

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081320\  
 Data File : BM027105.D  
 Acq On : 15 Aug 2020 02:22  
 Operator : JU/CG  
 Sample : L3631-16  
 Misc :  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BFMN2

## 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-BM080720MA.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         | 3.204       | 33            | 37          | 43           | rVB      | 17274          | 24661         | 0.68%           | 0.055%        |
| 2         | 3.699       | 117           | 121         | 127          | rVB2     | 28475          | 36527         | 1.01%           | 0.082%        |
| 3         | 3.828       | 138           | 143         | 149          | rVB      | 27431          | 40063         | 1.10%           | 0.090%        |
| 4         | 4.804       | 304           | 309         | 317          | rVB      | 21180          | 33176         | 0.91%           | 0.074%        |
| 5         | 6.816       | 644           | 651         | 662          | rBV2     | 350113         | 603697        | 16.61%          | 1.353%        |
| 6         | 6.975       | 672           | 678         | 686          | rBV      | 284430         | 439753        | 12.10%          | 0.986%        |
| 7         | 7.175       | 704           | 712         | 721          | rVB      | 380773         | 580038        | 15.96%          | 1.300%        |
| 8         | 7.640       | 783           | 791         | 798          | rBV      | 658963         | 1023915       | 28.18%          | 2.295%        |
| 9         | 8.339       | 901           | 910         | 918          | rBV      | 425861         | 656507        | 18.07%          | 1.471%        |
| 10        | 8.775       | 978           | 984         | 993          | rBV      | 334305         | 557661        | 15.35%          | 1.250%        |
| 11        | 9.498       | 1100          | 1107        | 1116         | rBV      | 266989         | 442894        | 12.19%          | 0.993%        |
| 12        | 10.033      | 1191          | 1198        | 1211         | rBV      | 437306         | 708299        | 19.49%          | 1.587%        |
| 13        | 10.410      | 1250          | 1262        | 1268         | rBV      | 767091         | 1286315       | 35.40%          | 2.883%        |
| 14        | 10.457      | 1268          | 1270        | 1275         | rVB      | 15330          | 19572         | 0.54%           | 0.044%        |
| 15        | 10.539      | 1277          | 1284        | 1296         | rBV      | 355819         | 602655        | 16.58%          | 1.351%        |
| 16        | 13.598      | 1799          | 1804        | 1808         | rVB2     | 13368          | 20774         | 0.57%           | 0.047%        |
| 17        | 13.686      | 1813          | 1819        | 1823         | rVV      | 810069         | 1093294       | 30.08%          | 2.450%        |
| 18        | 13.733      | 1823          | 1827        | 1835         | rVB      | 169577         | 229500        | 6.32%           | 0.514%        |
| 19        | 13.957      | 1858          | 1865        | 1876         | rBV      | 799843         | 1303843       | 35.88%          | 2.922%        |
| 20        | 14.269      | 1912          | 1918        | 1925         | rBV      | 1203564        | 1794349       | 49.38%          | 4.021%        |
| 21        | 14.333      | 1925          | 1929        | 1934         | rVB      | 38090          | 51283         | 1.41%           | 0.115%        |
| 22        | 14.468      | 1946          | 1952        | 1961         | rBV      | 248820         | 386263        | 10.63%          | 0.866%        |
| 23        | 14.674      | 1981          | 1987        | 1992         | rVV2     | 33824          | 58880         | 1.62%           | 0.132%        |
| 24        | 15.268      | 2079          | 2088        | 2093         | rVV      | 1061390        | 1519987       | 41.83%          | 3.407%        |
| 25        | 15.321      | 2093          | 2097        | 2102         | rVV2     | 55268          | 76834         | 2.11%           | 0.172%        |
| 26        | 15.386      | 2102          | 2108        | 2116         | rVV      | 201582         | 293156        | 8.07%           | 0.657%        |
| 27        | 15.510      | 2122          | 2129        | 2133         | rVV7     | 14554          | 34123         | 0.94%           | 0.076%        |
| 28        | 15.621      | 2142          | 2148        | 2151         | rBV      | 25375          | 37165         | 1.02%           | 0.083%        |
| 29        | 15.763      | 2168          | 2172        | 2179         | rVV2     | 27070          | 55709         | 1.53%           | 0.125%        |
| 30        | 15.857      | 2181          | 2188        | 2193         | rVV8     | 11226          | 21105         | 0.58%           | 0.047%        |
| 31        | 15.998      | 2207          | 2212        | 2214         | rVV5     | 12162          | 24128         | 0.66%           | 0.054%        |
| 32        | 16.304      | 2256          | 2264        | 2265         | rBV8     | 14756          | 28845         | 0.79%           | 0.065%        |
| 33        | 16.321      | 2265          | 2267        | 2272         | rVV5     | 16893          | 28592         | 0.79%           | 0.064%        |
| 34        | 16.380      | 2273          | 2277        | 2283         | rVB4     | 11239          | 19498         | 0.54%           | 0.044%        |

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 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-BM080720MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 16.562 | 2305 | 2308 | 2311 | rBV3 | 16331   | 21887   | 0.60%  | 0.049% |
| 36 | 16.598 | 2311 | 2314 | 2318 | rVV4 | 18405   | 22087   | 0.61%  | 0.050% |
| 37 | 16.668 | 2321 | 2326 | 2336 | rVB2 | 48879   | 79382   | 2.18%  | 0.178% |
| 38 | 16.762 | 2336 | 2342 | 2347 | rBV5 | 24236   | 60501   | 1.66%  | 0.136% |
| 39 | 16.833 | 2351 | 2354 | 2358 | rVB2 | 30028   | 41536   | 1.14%  | 0.093% |
| 40 | 17.015 | 2379 | 2385 | 2389 | rBV  | 1444579 | 2083549 | 57.33% | 4.670% |
| 41 | 17.057 | 2389 | 2392 | 2396 | rVV  | 756698  | 972017  | 26.75% | 2.178% |
| 42 | 17.109 | 2396 | 2401 | 2405 | rVV  | 1104043 | 1608214 | 44.25% | 3.604% |
| 43 | 17.145 | 2405 | 2407 | 2413 | rVV  | 176043  | 223654  | 6.15%  | 0.501% |
| 44 | 17.209 | 2413 | 2418 | 2423 | rVB3 | 37283   | 63252   | 1.74%  | 0.142% |
| 45 | 17.415 | 2449 | 2453 | 2457 | rVB  | 63183   | 89987   | 2.48%  | 0.202% |
| 46 | 17.462 | 2457 | 2461 | 2468 | rBV5 | 12216   | 25791   | 0.71%  | 0.058% |
| 47 | 17.545 | 2471 | 2475 | 2478 | rVV3 | 22852   | 32372   | 0.89%  | 0.073% |
| 48 | 17.598 | 2480 | 2484 | 2487 | rVB3 | 20054   | 27113   | 0.75%  | 0.061% |
| 49 | 17.892 | 2525 | 2534 | 2537 | rBV  | 115609  | 178551  | 4.91%  | 0.400% |
| 50 | 17.933 | 2537 | 2541 | 2550 | rVV2 | 295497  | 447274  | 12.31% | 1.002% |
| 51 | 18.015 | 2550 | 2555 | 2561 | rVV2 | 71468   | 113777  | 3.13%  | 0.255% |
| 52 | 18.086 | 2561 | 2567 | 2570 | rVV2 | 152677  | 287422  | 7.91%  | 0.644% |
| 53 | 18.121 | 2570 | 2573 | 2579 | rVB  | 88627   | 121566  | 3.35%  | 0.272% |
| 54 | 18.239 | 2589 | 2593 | 2597 | rBV4 | 26022   | 34811   | 0.96%  | 0.078% |
| 55 | 18.398 | 2615 | 2620 | 2622 | rVV  | 100854  | 137169  | 3.77%  | 0.307% |
| 56 | 18.427 | 2622 | 2625 | 2630 | rVB  | 114573  | 151020  | 4.16%  | 0.338% |
| 57 | 18.521 | 2638 | 2641 | 2643 | rBV4 | 15466   | 17301   | 0.48%  | 0.039% |
| 58 | 18.645 | 2658 | 2662 | 2665 | rVV2 | 39485   | 51232   | 1.41%  | 0.115% |
| 59 | 18.698 | 2667 | 2671 | 2674 | rVV2 | 36740   | 51792   | 1.43%  | 0.116% |
| 60 | 18.733 | 2674 | 2677 | 2681 | rVB2 | 38761   | 52914   | 1.46%  | 0.119% |
| 61 | 18.815 | 2686 | 2691 | 2697 | rVV2 | 94371   | 176680  | 4.86%  | 0.396% |
| 62 | 18.880 | 2697 | 2702 | 2705 | rVV5 | 62650   | 115039  | 3.17%  | 0.258% |
| 63 | 18.909 | 2705 | 2707 | 2710 | rVV  | 44864   | 55870   | 1.54%  | 0.125% |
| 64 | 18.951 | 2710 | 2714 | 2723 | rVB2 | 97179   | 175017  | 4.82%  | 0.392% |
| 65 | 19.074 | 2730 | 2735 | 2741 | rVB  | 1372376 | 1813755 | 49.91% | 4.065% |
| 66 | 19.145 | 2743 | 2747 | 2750 | rBV2 | 23246   | 41242   | 1.13%  | 0.092% |
| 67 | 19.174 | 2750 | 2752 | 2756 | rVB3 | 23550   | 29735   | 0.82%  | 0.067% |
| 68 | 19.227 | 2756 | 2761 | 2765 | rBV2 | 92802   | 131529  | 3.62%  | 0.295% |
| 69 | 19.274 | 2765 | 2769 | 2772 | rBV4 | 33445   | 59707   | 1.64%  | 0.134% |
| 70 | 19.409 | 2787 | 2792 | 2795 | rBV  | 1584949 | 2328100 | 64.06% | 5.218% |
| 71 | 19.439 | 2795 | 2797 | 2805 | rVV  | 1221127 | 1433829 | 39.46% | 3.213% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM080720MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 19.515 | 2807 | 2810 | 2818 | rVB2 | 76413   | 135348  | 3.72%   | 0.303% |
| 73  | 19.621 | 2824 | 2828 | 2832 | rBV  | 91031   | 114496  | 3.15%   | 0.257% |
| 74  | 19.680 | 2834 | 2838 | 2844 | rVB  | 77936   | 115375  | 3.17%   | 0.259% |
| 75  | 19.756 | 2846 | 2851 | 2859 | rBV3 | 616067  | 979369  | 26.95%  | 2.195% |
| 76  | 19.903 | 2872 | 2876 | 2878 | rBV3 | 85816   | 121693  | 3.35%   | 0.273% |
| 77  | 19.939 | 2879 | 2882 | 2887 | rVB  | 187689  | 248452  | 6.84%   | 0.557% |
| 78  | 19.992 | 2888 | 2891 | 2894 | rBV5 | 29475   | 39108   | 1.08%   | 0.088% |
| 79  | 20.039 | 2895 | 2899 | 2903 | rBV2 | 103432  | 128992  | 3.55%   | 0.289% |
| 80  | 20.098 | 2903 | 2909 | 2913 | rBV2 | 170475  | 281156  | 7.74%   | 0.630% |
| 81  | 20.180 | 2920 | 2923 | 2928 | rBV2 | 40781   | 62578   | 1.72%   | 0.140% |
| 82  | 20.233 | 2929 | 2932 | 2936 | rVV  | 77057   | 97711   | 2.69%   | 0.219% |
| 83  | 20.280 | 2937 | 2940 | 2948 | rVV3 | 80288   | 151597  | 4.17%   | 0.340% |
| 84  | 20.492 | 2973 | 2976 | 2979 | rBV5 | 49824   | 70779   | 1.95%   | 0.159% |
| 85  | 20.686 | 3005 | 3009 | 3016 | rVB  | 160102  | 227002  | 6.25%   | 0.509% |
| 86  | 20.850 | 3032 | 3037 | 3041 | rBV2 | 107568  | 212302  | 5.84%   | 0.476% |
| 87  | 20.892 | 3041 | 3044 | 3047 | rVV  | 145727  | 169316  | 4.66%   | 0.379% |
| 88  | 20.939 | 3047 | 3052 | 3056 | rVV2 | 537944  | 823555  | 22.66%  | 1.846% |
| 89  | 20.980 | 3057 | 3059 | 3070 | rVB  | 191397  | 302708  | 8.33%   | 0.678% |
| 90  | 21.203 | 3091 | 3097 | 3101 | rBV2 | 2177430 | 3634033 | 100.00% | 8.145% |
| 91  | 21.239 | 3101 | 3103 | 3112 | rVB  | 720301  | 936586  | 25.77%  | 2.099% |
| 92  | 21.362 | 3121 | 3124 | 3125 | rBV  | 64307   | 75620   | 2.08%   | 0.169% |
| 93  | 21.509 | 3147 | 3149 | 3155 | rVB3 | 85562   | 108554  | 2.99%   | 0.243% |
| 94  | 21.750 | 3188 | 3190 | 3195 | rVB  | 178408  | 189192  | 5.21%   | 0.424% |
| 95  | 21.809 | 3196 | 3200 | 3201 | rBV2 | 113374  | 161933  | 4.46%   | 0.363% |
| 96  | 22.750 | 3354 | 3360 | 3377 | rVB  | 653441  | 2096646 | 57.69%  | 4.699% |
| 97  | 23.215 | 3434 | 3439 | 3442 | rBV  | 321901  | 566298  | 15.58%  | 1.269% |
| 98  | 23.262 | 3442 | 3447 | 3451 | rVV  | 953591  | 1648714 | 45.37%  | 3.695% |
| 99  | 23.303 | 3451 | 3454 | 3463 | rVB  | 562483  | 1100609 | 30.29%  | 2.467% |
| 100 | 23.403 | 3464 | 3471 | 3476 | rBV2 | 1193414 | 2329653 | 64.11%  | 5.221% |

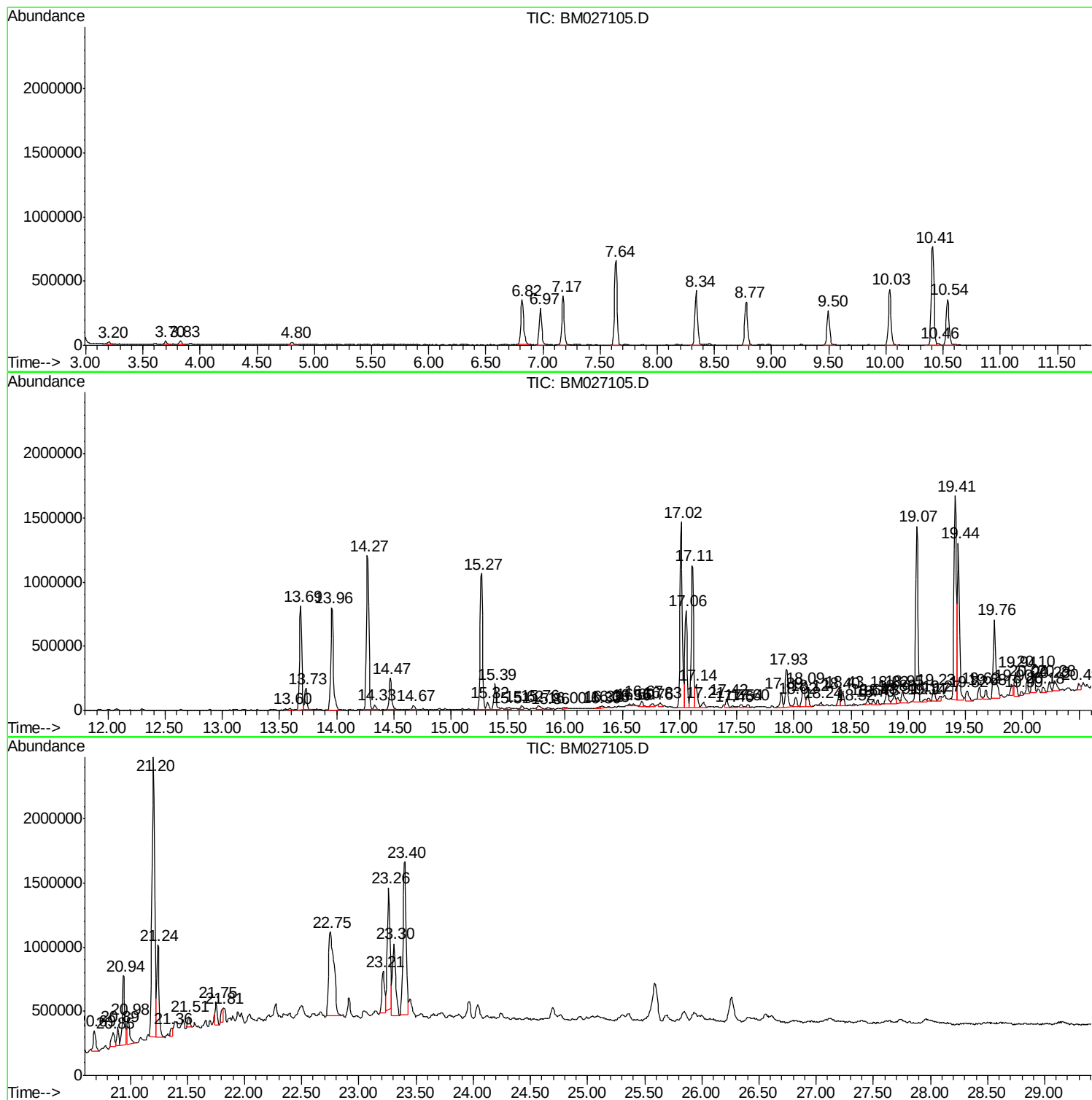
Sum of corrected areas: 44619110

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM080720MA.M  
Quant Title : SVOA CALIBRATION

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



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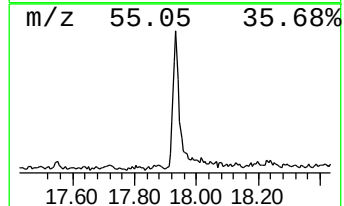
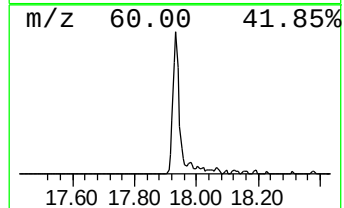
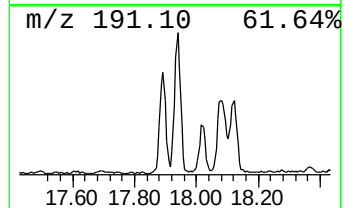
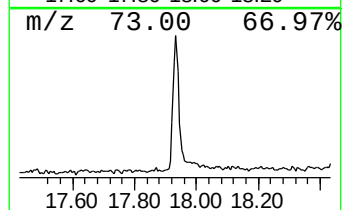
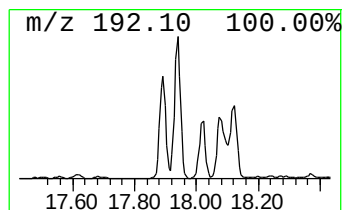
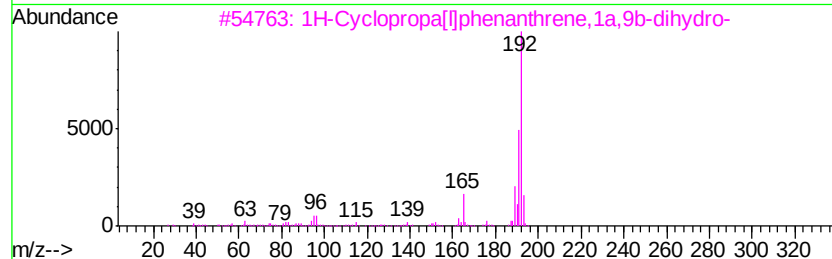
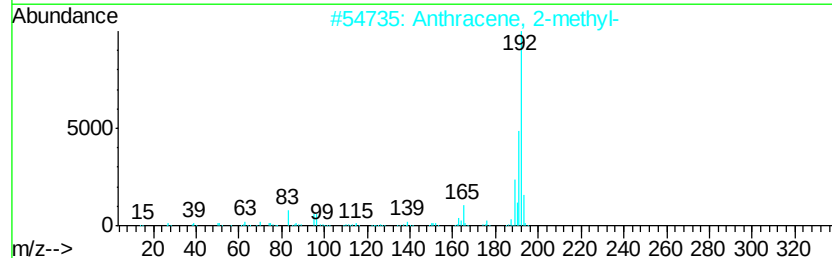
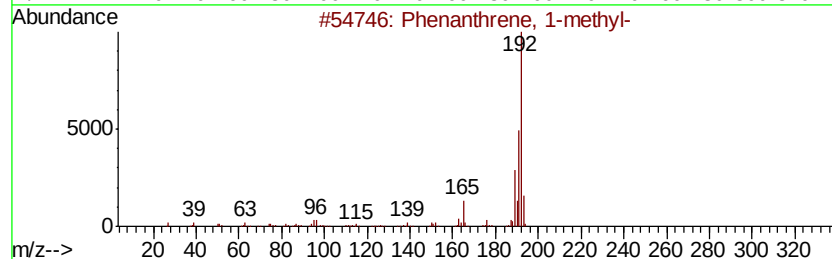
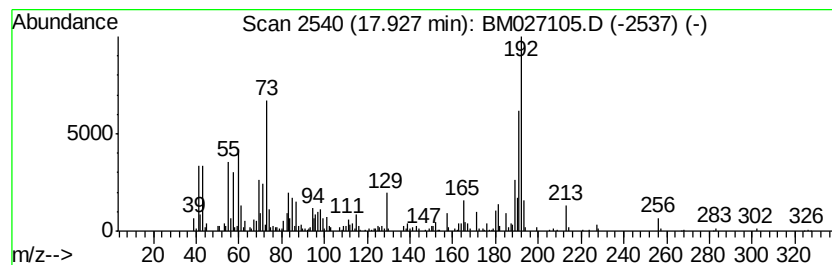
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM080720MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Phenanthrene, 1-methyl- Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 17.93     | 4.29 ng/ul                          | 447274 | Phenanthrene-d10 | 17.02       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 97   |
| 2         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 96   |
| 3         | 1H-Cyclopropa[1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 96   |
| 4         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 96   |
| 5         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 95   |



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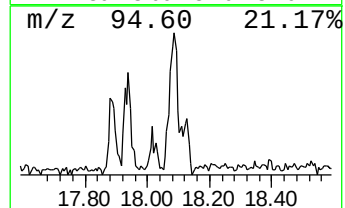
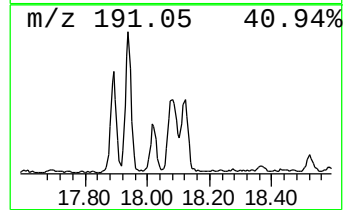
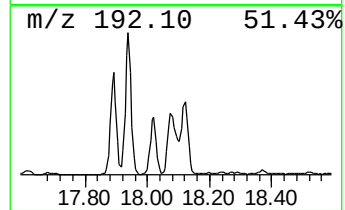
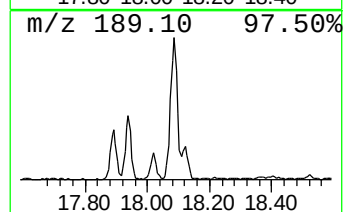
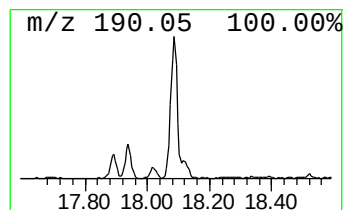
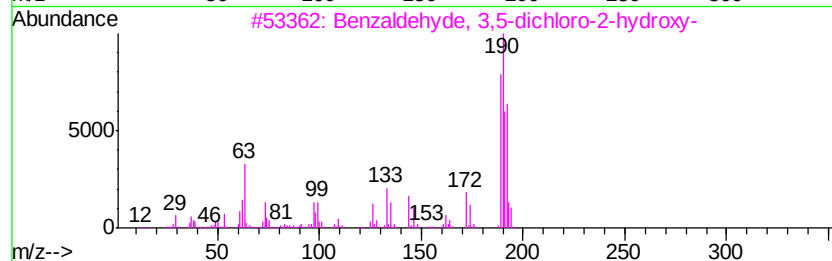
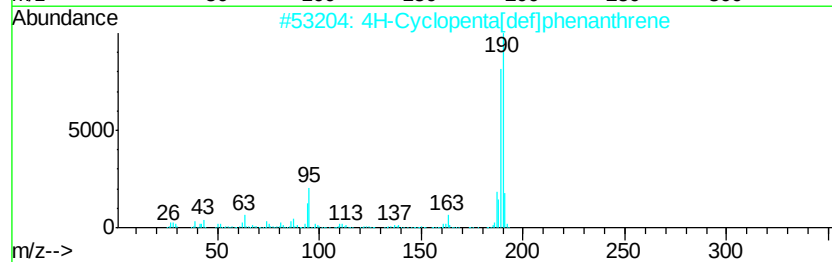
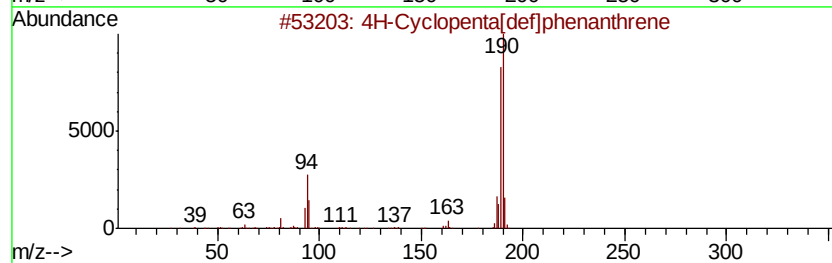
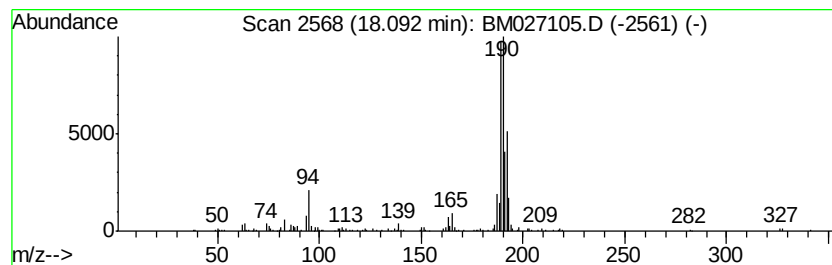
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.09 | 2.76 ng/ul | 287422 | Phenanthrene-d10 | 17.02 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 70   |
| 2       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 60   |
| 3       |   | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2  | 000090-60-8  | 50   |
| 4       |   | 6H-Cyclobuta[flk]phenanthrene       | 190 | C15H10     | 083469-43-6  | 50   |
| 5       |   | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 40   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081320\  
Data File : BM027105.D  
Acq On : 15 Aug 2020 02:22  
Operator : JU/CG  
Sample : L3631-16  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

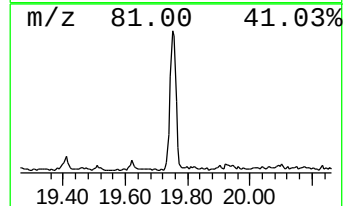
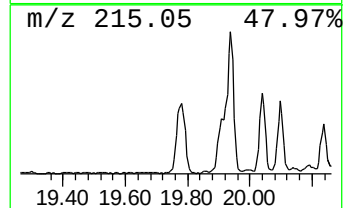
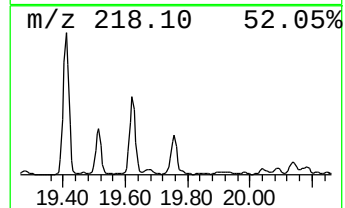
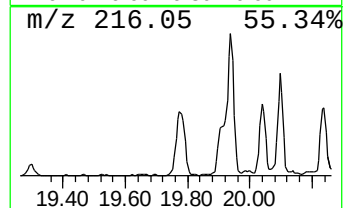
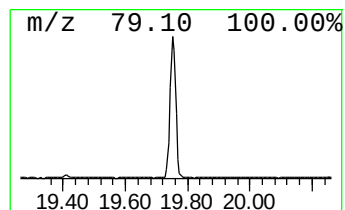
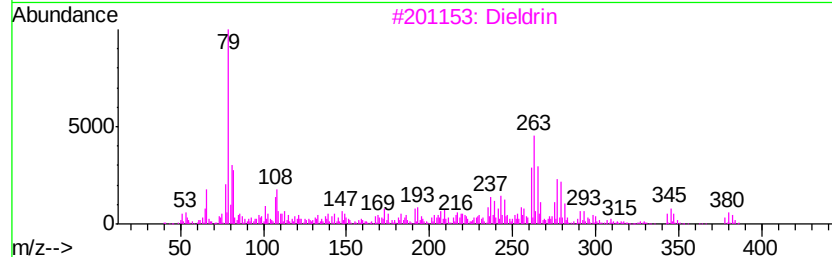
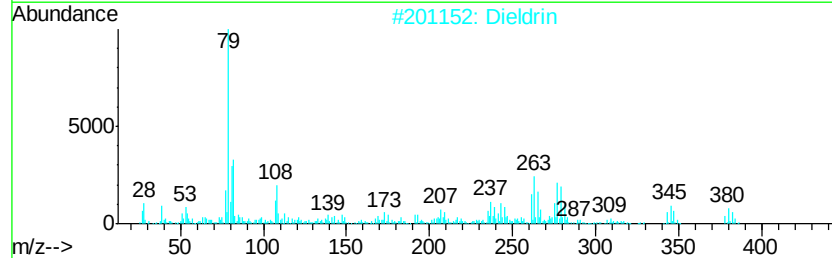
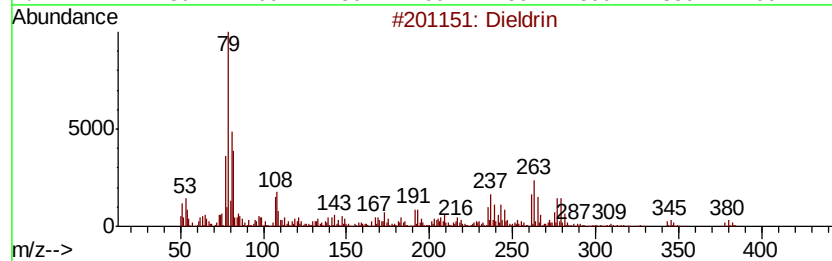
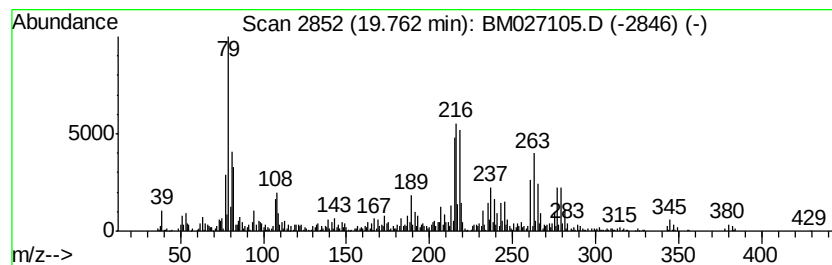
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BNA\_M  
ClientSampleId :  
BFMN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM080720MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 3 Dieldrin Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.           |
|---------|-------------------------------------|--------------|------------------|----------------|
| 19.76   | 5.39 ng/ul                          | 979369       | Chrysene-d12     | 21.20          |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Dieldrin                            |              | 378 C12H8Cl6O    | 000060-57-1 99 |
| 2       | Dieldrin                            |              | 378 C12H8Cl6O    | 000060-57-1 96 |
| 3       | Dieldrin                            |              | 378 C12H8Cl6O    | 000060-57-1 94 |
| 4       | Dieldrin                            |              | 378 C12H8Cl6O    | 000060-57-1 89 |
| 5       | 1,2,3,4,10,10-Hexachloro-6,7-epo... |              | 378 C12H8Cl6O    | 056816-04-7 55 |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081320\  
Data File : BM027105.D  
Acq On : 15 Aug 2020 02:22  
Operator : JU/CG  
Sample : L3631-16  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFMN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM080720MA.M  
Quant Title : SVOA CALIBRATION

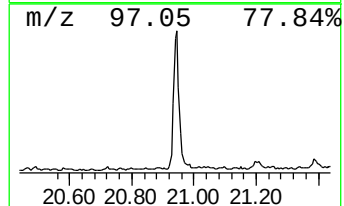
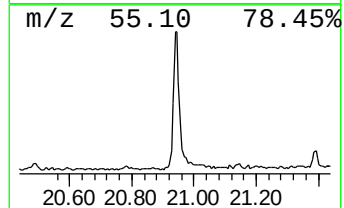
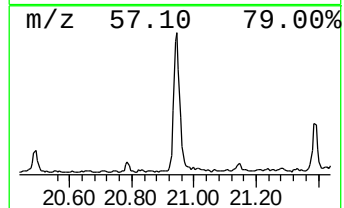
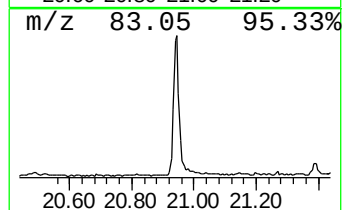
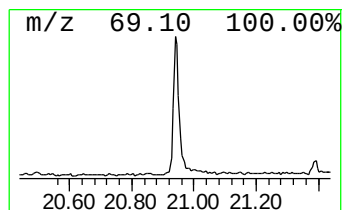
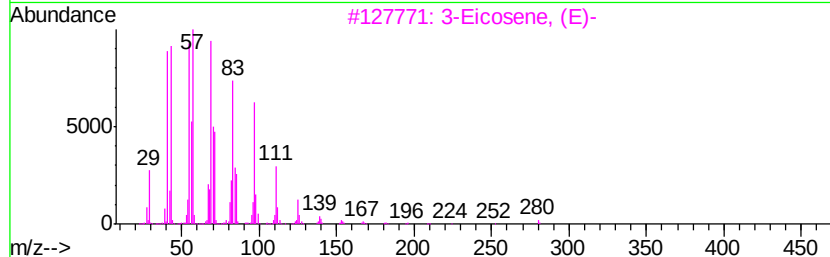
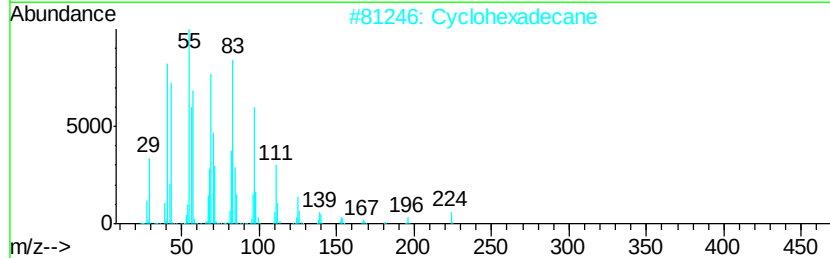
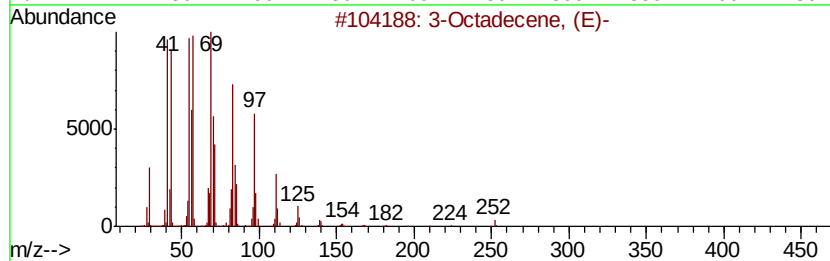
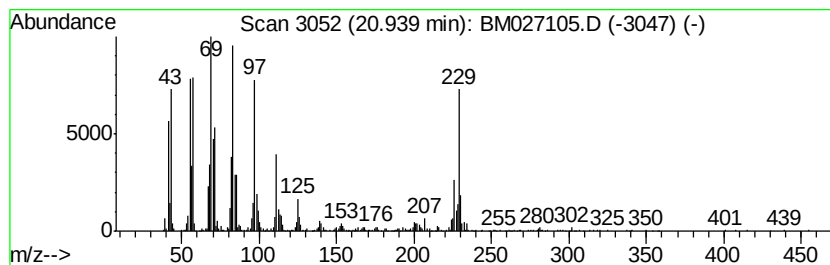
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.94 | 4.53 ng/ul | 823555 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 3-Octadecene, (E)-                  | 252 | C18H36      | 007206-19-1 | 96   |
| 2    |    | Cyclohexadecane                     | 224 | C16H32      | 000295-65-8 | 90   |
| 3    |    | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9 | 81   |
| 4    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 64   |
| 5    |    | E-14-Hexadecenal                    | 238 | C16H30O     | 330207-53-9 | 64   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081320\  
Data File : BM027105.D  
Acq On : 15 Aug 2020 02:22  
Operator : JU/CG  
Sample : L3631-16  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFMN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM080720MA.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, 1-m... | 17.93 | 4.3     | ng/ul | 447274   | 4                     | 17.02 | 2083550 | 20.0 |
| 4H-Cyclopenta[def... | 18.09 | 2.8     | ng/ul | 287422   | 4                     | 17.02 | 2083550 | 20.0 |
| Dieldrin             | 19.76 | 5.4     | ng/ul | 979369   | 5                     | 21.20 | 3634030 | 20.0 |
| (DEL) Alkane: Str... | 20.94 | 4.5     | ng/ul | 823555   | 5                     | 21.20 | 3634030 | 20.0 |