

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
 Data File : BM014424.D  
 Acq On : 01 Mar 2018 05:09  
 Operator : SJ/JU  
 Sample : J1646-02  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5W8

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 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:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM021418.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         | 9.934       | 1173          | 1181        | 1198         | rBV      | 698149         | 1513908       | 1.05%           | 0.499%        |
| 2         | 13.592      | 1798          | 1803        | 1808         | rBV      | 1504903        | 2059345       | 1.42%           | 0.679%        |
| 3         | 13.863      | 1839          | 1849        | 1860         | rBV      | 1836674        | 3056478       | 2.11%           | 1.007%        |
| 4         | 14.175      | 1893          | 1902        | 1909         | rBV2     | 1289422        | 2245701       | 1.55%           | 0.740%        |
| 5         | 15.175      | 2067          | 2072        | 2077         | rBV      | 2187111        | 3081031       | 2.13%           | 1.015%        |
| 6         | 16.933      | 2366          | 2371        | 2375         | rBV      | 1586203        | 2375205       | 1.64%           | 0.783%        |
| 7         | 16.980      | 2375          | 2379        | 2383         | rVB      | 3097279        | 3967034       | 2.74%           | 1.307%        |
| 8         | 17.033      | 2383          | 2388        | 2392         | rBV      | 2574146        | 3463539       | 2.39%           | 1.141%        |
| 9         | 17.857      | 2525          | 2528        | 2534         | rVB      | 1224501        | 1658619       | 1.15%           | 0.547%        |
| 10        | 18.375      | 2612          | 2616        | 2622         | rVB      | 1421060        | 1919402       | 1.33%           | 0.632%        |
| 11        | 19.010      | 2720          | 2724        | 2731         | rBV      | 4723693        | 6609990       | 4.57%           | 2.178%        |
| 12        | 19.151      | 2745          | 2748        | 2753         | rVB4     | 1098393        | 1481172       | 1.02%           | 0.488%        |
| 13        | 19.351      | 2777          | 2782        | 2784         | rBV2     | 3664803        | 5176301       | 3.58%           | 1.706%        |
| 14        | 19.380      | 2784          | 2787        | 2791         | rVB      | 4450097        | 5216557       | 3.61%           | 1.719%        |
| 15        | 19.492      | 2802          | 2806        | 2810         | rVB      | 1507791        | 1804159       | 1.25%           | 0.594%        |
| 16        | 20.010      | 2890          | 2894        | 2898         | rVV      | 10764432       | 11963165      | 8.27%           | 3.942%        |
| 17        | 20.204      | 2923          | 2927        | 2929         | rBV      | 2016859        | 2465001       | 1.70%           | 0.812%        |
| 18        | 20.233      | 2929          | 2932        | 2939         | rVB2     | 3382754        | 4221430       | 2.92%           | 1.391%        |
| 19        | 20.369      | 2952          | 2955        | 2959         | rVB      | 1600956        | 1881664       | 1.30%           | 0.620%        |
| 20        | 20.451      | 2964          | 2969        | 2977         | rVB      | 18094405       | 20555713      | 14.21%          | 6.773%        |
| 21        | 20.874      | 3038          | 3041        | 3049         | rVB5     | 1525733        | 2073080       | 1.43%           | 0.683%        |
| 22        | 21.098      | 3071          | 3079        | 3082         | rBV2     | 104807970      | 144670209     | 100.00%         | 47.670%       |
| 23        | 21.151      | 3082          | 3088        | 3093         | rVV3     | 2761255        | 6630294       | 4.58%           | 2.185%        |
| 24        | 21.192      | 3093          | 3095        | 3100         | rVB      | 2315970        | 2675811       | 1.85%           | 0.882%        |
| 25        | 21.374      | 3122          | 3126        | 3129         | rBV      | 4254527        | 5423696       | 3.75%           | 1.787%        |
| 26        | 21.415      | 3129          | 3133        | 3137         | rVB      | 21687893       | 25306733      | 17.49%          | 8.339%        |
| 27        | 21.463      | 3138          | 3141        | 3145         | rVB2     | 1282492        | 1451524       | 1.00%           | 0.478%        |
| 28        | 21.627      | 3166          | 3169        | 3173         | rBV      | 3928536        | 4553414       | 3.15%           | 1.500%        |
| 29        | 22.286      | 3278          | 3281        | 3287         | rVB2     | 2055053        | 3073142       | 2.12%           | 1.013%        |
| 30        | 22.704      | 3348          | 3352        | 3362         | rVB      | 1899202        | 5700330       | 3.94%           | 1.878%        |
| 31        | 22.998      | 3398          | 3402        | 3408         | rVB      | 1900079        | 3152159       | 2.18%           | 1.039%        |
| 32        | 25.592      | 3838          | 3843        | 3857         | rVB      | 2388876        | 6329376       | 4.38%           | 2.086%        |
| 33        | 26.850      | 4050          | 4057        | 4067         | rVB2     | 1918770        | 5728380       | 3.96%           | 1.888%        |

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Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Integration Parameters: LSCINT.P  
Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 1 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM021418.M  
Title : SVOA CALIBRATION

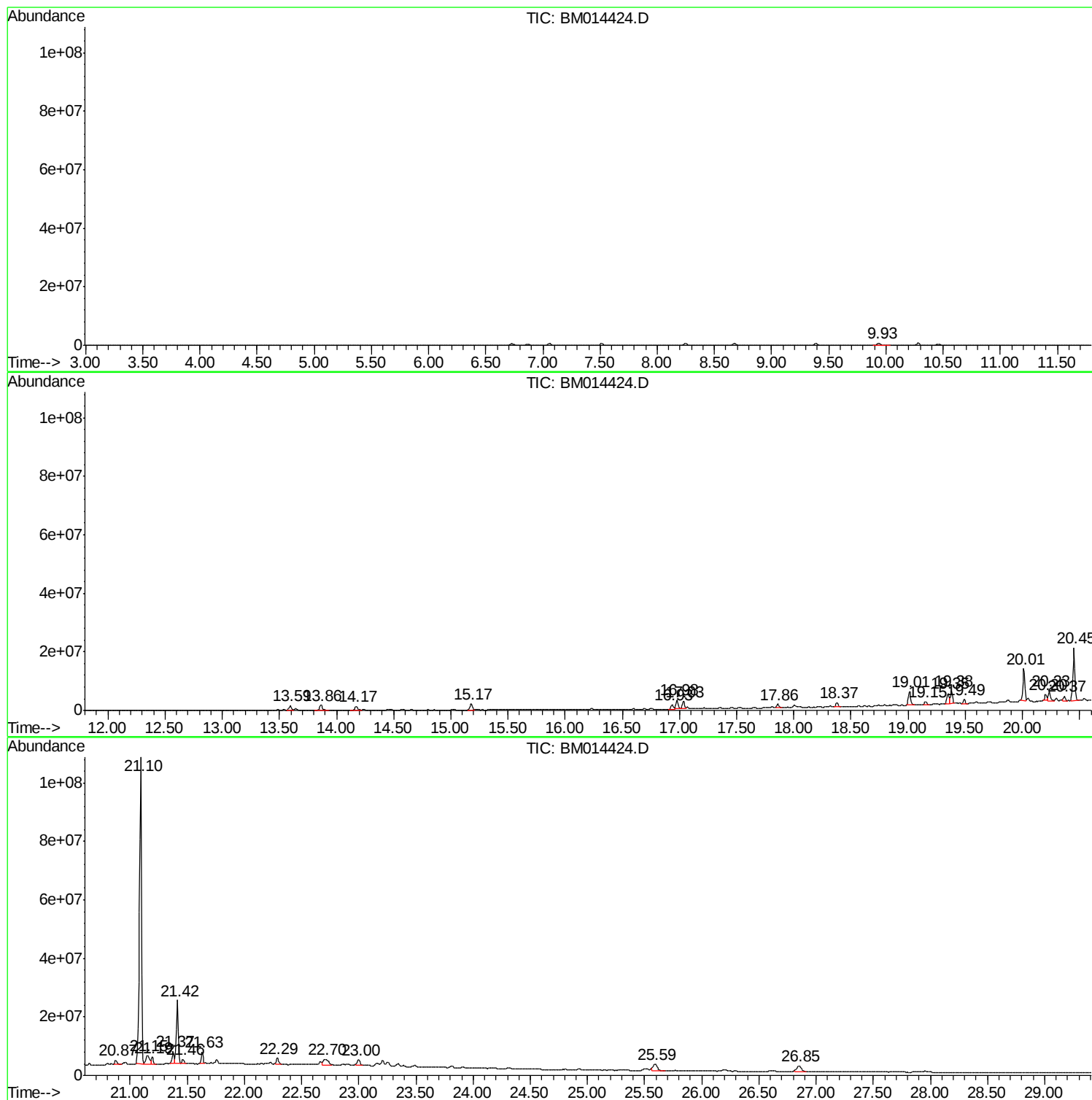
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

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



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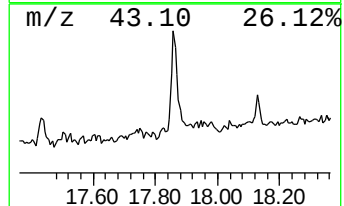
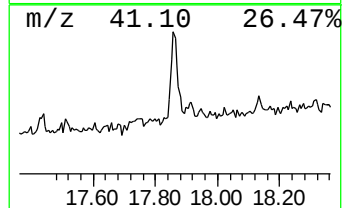
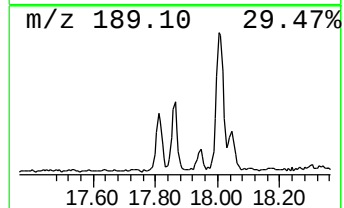
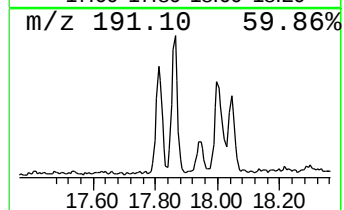
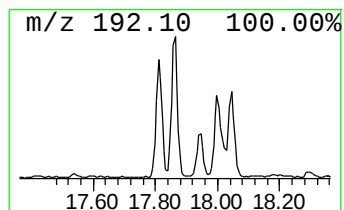
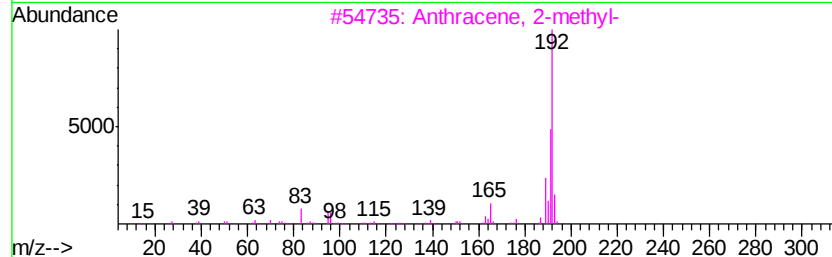
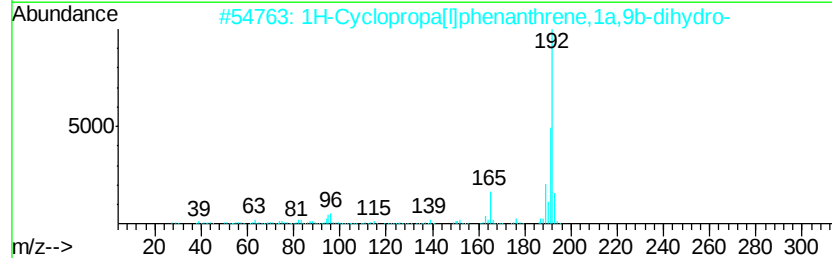
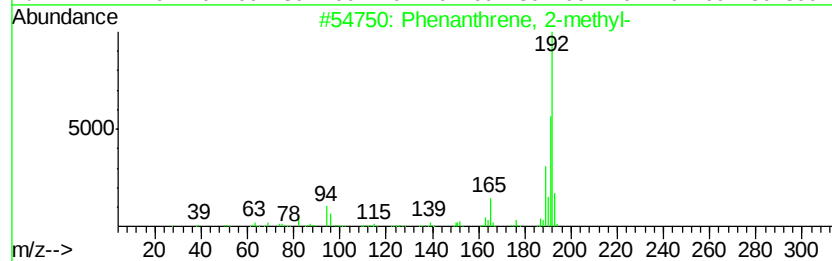
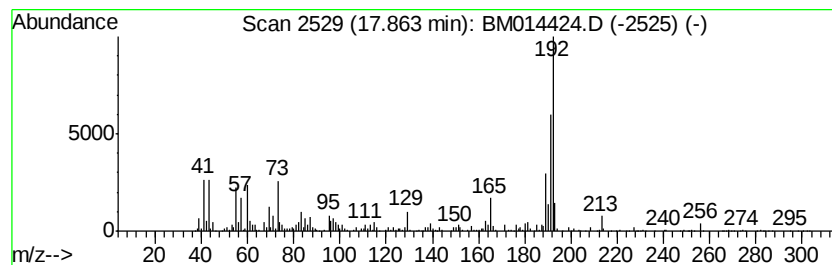
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ClientSampleId :  
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Quant Title : SVOA CALIBRATION

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

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Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|-------------|-------------------------------------|------------------|---------|-------------|------|
| 17.86   | 13.97 ng/ul | 1658620                             | Phenanthrene-d10 | 16.93   |             |      |
| Hit# of | 5           | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |             | Phenanthrene, 2-methyl-             | 192              | C15H12  | 002531-84-2 | 97   |
| 2       |             | 1H-Cyclopropa[1]phenanthrene,1a,... | 192              | C15H12  | 000949-41-7 | 96   |
| 3       |             | Anthracene, 2-methyl-               | 192              | C15H12  | 000613-12-7 | 94   |
| 4       |             | Phenanthrene, 1-methyl-             | 192              | C15H12  | 000832-69-9 | 93   |
| 5       |             | 1H-Indene, 2-phenyl-                | 192              | C15H12  | 004505-48-0 | 92   |



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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

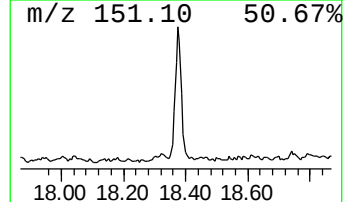
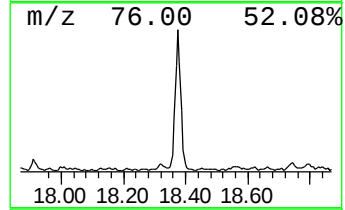
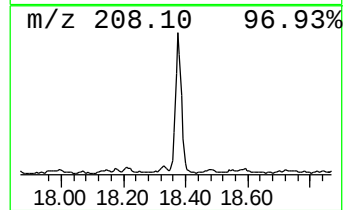
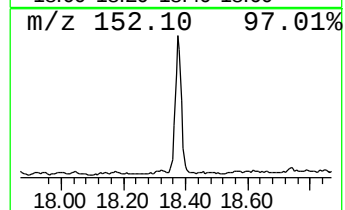
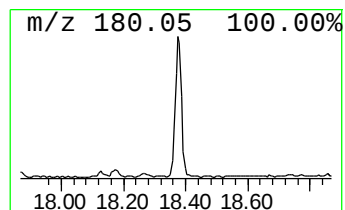
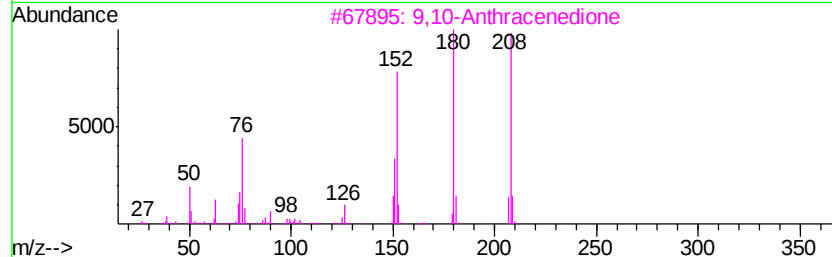
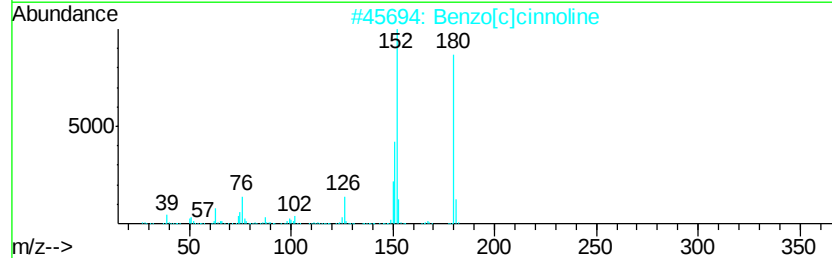
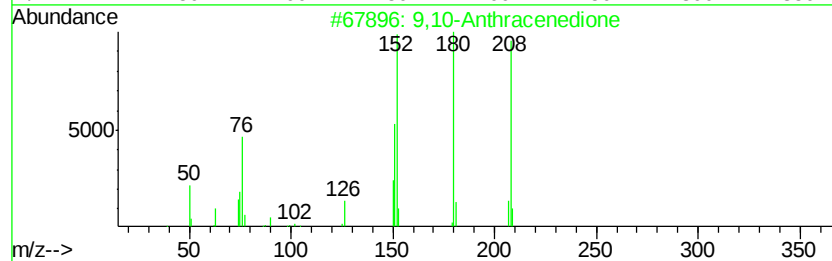
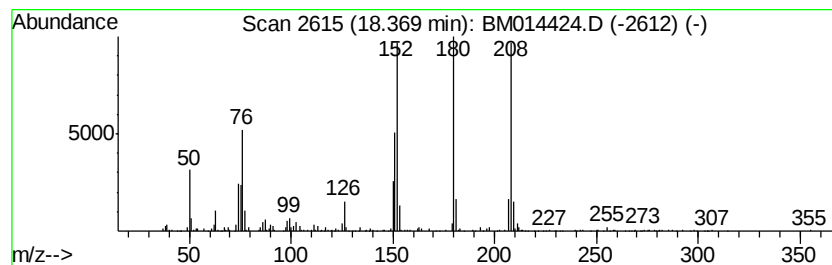
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 9,10-Anthracenedione Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.37 | 16.16 ng/ul | 1919400 | Phenanthrene-d10 | 16.93 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 96   |
| 2    |    | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 95   |
| 3    |    | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 93   |
| 4    |    | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 90   |
| 5    |    | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 87   |



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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

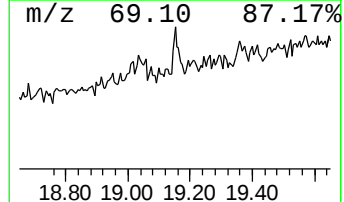
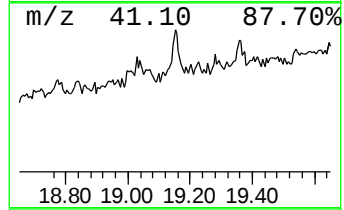
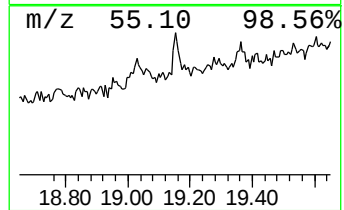
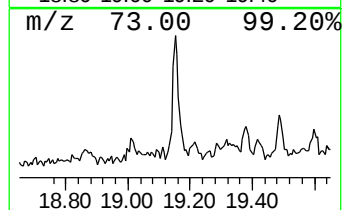
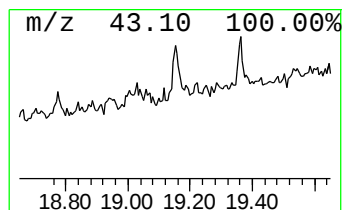
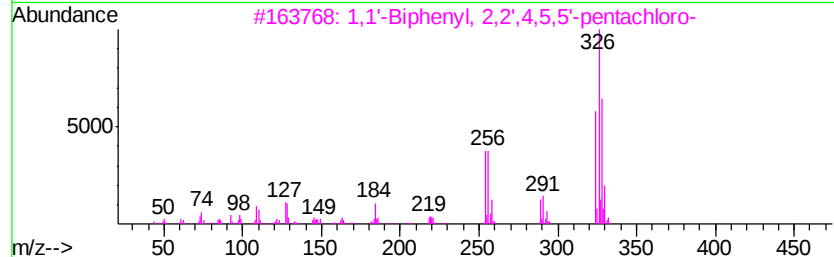
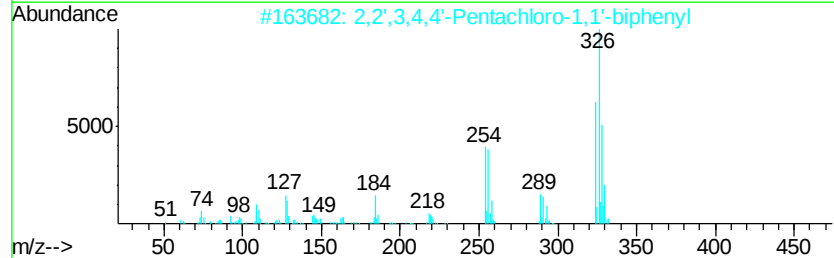
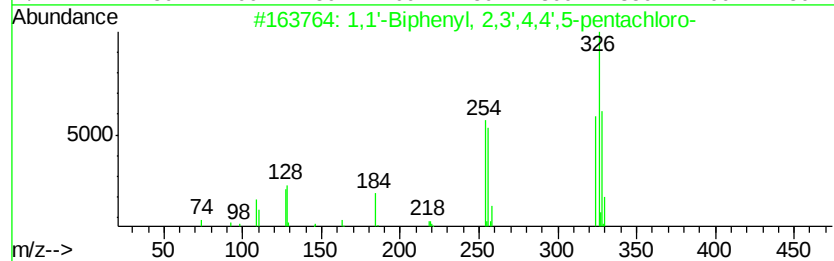
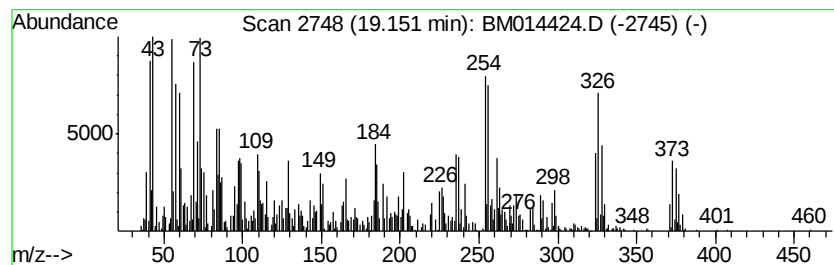
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 1,1'-Biphenyl, 2,3',4,4',5-... Concentration Rank 17

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.15 | 4.47 ng/ul | 1481170 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 97   |
| 2    |    | 2,2',3,4,4'-Pentachloro-1,1'-bip... | 324 | C12H5Cl5 | 065510-45-4 | 93   |
| 3    |    | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 93   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,5,5'-penta... | 324 | C12H5Cl5 | 052663-61-3 | 93   |
| 5    |    | 2,3,3',5,6-Pentachloro-1,1'-biph... | 324 | C12H5Cl5 | 074472-36-9 | 93   |



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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

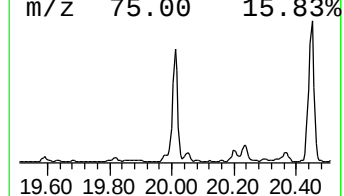
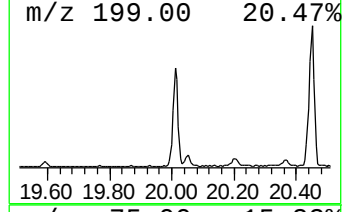
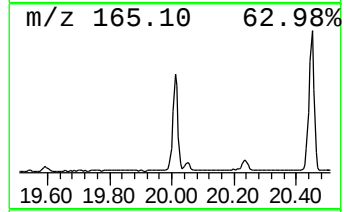
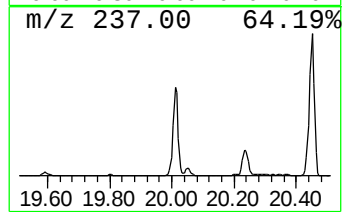
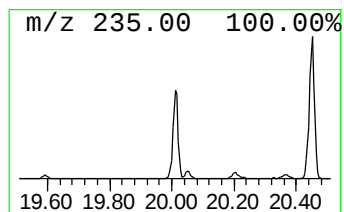
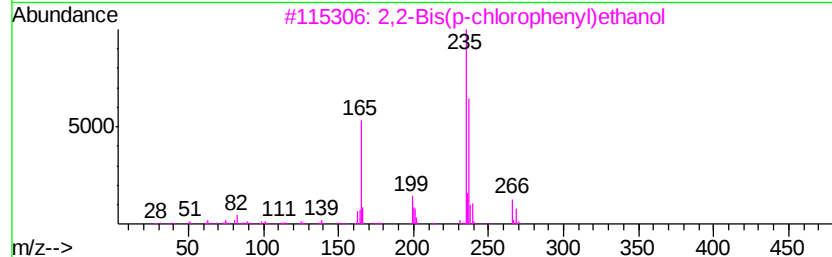
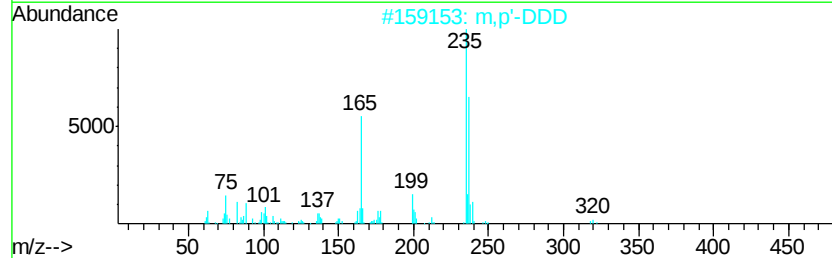
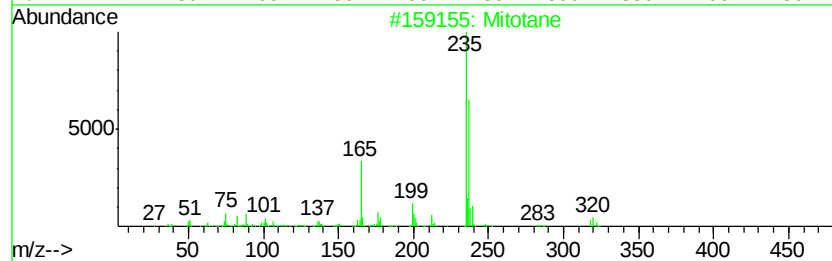
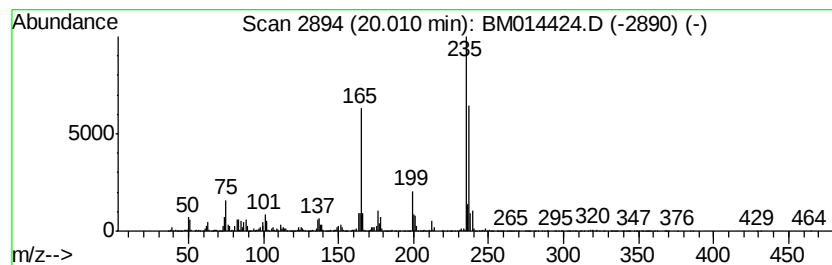
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Mitotane Concentration Rank 5

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 20.01 | 36.09 ng/ul | 11963200 | Chrysene-d12     | 21.16 |

| Hit# of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|---------|-------------------------------------|-----|-------------|--------------|------|
| 1       | Mitotane                            | 318 | C14H10Cl4   | 000053-19-0  | 99   |
| 2       | m,p'-DDD                            | 318 | C14H10Cl4   | 004329-12-8  | 91   |
| 3       | 2,2-Bis(p-chlorophenyl)ethanol      | 266 | C14H12Cl2O  | 002642-82-2  | 86   |
| 4       | 2,2-Bis(4-chlorophenyl)acetic acid  | 280 | C14H10Cl2O2 | 000083-05-6  | 86   |
| 5       | 3-Butanone, 1,1-bis(4-chlorophen... | 320 | C18H18Cl2O  | 1000158-20-4 | 86   |



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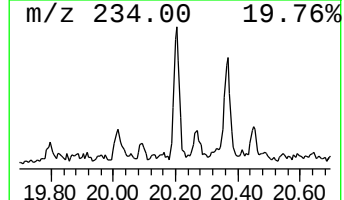
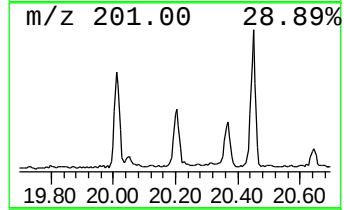
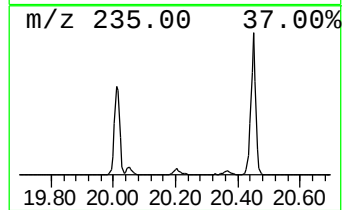
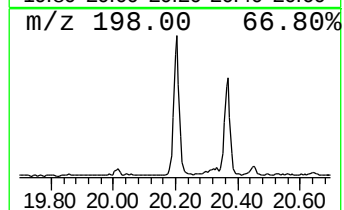
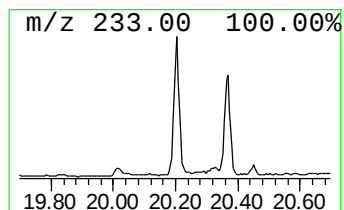
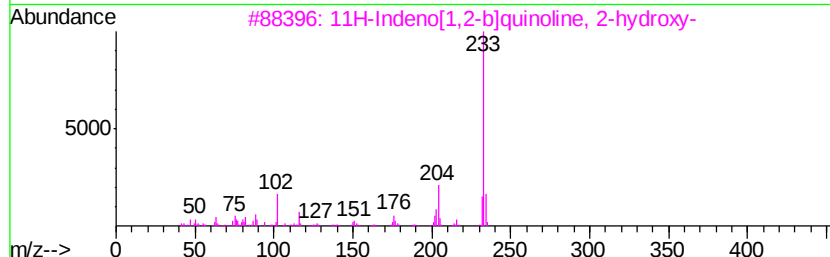
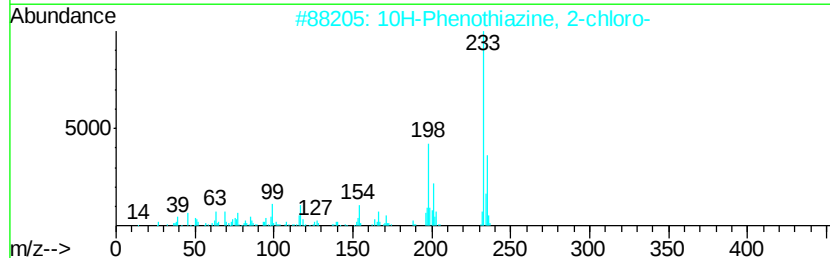
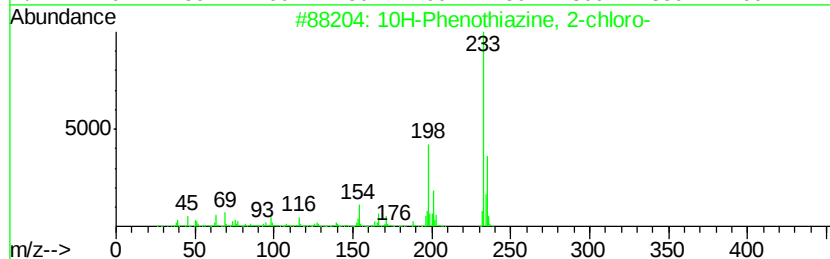
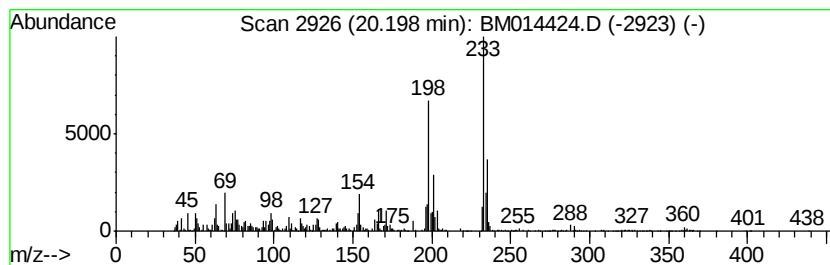
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 10H-Phenothiazine, 2-chloro- Concentration Rank 13

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.20 | 7.44 ng/ul | 2465000 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 10H-Phenothiazine, 2-chloro-        | 233 | C12H8ClNS | 000092-39-7  | 99   |
| 2    |    | 10H-Phenothiazine, 2-chloro-        | 233 | C12H8ClNS | 000092-39-7  | 93   |
| 3    |    | 11H-Indeno[1,2-b]quinoline, 2-hv... | 233 | C16H11NO  | 1000214-19-5 | 46   |
| 4    |    | 1H-Phenanthro[9,10-d]imidazol-2-... | 233 | C15H11N3  | 037052-13-4  | 38   |
| 5    |    | Phenanthro[9,10-d]oxazole, 2-met... | 233 | C16H11NO  | 021639-88-3  | 38   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

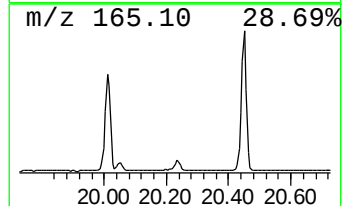
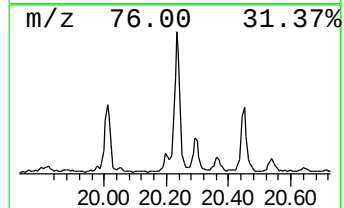
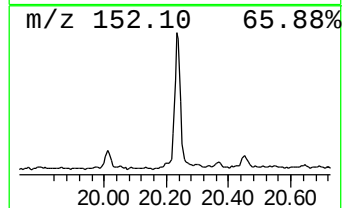
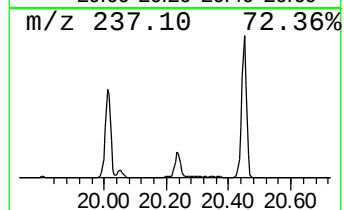
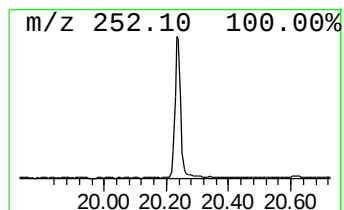
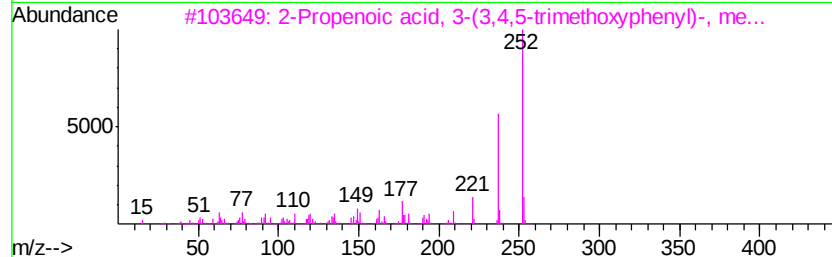
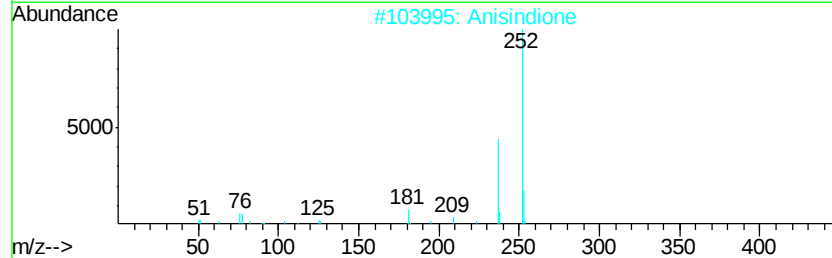
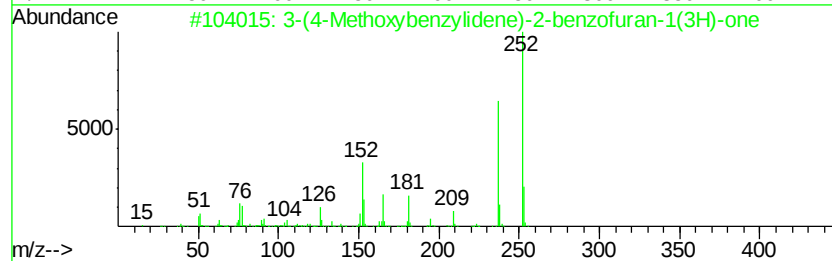
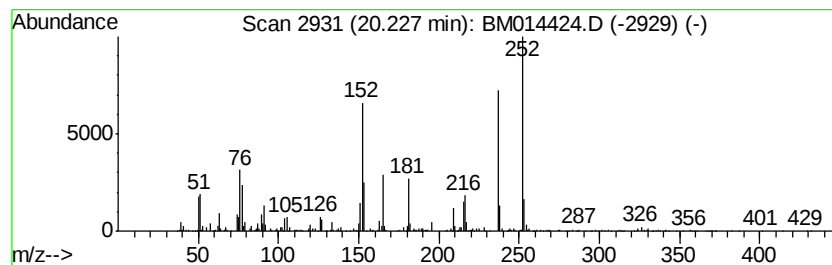
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 3-(4-Methoxybenzylidene)-2-... Concentration Rank 12

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 20.23 | 12.73 ng/ul | 4221430 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 3-(4-Methoxybenzylidene)-2-benzo... | 252 | C16H12O3 | 1000332-19-6 | 96   |
| 2    |    | Anisindione                         | 252 | C16H12O3 | 000117-37-3  | 83   |
| 3    |    | 2-Propenoic acid, 3-(3,4,5-trime... | 252 | C13H16O5 | 007560-49-8  | 43   |
| 4    |    | 3H-Pyrrolo[3,2-f]quinoline, 1,2,... | 252 | C17H20N2 | 1000338-03-5 | 43   |
| 5    |    | 2-Propenoic acid, 3-(3,4,5-trime... | 252 | C13H16O5 | 007560-49-8  | 38   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

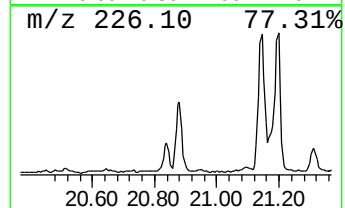
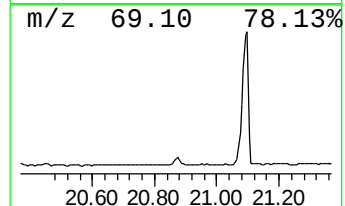
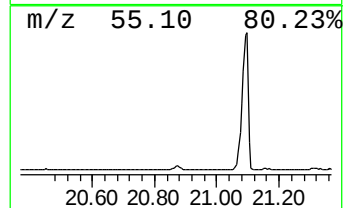
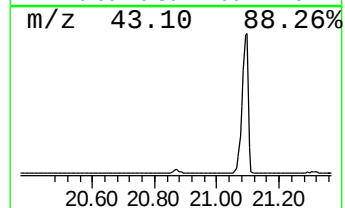
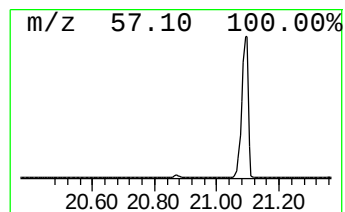
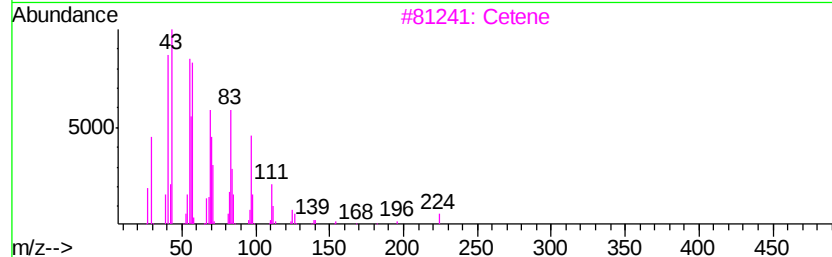
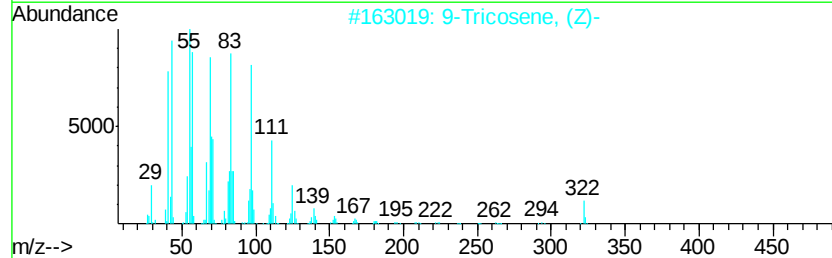
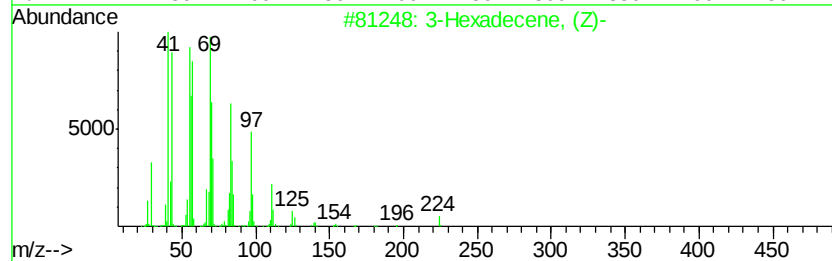
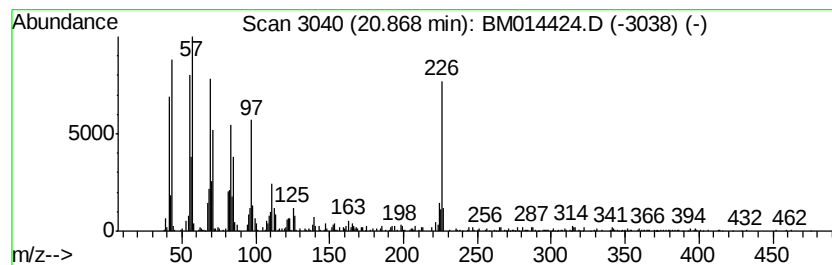
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Cyclic20.87 Concentration Rank 14

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.87 | 6.25 ng/ul | 2073080 | Chrysene-d12     | 21.16 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------|-----|---------|-------------|------|
| 1    |    |   | 3-Hexadecene, (Z)- | 224 | C16H32  | 034303-81-6 | 70   |
| 2    |    |   | 9-Tricosene, (Z)-  | 322 | C23H46  | 027519-02-4 | 62   |
| 3    |    |   | Cetene             | 224 | C16H32  | 000629-73-2 | 49   |
| 4    |    |   | Octacosanol        | 410 | C28H58O | 000557-61-9 | 46   |
| 5    |    |   | 1-Octadecene       | 252 | C18H36  | 000112-88-9 | 46   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

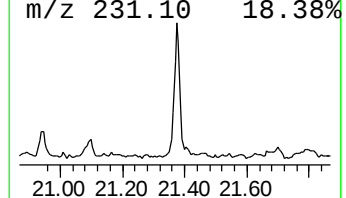
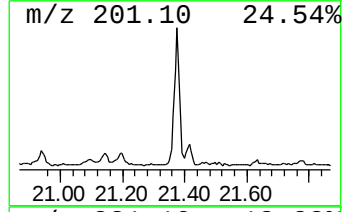
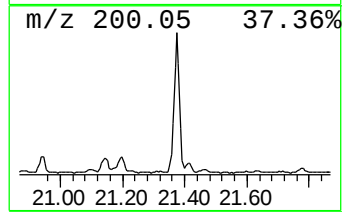
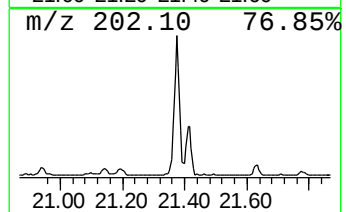
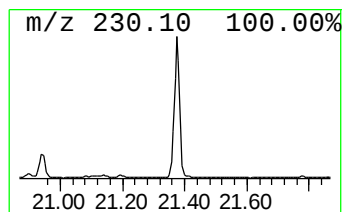
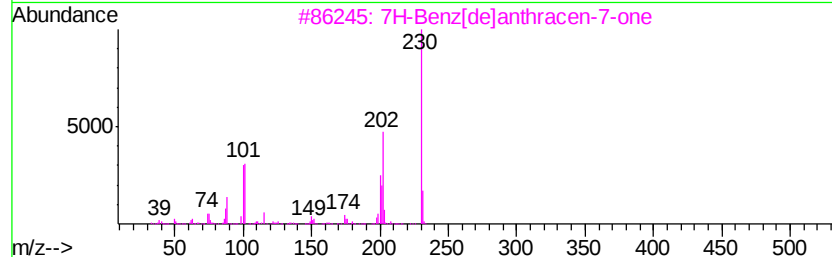
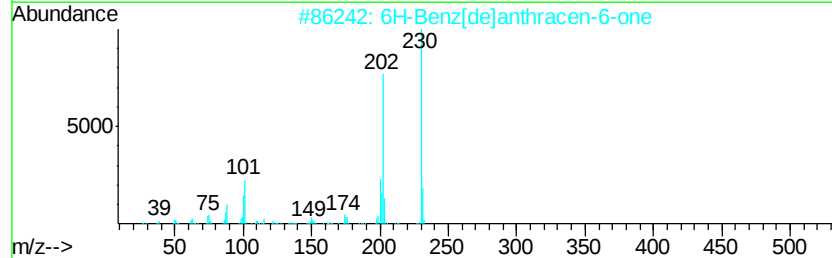
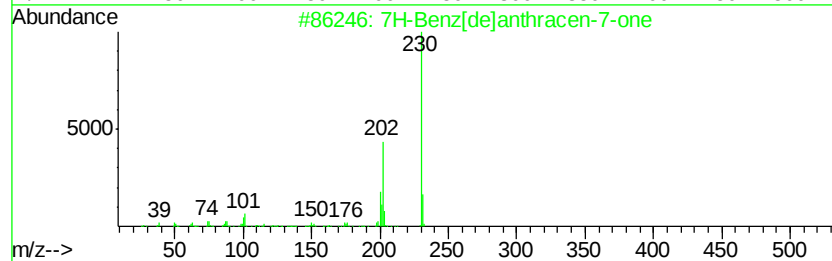
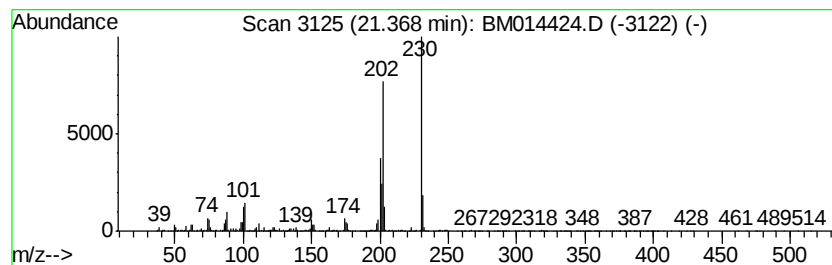
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 7H-Benz[de]anthracen-7-one Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 21.37 | 16.36 ng/ul | 5423700 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 98   |
| 2    |    | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 97   |
| 3    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 97   |
| 4    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 96   |
| 5    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 94   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

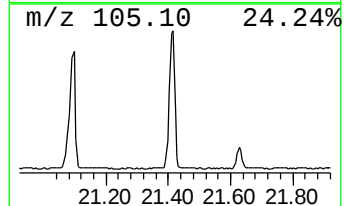
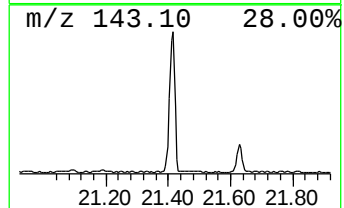
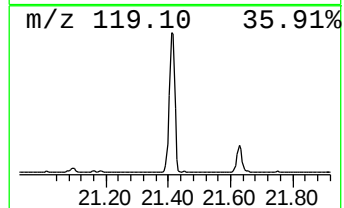
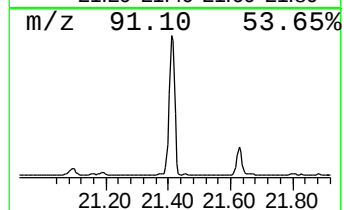
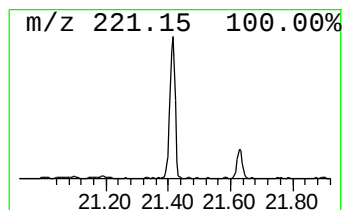
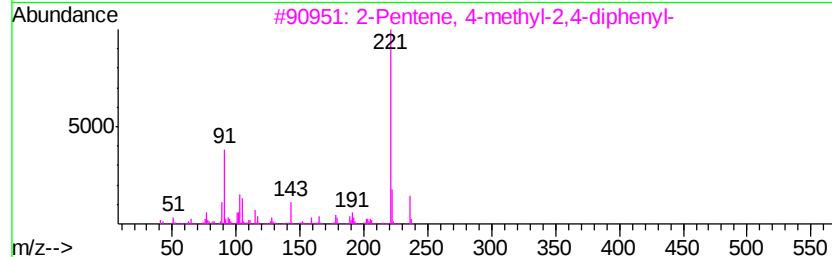
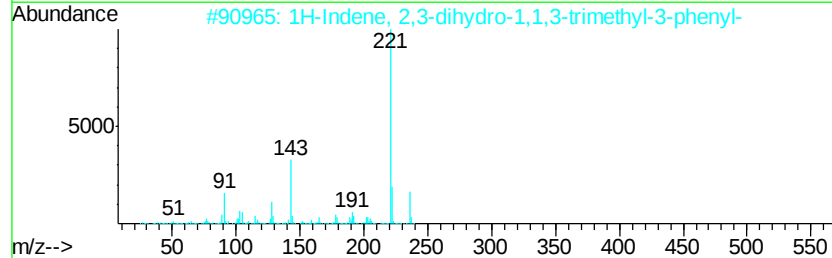
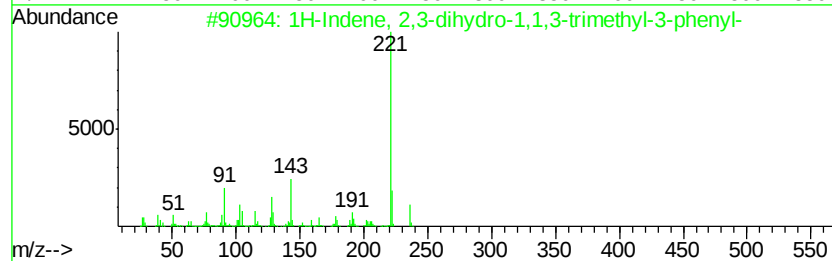
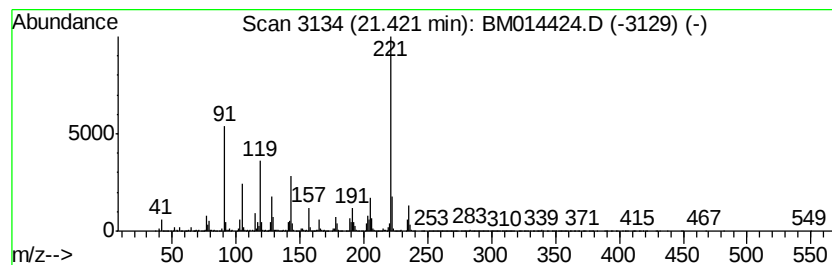
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 1

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 21.42 | 76.34 ng/ul | 25306700 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,1,3-tri...  | 236 | C18H20   | 003910-35-8 | 52   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,1,3-tri...  | 236 | C18H20   | 003910-35-8 | 47   |
| 3    |    | 2-Pentene, 4-methyl-2,4-diphenyl-    | 236 | C18H20   | 006258-73-7 | 37   |
| 4    |    | 4-Hydroxy-beta-phenylcinnamionitrile | 221 | C15H11NO | 016281-90-6 | 35   |
| 5    |    | Methanone, cyclohexyl(2,5-diprop...  | 304 | C19H28O3 | 076185-90-5 | 35   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

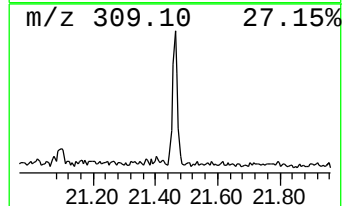
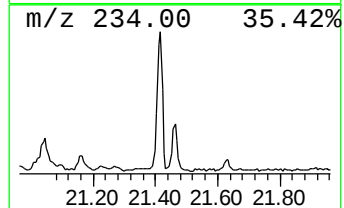
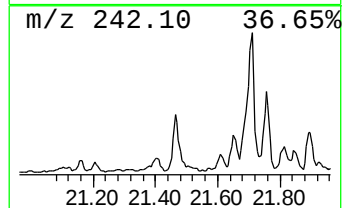
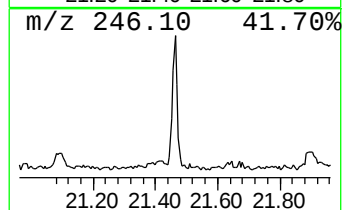
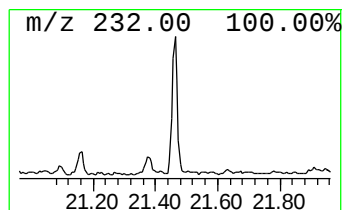
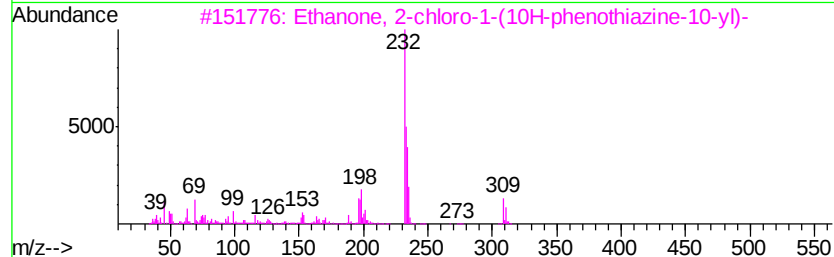
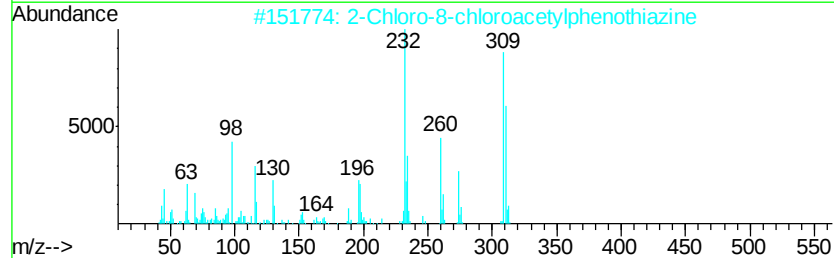
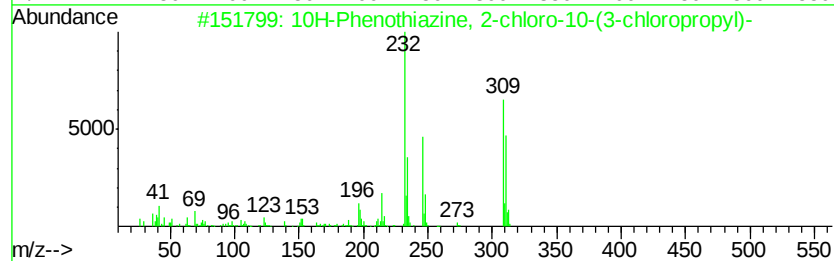
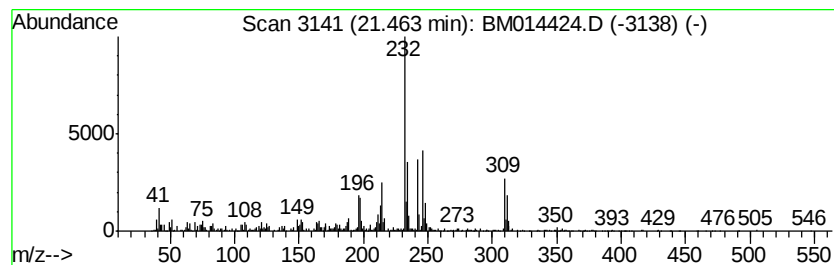
Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 13 10H-Phenothiazine, 2-chloro... Concentration Rank 18

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.         |             |      |
|---------|------------|-------------------------------------|------------------|--------------|-------------|------|
| 21.46   | 4.38 ng/ul | 1451520                             | Chrysene-d12     | 21.16        |             |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm      | CAS#        | Qual |
| 1       |            | 10H-Phenothiazine, 2-chloro-10-(... | 309              | C15H13Cl2NS  | 002765-59-5 | 99   |
| 2       |            | 2-Chloro-8-chloroacetylphenothia... | 309              | C14H9Cl2NOS  | 010554-02-6 | 60   |
| 3       |            | Ethanone, 2-chloro-1-(10H-phenot... | 309              | C14H9Cl2NOS  | 016189-69-8 | 55   |
| 4       |            | Pyridine-3-carboxamide, 2-(4-chl... | 292              | C14H13ClN2O3 | 309743-02-0 | 35   |
| 5       |            | Phenoxathiin, 10,10-dioxide         | 232              | C12H8O3S     | 000950-47-0 | 30   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

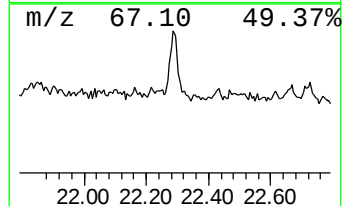
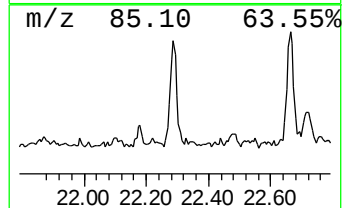
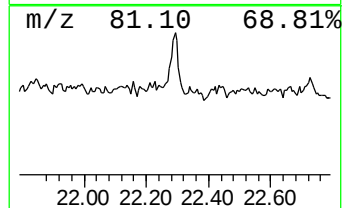
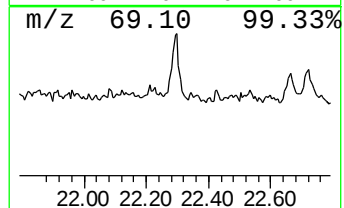
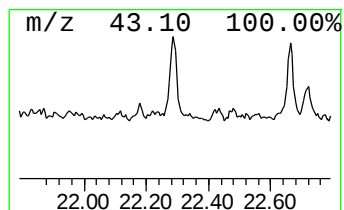
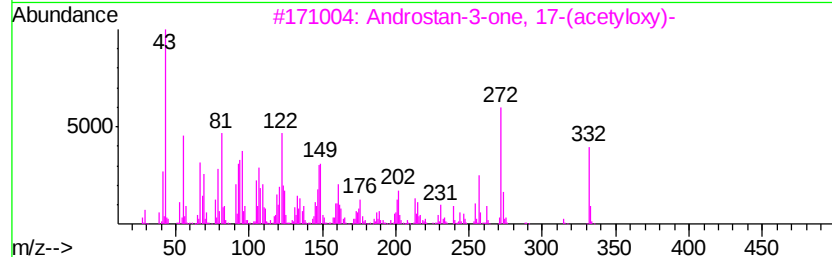
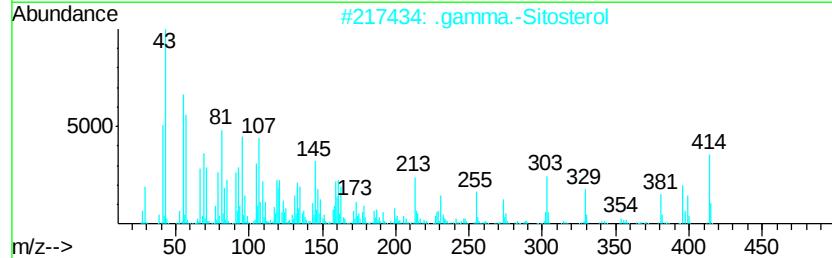
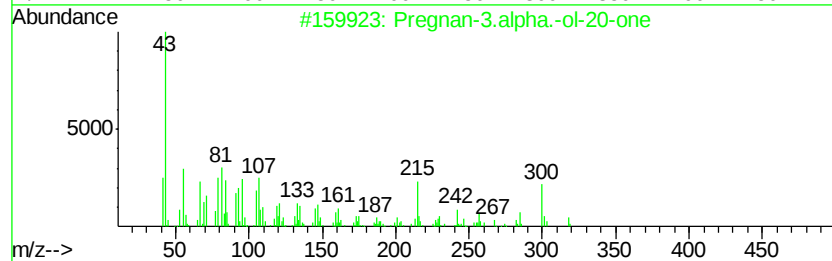
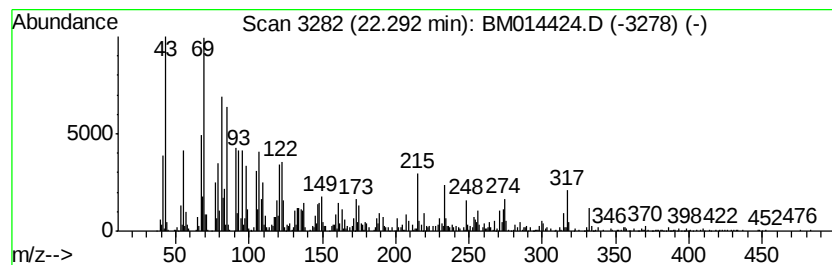
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 unknown-01 Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 22.29 | 19.50 ng/ul | 3073140 | Perylene-d12     | 23.34 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Pregnan-3.alpha.-ol-20-one          | 318 | C21H34O2     | 000128-20-1  | 46   |
| 2    |    | .gamma.-Sitosterol                  | 414 | C29H50O      | 000083-47-6  | 25   |
| 3    |    | Androstan-3-one, 17-(acetyloxy)-    | 332 | C21H32O3     | 125638-46-2  | 15   |
| 4    |    | Diethylmalonic acid, 1-bromo-3,3... | 460 | C19H32BrF3O4 | 1000370-80-1 | 14   |
| 5    |    | 4H-1,3-Dioxin-4-one, 2-(1,1-dime... | 170 | C9H14O3      | 107289-20-3  | 11   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

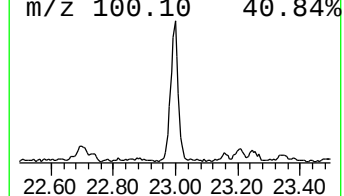
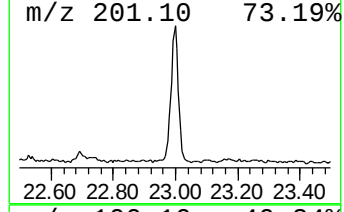
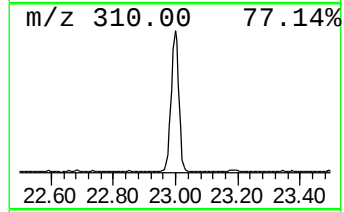
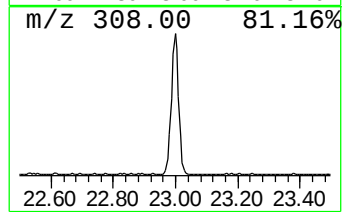
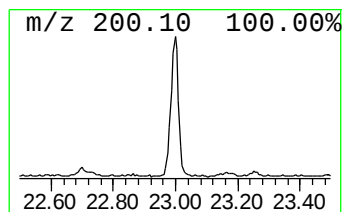
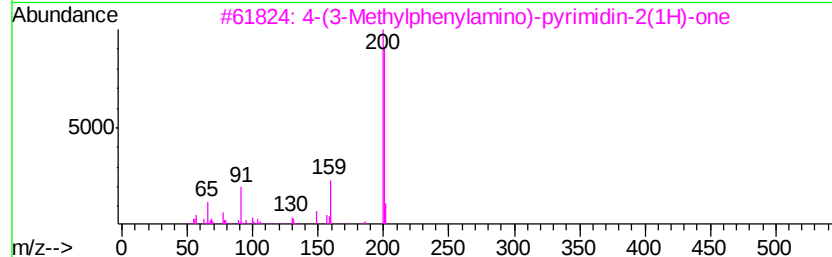
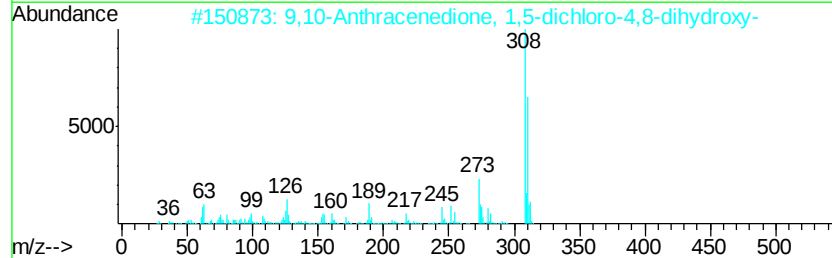
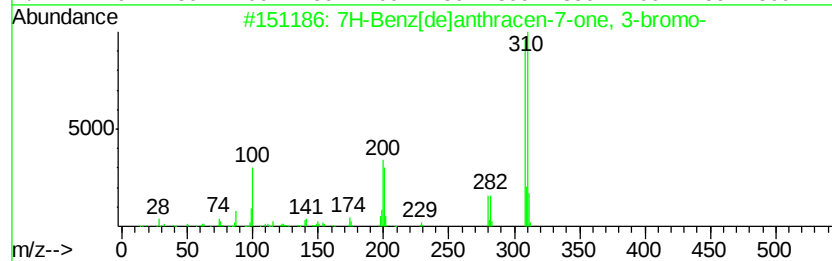
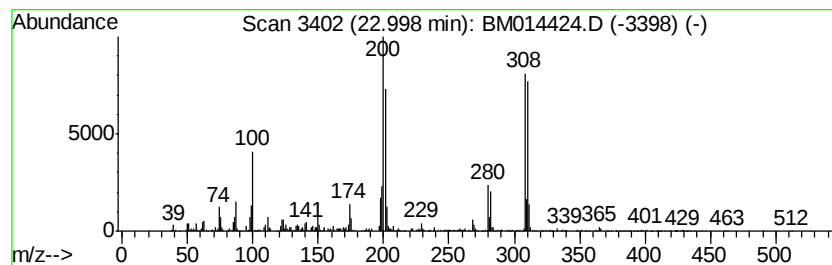
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 7H-Benz[de]anthracen-7-one,... Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 23.00 | 20.00 ng/ul | 3152160 | Perylene-d12     | 23.34 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 7H-Benz[de]anthracen-7-one, 3-br... | 308 | C17H9BrO    | 000081-96-9  | 94   |
| 2    |    | 9,10-Anthracenedione, 1,5-dichlo... | 308 | C14H6Cl2O4  | 006837-97-4  | 27   |
| 3    |    | 4-(3-Methylphenylamino)-pyrimidi... | 201 | C11H11N3O   | 127970-30-3  | 22   |
| 4    |    | 13-Ethyl-17alpha-ethynyl-17beta-... | 308 | C21H24O2    | 1000234-44-4 | 15   |
| 5    |    | 4,6-Diamino-1-[3,4-dichloropheny... | 308 | C12H10Cl2N6 | 058791-63-2  | 12   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

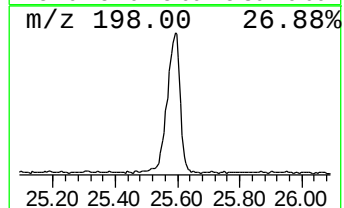
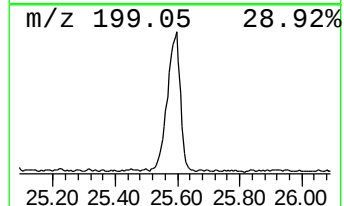
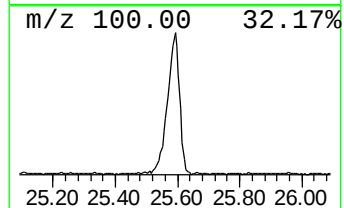
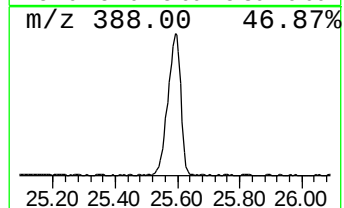
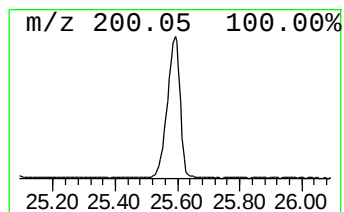
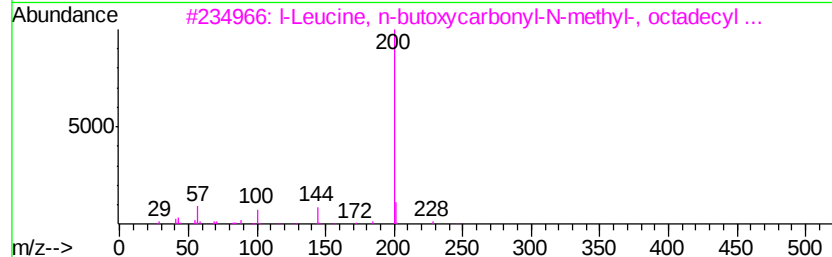
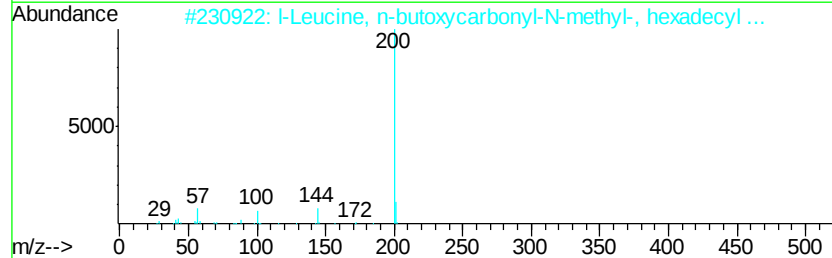
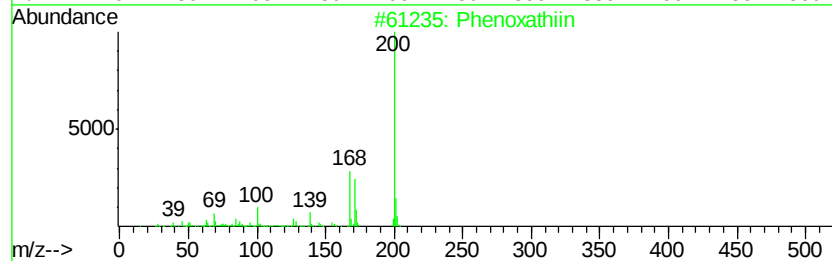
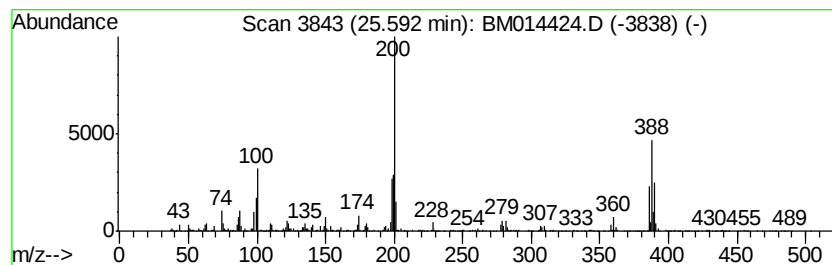
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown-02 Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 25.59 | 40.16 ng/ul | 6329380 | Perylene-d12     | 23.34 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Phenoxathiin                         | 200 | C12H8OS   | 000262-20-4  | 25   |
| 2    |    | l-Leucine, n-butoxycarbonyl-N-me...  | 469 | C28H55N04 | 1000321-89-3 | 22   |
| 3    |    | l-Leucine, n-butoxycarbonyl-N-me...  | 497 | C30H59N04 | 1000321-89-5 | 22   |
| 4    |    | D-Norleucine, N-neopentylloxycarb... | 455 | C27H53N04 | 1000344-14-0 | 14   |
| 5    |    | 2-Aminocaprylic acid, N-propoxyc...  | 413 | C24H47N04 | 1000325-42-9 | 14   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014424.D  
Acq On : 01 Mar 2018 05:09  
Operator : SJ/JU  
Sample : J1646-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W8

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

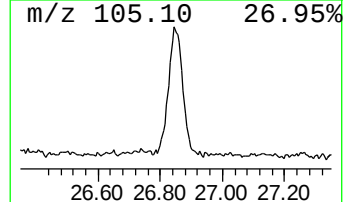
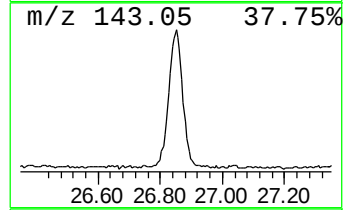
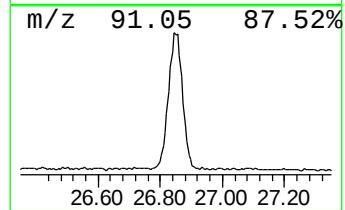
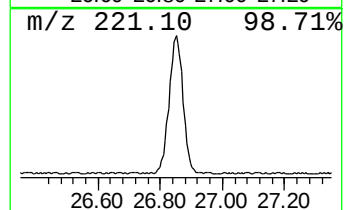
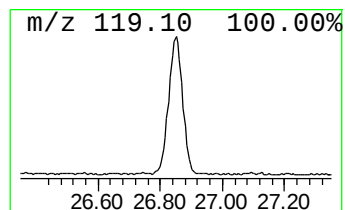
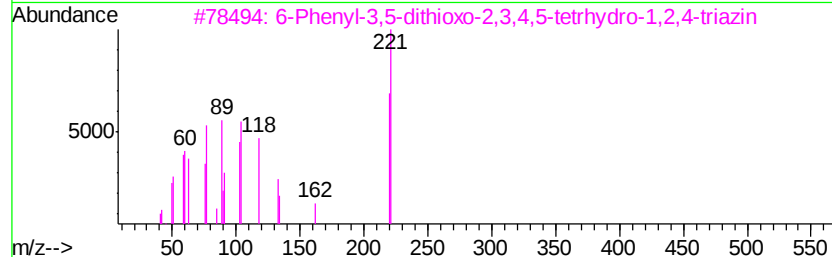
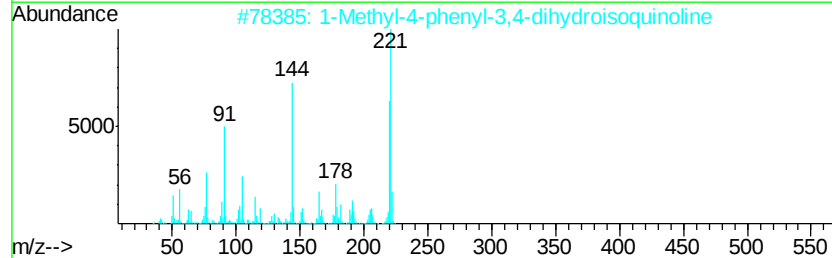
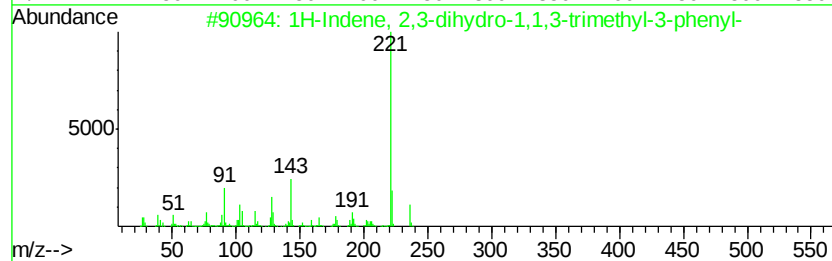
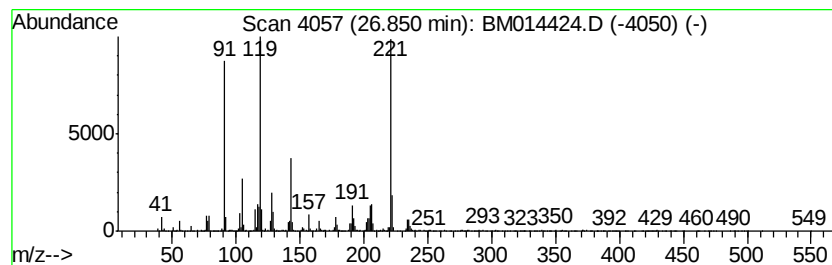
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown-03 Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 26.85 | 36.35 ng/ul | 5728380 | Perylene-d12     | 23.34 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 236 | C18H20     | 003910-35-8  | 43   |
| 2    |    | 1-Methyl-4-phenyl-3,4-dihydroiso... | 221 | C16H15N    | 1000211-01-5 | 41   |
| 3    |    | 6-Phenyl-3,5-dithioxo-2,3,4,5-te... | 221 | C9H7N3S2   | 038119-57-2  | 35   |
| 4    |    | Benz[ilisoquinoline, 3,6,8-trime... | 221 | C16H15N    | 061171-16-2  | 30   |
| 5    |    | (.+/-)-2-Phenylbutyric acid, te...  | 278 | C16H26O2Si | 1000333-14-6 | 27   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM022818\  
 Data File : BM014424.D  
 Acq On : 01 Mar 2018 05:09  
 Operator : SJ/JU  
 Sample : J1646-02  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5W8

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM021418.M  
 Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Phenanthrene, 2-m... | 17.86 | 14.0    | ng/ul | 1658620  | 4                     | 16.93 | 2375210 | 20.0 |
| 9,10-Anthracenedione | 18.37 | 16.2    | ng/ul | 1919400  | 4                     | 16.93 | 2375210 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.15 | 4.5     | ng/ul | 1481170  | 5                     | 21.16 | 6630290 | 20.0 |
| Mitotane             | 20.01 | 36.1    | ng/ul | 11963200 | 5                     | 21.16 | 6630290 | 20.0 |
| 10H-Phenothiazine... | 20.20 | 7.4     | ng/ul | 2465000  | 5                     | 21.16 | 6630290 | 20.0 |
| 3-(4-Methoxybenzy... | 20.23 | 12.7    | ng/ul | 4221430  | 5                     | 21.16 | 6630290 | 20.0 |
| (DEL) Alkane: Cyc... | 20.87 | 6.3     | ng/ul | 2073080  | 5                     | 21.16 | 6630290 | 20.0 |
| 7H-Benz[de]anthra... | 21.37 | 16.4    | ng/ul | 5423700  | 5                     | 21.16 | 6630290 | 20.0 |
| 1H-Indene, 2,3-di... | 21.42 | 76.3    | ng/ul | 25306700 | 5                     | 21.16 | 6630290 | 20.0 |
| 10H-Phenothiazine... | 21.46 | 4.4     | ng/ul | 1451520  | 5                     | 21.16 | 6630290 | 20.0 |
| unknown-01           | 22.29 | 19.5    | ng/ul | 3073140  | 6                     | 23.34 | 3152160 | 20.0 |
| 7H-Benz[de]anthra... | 23.00 | 20.0    | ng/ul | 3152160  | 6                     | 23.34 | 3152160 | 20.0 |
| unknown-02           | 25.59 | 40.2    | ng/ul | 6329380  | 6                     | 23.34 | 3152160 | 20.0 |
| unknown-03           | 26.85 | 36.4    | ng/ul | 5728380  | 6                     | 23.34 | 3152160 | 20.0 |