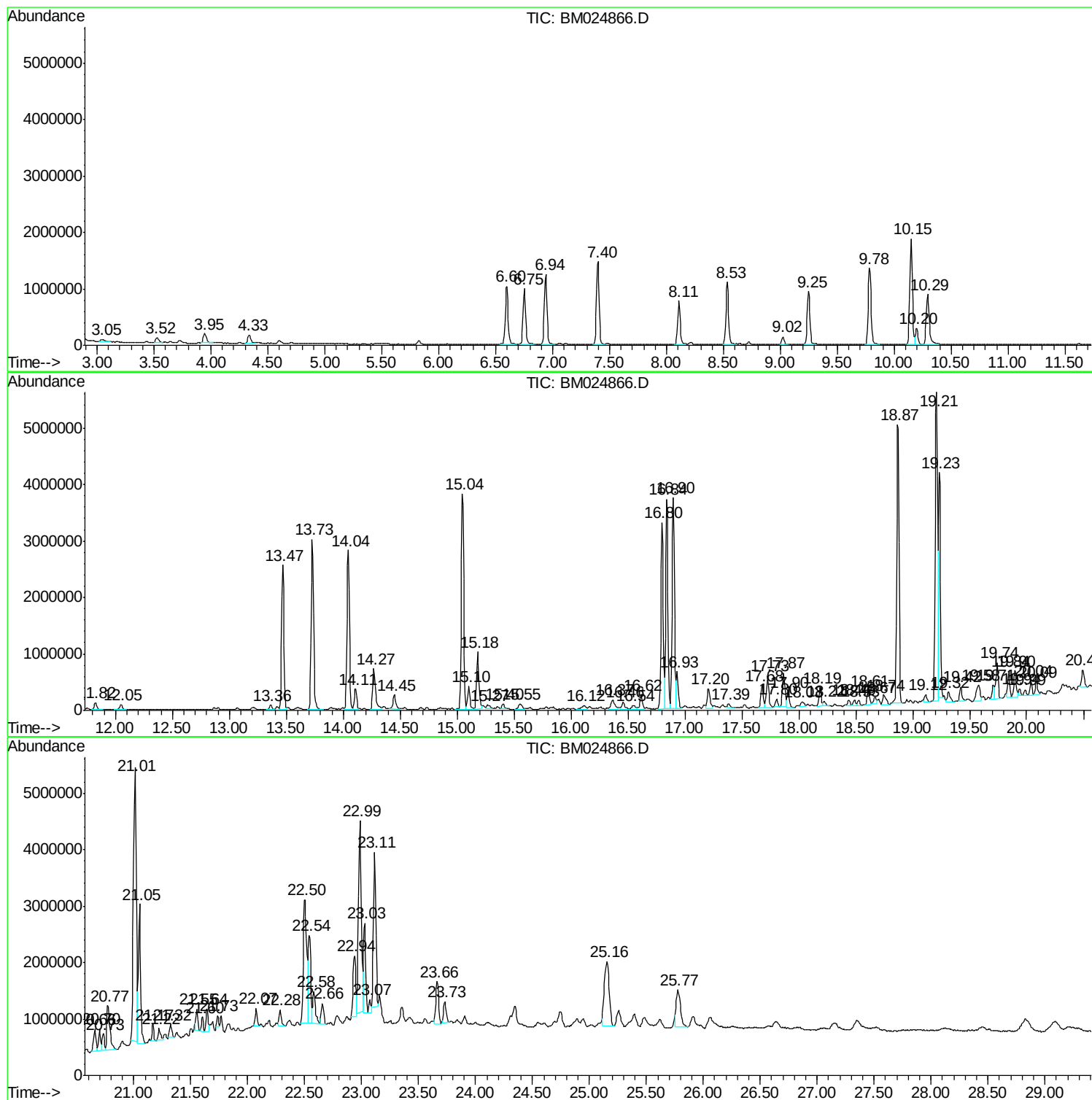
Sum of corrected areas: 139539417

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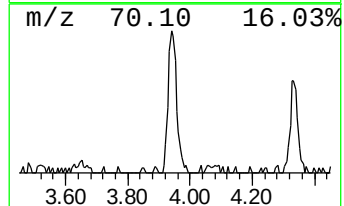
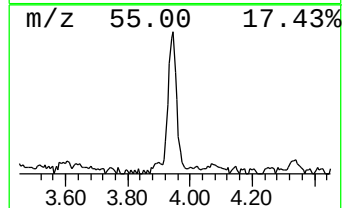
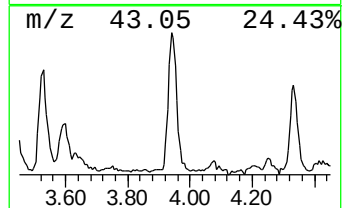
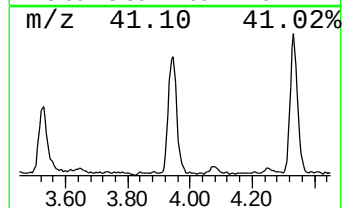
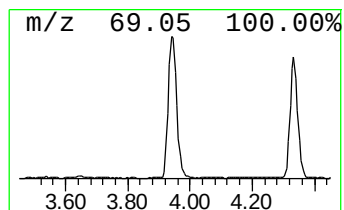
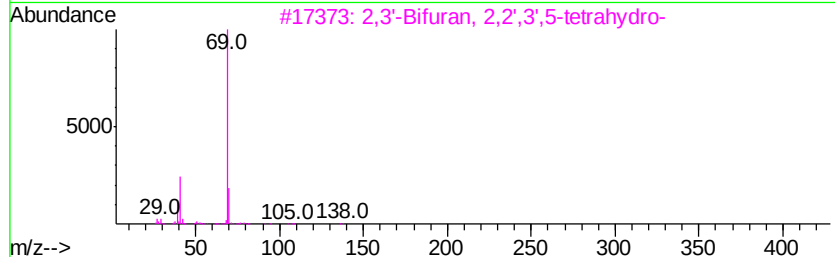
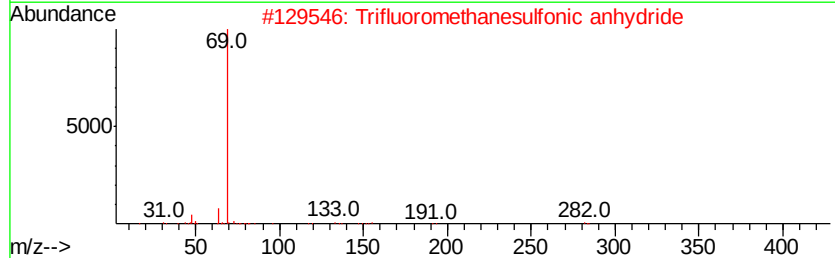
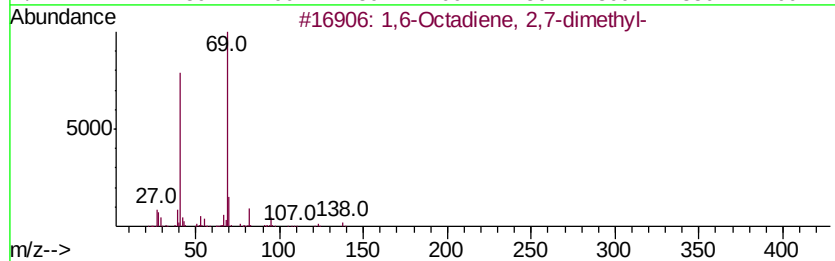
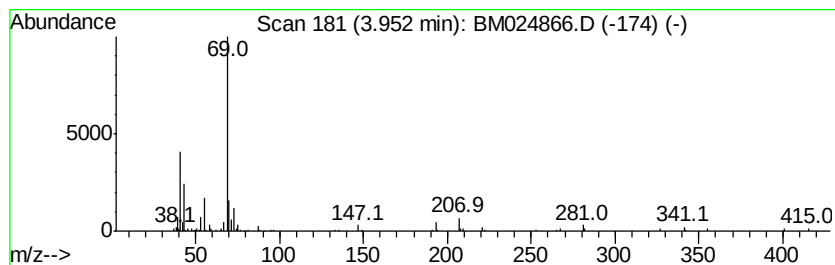
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 6

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 3.95 | 2.90 ng/ul | 344904 | 1,4-Dichlorobenzene-d4 | 7.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,6-Octadiene, 2,7-dimethyl-        | 138 | C10H18   | 040195-09-3 | 36   |
| 2    |    | Trifluoromethanesulfonic anhydride  | 282 | C2F6O5S2 | 000358-23-6 | 9    |
| 3    |    | 2,3'-Bifuran, 2,2',3',5-tetrahydro- | 138 | C8H10O2  | 098869-93-3 | 9    |
| 4    |    | 1-Pentene, 3,3-dimethyl-            | 98  | C7H14    | 003404-73-7 | 9    |
| 5    |    | 1-Hexene, 3,3-dimethyl-             | 112 | C8H16    | 003404-77-1 | 9    |



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Quant Title : SVOA CALIBRATION

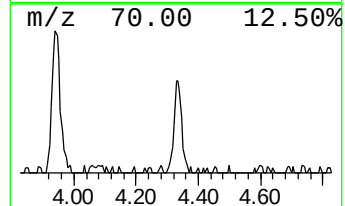
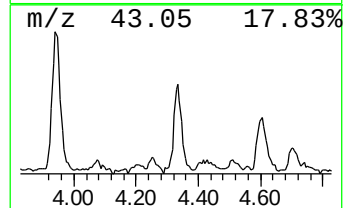
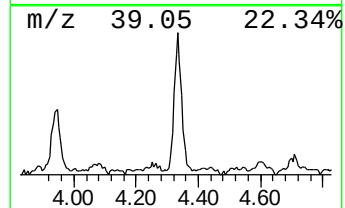
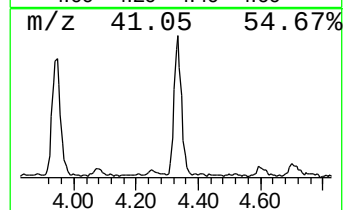
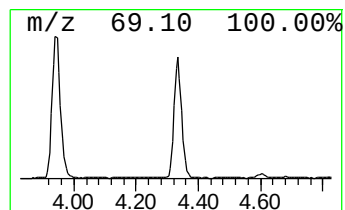
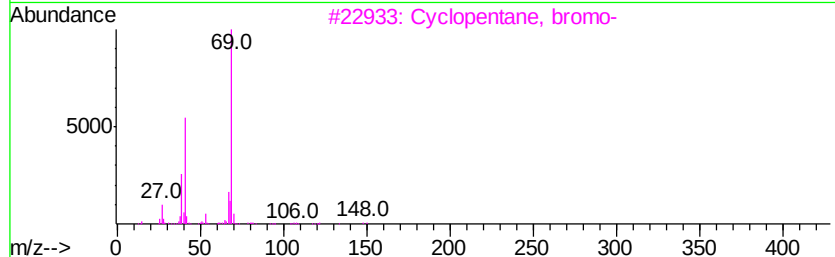
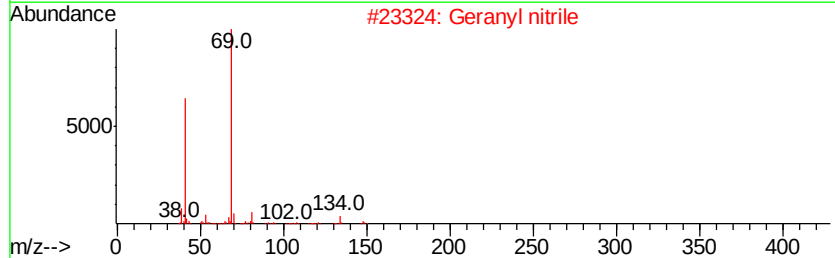
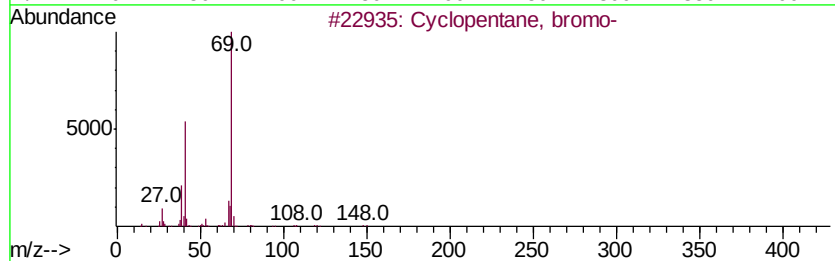
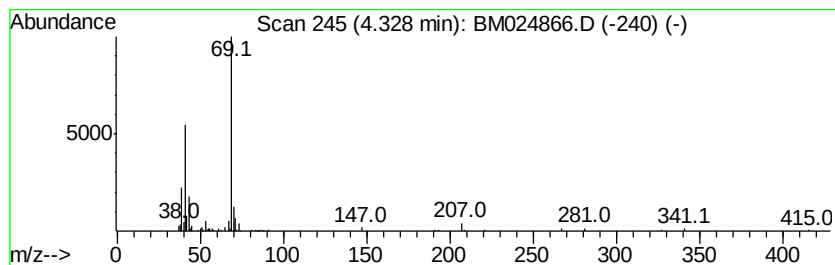
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Cyclopentane, bromo- Concentration Rank 9

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 4.33 | 2.36 ng/ul | 281157 | 1,4-Dichlorobenzene-d4 | 7.40 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, bromo- | 148 | C5H9Br  | 000137-43-9 | 58   |
| 2    |    | Geranyl nitrile      | 149 | C10H15N | 101660-61-1 | 53   |
| 3    |    | Cyclopentane, bromo- | 148 | C5H9Br  | 000137-43-9 | 42   |
| 4    |    | Cyclopentane, bromo- | 148 | C5H9Br  | 000137-43-9 | 9    |
| 5    |    | Vinyl crotonate      | 112 | C6H8O2  | 014861-06-4 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
Misc :  
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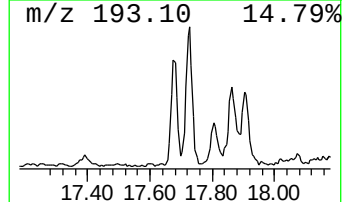
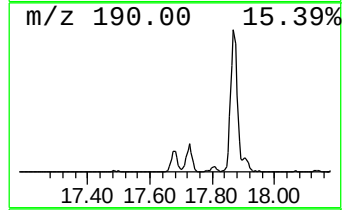
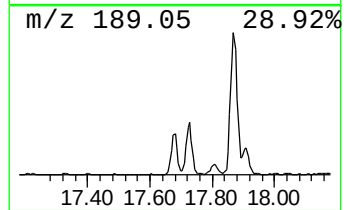
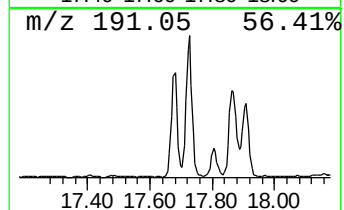
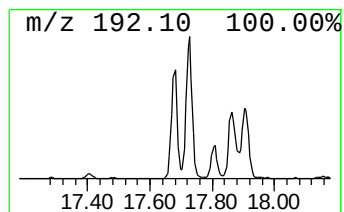
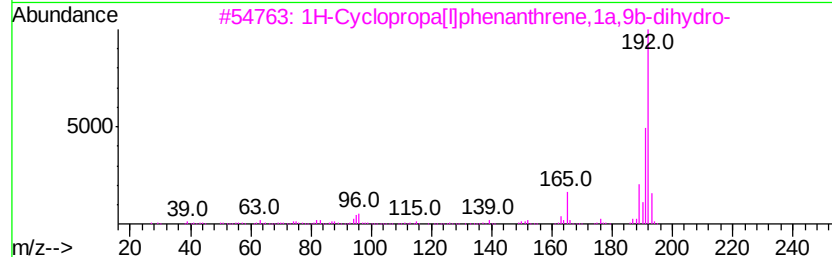
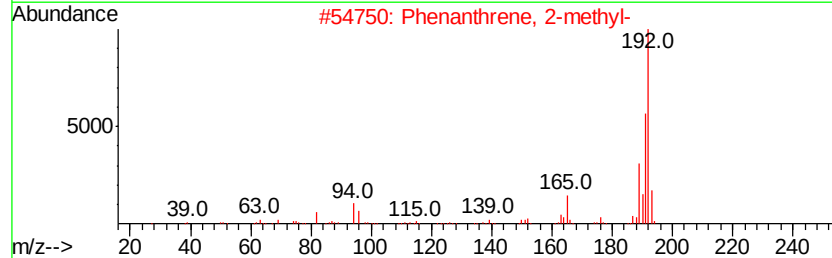
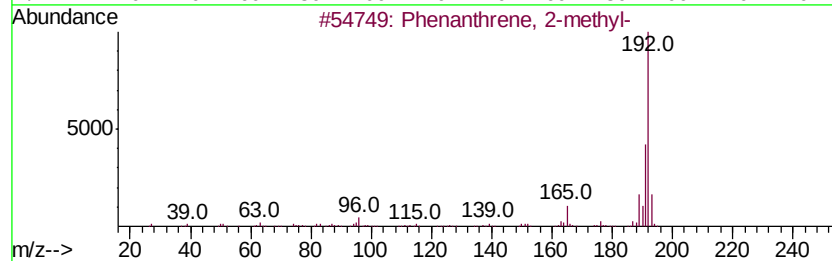
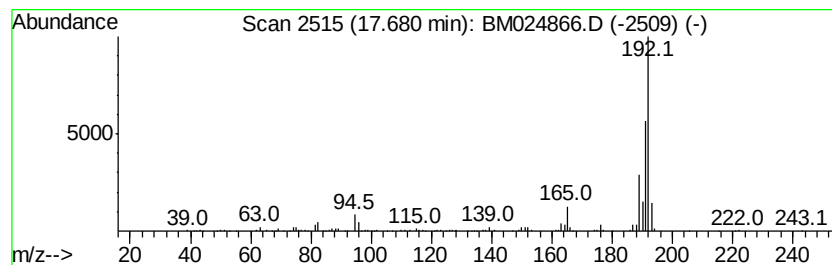
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Quant Title : SVOA CALIBRATION

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

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Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 8

| R.T.    | EstConc    | Area                                | Relative to ISTD |         | R.T.        |      |
|---------|------------|-------------------------------------|------------------|---------|-------------|------|
| 17.68   | 2.45 ng/ul | 580135                              | Phenanthrene-d10 |         | 16.80       |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |            | Phenanthrene, 2-methyl-             | 192              | C15H12  | 002531-84-2 | 96   |
| 2       |            | Phenanthrene, 2-methyl-             | 192              | C15H12  | 002531-84-2 | 96   |
| 3       |            | 1H-Cyclopropa[1]phenanthrene,1a,... | 192              | C15H12  | 000949-41-7 | 96   |
| 4       |            | Phenanthrene, 1-methyl-             | 192              | C15H12  | 000832-69-9 | 96   |
| 5       |            | Phenanthrene, 2-methyl-             | 192              | C15H12  | 002531-84-2 | 95   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Title : SVOA CALIBRATION

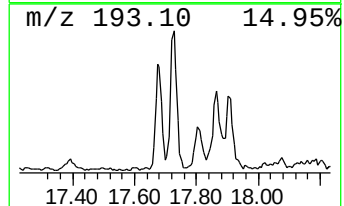
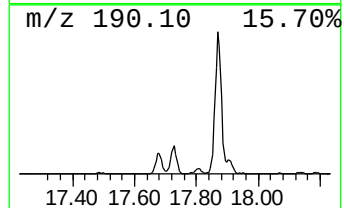
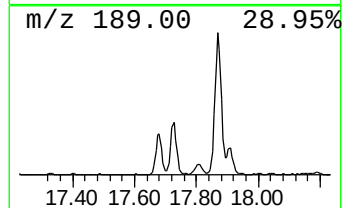
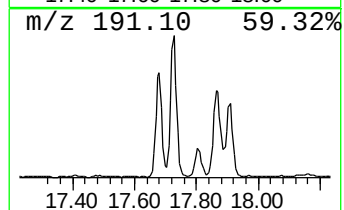
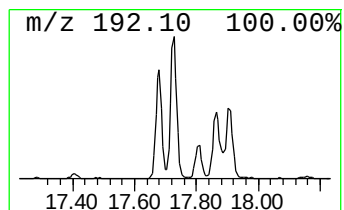
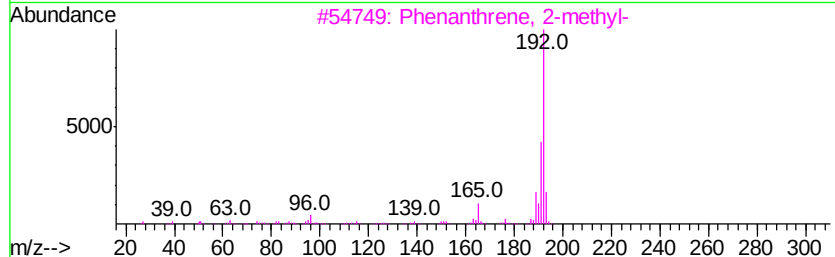
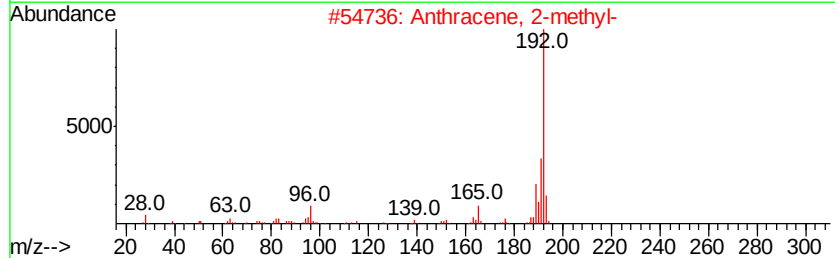
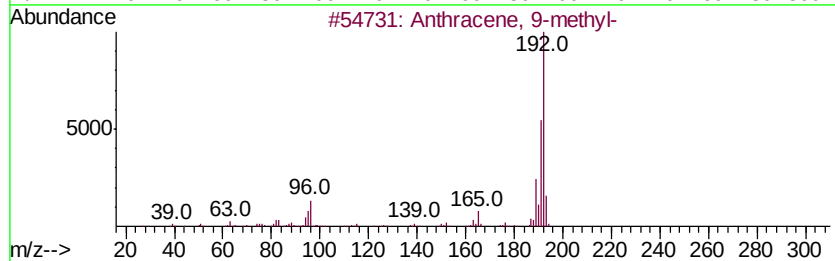
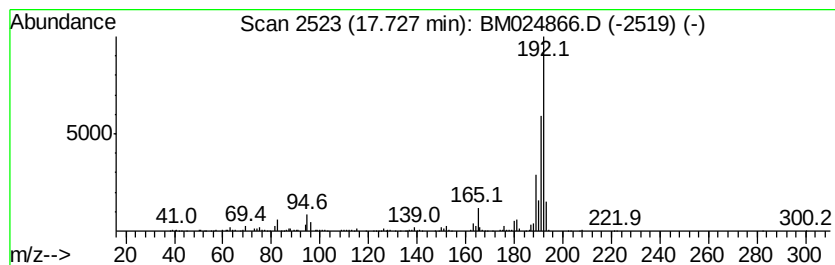
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Anthracene, 9-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.73 | 3.37 ng/ul | 797423 | Phenanthrene-d10 | 16.80 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 95   |
| 2    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 94   |
| 3    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 92   |
| 4    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 92   |
| 5    |    | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 90   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Title : SVOA CALIBRATION

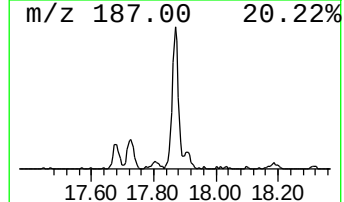
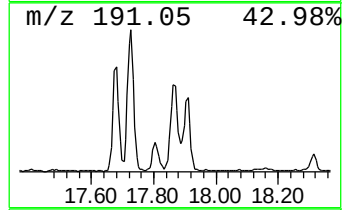
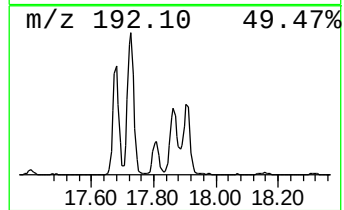
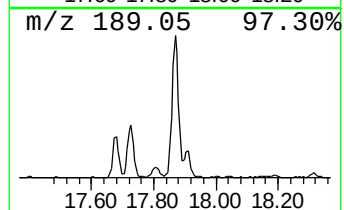
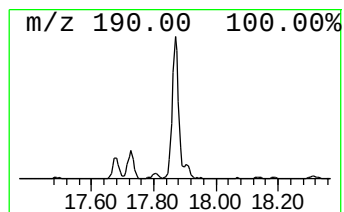
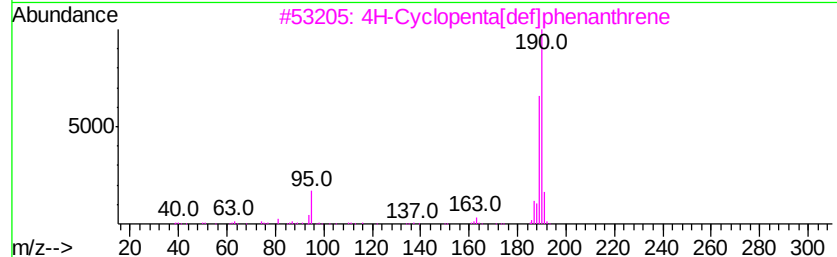
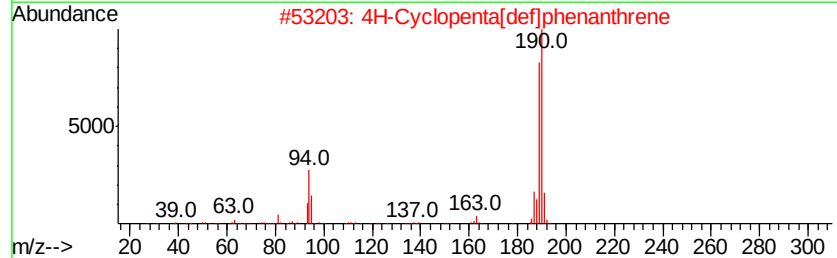
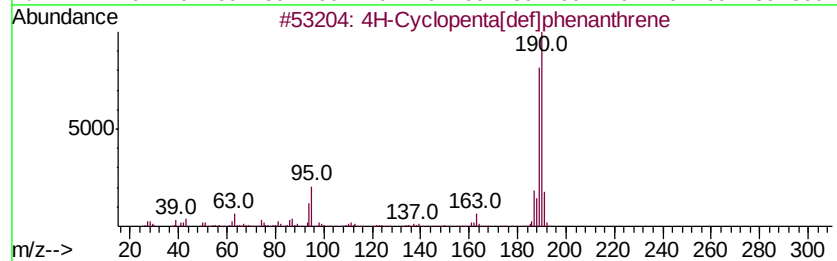
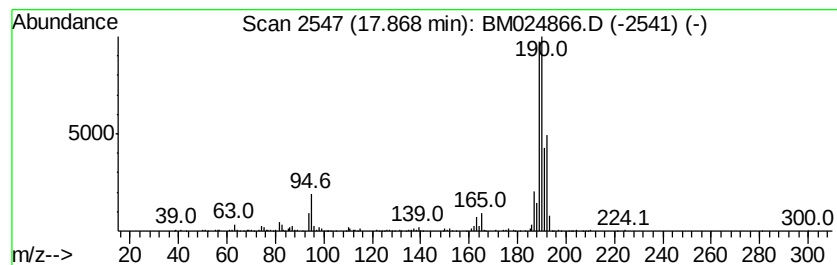
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.87 | 4.13 ng/ul | 979282 | Phenanthrene-d10 | 16.80 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 60   |
| 2       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 58   |
| 3       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 52   |
| 4       |   | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0  | 50   |
| 5       |   | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 50   |



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Operator : CG/JU  
Sample : L1404-09  
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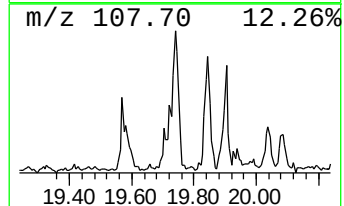
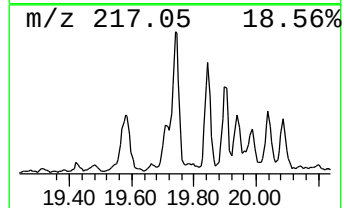
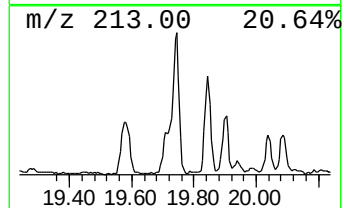
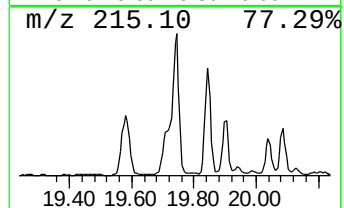
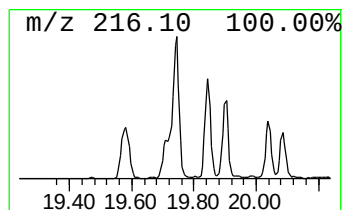
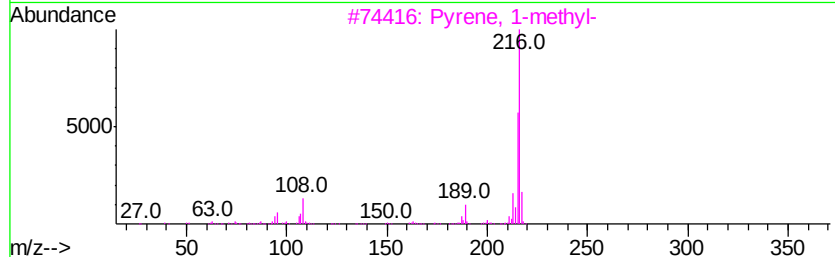
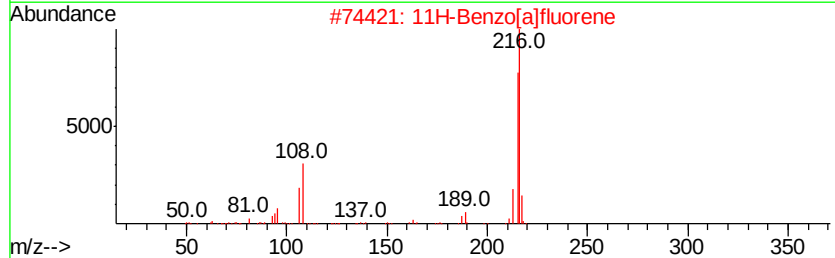
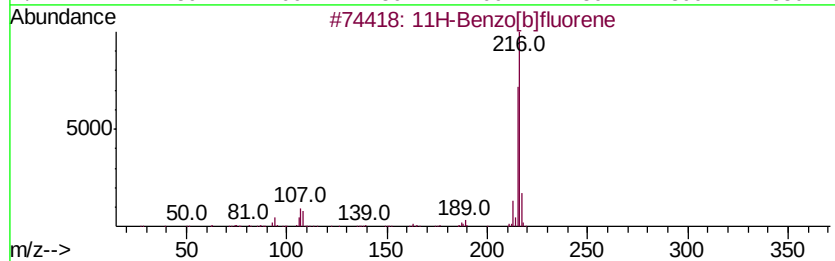
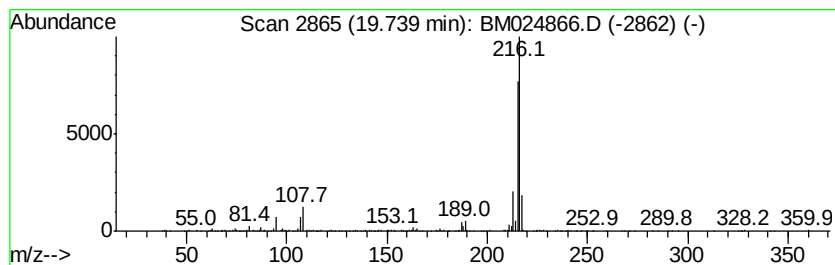
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ClientSampleId :  
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Quant Title : SVOA CALIBRATION

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

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Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 10

| R.T.    | EstConc    | Area                    | Relative to ISTD | R.T.           |
|---------|------------|-------------------------|------------------|----------------|
| 19.74   | 2.02 ng/ul | 890885                  | Chrysene-d12     | 21.02          |
| Hit# of | 5          | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |            | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 93 |
| 2       |            | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 91 |
| 3       |            | Pvrene, 1-methyl-       | 216 C17H12       | 002381-21-7 90 |
| 4       |            | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 87 |
| 5       |            | Pyrene, 1-methyl-       | 216 C17H12       | 002381-21-7 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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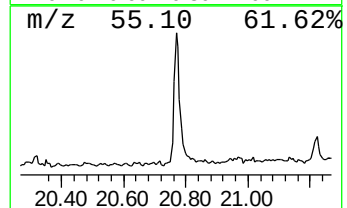
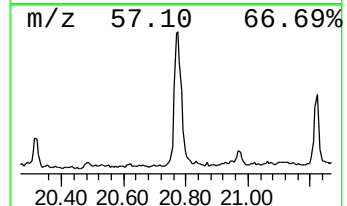
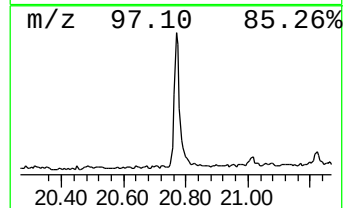
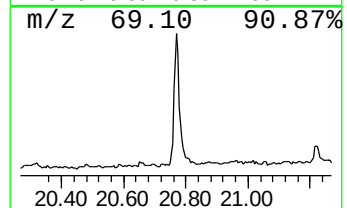
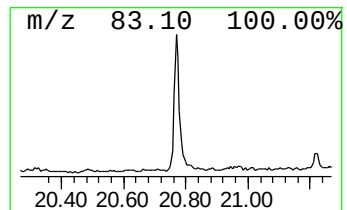
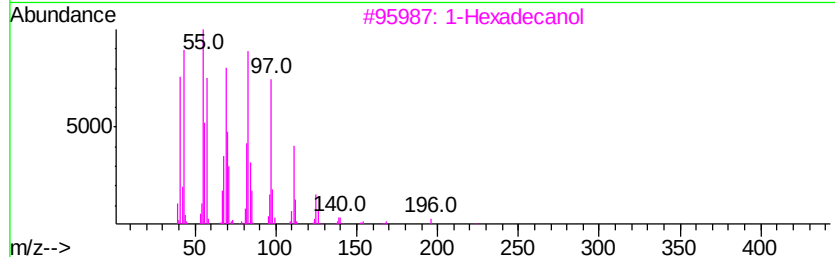
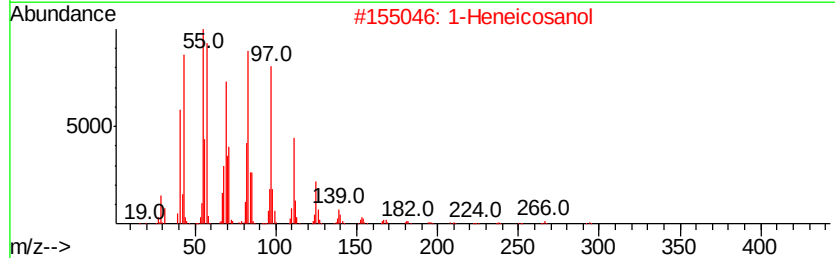
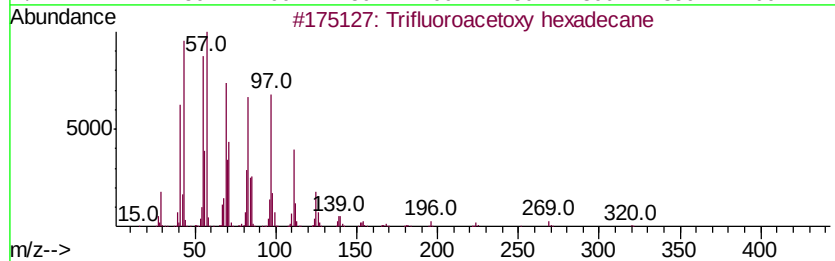
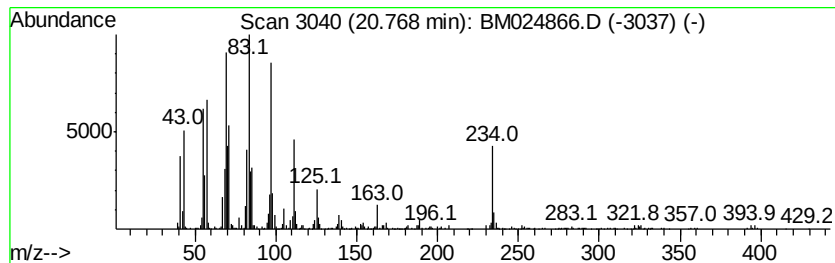
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Trifluoroacetoxy hexadecane Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.77 | 3.28 ng/ul | 1443810 | Chrysene-d12     | 21.02 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2  | 006222-03-3 | 87   |
| 2    |    | 1-Heneicosanol                      | 312 | C21H44O     | 015594-90-8 | 87   |
| 3    |    | 1-Hexadecanol                       | 242 | C16H34O     | 036653-82-4 | 83   |
| 4    |    | n-Nonadecanol-1                     | 284 | C19H40O     | 001454-84-8 | 83   |
| 5    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
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Operator : CG/JU  
Sample : L1404-09  
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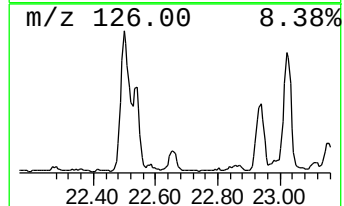
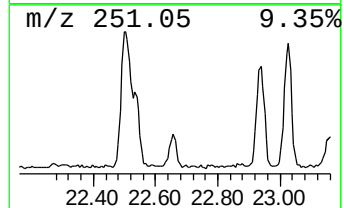
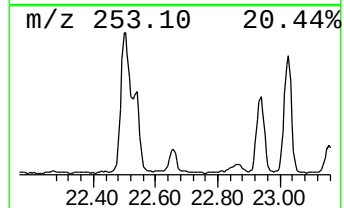
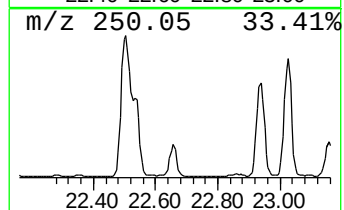
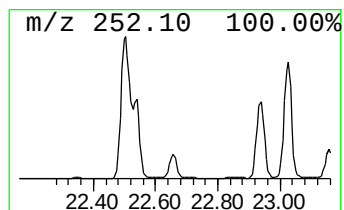
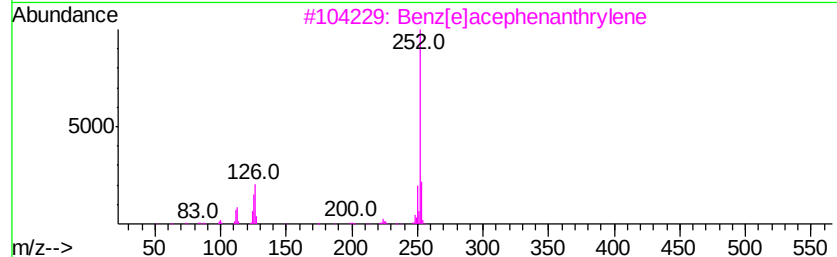
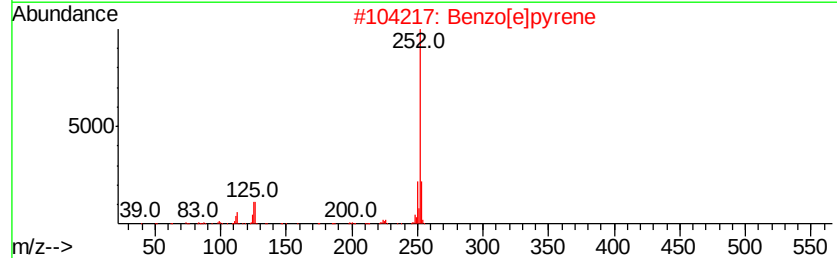
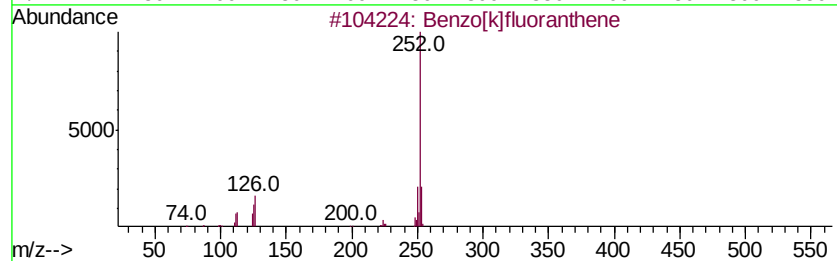
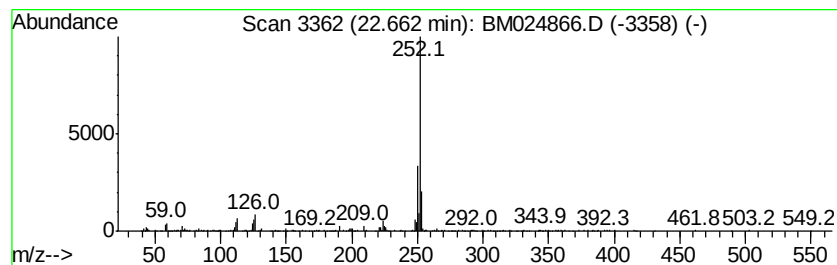
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ClientSampleId :  
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Quant Title : SVOA CALIBRATION

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

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Peak Number 8 Benzo[e]pyrene Concentration Rank 7

| R.T.    | EstConc    | Area                     | Relative to ISTD | R.T.           |
|---------|------------|--------------------------|------------------|----------------|
| 22.66   | 2.61 ng/ul | 546293                   | Perylene-d12     | 23.11          |
| Hit# of | 5          | Tentative ID             | MW MolForm       | CAS# Qual      |
| 1       |            | Benzo[k]fluoranthene     | 252 C20H12       | 000207-08-9 95 |
| 2       |            | Benzo[e]pyrene           | 252 C20H12       | 000192-97-2 90 |
| 3       |            | Benz[e]acephenanthrylene | 252 C20H12       | 000205-99-2 81 |
| 4       |            | Benz[e]acephenanthrylene | 252 C20H12       | 000205-99-2 81 |
| 5       |            | Benzo[a]pyrene           | 252 C20H12       | 000050-32-8 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Title : SVOA CALIBRATION

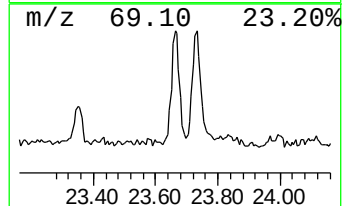
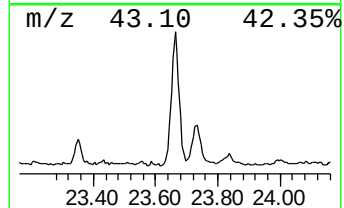
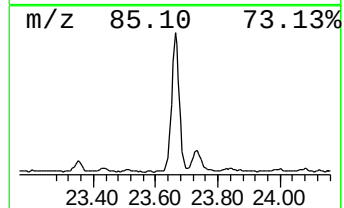
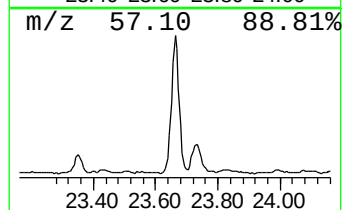
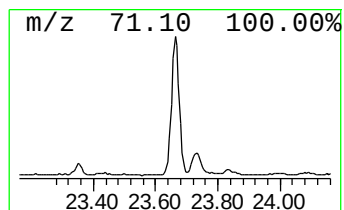
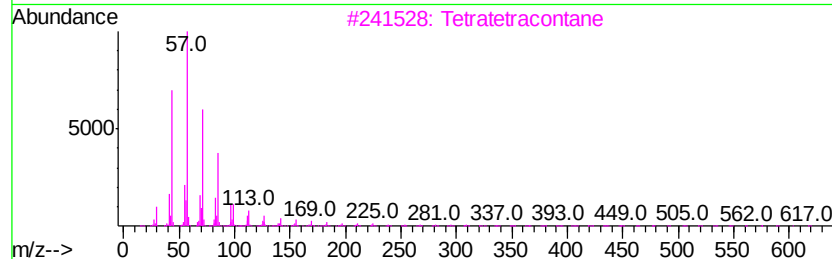
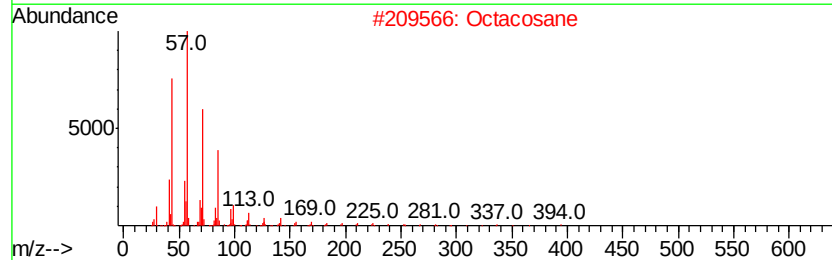
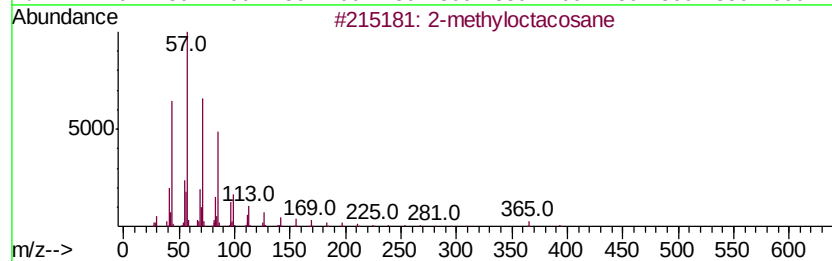
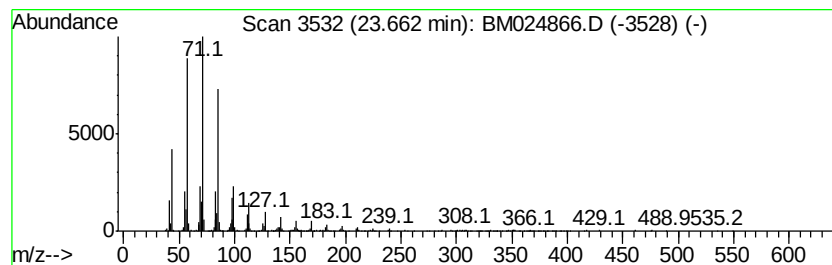
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.66 | 5.87 ng/ul | 1231230 | Perylene-d12     | 23.11 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane     | 408 | C29H60  | 1000376-72-8 | 90   |
| 2    |    | Octacosane             | 394 | C28H58  | 000630-02-4  | 90   |
| 3    |    | Tetratetracontane      | 619 | C44H90  | 007098-22-8  | 90   |
| 4    |    | Heptacosane            | 380 | C27H56  | 000593-49-7  | 87   |
| 5    |    | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB6N3

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

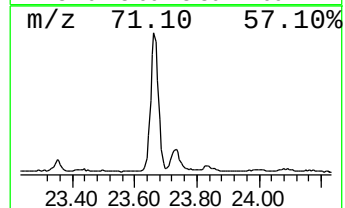
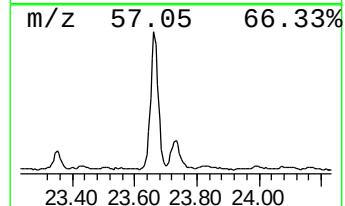
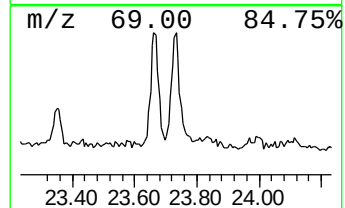
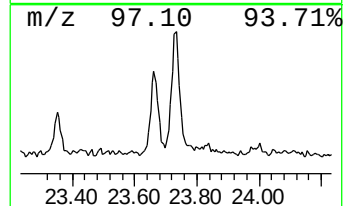
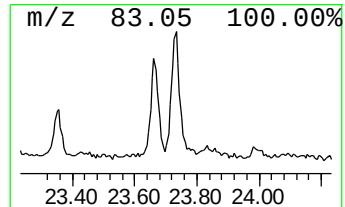
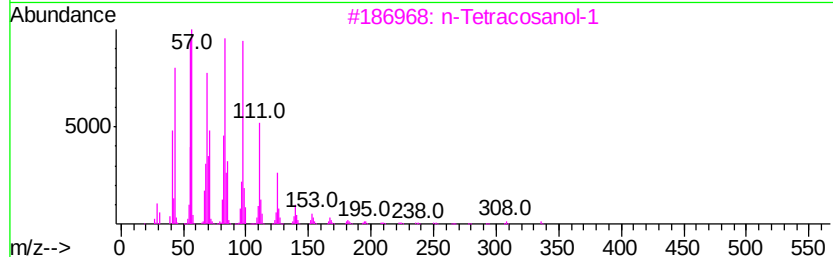
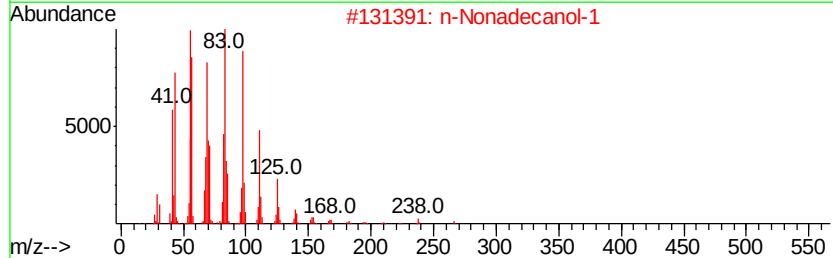
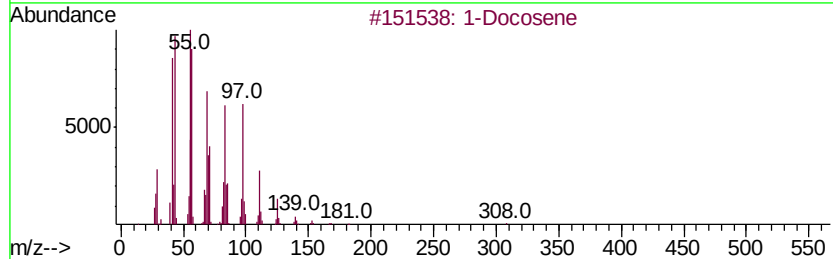
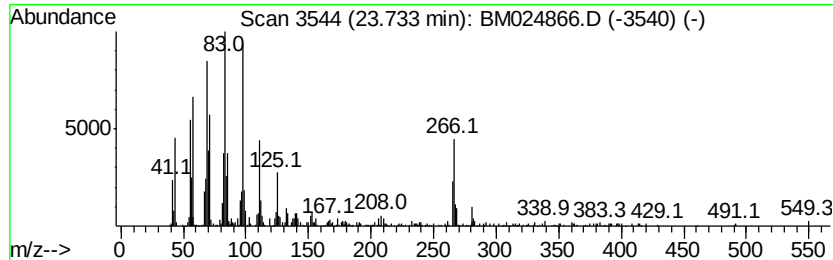
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.73 | 2.99 ng/ul | 627312 | Perylene-d12     | 23.11 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Docosene       | 308 | C22H44  | 001599-67-3 | 90   |
| 2    |    | n-Nonadecanol-1  | 284 | C19H40O | 001454-84-8 | 68   |
| 3    |    | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 53   |
| 4    |    | Behenic alcohol  | 326 | C22H46O | 000661-19-8 | 53   |
| 5    |    | 9-Eicosene, (E)- | 280 | C20H40  | 074685-29-3 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM021320\  
Data File : BM024866.D  
Acq On : 13 Feb 2020 21:39  
Operator : CG/JU  
Sample : L1404-09  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB6N3

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 |
| unknown-01           | 3.95  | 2.9     | ng/ul | 344904   | 1                     | 7.40  | 2382050 | 20.0 |
| Cyclopentane, bromo- | 4.33  | 2.4     | ng/ul | 281157   | 1                     | 7.40  | 2382050 | 20.0 |
| Phenanthrene, 2-m... | 17.68 | 2.5     | ng/ul | 580135   | 4                     | 16.80 | 4738500 | 20.0 |
| Anthracene, 9-met... | 17.73 | 3.4     | ng/ul | 797423   | 4                     | 16.80 | 4738500 | 20.0 |
| 4H-Cyclopenta[def... | 17.87 | 4.1     | ng/ul | 979282   | 4                     | 16.80 | 4738500 | 20.0 |
| 11H-Benzo[b]fluorene | 19.74 | 2.0     | ng/ul | 890885   | 5                     | 21.02 | 8808000 | 20.0 |
| Trifluoroacetoxy ... | 20.77 | 3.3     | ng/ul | 1443810  | 5                     | 21.02 | 8808000 | 20.0 |
| Benzo[e]pyrene       | 22.66 | 2.6     | ng/ul | 546293   | 6                     | 23.11 | 4191790 | 20.0 |
| (DEL) Alkane: Str... | 23.66 | 5.9     | ng/ul | 1231230  | 6                     | 23.11 | 4191790 | 20.0 |
| (DEL) Alkane: Str... | 23.73 | 3.0     | ng/ul | 627312   | 6                     | 23.11 | 4191790 | 20.0 |