

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF101018\  
 Data File : BF109761.D  
 Acq On : 11 Oct 2018 00:02  
 Operator : JU/SJ  
 Sample : J5365-01 10X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CY-1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % 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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF100818.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 5.692       | 600           | 613         | 616          | rBV      | 2675263        | 6187900       | 100.00%         | 28.966%       |
| 2         | 6.475       | 743           | 746         | 755          | rBV      | 55485          | 84061         | 1.36%           | 0.393%        |
| 3         | 6.692       | 780           | 783         | 794          | rBV      | 345413         | 409174        | 6.61%           | 1.915%        |
| 4         | 6.851       | 806           | 810         | 817          | rVB      | 119171         | 124019        | 2.00%           | 0.581%        |
| 5         | 7.257       | 876           | 879         | 885          | rBV      | 35921          | 62961         | 1.02%           | 0.295%        |
| 6         | 7.975       | 997           | 1001        | 1011         | rBV      | 552245         | 539766        | 8.72%           | 2.527%        |
| 7         | 8.857       | 1146          | 1151        | 1153         | rBV4     | 47112          | 69692         | 1.13%           | 0.326%        |
| 8         | 8.933       | 1161          | 1164        | 1167         | rBV4     | 43979          | 74043         | 1.20%           | 0.347%        |
| 9         | 8.969       | 1167          | 1170        | 1172         | rVV2     | 95517          | 90368         | 1.46%           | 0.423%        |
| 10        | 9.004       | 1172          | 1176        | 1179         | rVV2     | 77051          | 97250         | 1.57%           | 0.455%        |
| 11        | 9.045       | 1179          | 1183        | 1188         | rBV2     | 260925         | 345634        | 5.59%           | 1.618%        |
| 12        | 9.127       | 1194          | 1197        | 1202         | rBV2     | 261950         | 389977        | 6.30%           | 1.825%        |
| 13        | 9.363       | 1234          | 1237        | 1239         | rBV2     | 134481         | 165888        | 2.68%           | 0.777%        |
| 14        | 9.392       | 1239          | 1242        | 1245         | rBV4     | 200666         | 300031        | 4.85%           | 1.404%        |
| 15        | 9.439       | 1247          | 1250        | 1252         | rBV      | 1009483        | 800534        | 12.94%          | 3.747%        |
| 16        | 9.469       | 1252          | 1255        | 1257         | rBV      | 459887         | 382197        | 6.18%           | 1.789%        |
| 17        | 9.498       | 1257          | 1260        | 1263         | rVB      | 401072         | 421938        | 6.82%           | 1.975%        |
| 18        | 9.551       | 1267          | 1269        | 1271         | rVB2     | 194873         | 146138        | 2.36%           | 0.684%        |
| 19        | 9.598       | 1274          | 1277        | 1281         | rBV3     | 768151         | 1175420       | 19.00%          | 5.502%        |
| 20        | 9.645       | 1282          | 1285        | 1288         | rVB      | 1950143        | 1793981       | 28.99%          | 8.398%        |
| 21        | 9.680       | 1288          | 1291        | 1294         | rBV3     | 567320         | 773701        | 12.50%          | 3.622%        |
| 22        | 9.716       | 1294          | 1297        | 1298         | rBV      | 981039         | 984041        | 15.90%          | 4.606%        |
| 23        | 9.775       | 1305          | 1307        | 1309         | rBV      | 432474         | 418419        | 6.76%           | 1.959%        |
| 24        | 9.898       | 1326          | 1328        | 1331         | rBV3     | 392909         | 524608        | 8.48%           | 2.456%        |
| 25        | 10.004      | 1343          | 1346        | 1351         | rBV2     | 1193902        | 1363651       | 22.04%          | 6.383%        |
| 26        | 10.110      | 1361          | 1364        | 1366         | rBV3     | 676702         | 770192        | 12.45%          | 3.605%        |
| 27        | 10.151      | 1367          | 1371        | 1373         | rVV2     | 1336371        | 1505024       | 24.32%          | 7.045%        |
| 28        | 13.845      | 1996          | 1999        | 2008         | rVB      | 527498         | 628874        | 10.16%          | 2.944%        |
| 29        | 14.462      | 2101          | 2104        | 2107         | rBV      | 157596         | 158595        | 2.56%           | 0.742%        |
| 30        | 15.233      | 2231          | 2235        | 2250         | rVB      | 371099         | 574821        | 9.29%           | 2.691%        |

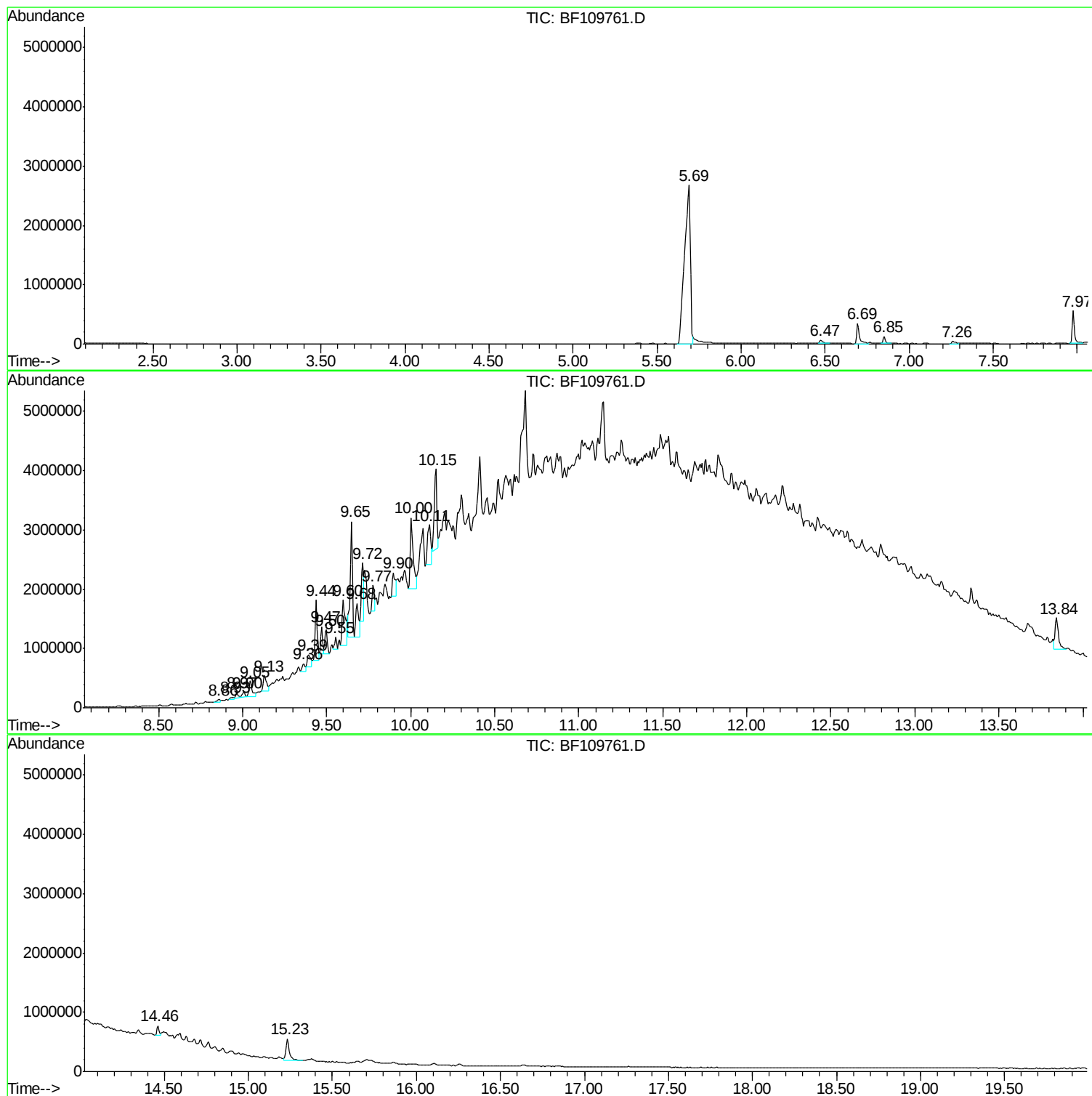
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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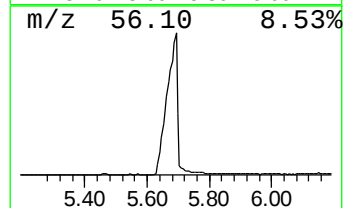
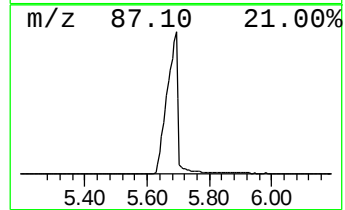
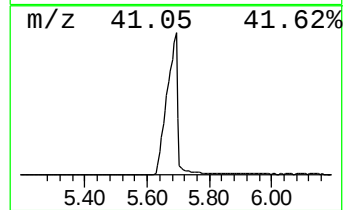
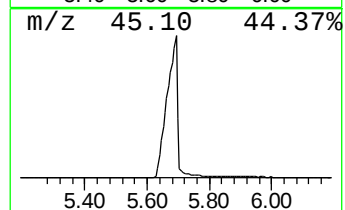
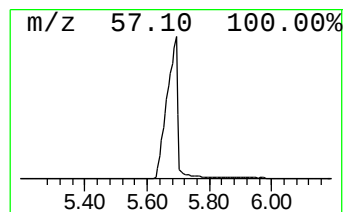
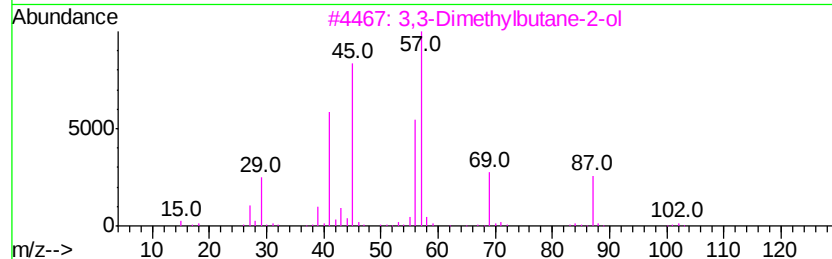
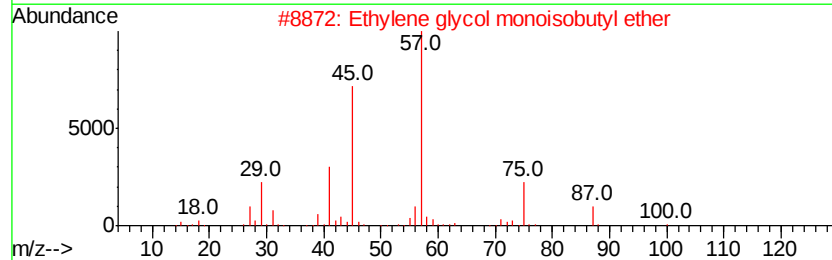
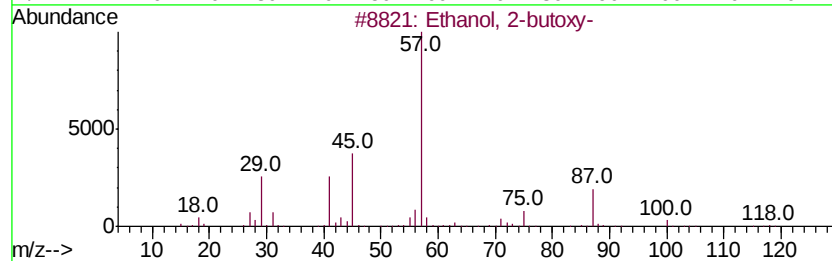
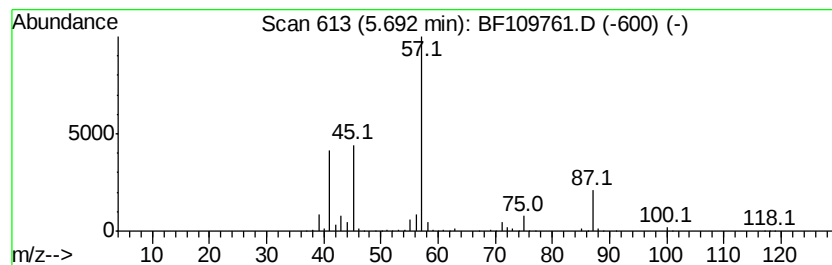
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Ethanol, 2-butoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 5.69 | 302.46 ng | 6187900 | 1,4-Dichlorobenzene-d4 | 6.69 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Ethanol, 2-butoxy-                   | 118 | C6H14O2 | 000111-76-2  | 78   |
| 2    |    | Ethylene glycol monoisobutyl ether   | 118 | C6H14O2 | 004439-24-1  | 50   |
| 3    |    | 3,3-Dimethylbutane-2-ol              | 102 | C6H14O  | 000464-07-3  | 45   |
| 4    |    | Formic acid, 3,3-dimethylbut-2-yl... | 130 | C7H14O2 | 1000368-20-5 | 25   |
| 5    |    | n-Butyl ether                        | 130 | C8H18O  | 000142-96-1  | 17   |



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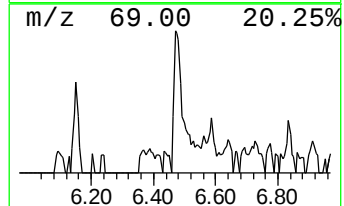
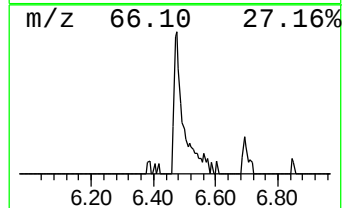
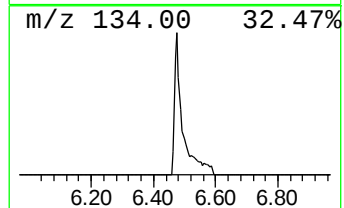
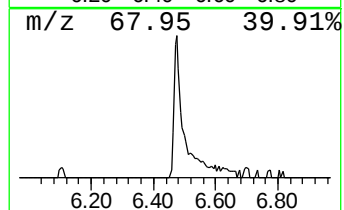
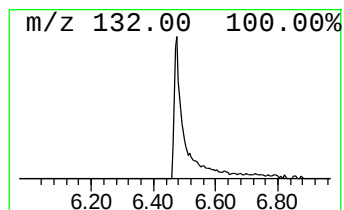
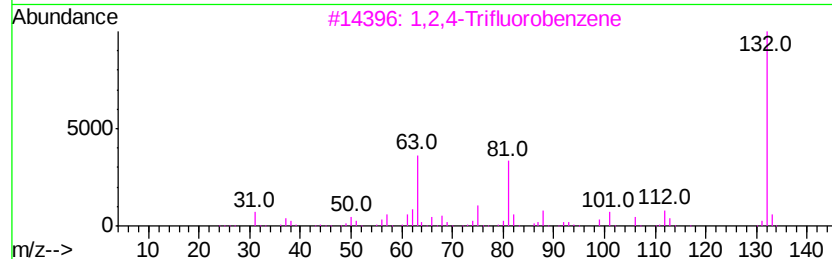
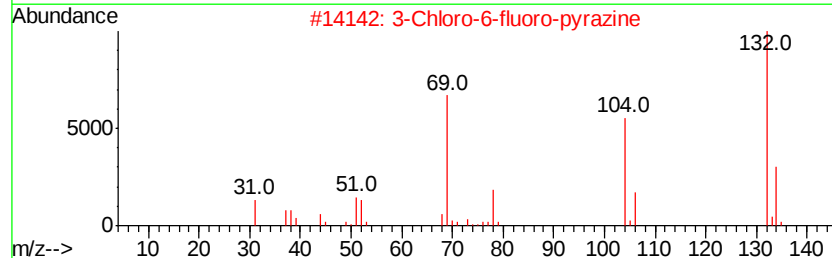
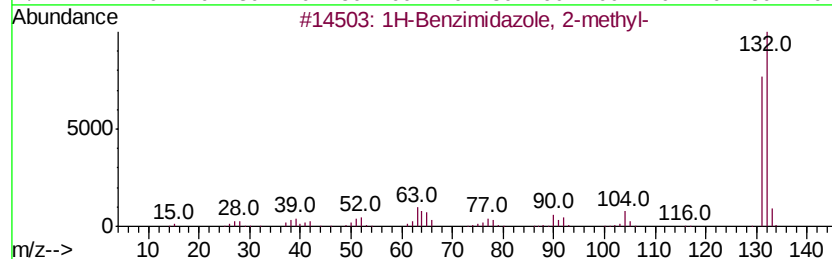
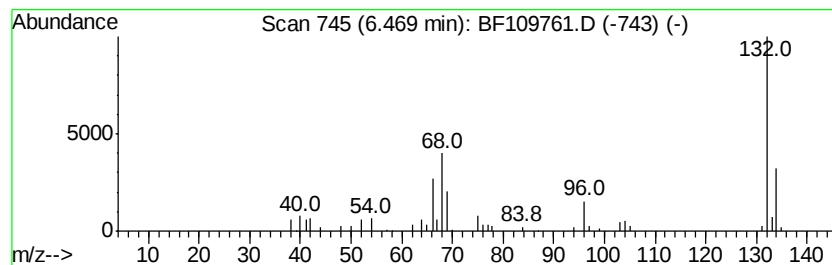
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.47 Concentration Rank 15

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 6.47 | 4.11 ng | 84061 | 1,4-Dichlorobenzene-d4 | 6.69 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-----------------------------|-----|-----------|--------------|------|
| 1    |    |   | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2    | 000615-15-6  | 22   |
| 2    |    |   | 3-Chloro-6-fluoro-pyrazine  | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    |   | 1,2,4-Trifluorobenzene      | 132 | C6H3F3    | 000367-23-7  | 9    |
| 4    |    |   | 1,3,5-Trifluorobenzene      | 132 | C6H3F3    | 000372-38-3  | 9    |
| 5    |    |   | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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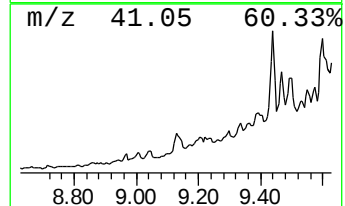
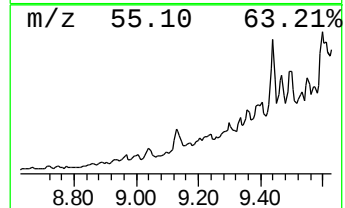
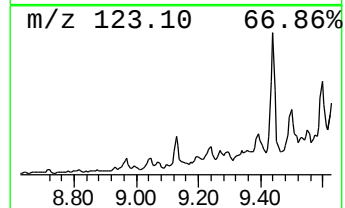
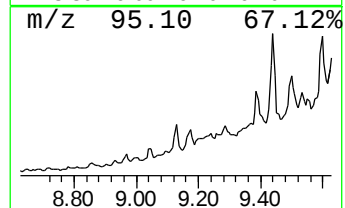
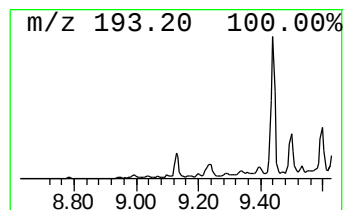
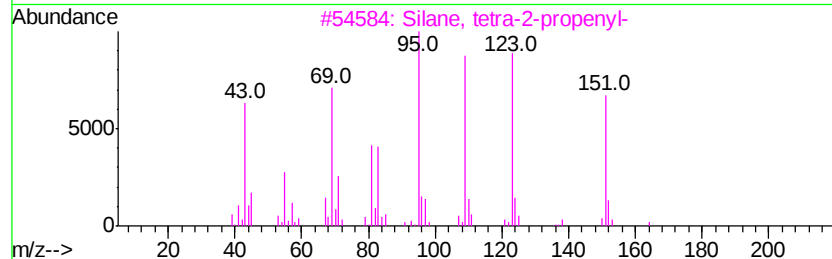
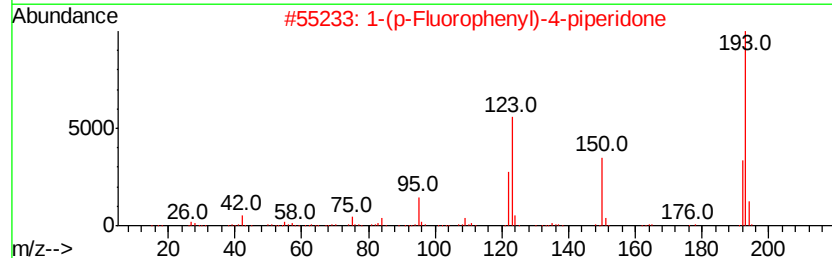
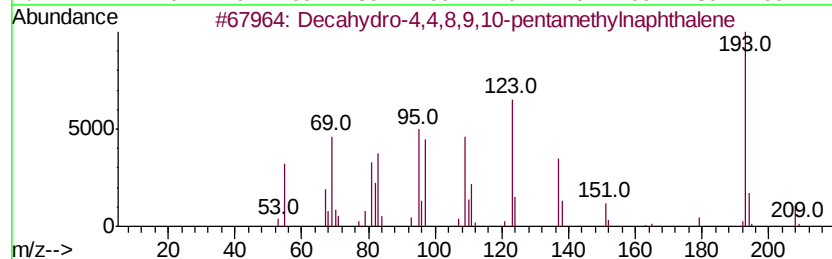
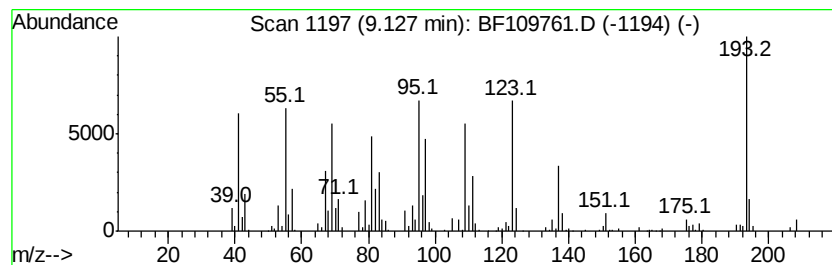
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown9.13 Concentration Rank 10

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.13 | 7.93 ng | 389977 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28    | 080655-44-3  | 46   |
| 2    |    | 1-(p-Fluorophenyl)-4-piperidone     | 193 | C11H12FNO | 1000238-56-7 | 38   |
| 3    |    | Silane, tetra-2-propenyl-           | 192 | C12H20Si  | 001112-66-9  | 27   |
| 4    |    | Spiro[5.6]dodecane-1,7-dione        | 194 | C12H18O2  | 050803-80-0  | 18   |
| 5    |    | Cyclohexane, 1-(cyclohexylmethyl... | 194 | C14H26    | 054823-96-0  | 15   |



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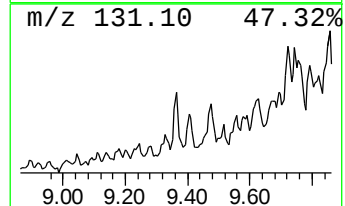
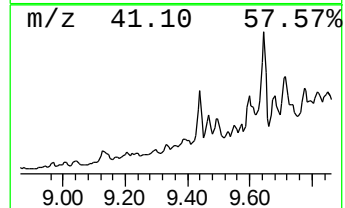
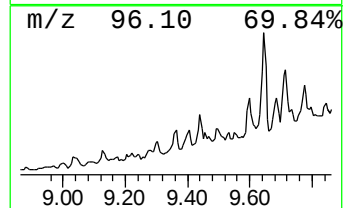
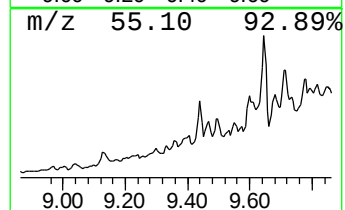
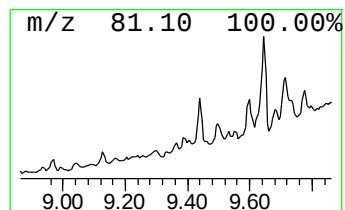
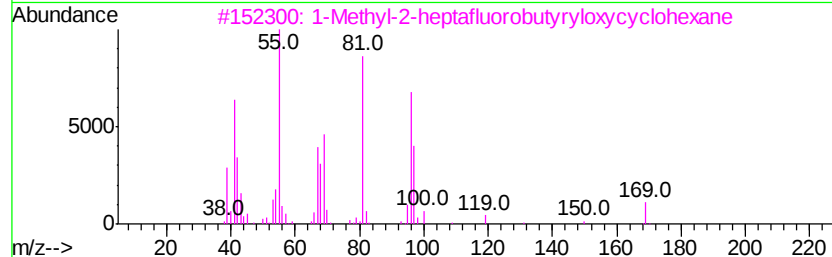
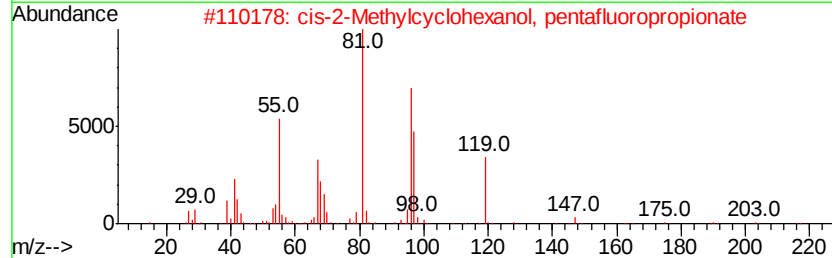
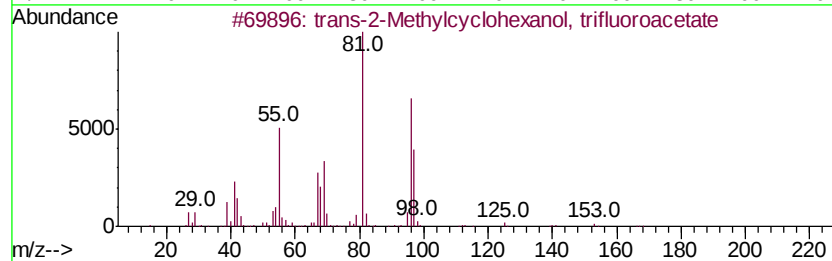
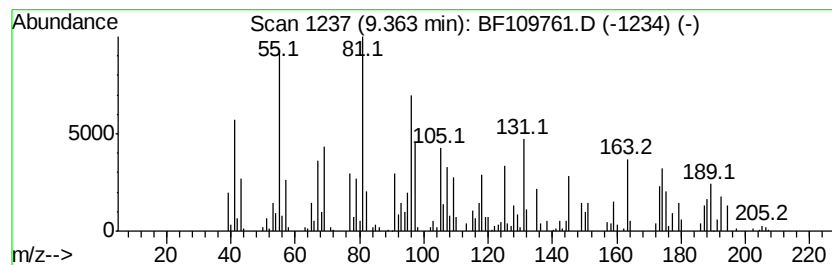
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Peak Number 5 unknown9.36 Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.36 | 3.37 ng | 165888 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------------|-----|------------|--------------|------|
| 1    | 5  | trans-2-Methylcyclohexanol, trif...  | 210 | C9H13F3O2  | 1000364-13-3 | 43   |
| 2    |    | cis-2-Methylcyclohexanol, pentafl... | 260 | C10H13F5O2 | 1000364-12-4 | 43   |
| 3    |    | 1-Methyl-2-heptafluorobutylvloxv...  | 310 | C11H13F7O2 | 1000216-64-0 | 43   |
| 4    |    | 4-(2,2,4-Trimethylcyclohex-3-env...  | 192 | C13H20O    | 1000215-26-3 | 30   |
| 5    |    | 2,4-Heptadiene, (E,E)-               | 96  | C7H12      | 002384-94-3  | 27   |



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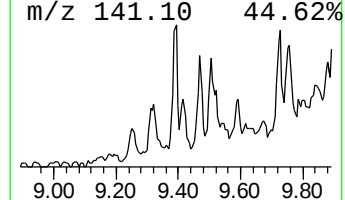
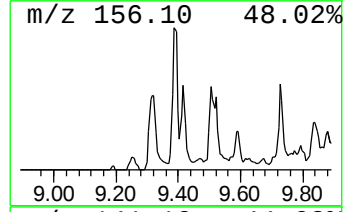
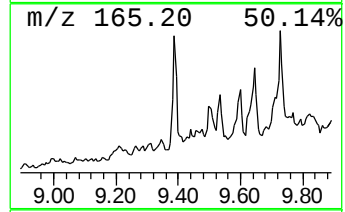
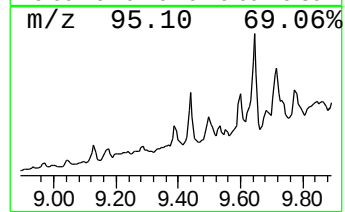
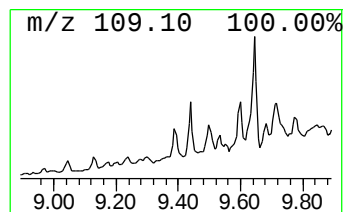
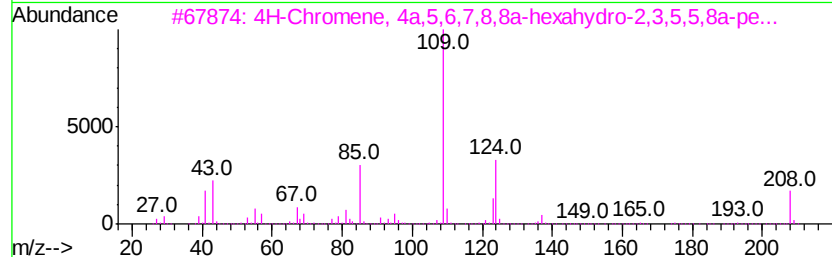
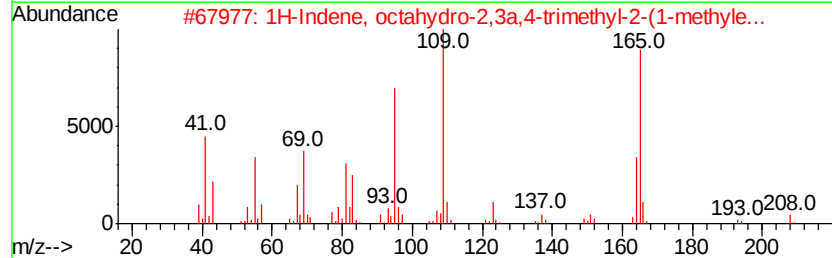
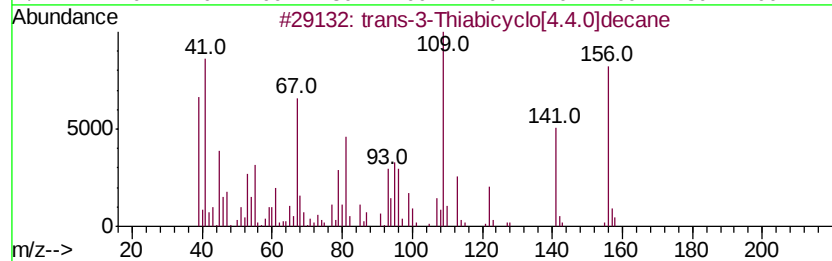
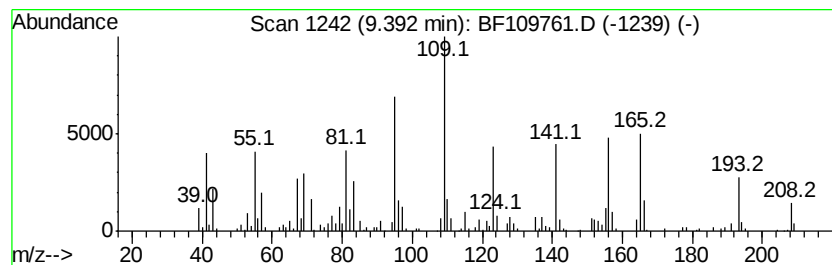
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 unknown9.39 Concentration Rank 12

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.39 | 6.10 ng | 300031 | Acenaphthene-d10 | 9.73 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|------|-------------------------------------|---|--------------|-----|-----------|--------------|------|
| 1    | trans-3-Thiabicvclo[4.4.0]decane    |   |              | 156 | C9H16S    | 057259-81-1  | 43   |
| 2    | 1H-Indene, octahydro-2,3a,4-trim... |   |              | 208 | C15H28    | 031230-13-4  | 35   |
| 3    | 4H-Chromene, 4a,5,6,7,8,8a-hexah... |   |              | 208 | C14H24O   | 1000196-77-4 | 18   |
| 4    | Cyclopentanecarboxylic acid, 1,2... |   |              | 253 | C14H23NO3 | 1000316-20-2 | 14   |
| 5    | trans-3(10)-Caren-2-ol              |   |              | 152 | C10H16O   | 1000151-66-5 | 14   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

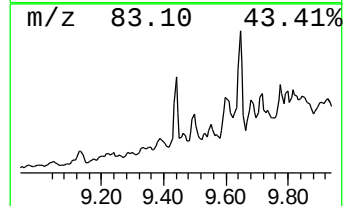
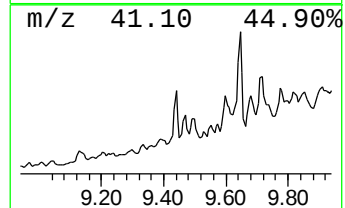
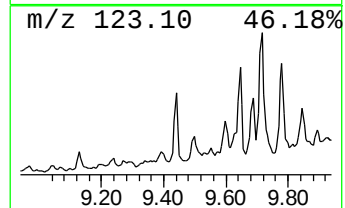
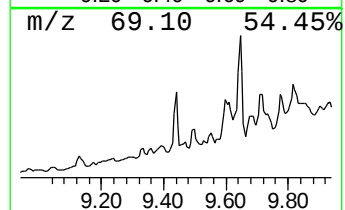
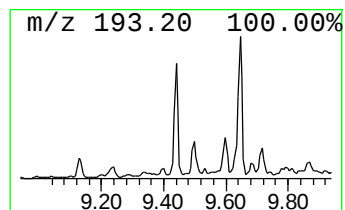
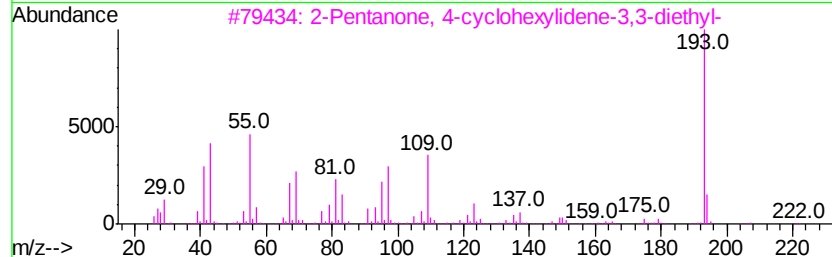
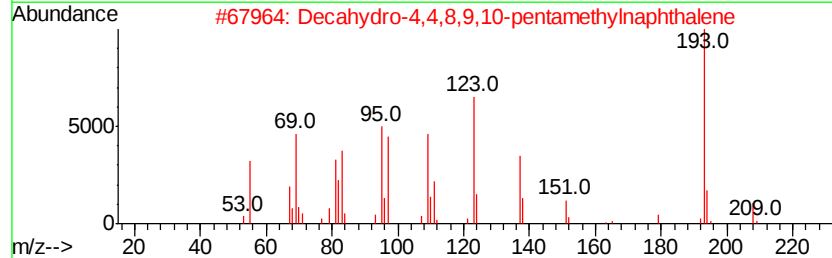
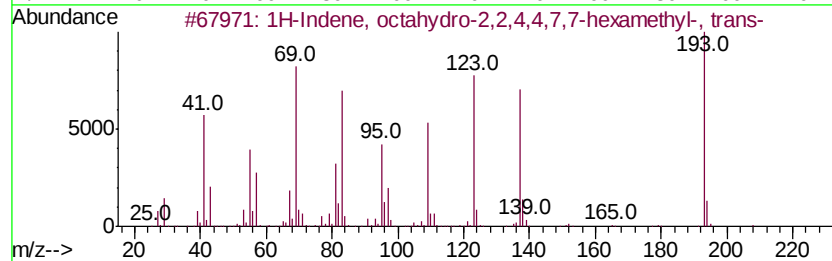
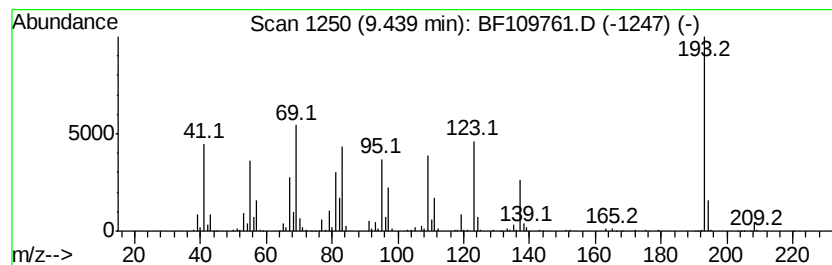
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 1H-Indene, octahydro-2,2,4,... Concentration Rank 6

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.44 | 16.27 ng | 800534 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1H-Indene, octahydro-2,2,4,4,7,7... | 208 | C15H28   | 054832-83-6 | 72   |
| 2    |    | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28   | 080655-44-3 | 56   |
| 3    |    | 2-Pentanone, 4-cyclohexylidene-3... | 222 | C15H26O  | 313253-65-5 | 38   |
| 4    |    | Pyrazole, 5-methyl-3-(5-nitro-2-... | 193 | C8H7N3O3 | 016239-90-0 | 22   |
| 5    |    | 9-Phenanthrenamine                  | 193 | C14H11N  | 000947-73-9 | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

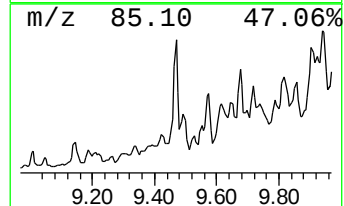
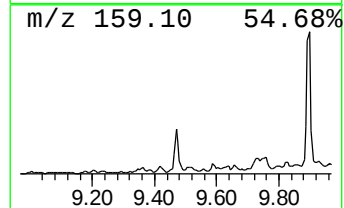
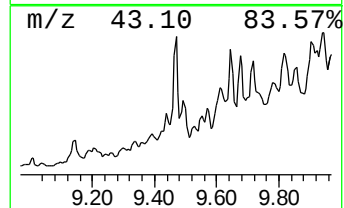
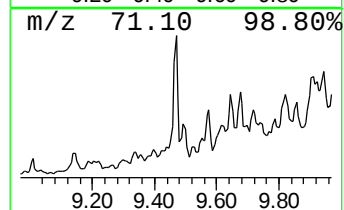
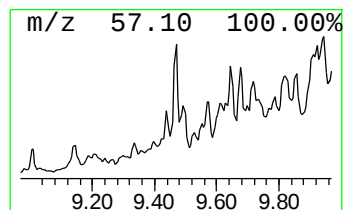
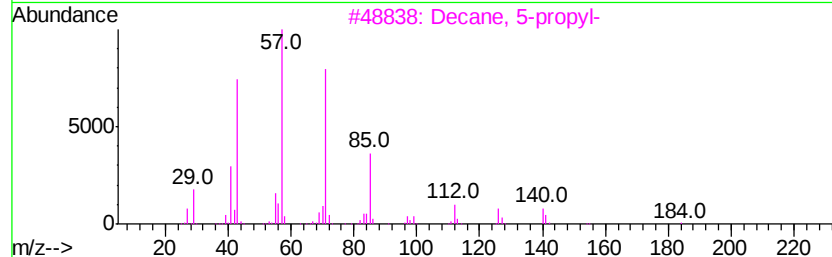
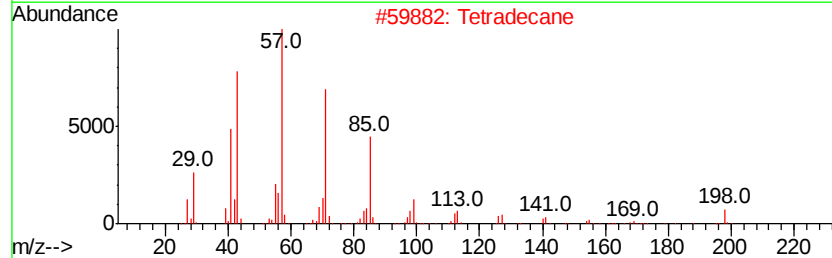
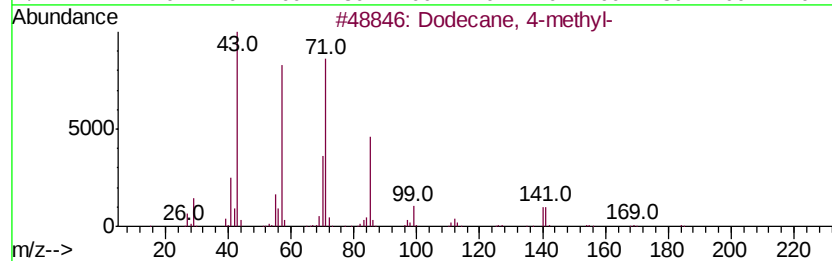
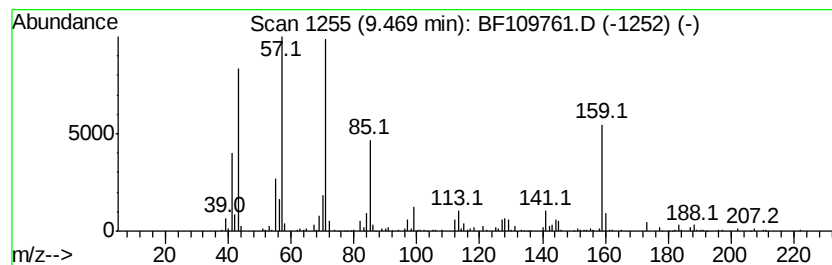
Instrument :  
BNA\_F  
ClientSampled :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Dodecane, 4-methyl- Concentration Rank 11

| R.T.    | EstConc                    | Area         | Relative to ISTD | R.T.      |
|---------|----------------------------|--------------|------------------|-----------|
| 9.47    | 7.77 ng                    | 382197       | Acenaphthene-d10 | 9.73      |
| Hit# of | 5                          | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Dodecane, 4-methyl-        | 184 C13H28   | 006117-97-1      | 70        |
| 2       | Tetradecane                | 198 C14H30   | 000629-59-4      | 64        |
| 3       | Decane, 5-propyl-          | 184 C13H28   | 017312-62-8      | 62        |
| 4       | Tridecane, 1-iodo-         | 310 C13H27I  | 035599-77-0      | 58        |
| 5       | Nonane, 5-methyl-5-propyl- | 184 C13H28   | 017312-75-3      | 50        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

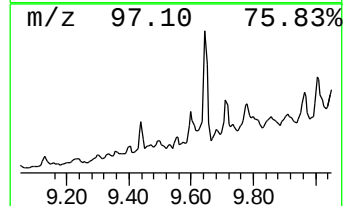
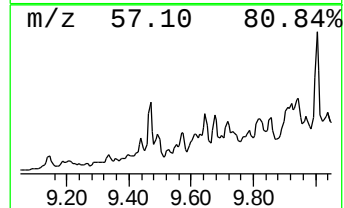
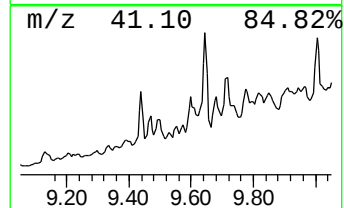
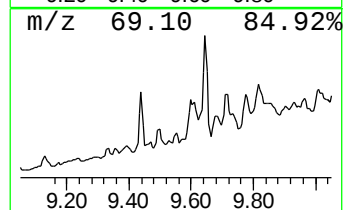
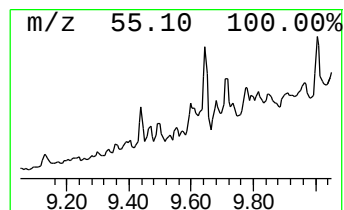
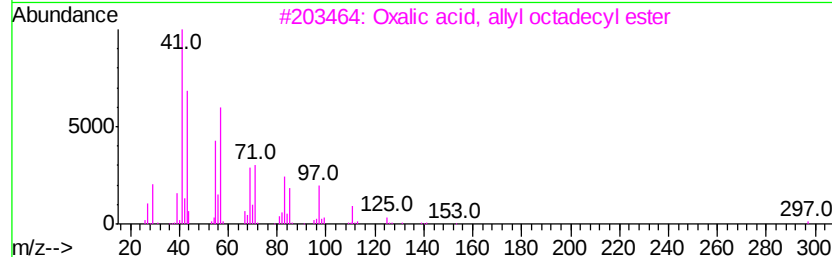
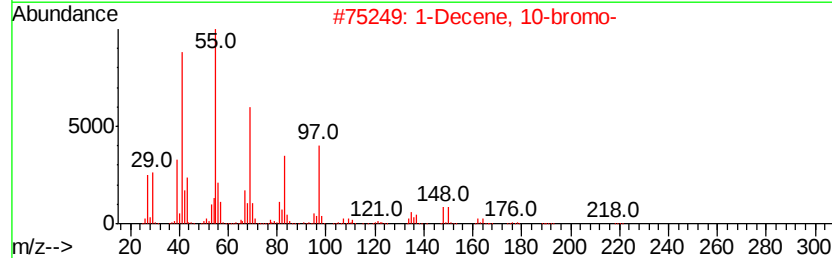
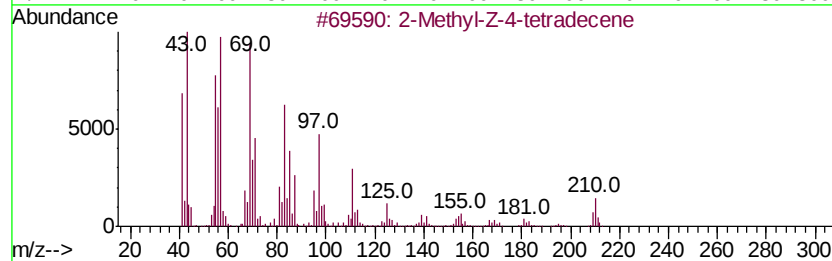
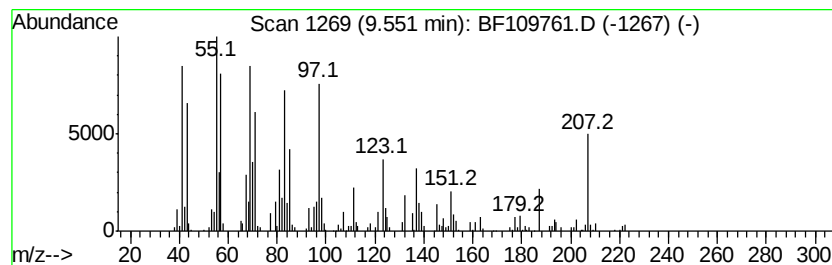
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown9.55 Concentration Rank 17

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.55 | 2.97 ng | 146138 | Acenaphthene-d10 | 9.73 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 2-Methyl-Z-4-tetradecene            | 210 | C15H30    | 1000130-78-3 | 47   |
| 2    |    |   | 1-Decene, 10-bromo-                 | 218 | C10H19Br  | 062871-09-4  | 45   |
| 3    |    |   | Oxalic acid, allyl octadecyl ester  | 382 | C23H42O4  | 1000309-24-5 | 43   |
| 4    |    |   | 3-Hexene, 3-ethyl-2,5-dimethyl-     | 140 | C10H20    | 062338-08-3  | 38   |
| 5    |    |   | Sulfurous acid, cyclohexylmethyl... | 416 | C24H48O3S | 1000309-22-5 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

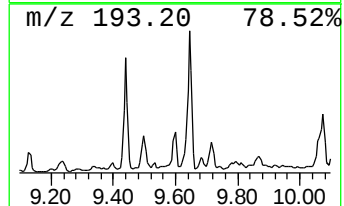
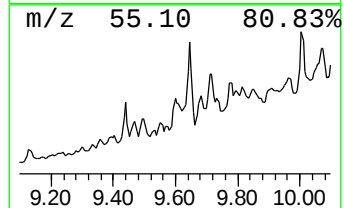
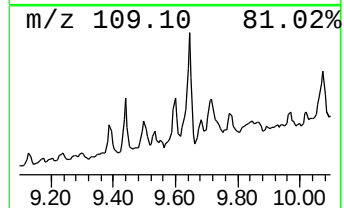
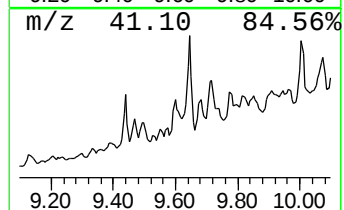
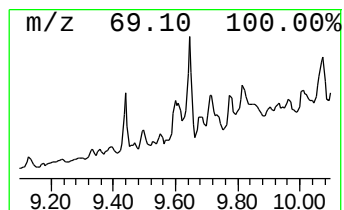
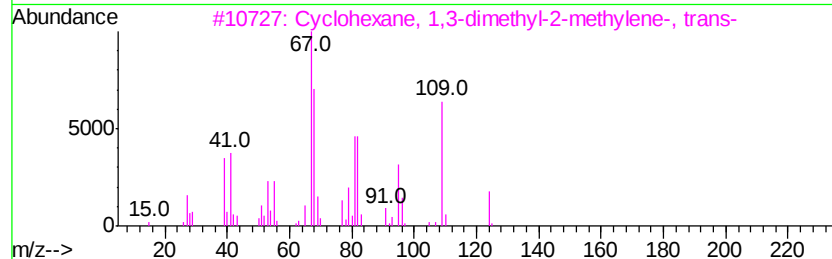
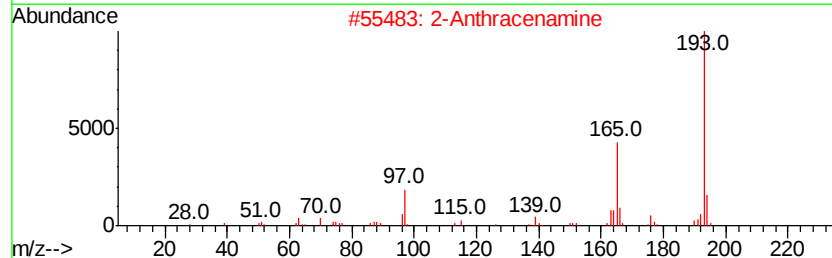
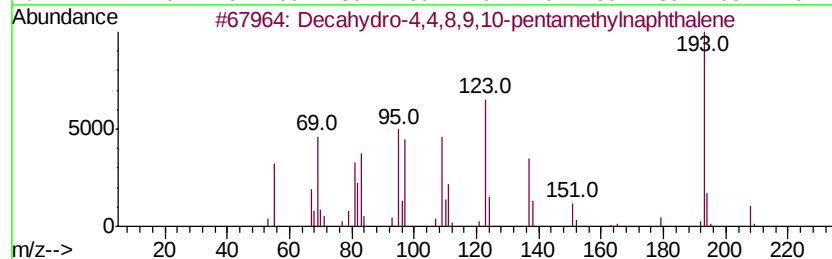
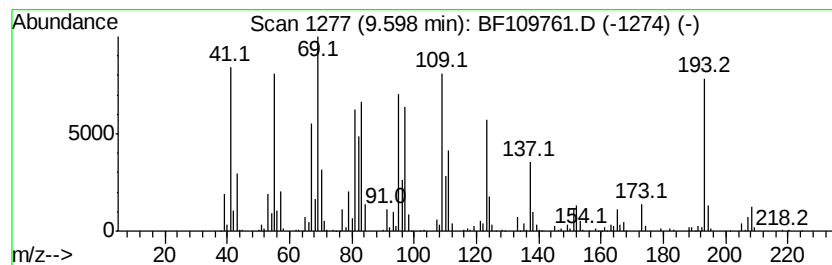
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Decahydro-4,4,8,9,10-pentam... Concentration Rank 5

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.60 | 23.89 ng | 1175420 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28   | 080655-44-3 | 96   |
| 2    |    | 2-Anthracenamine                    | 193 | C14H11N  | 000613-13-8 | 35   |
| 3    |    | Cyclohexane, 1,3-dimethyl-2-meth... | 124 | C9H16    | 020348-74-7 | 25   |
| 4    |    | 2,6-Heptadienal, 2,4-dimethyl-      | 138 | C9H14O   | 085136-08-9 | 25   |
| 5    |    | Borinic acid, diethyl-, 3,3,5-tr... | 208 | C13H25BO | 057387-76-5 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

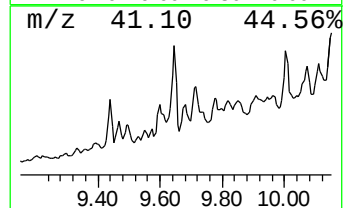
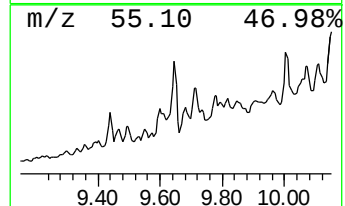
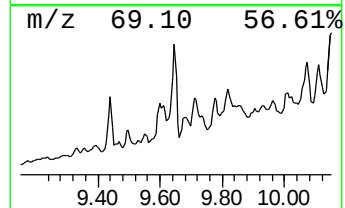
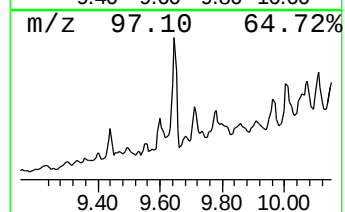
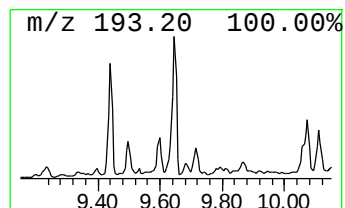
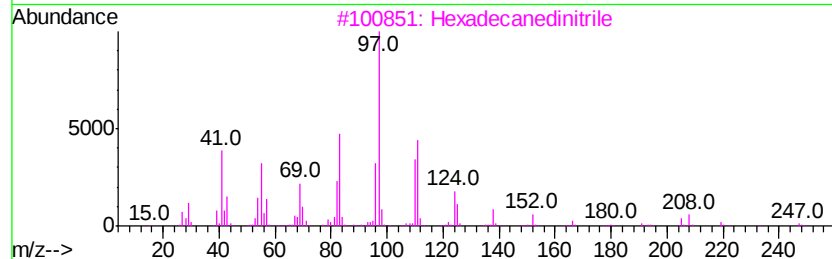
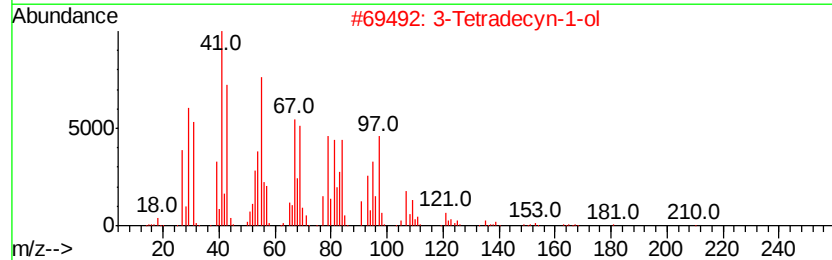
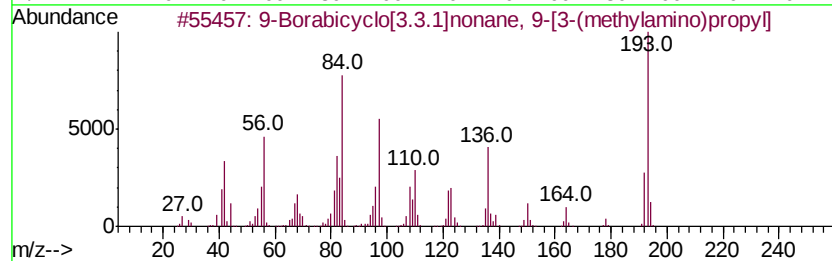
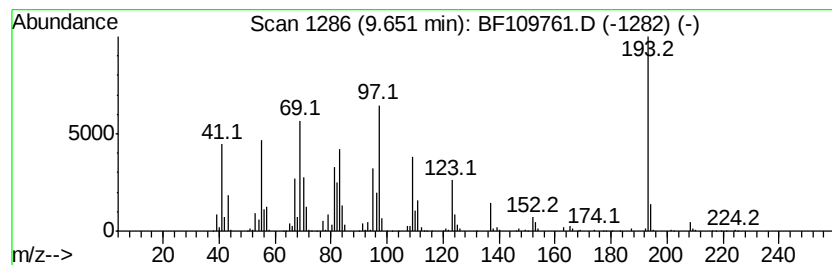
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown9.65 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.65 | 36.46 ng | 1793980 | Acenaphthene-d10 | 9.73 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 9-Borabicyclo[3.3.1]nonane, 9-[3... | 193 | C12H24BN     | 1000162-56-0 | 38      |      |      |
| 2    | 3-Tetradecyn-1-ol                   | 210 | C14H26O      | 055182-74-6  | 27      |      |      |
| 3    | Hexadecanedinitrile                 | 248 | C16H28N2     | 006812-44-8  | 22      |      |      |
| 4    | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18       | 000473-55-2  | 22      |      |      |
| 5    | Cyclododecanone, 2-methylene-       | 194 | C13H22O      | 003045-76-9  | 22      |      |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

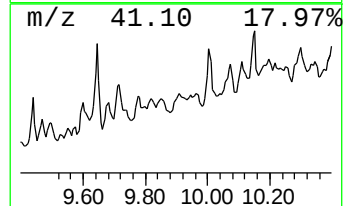
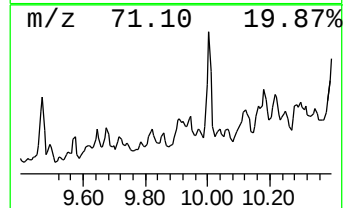
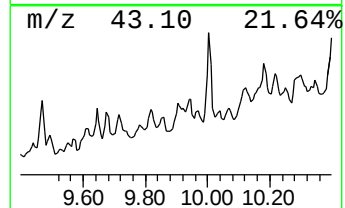
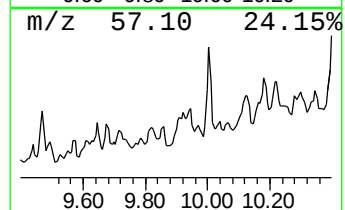
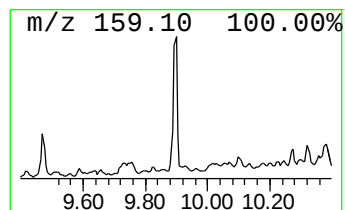
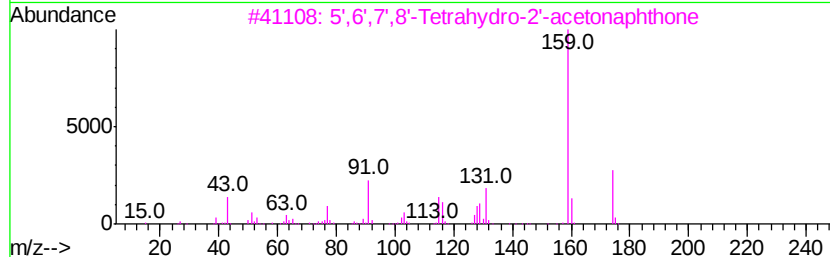
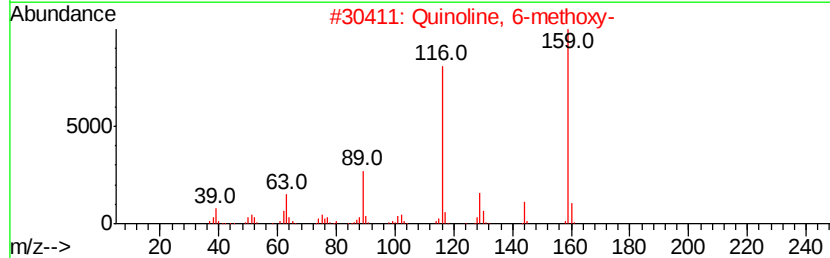
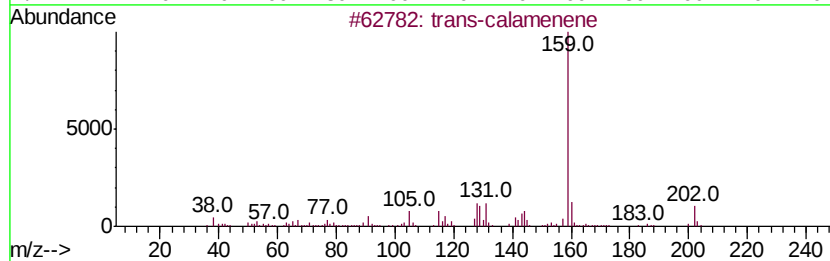
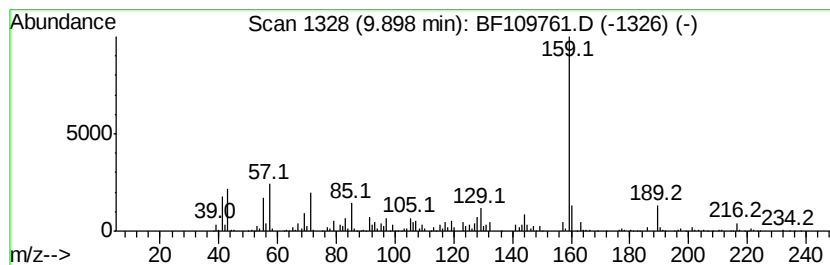
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 trans-calamenene Concentration Rank 8

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.90 | 10.66 ng | 524608 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | trans-calamenene                    | 202 | C15H22  | 1000374-17-3 | 50   |
| 2    |    | Quinoline, 6-methoxy-               | 159 | C10H9NO | 005263-87-6  | 49   |
| 3    |    | 5',6',7',8'-Tetrahydro-2'-aceton... | 174 | C12H14O | 000774-55-0  | 47   |
| 4    |    | 4-isopropyl-1,6-dimethyl-1,2,3,4... | 202 | C15H22  | 1000378-99-6 | 47   |
| 5    |    | Isoxazole, 5-methyl-4-phenyl-       | 159 | C10H9NO | 023253-49-8  | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

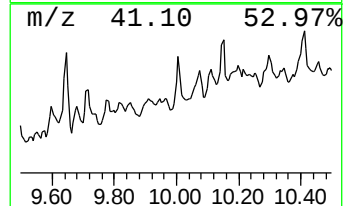
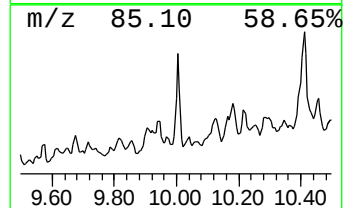
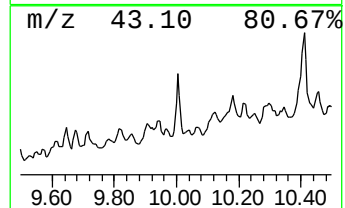
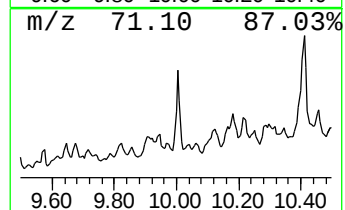
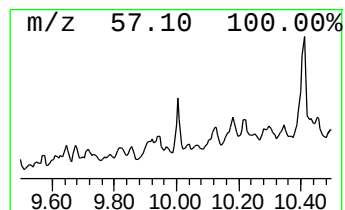
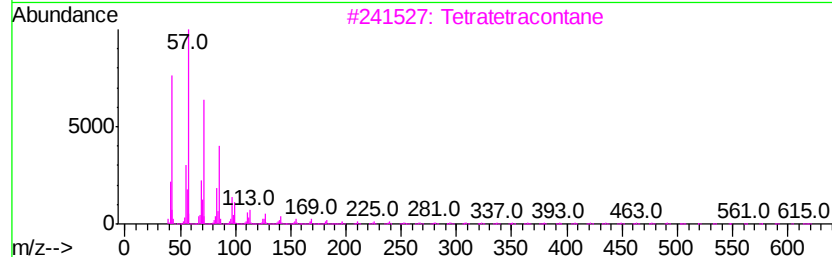
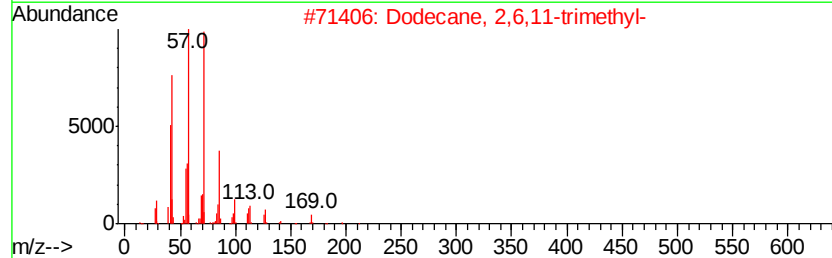
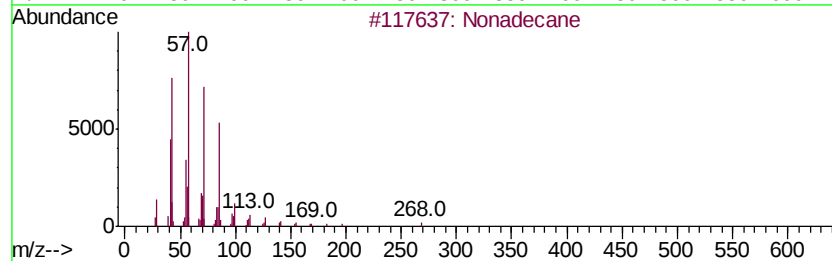
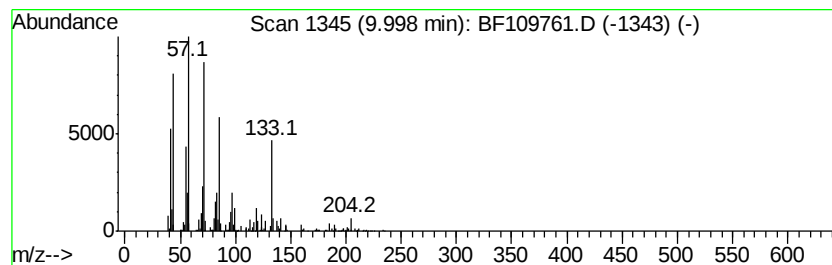
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 unknown10.00 Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T. |
|-------|----------|---------|------------------|------|
| 10.00 | 27.72 ng | 1363650 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane                  | 268 | C19H40  | 000629-92-5 | 49   |
| 2    |    | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 46   |
| 3    |    | Tetratetracontane           | 619 | C44H90  | 007098-22-8 | 43   |
| 4    |    | Decane, 2,3,5-trimethyl-    | 184 | C13H28  | 062238-11-3 | 43   |
| 5    |    | Dodecane, 4,6-dimethyl-     | 198 | C14H30  | 061141-72-8 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

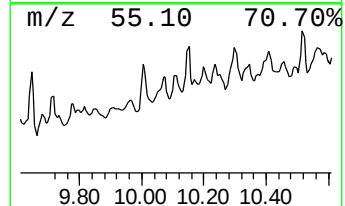
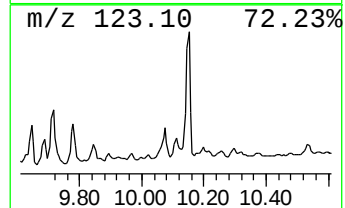
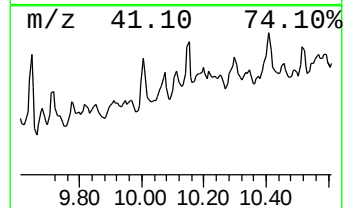
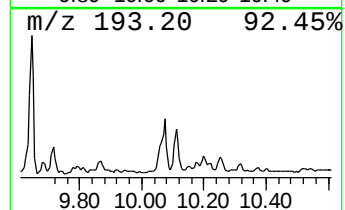
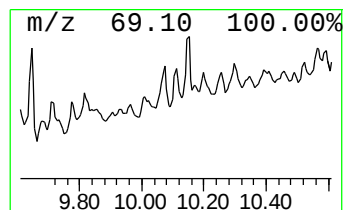
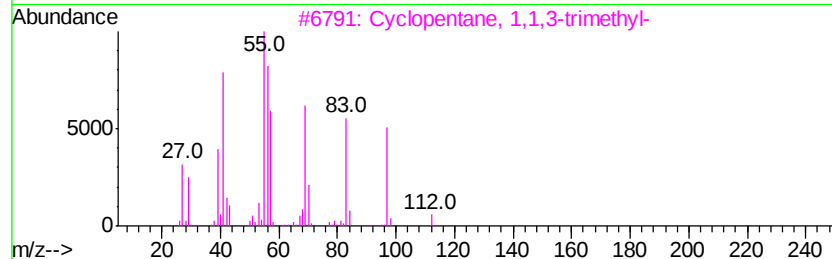
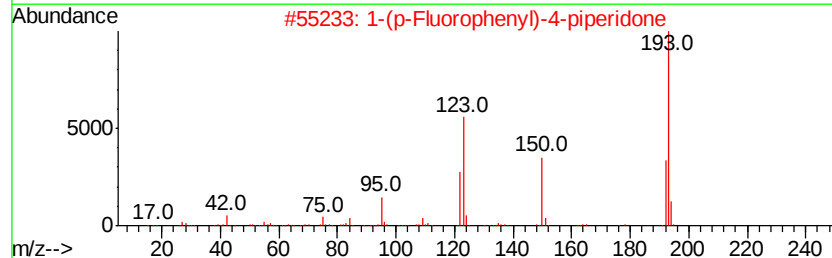
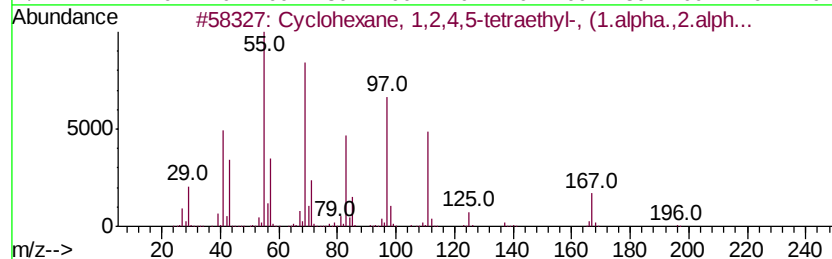
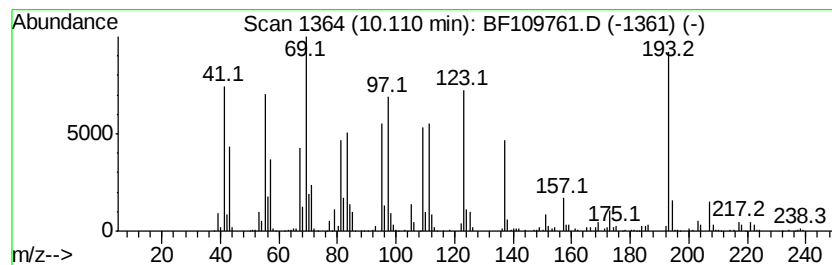
Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 unknown10.11 Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 10.11     | 15.65 ng                            | 770192 | Acenaphthene-d10 | 9.73         |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cvclohexane, 1,2,4,5-tetraethyl-... | 196    | C14H28           | 061142-24-3  | 41   |
| 2         | 1-(p-Fluorophenyl)-4-piperidone     | 193    | C11H12FNO        | 1000238-56-7 | 27   |
| 3         | Cyclopentane, 1,1,3-trimethyl-      | 112    | C8H16            | 004516-69-2  | 25   |
| 4         | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138    | C10H18           | 000473-19-8  | 25   |
| 5         | Neopentylidenecyclohexane           | 152    | C11H20           | 039546-80-0  | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

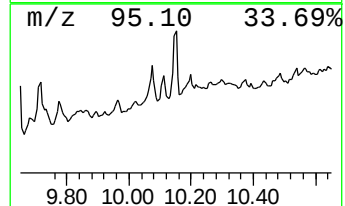
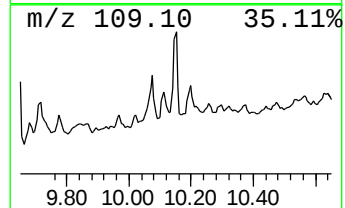
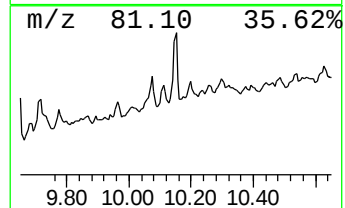
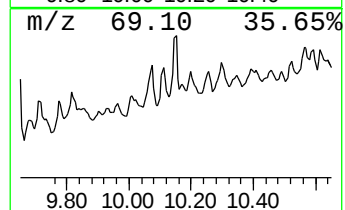
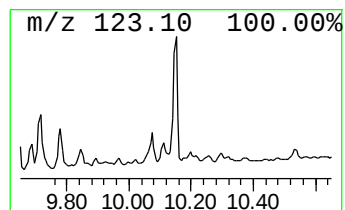
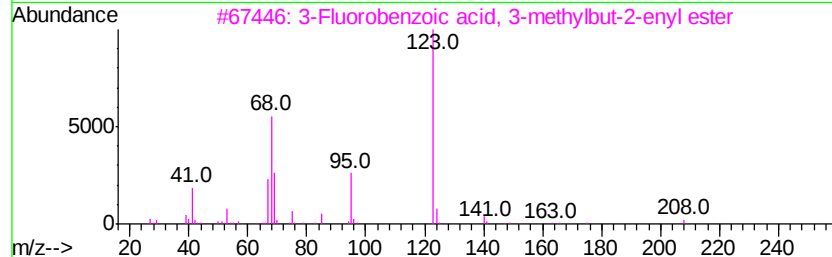
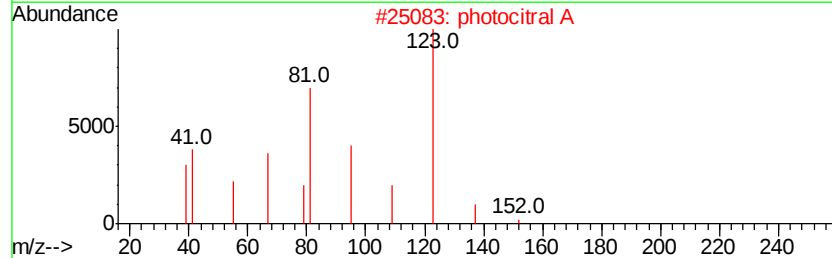
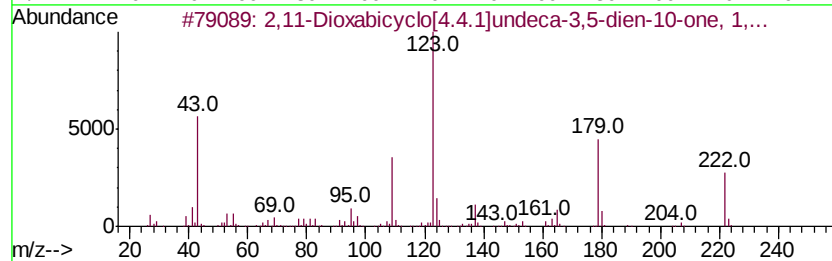
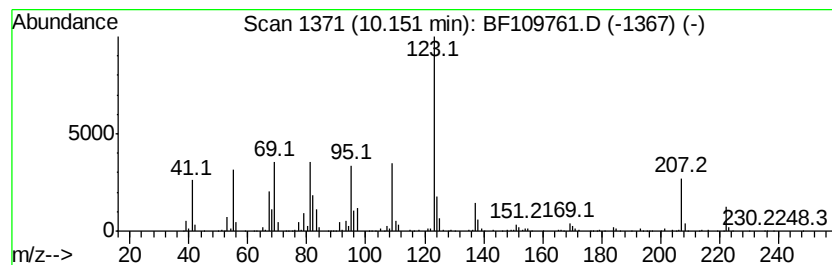
Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 2,11-Dioxabicyclo[4.4.1]und... Concentration Rank 3

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 10.15     | 30.59 ng                            | 1505020 | Acenaphthene-d10 | 9.73         |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | 2,11-Dioxabicyclo[4.4.1]undeca-3... | 222     | C13H18O3         | 070412-52-1  | 59   |
| 2         | photocitral A                       | 152     | C10H16O          | 055253-28-6  | 47   |
| 3         | 3-Fluorobenzoic acid, 3-methylbu... | 208     | C12H13FO2        | 154559-38-3  | 46   |
| 4         | 4-Fluorobenzoic acid, 3-methylbu... | 208     | C12H13FO2        | 1000299-15-1 | 43   |
| 5         | 4-Fluorobenzoic acid, 5-pentadec... | 350     | C22H35FO2        | 1000280-68-6 | 40   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\  
Data File : BF109761.D  
Acq On : 11 Oct 2018 00:02  
Operator : JU/SJ  
Sample : J5365-01 10X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

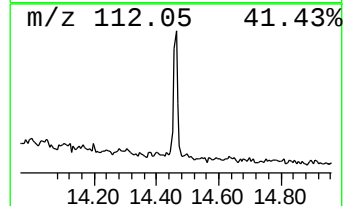
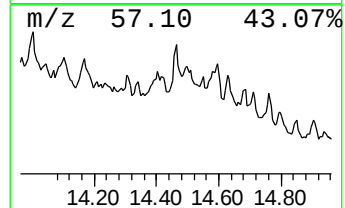
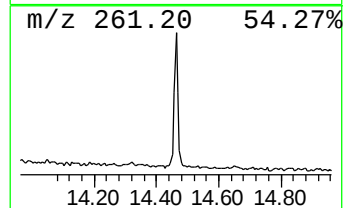
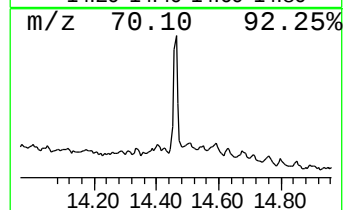
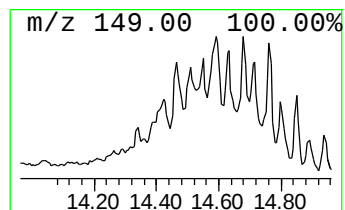
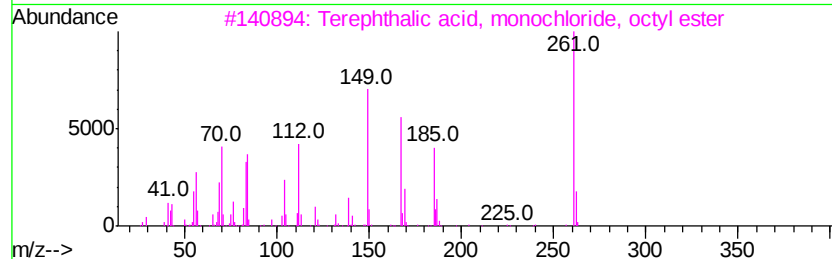
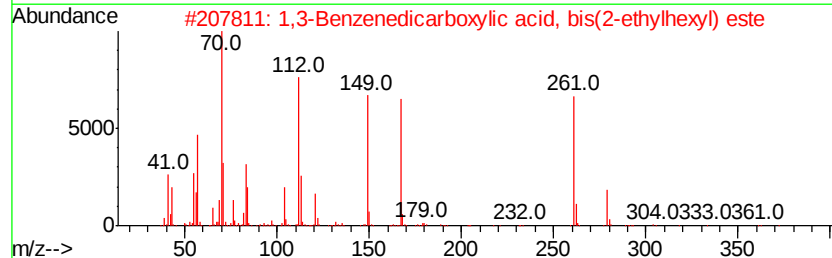
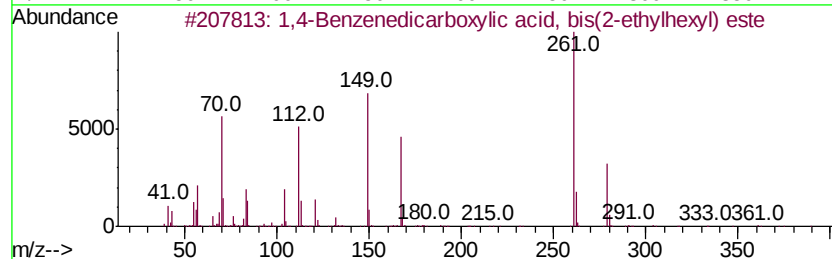
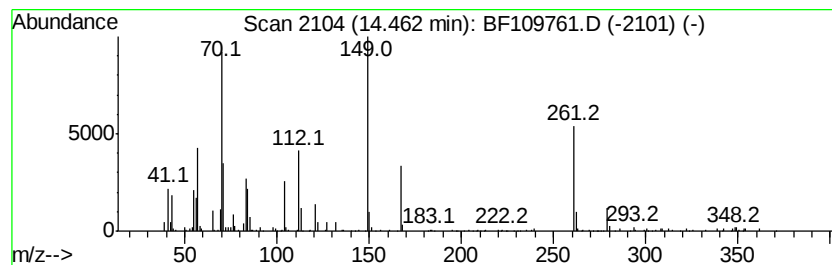
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown14.46 Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.46 | 5.04 ng | 158595 | Chrysene-d12     | 13.84 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 1,4-Benzenedicarboxylic acid, bi... | 390 | C24H38O4   | 006422-86-2  | 47   |
| 2    |    |   | 1,3-Benzenedicarboxylic acid, bi... | 390 | C24H38O4   | 000137-89-3  | 46   |
| 3    |    |   | Terephthalic acid, monochloride,... | 296 | C16H21ClO3 | 1000324-22-9 | 43   |
| 4    |    |   | Diisooctyl phthalate                | 390 | C24H38O4   | 000131-20-4  | 41   |
| 5    |    |   | Terephthalic acid, di(4-octyl) e... | 390 | C24H38O4   | 1000323-74-2 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF101018\  
 Data File : BF109761.D  
 Acq On : 11 Oct 2018 00:02  
 Operator : JU/SJ  
 Sample : J5365-01 10X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CY-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF100818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| Ethanol, 2-butoxy-   | 5.69  | 302.5   | ng    | 6187900  | 1                     | 6.69  | 409174 | 20.0 |
| unknown6.47          | 6.47  | 4.1     | ng    | 84061    | 1                     | 6.69  | 409174 | 20.0 |
| unknown9.13          | 9.13  | 7.9     | ng    | 389977   | 3                     | 9.73  | 984041 | 20.0 |
| unknown9.36          | 9.36  | 3.4     | ng    | 165888   | 3                     | 9.73  | 984041 | 20.0 |
| unknown9.39          | 9.39  | 6.1     | ng    | 300031   | 3                     | 9.73  | 984041 | 20.0 |
| 1H-Indene, octahy... | 9.44  | 16.3    | ng    | 800534   | 3                     | 9.73  | 984041 | 20.0 |
| Dodecane, 4-methyl-  | 9.47  | 7.8     | ng    | 382197   | 3                     | 9.73  | 984041 | 20.0 |
| unknown9.55          | 9.55  | 3.0     | ng    | 146138   | 3                     | 9.73  | 984041 | 20.0 |
| Decahydro-4,4,8,9... | 9.60  | 23.9    | ng    | 1175420  | 3                     | 9.73  | 984041 | 20.0 |
| unknown9.65          | 9.65  | 36.5    | ng    | 1793980  | 3                     | 9.73  | 984041 | 20.0 |
| trans-calamenene     | 9.90  | 10.7    | ng    | 524608   | 3                     | 9.73  | 984041 | 20.0 |
| unknown10.00         | 10.00 | 27.7    | ng    | 1363650  | 3                     | 9.73  | 984041 | 20.0 |
| unknown10.11         | 10.11 | 15.7    | ng    | 770192   | 3                     | 9.73  | 984041 | 20.0 |
| 2,11-Dioxabicyclo... | 10.15 | 30.6    | ng    | 1505020  | 3                     | 9.73  | 984041 | 20.0 |
| unknown14.46         | 14.46 | 5.0     | ng    | 158595   | 5                     | 13.84 | 628874 | 20.0 |