

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
 Data File : BN007828.D  
 Acq On : 24 Sep 2019 07:40  
 Operator : HP/JU  
 Sample : K4977-06  
 Misc : GCMS CONFIRMATION  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AT4

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.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         | 3.017       | 3             | 5           | 13           | rVB      | 448221         | 467636        | 5.82%           | 0.662%        |
| 2         | 3.093       | 15            | 18          | 21           | rVV      | 112420         | 118206        | 1.47%           | 0.167%        |
| 3         | 3.122       | 21            | 23          | 25           | rVV2     | 50316          | 52859         | 0.66%           | 0.075%        |
| 4         | 3.146       | 25            | 27          | 29           | rVV      | 75038          | 64256         | 0.80%           | 0.091%        |
| 5         | 3.181       | 29            | 33          | 38           | rVB      | 1387088        | 1342715       | 16.71%          | 1.900%        |
| 6         | 3.481       | 80            | 84          | 85           | rBV      | 46887          | 50436         | 0.63%           | 0.071%        |
| 7         | 3.505       | 85            | 88          | 96           | rVB      | 171056         | 202665        | 2.52%           | 0.287%        |
| 8         | 3.875       | 147           | 151         | 159          | rVB3     | 35920          | 58031         | 0.72%           | 0.082%        |
| 9         | 3.964       | 161           | 166         | 174          | rVB2     | 45673          | 73150         | 0.91%           | 0.104%        |
| 10        | 4.140       | 192           | 196         | 199          | rVV3     | 26634          | 36069         | 0.45%           | 0.051%        |
| 11        | 4.493       | 252           | 256         | 262          | rBV4     | 17435          | 26227         | 0.33%           | 0.037%        |
| 12        | 4.593       | 269           | 273         | 278          | rBV2     | 33618          | 45813         | 0.57%           | 0.065%        |
| 13        | 4.787       | 303           | 306         | 311          | rVB      | 23325          | 27061         | 0.34%           | 0.038%        |
| 14        | 5.193       | 370           | 375         | 378          | rBV5     | 24165          | 40155         | 0.50%           | 0.057%        |
| 15        | 6.681       | 623           | 628         | 639          | rVB2     | 32117          | 71138         | 0.89%           | 0.101%        |
| 16        | 6.869       | 654           | 660         | 666          | rVB8     | 10271          | 29597         | 0.37%           | 0.042%        |
| 17        | 7.687       | 792           | 799         | 809          | rBV      | 2375797        | 3634518       | 45.22%          | 5.144%        |
| 18        | 7.828       | 819           | 823         | 831          | rVB      | 41282          | 64769         | 0.81%           | 0.092%        |
| 19        | 10.252      | 1229          | 1235        | 1241         | rBV6     | 33757          | 68643         | 0.85%           | 0.097%        |
| 20        | 10.457      | 1258          | 1270        | 1283         | rBV      | 2960025        | 4987451       | 62.05%          | 7.059%        |
| 21        | 10.552      | 1283          | 1286        | 1290         | rVV5     | 14773          | 24940         | 0.31%           | 0.035%        |
| 22        | 10.604      | 1290          | 1295        | 1302         | rVB7     | 33252          | 71316         | 0.89%           | 0.101%        |
| 23        | 10.728      | 1308          | 1316        | 1322         | rBV9     | 43458          | 87949         | 1.09%           | 0.124%        |
| 24        | 10.822      | 1322          | 1332        | 1337         | rVV10    | 19671          | 43392         | 0.54%           | 0.061%        |
| 25        | 10.881      | 1337          | 1342        | 1347         | rVV4     | 32130          | 53163         | 0.66%           | 0.075%        |
| 26        | 10.934      | 1347          | 1351        | 1359         | rVV3     | 52174          | 96791         | 1.20%           | 0.137%        |
| 27        | 11.157      | 1384          | 1389        | 1396         | rVB4     | 27266          | 47071         | 0.59%           | 0.067%        |
| 28        | 11.228      | 1396          | 1401        | 1405         | rBV7     | 18006          | 32079         | 0.40%           | 0.045%        |
| 29        | 12.816      | 1666          | 1671        | 1675         | rVB5     | 34595          | 56758         | 0.71%           | 0.080%        |
| 30        | 13.128      | 1719          | 1724        | 1728         | rVB2     | 50185          | 71657         | 0.89%           | 0.101%        |
| 31        | 13.569      | 1792          | 1799        | 1805         | rVB8     | 19014          | 46603         | 0.58%           | 0.066%        |
| 32        | 13.798      | 1833          | 1838        | 1842         | rBV5     | 13625          | 29293         | 0.36%           | 0.041%        |
| 33        | 14.316      | 1919          | 1926        | 1935         | rBV      | 4412924        | 6439559       | 80.12%          | 9.114%        |
| 34        | 14.587      | 1968          | 1972        | 1977         | rVB6     | 19043          | 34136         | 0.42%           | 0.048%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 14.651 | 1977 | 1983 | 1986 | rBV2 | 30678   | 47739   | 0.59%   | 0.068%  |
| 36 | 15.575 | 2137 | 2140 | 2146 | rBV3 | 40546   | 57398   | 0.71%   | 0.081%  |
| 37 | 16.186 | 2239 | 2244 | 2249 | rBV3 | 16857   | 27298   | 0.34%   | 0.039%  |
| 38 | 16.598 | 2310 | 2314 | 2319 | rBV2 | 153018  | 210281  | 2.62%   | 0.298%  |
| 39 | 16.710 | 2328 | 2333 | 2339 | rBV6 | 23821   | 38585   | 0.48%   | 0.055%  |
| 40 | 16.851 | 2352 | 2357 | 2361 | rVB  | 18981   | 28767   | 0.36%   | 0.041%  |
| 41 | 16.945 | 2366 | 2373 | 2376 | rBV  | 555695  | 727454  | 9.05%   | 1.030%  |
| 42 | 16.981 | 2376 | 2379 | 2385 | rVB2 | 327071  | 442577  | 5.51%   | 0.626%  |
| 43 | 17.063 | 2385 | 2393 | 2405 | rBV  | 5210139 | 8037206 | 100.00% | 11.375% |
| 44 | 17.157 | 2407 | 2409 | 2413 | rVB2 | 19176   | 24637   | 0.31%   | 0.035%  |
| 45 | 17.245 | 2418 | 2424 | 2430 | rVV  | 519580  | 745623  | 9.28%   | 1.055%  |
| 46 | 17.522 | 2465 | 2471 | 2474 | rBV  | 203024  | 300611  | 3.74%   | 0.425%  |
| 47 | 17.551 | 2474 | 2476 | 2480 | rVB  | 107621  | 119886  | 1.49%   | 0.170%  |
| 48 | 17.669 | 2488 | 2496 | 2504 | rVB  | 1753927 | 3115960 | 38.77%  | 4.410%  |
| 49 | 17.786 | 2510 | 2516 | 2523 | rVB3 | 281547  | 470195  | 5.85%   | 0.665%  |
| 50 | 17.863 | 2524 | 2529 | 2533 | rBV2 | 70468   | 88971   | 1.11%   | 0.126%  |
| 51 | 17.916 | 2533 | 2538 | 2543 | rBV  | 607131  | 797070  | 9.92%   | 1.128%  |
| 52 | 17.969 | 2543 | 2547 | 2554 | rVB  | 281467  | 394092  | 4.90%   | 0.558%  |
| 53 | 18.081 | 2562 | 2566 | 2570 | rBV2 | 85540   | 115971  | 1.44%   | 0.164%  |
| 54 | 18.139 | 2570 | 2576 | 2582 | rVV  | 1165958 | 1548495 | 19.27%  | 2.192%  |
| 55 | 18.198 | 2582 | 2586 | 2590 | rVV  | 698433  | 904629  | 11.26%  | 1.280%  |
| 56 | 18.239 | 2590 | 2593 | 2598 | rVB  | 469561  | 600551  | 7.47%   | 0.850%  |
| 57 | 18.422 | 2618 | 2624 | 2629 | rBV  | 897888  | 1315884 | 16.37%  | 1.862%  |
| 58 | 18.469 | 2629 | 2632 | 2637 | rVV  | 303396  | 430091  | 5.35%   | 0.609%  |
| 59 | 18.522 | 2637 | 2641 | 2645 | rVV2 | 272120  | 371738  | 4.63%   | 0.526%  |
| 60 | 18.563 | 2645 | 2648 | 2651 | rVV  | 275321  | 365177  | 4.54%   | 0.517%  |
| 61 | 18.598 | 2651 | 2654 | 2661 | rVB  | 649816  | 826999  | 10.29%  | 1.170%  |
| 62 | 18.704 | 2667 | 2672 | 2677 | rVB  | 177565  | 234244  | 2.91%   | 0.332%  |
| 63 | 18.780 | 2681 | 2685 | 2689 | rBV4 | 19226   | 28661   | 0.36%   | 0.041%  |
| 64 | 18.851 | 2693 | 2697 | 2702 | rBV6 | 39090   | 51128   | 0.64%   | 0.072%  |
| 65 | 18.910 | 2702 | 2707 | 2711 | rBV  | 213724  | 316239  | 3.93%   | 0.448%  |
| 66 | 18.963 | 2711 | 2716 | 2718 | rVV  | 427561  | 621210  | 7.73%   | 0.879%  |
| 67 | 18.992 | 2718 | 2721 | 2728 | rVB2 | 791955  | 1114909 | 13.87%  | 1.578%  |
| 68 | 19.075 | 2731 | 2735 | 2740 | rBV3 | 127237  | 162576  | 2.02%   | 0.230%  |
| 69 | 19.198 | 2749 | 2756 | 2764 | rVV6 | 153406  | 324778  | 4.04%   | 0.460%  |
| 70 | 19.275 | 2764 | 2769 | 2776 | rVV  | 1002668 | 1380433 | 17.18%  | 1.954%  |
| 71 | 19.339 | 2776 | 2780 | 2785 | rVB  | 373714  | 462383  | 5.75%   | 0.654%  |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |        |         |
|-----|--------|------|------|------|------|---------|---------|--------|---------|
| 72  | 19.410 | 2790 | 2792 | 2796 | rVB5 | 43052   | 45422   | 0.57%  | 0.064%  |
| 73  | 19.469 | 2798 | 2802 | 2805 | rBV6 | 45260   | 63540   | 0.79%  | 0.090%  |
| 74  | 19.539 | 2810 | 2814 | 2819 | rBV  | 278851  | 345149  | 4.29%  | 0.489%  |
| 75  | 19.616 | 2823 | 2827 | 2831 | rVB  | 447177  | 527330  | 6.56%  | 0.746%  |
| 76  | 19.663 | 2831 | 2835 | 2839 | rBV  | 149476  | 193700  | 2.41%  | 0.274%  |
| 77  | 19.722 | 2839 | 2845 | 2850 | rVV  | 965149  | 1274842 | 15.86% | 1.804%  |
| 78  | 19.869 | 2863 | 2870 | 2872 | rBV5 | 118253  | 245215  | 3.05%  | 0.347%  |
| 79  | 19.939 | 2880 | 2882 | 2885 | rVB4 | 40708   | 39632   | 0.49%  | 0.056%  |
| 80  | 19.992 | 2885 | 2891 | 2895 | rBV2 | 446970  | 581020  | 7.23%  | 0.822%  |
| 81  | 20.039 | 2895 | 2899 | 2906 | rVB  | 934324  | 1088975 | 13.55% | 1.541%  |
| 82  | 20.116 | 2910 | 2912 | 2915 | rVB4 | 45163   | 49191   | 0.61%  | 0.070%  |
| 83  | 20.269 | 2933 | 2938 | 2942 | rBV  | 565179  | 676578  | 8.42%  | 0.958%  |
| 84  | 20.322 | 2943 | 2947 | 2949 | rVV  | 270559  | 371478  | 4.62%  | 0.526%  |
| 85  | 20.345 | 2949 | 2951 | 2956 | rVB2 | 378319  | 414365  | 5.16%  | 0.586%  |
| 86  | 20.398 | 2956 | 2960 | 2962 | rBV  | 225294  | 278214  | 3.46%  | 0.394%  |
| 87  | 20.422 | 2962 | 2964 | 2968 | rVB3 | 132269  | 141818  | 1.76%  | 0.201%  |
| 88  | 20.586 | 2985 | 2992 | 3000 | rVB  | 666193  | 1117709 | 13.91% | 1.582%  |
| 89  | 20.892 | 3040 | 3044 | 3048 | rVB  | 229839  | 278156  | 3.46%  | 0.394%  |
| 90  | 20.998 | 3059 | 3062 | 3068 | rBV4 | 113952  | 149937  | 1.87%  | 0.212%  |
| 91  | 21.139 | 3084 | 3086 | 3091 | rVB3 | 93592   | 97434   | 1.21%  | 0.138%  |
| 92  | 21.257 | 3101 | 3106 | 3111 | rBV  | 6099900 | 7922072 | 98.57% | 11.213% |
| 93  | 21.374 | 3123 | 3126 | 3133 | rBV2 | 86023   | 123782  | 1.54%  | 0.175%  |
| 94  | 21.433 | 3133 | 3136 | 3139 | rBV2 | 128154  | 127943  | 1.59%  | 0.181%  |
| 95  | 21.869 | 3207 | 3210 | 3215 | rVB  | 158732  | 184870  | 2.30%  | 0.262%  |
| 96  | 22.327 | 3286 | 3288 | 3293 | rVB  | 178138  | 199925  | 2.49%  | 0.283%  |
| 97  | 22.833 | 3371 | 3374 | 3380 | rVB  | 269598  | 379138  | 4.72%  | 0.537%  |
| 98  | 23.392 | 3466 | 3469 | 3475 | rVB  | 177919  | 268859  | 3.35%  | 0.381%  |
| 99  | 23.468 | 3476 | 3482 | 3495 | rVB2 | 4118330 | 7601261 | 94.58% | 10.758% |
| 100 | 24.033 | 3575 | 3578 | 3584 | rVB  | 266460  | 419577  | 5.22%  | 0.594%  |

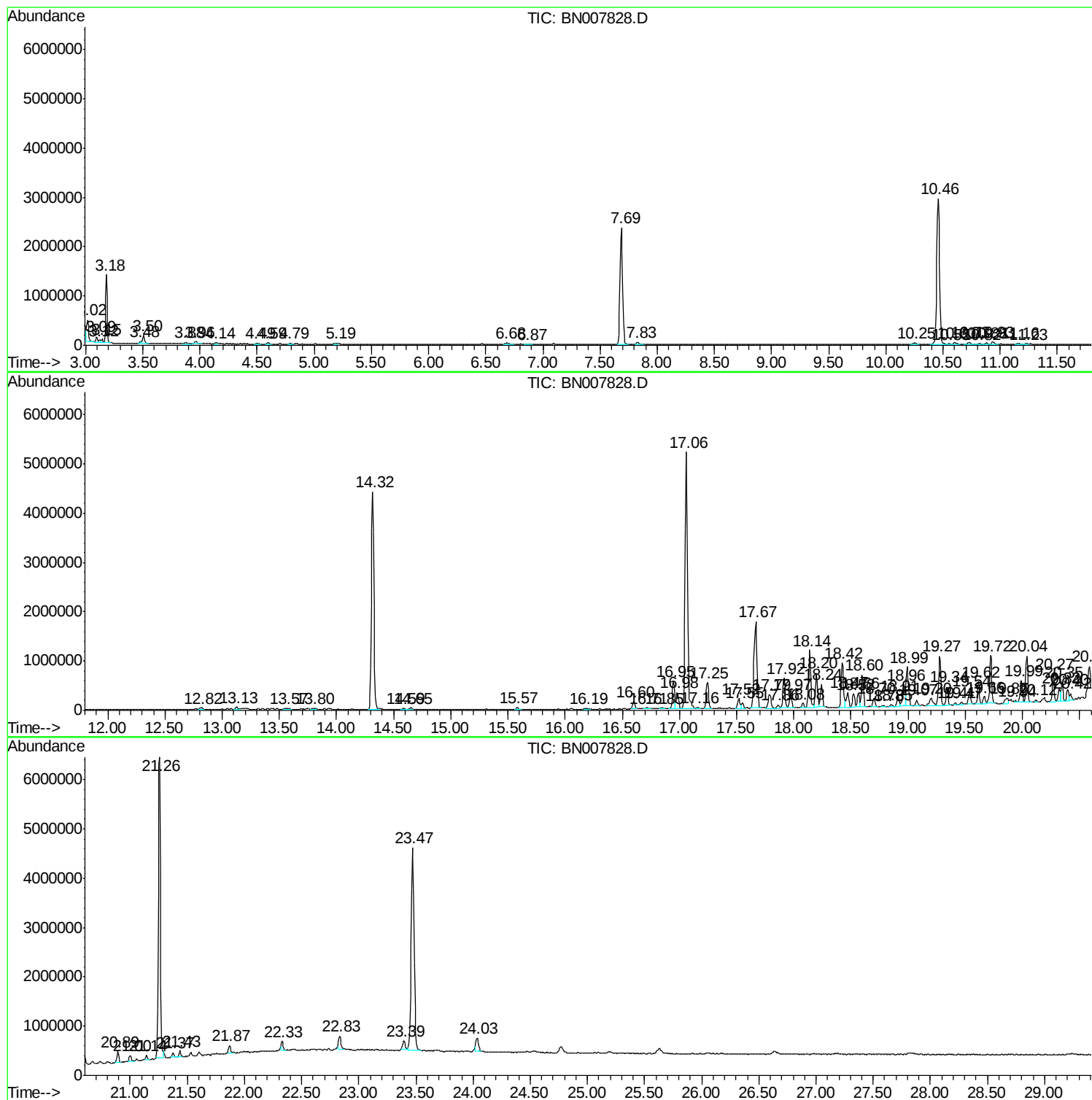
Sum of corrected areas: 70653680

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

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



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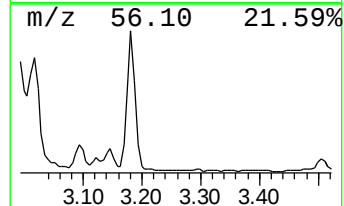
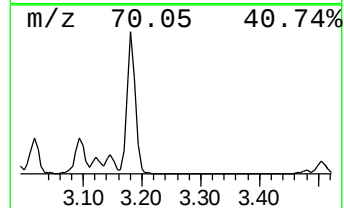
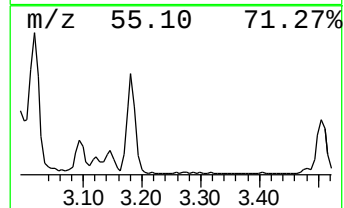
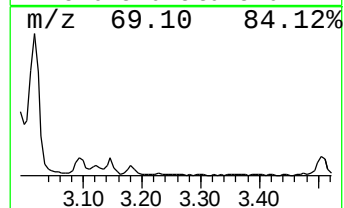
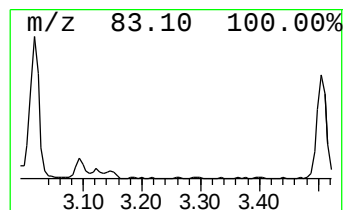
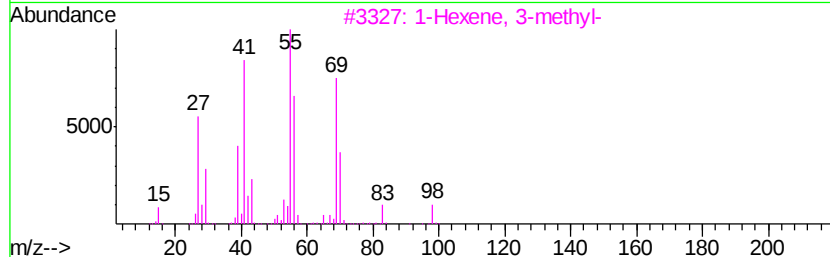
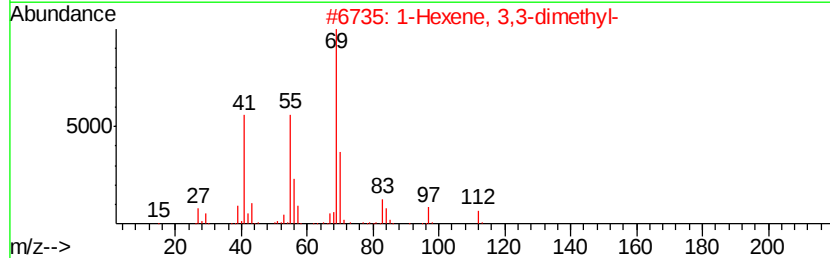
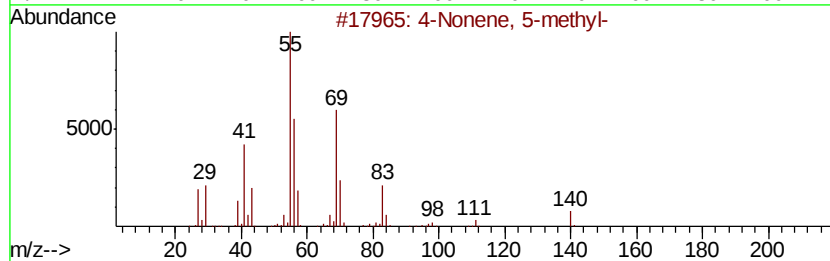
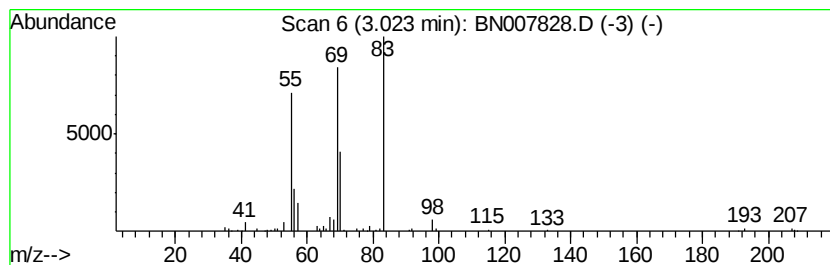
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Cyclic3.02 Concentration Rank 10

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 3.02 | 2.57 ng/ul | 467636 | 1,4-Dichlorobenzene-d4 | 7.69 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | 4-Nonene, 5-methyl-         | 140 | C10H20  | 015918-07-7 | 50   |
| 2    |    |   | 1-Hexene, 3,3-dimethyl-     | 112 | C8H16   | 003404-77-1 | 47   |
| 3    |    |   | 1-Hexene, 3-methyl-         | 98  | C7H14   | 003404-61-3 | 42   |
| 4    |    |   | (S)-(+)-5-Methyl-1-heptanol | 130 | C8H18O  | 057803-73-3 | 40   |
| 5    |    |   | 2-Decene, 2-methyl-         | 154 | C11H22  | 023381-92-2 | 38   |



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Quant Title : SVOA CALIBRATION

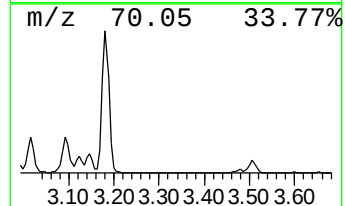
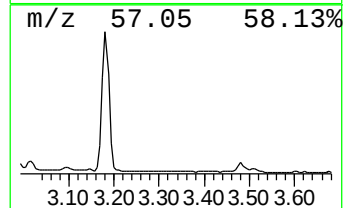
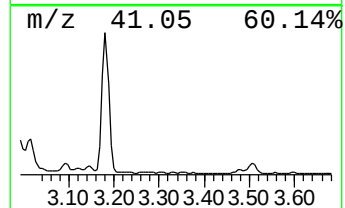
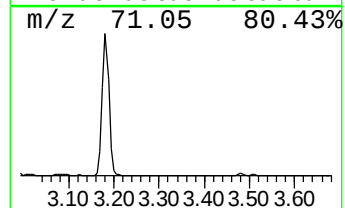
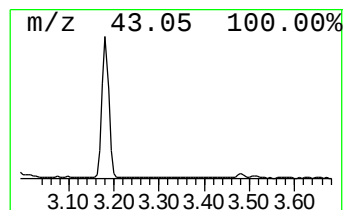
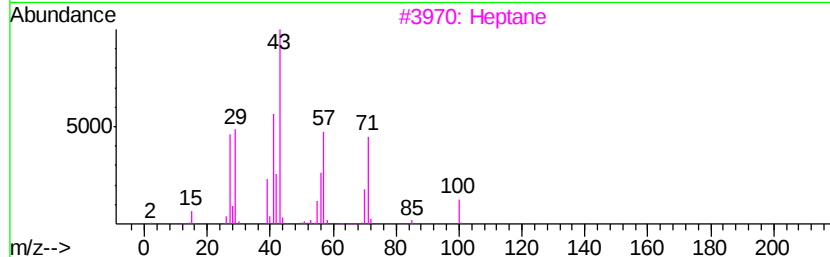
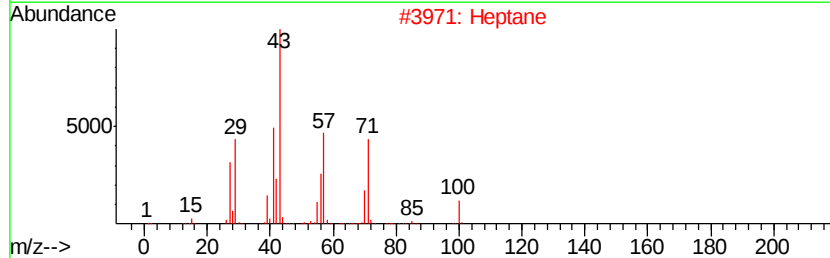
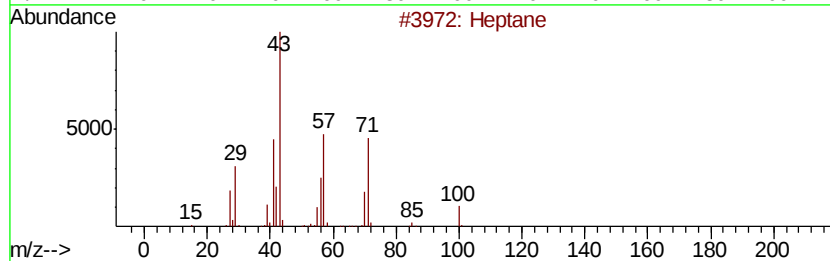
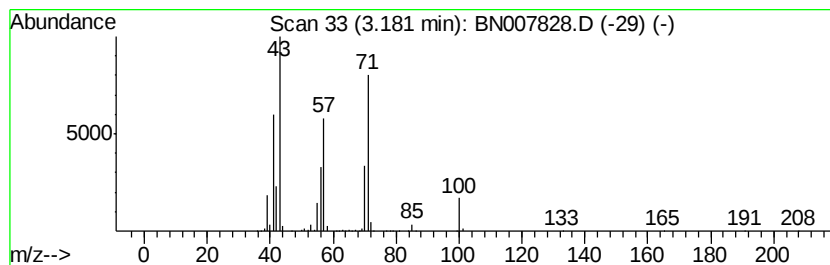
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc    | Area    | Relative to ISTD       | R.T. |
|------|------------|---------|------------------------|------|
| 3.18 | 7.39 ng/ul | 1342720 | 1,4-Dichlorobenzene-d4 | 7.69 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane                       | 100 | C7H16   | 000142-82-5 | 91   |
| 2    |    | Heptane                       | 100 | C7H16   | 000142-82-5 | 91   |
| 3    |    | Heptane                       | 100 | C7H16   | 000142-82-5 | 91   |
| 4    |    | Heptane                       | 100 | C7H16   | 000142-82-5 | 64   |
| 5    |    | Acetaldehyde, propylhydrazone | 100 | C5H12N2 | 007422-88-0 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

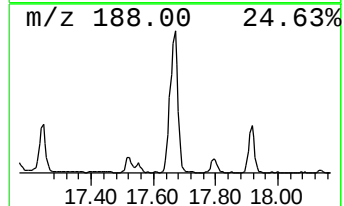
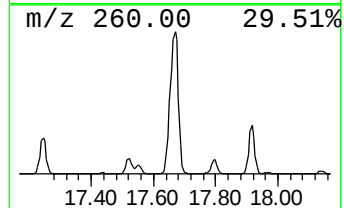
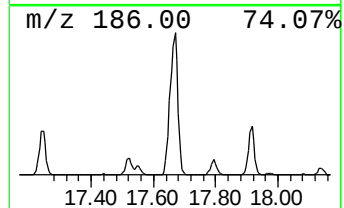
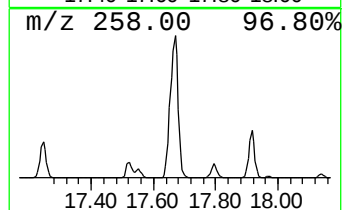
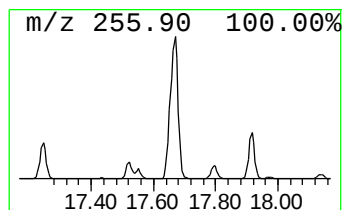
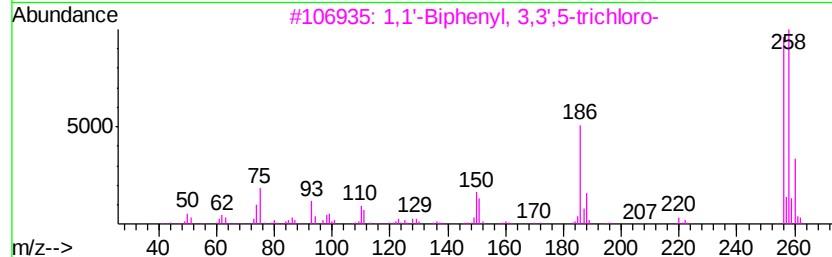
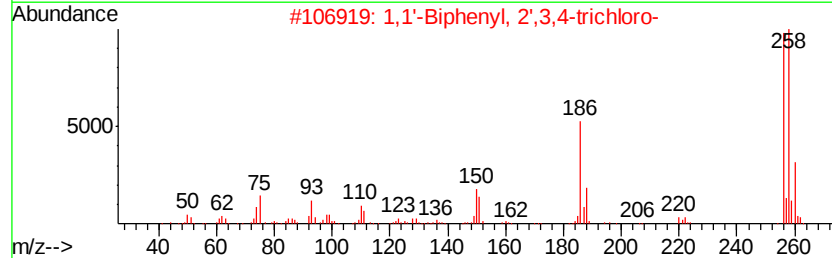
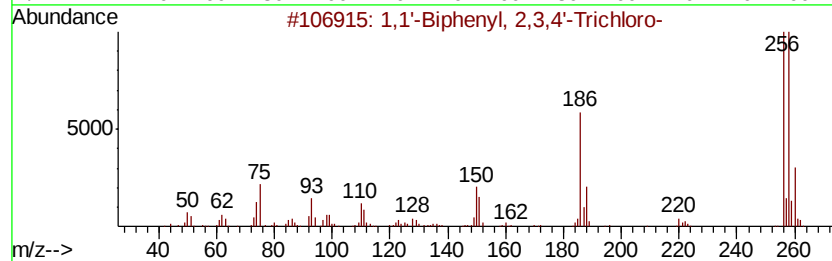
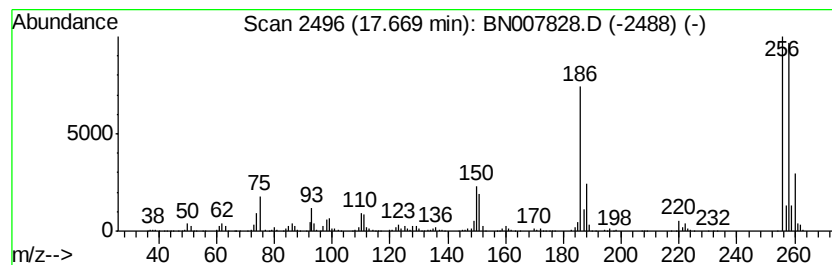
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 1,1'-Biphenyl, 2,3,4'-Trich... Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 17.67 | 7.75 ng/ul | 3115960 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,3,4'-Trichloro- | 256 | C12H7Cl3 | 038444-85-8 | 99   |
| 2    |    | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99   |
| 3    |    | 1,1'-Biphenyl, 3,3',5-trichloro- | 256 | C12H7Cl3 | 038444-87-0 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,4',5-trichloro- | 256 | C12H7Cl3 | 016606-02-3 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

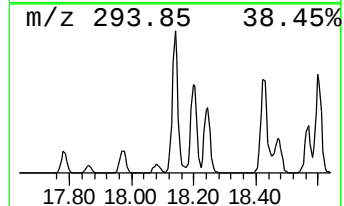
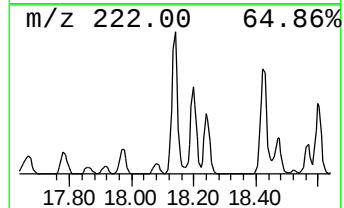
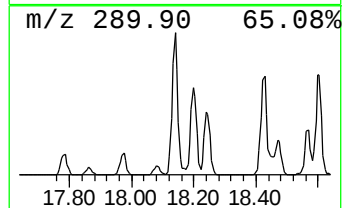
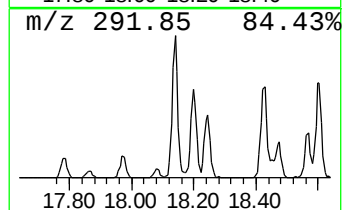
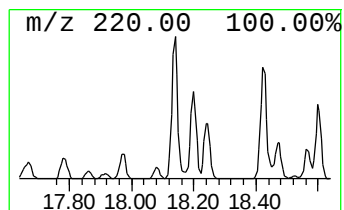
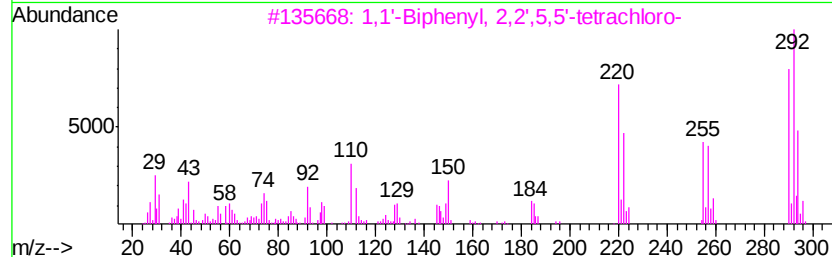
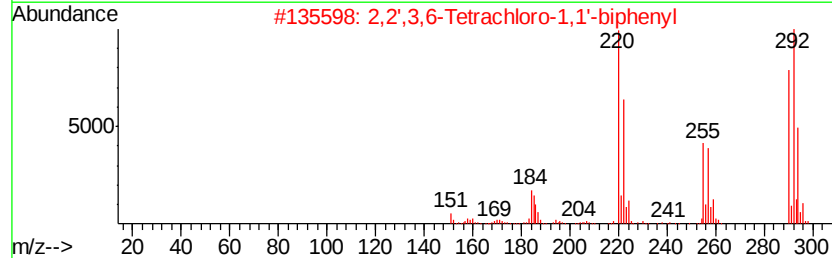
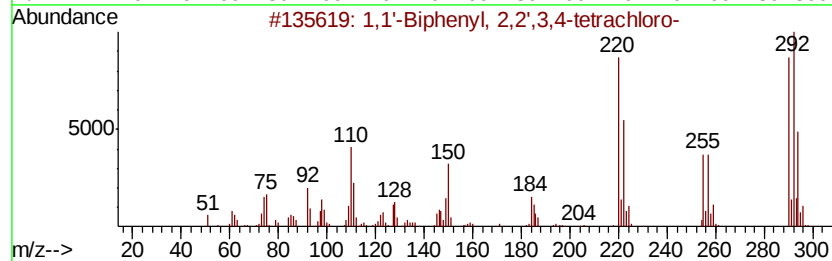
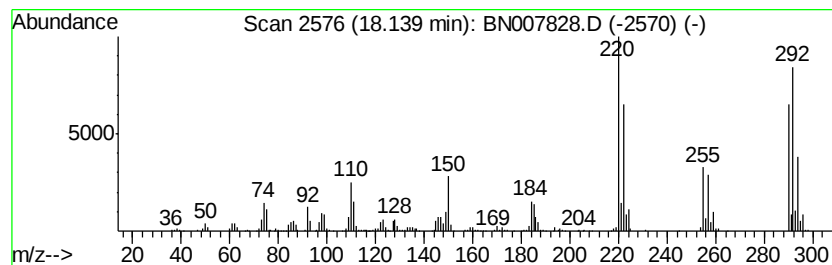
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 1,1'-Biphenyl, 2,2',3,4-tet... Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 18.14 | 3.85 ng/ul | 1548500 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99   |
| 2    |    | 2,2',3,6-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4 | 070362-45-7 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99   |
| 5    |    | 2,2',4,6'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 068194-04-7 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

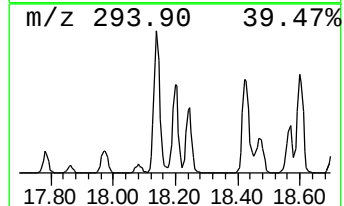
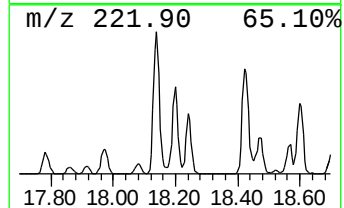
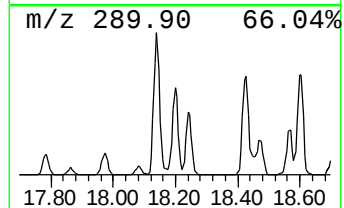
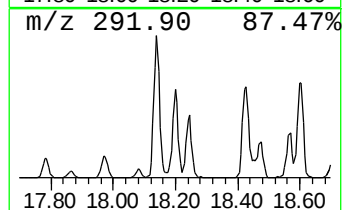
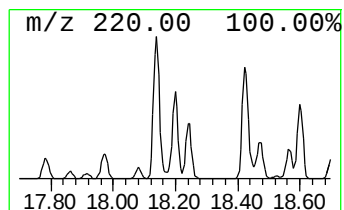
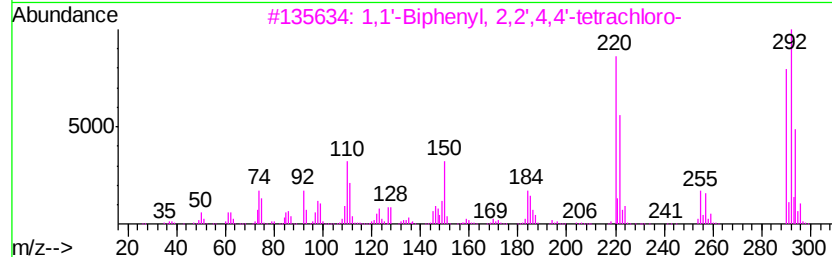
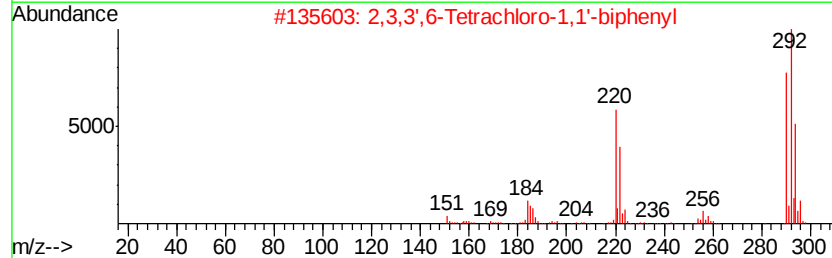
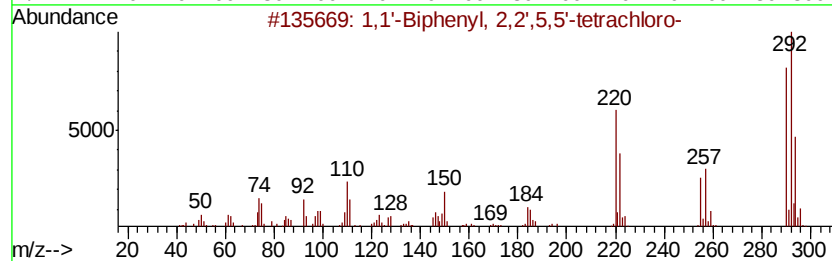
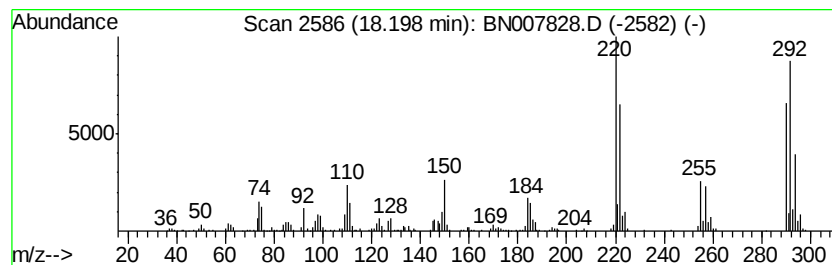
Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 1,1'-Biphenyl, 2,2',5,5'-te... Concentration Rank 11

| R.T.      | EstConc                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|--------|------------------|-------------|------|
| 18.20     | 2.25 ng/ul                            | 904629 | Phenanthrene-d10 | 17.06       |      |
| Hit# of 5 | Tentative ID                          | MW     | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2,2',5,5'-tetrachloro- | 290    | C12H6Cl4         | 035693-99-3 | 99   |
| 2         | 2,3,3',6-Tetrachloro-1,1'-biphenyl    | 290    | C12H6Cl4         | 074472-33-6 | 99   |
| 3         | 1,1'-Biphenyl, 2,2',4,4'-tetrachloro- | 290    | C12H6Cl4         | 002437-79-8 | 99   |
| 4         | 2,2',4,6'-Tetrachloro-1,1'-biphenyl   | 290    | C12H6Cl4         | 068194-04-7 | 99   |
| 5         | Biphenyl, 2,4,4',5-tetrachloro-       | 290    | C12H6Cl4         | 032690-93-0 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

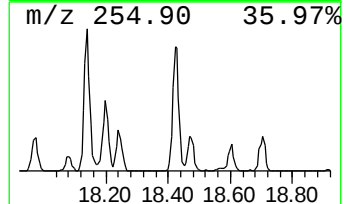
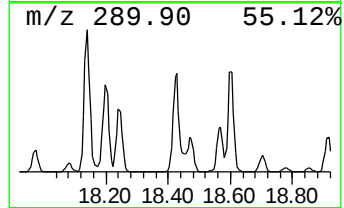
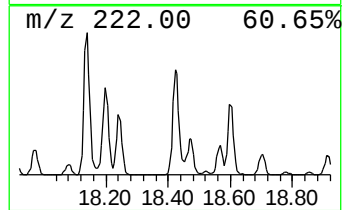
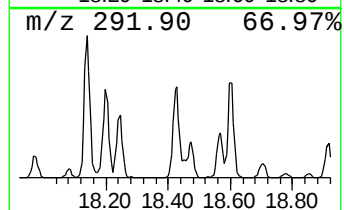
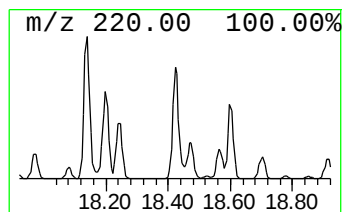
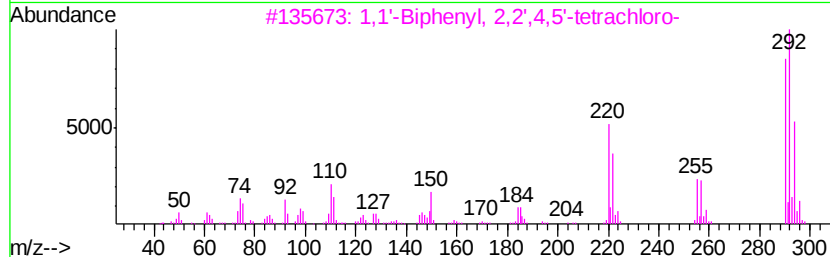
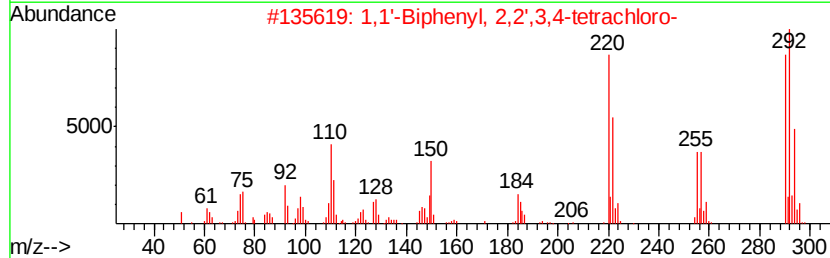
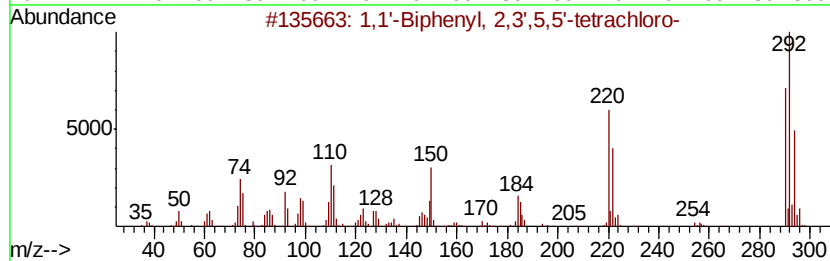
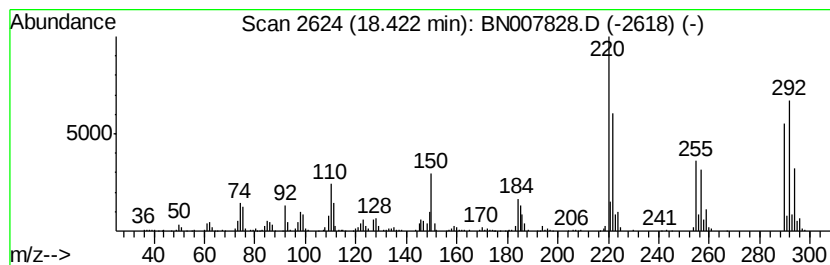
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 1,1'-Biphenyl, 2,3',5,5'-te... Concentration Rank 5

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 18.42 | 3.27 ng/ul | 1315880 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,3',5,5'-tetrach... | 290 | C12H6Cl4 | 041464-42-0 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',4,5'-tetrach... | 290 | C12H6Cl4 | 041464-40-8 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,4'-tetrach... | 290 | C12H6Cl4 | 036559-22-5 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

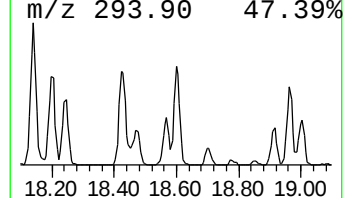
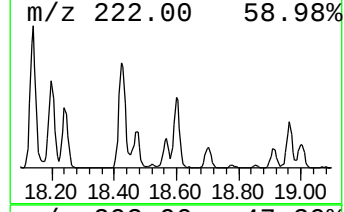
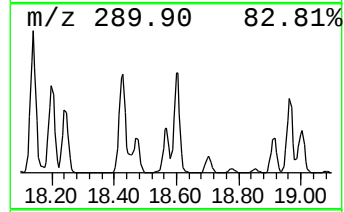
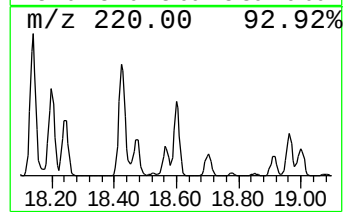
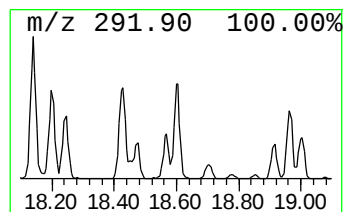
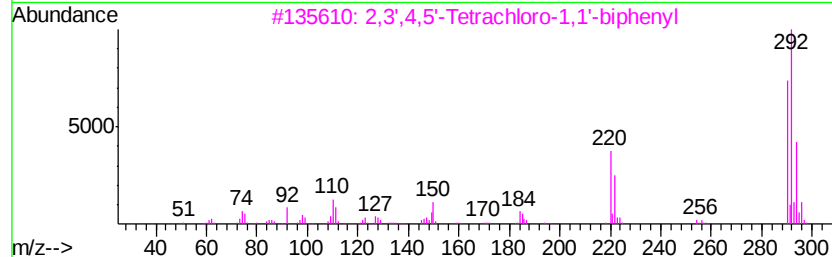
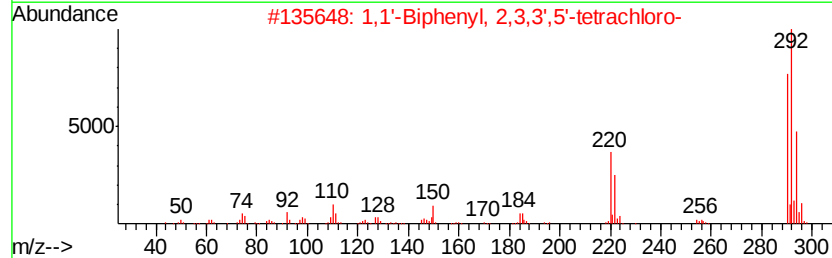
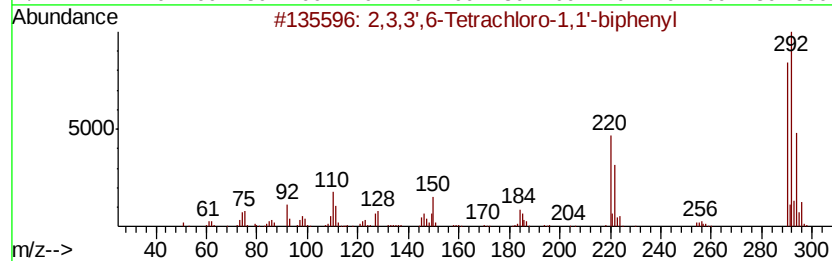
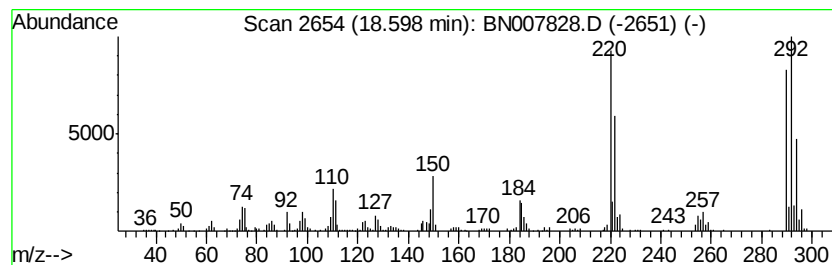
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 2,3,3',6-Tetrachloro-1,1'-b... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.60 | 2.06 ng/ul | 826999 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2,3,3',6-Tetrachloro-1,1'-biphenyl    | 290 | C12H6Cl4 | 074472-33-6 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,3,3',5'-tetrachloro- | 290 | C12H6Cl4 | 041464-49-7 | 99   |
| 3    |    | 2,3',4,5'-Tetrachloro-1,1'-biphenyl   | 290 | C12H6Cl4 | 073575-52-7 | 99   |
| 4    |    | 1,1'-Biphenyl, 3,3',5,5'-tetrachloro- | 290 | C12H6Cl4 | 033284-52-5 | 99   |
| 5    |    | Biphenyl, 2,4,4',5-tetrachloro-       | 290 | C12H6Cl4 | 032690-93-0 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

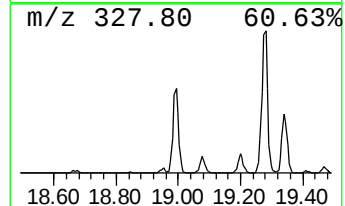
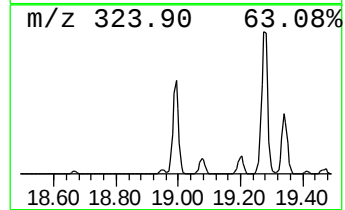
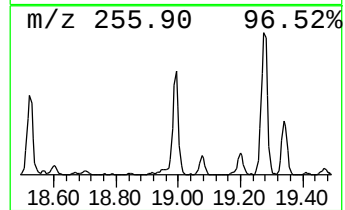
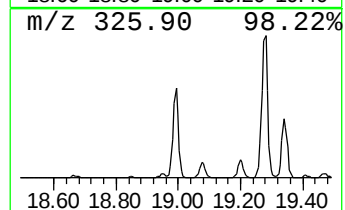
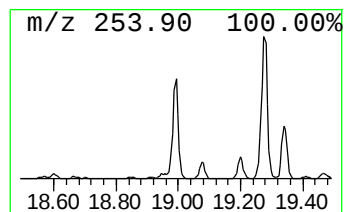
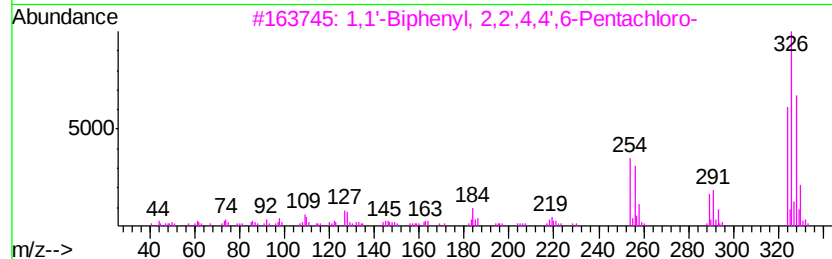
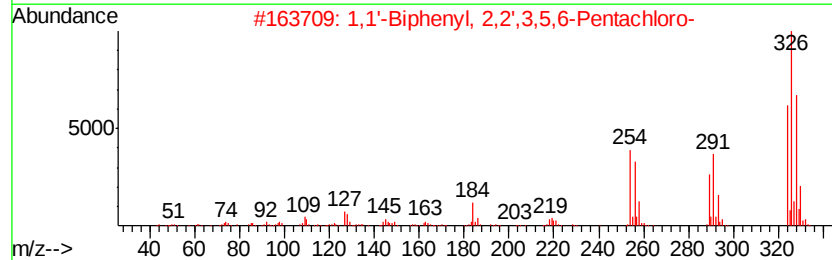
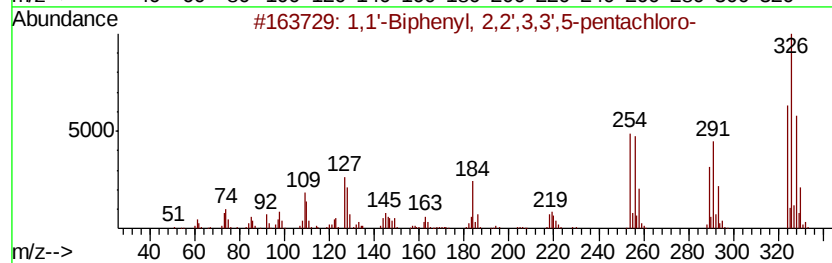
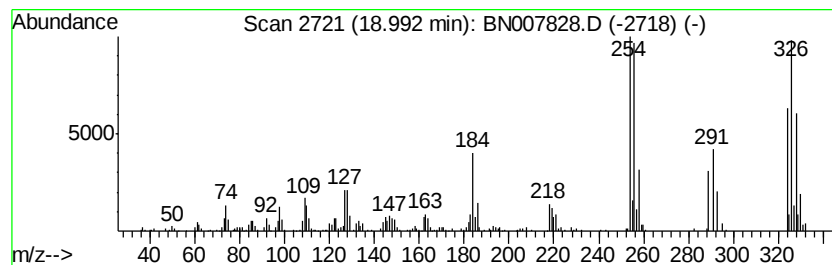
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 1,1'-Biphenyl, 2,2',3,3',5-... Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 18.99 | 2.77 ng/ul | 1114910 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',3,3',5-penta... | 324 | C12H5Cl5 | 060145-20-2 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,5,6-Pentac... | 324 | C12H5Cl5 | 073575-56-1 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',4,4',6-Penta... | 324 | C12H5Cl5 | 039485-83-1 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',4,5',6-Penta... | 324 | C12H5Cl5 | 060145-21-3 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,2',3,5',6-penta... | 324 | C12H5Cl5 | 038379-99-6 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

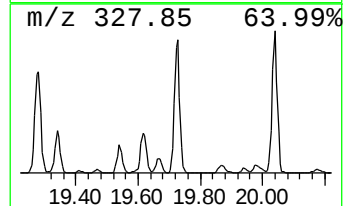
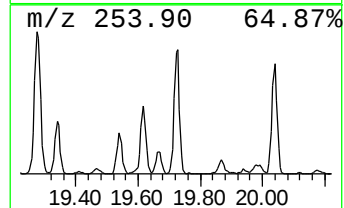
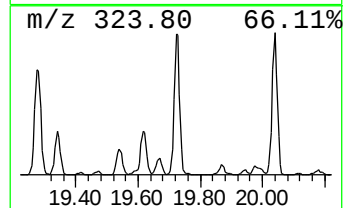
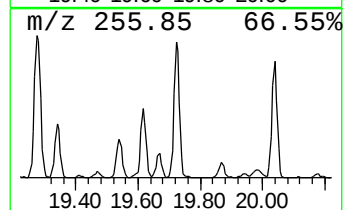
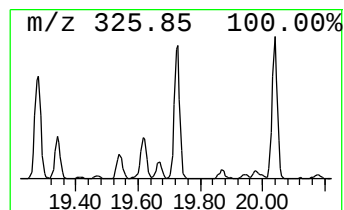
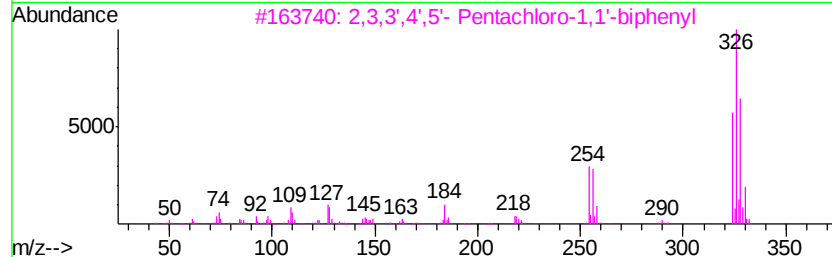
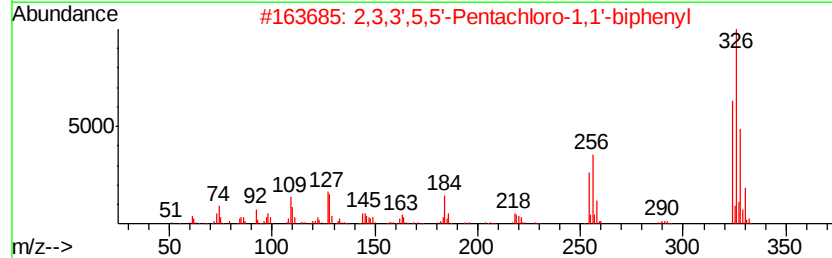
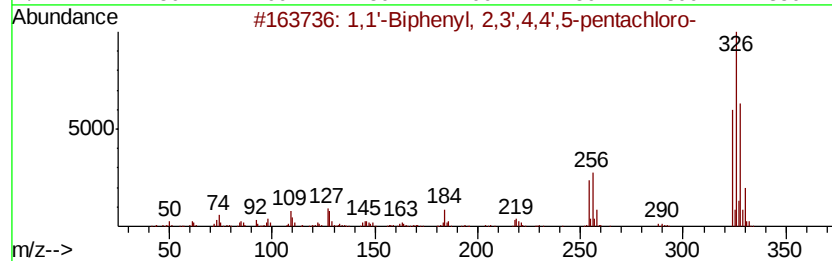
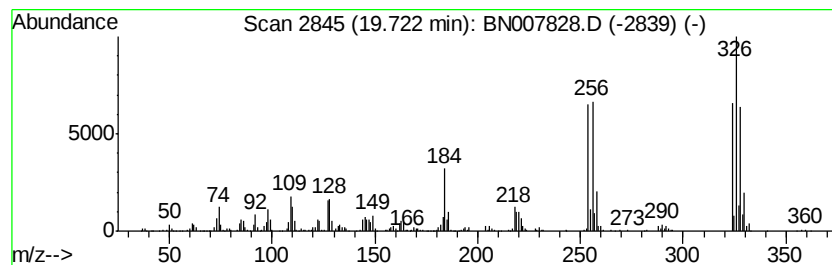
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 1,1'-Biphenyl, 2,3',4,4',5-... Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.72 | 3.22 ng/ul | 1274840 | Chrysene-d12     | 21.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 99   |
| 2    |    | 2,3,3',5,5'-Pentachloro-1,1'-bip... | 324 | C12H5Cl5 | 039635-32-0 | 99   |
| 3    |    | 2,3,3',4',5'- Pentachloro-1,1'-b... | 324 | C12H5Cl5 | 076842-07-4 | 99   |
| 4    |    | 3,3',4,5,5'-Pentachloro-1,1'-bip... | 324 | C12H5Cl5 | 039635-33-1 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,3,3',4',6-penta... | 324 | C12H5Cl5 | 038380-03-9 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN092319\  
Data File : BN007828.D  
Acq On : 24 Sep 2019 07:40  
Operator : HP/JU  
Sample : K4977-06  
Misc : GCMS CONFIRMATION  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.M  
Quant Title : SVOA CALIBRATION

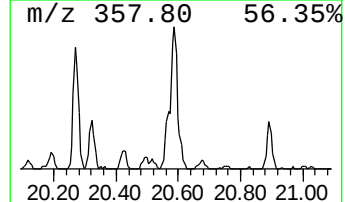
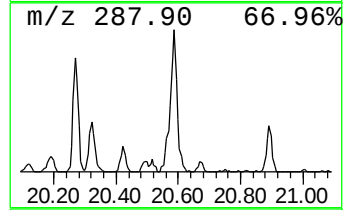
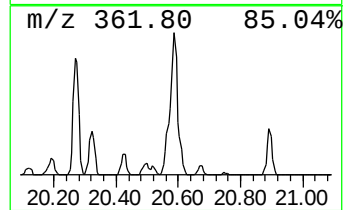
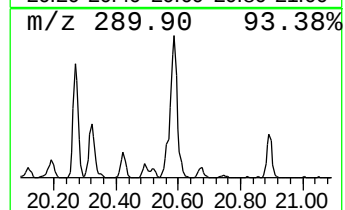
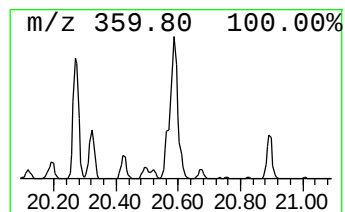
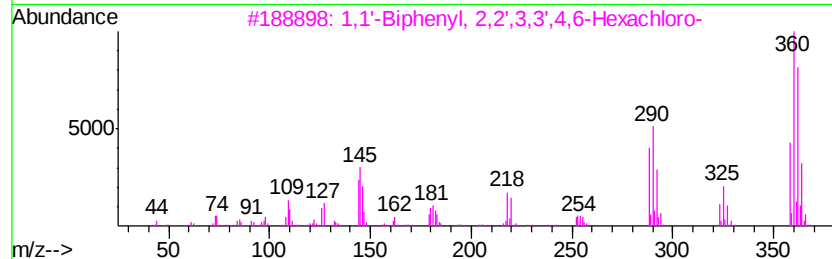
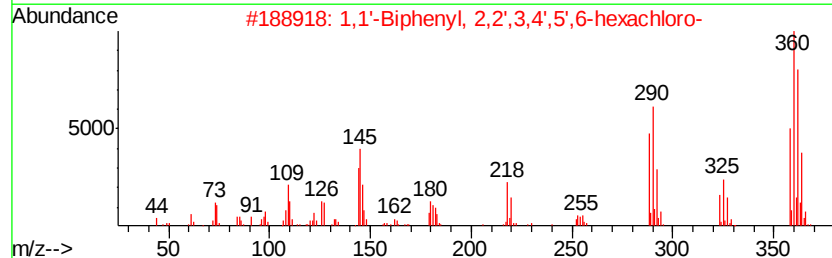
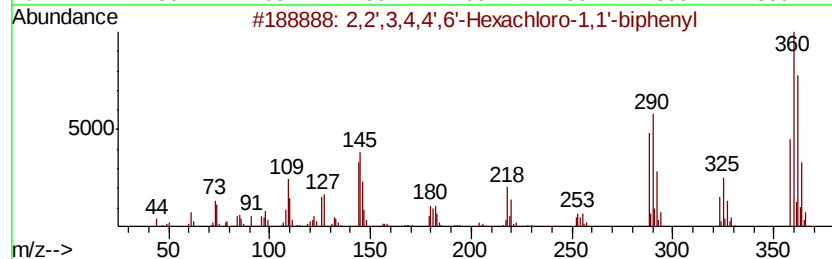
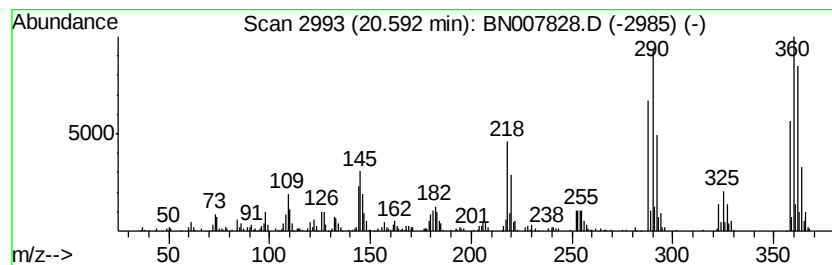
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 2,2',3,4,4',6'-Hexachloro-1... Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.59 | 2.82 ng/ul | 1117710 | Chrysene-d12     | 21.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2,2',3,4,4',6'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 059291-64-4 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,4',5',6-he... | 358 | C12H4Cl6 | 038380-04-0 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,3',4,6-Hex... | 358 | C12H4Cl6 | 061798-70-7 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,4',5,5'-he... | 358 | C12H4Cl6 | 051908-16-8 | 99   |
| 5    |    | 2,3,3',4',5',6-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 074472-45-0 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN092319\  
 Data File : BN007828.D  
 Acq On : 24 Sep 2019 07:40  
 Operator : HP/JU  
 Sample : K4977-06  
 Misc : GCMS CONFIRMATION  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AT4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091619MA.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 |
| (DEL) Alkane: Cyc... | 3.02  | 2.6     | ng/ul | 467636   | 1                     | 7.69  | 3634520 | 20.0 |
| (DEL) Alkane: Str... | 3.18  | 7.4     | ng/ul | 1342720  | 1                     | 7.69  | 3634520 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.67 | 7.8     | ng/ul | 3115960  | 4                     | 17.06 | 8037210 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.14 | 3.9     | ng/ul | 1548500  | 4                     | 17.06 | 8037210 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.20 | 2.3     | ng/ul | 904629   | 4                     | 17.06 | 8037210 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.42 | 3.3     | ng/ul | 1315880  | 4                     | 17.06 | 8037210 | 20.0 |
| 2,3,3',6-Tetrachl... | 18.60 | 2.1     | ng/ul | 826999   | 4                     | 17.06 | 8037210 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.99 | 2.8     | ng/ul | 1114910  | 4                     | 17.06 | 8037210 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.72 | 3.2     | ng/ul | 1274840  | 5                     | 21.26 | 7922070 | 20.0 |
| 2,2',3,4,4',6'-He... | 20.59 | 2.8     | ng/ul | 1117710  | 5                     | 21.26 | 7922070 | 20.0 |