

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121918\  
 Data File : BF111603.D  
 Acq On : 19 Dec 2018 21:16  
 Operator : JU/SJ  
 Sample : J6464-04  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VB16202

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.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         | 2.204       | 16            | 20          | 27           | rVB      | 68082          | 97774         | 2.19%           | 0.258%        |
| 2         | 5.116       | 509           | 515         | 523          | rVB      | 188071         | 263201        | 5.89%           | 0.695%        |
| 3         | 5.516       | 577           | 583         | 586          | rBV      | 4267686        | 3997207       | 89.51%          | 10.558%       |
| 4         | 6.516       | 748           | 753         | 764          | rBV      | 4187592        | 4465631       | 100.00%         | 11.795%       |
| 5         | 6.663       | 773           | 778         | 781          | rBV      | 4493369        | 4152268       | 92.98%          | 10.967%       |
| 6         | 6.892       | 814           | 817         | 821          | rVB      | 1217581        | 976427        | 21.87%          | 2.579%        |
| 7         | 7.051       | 840           | 844         | 847          | rBV      | 3215510        | 2658949       | 59.54%          | 7.023%        |
| 8         | 7.451       | 907           | 912         | 915          | rBV      | 2738073        | 2428675       | 54.39%          | 6.415%        |
| 9         | 8.175       | 1031          | 1035        | 1038         | rBV      | 1512386        | 1216478       | 27.24%          | 3.213%        |
| 10        | 9.245       | 1213          | 1217        | 1221         | rBV      | 3544221        | 3266031       | 73.14%          | 8.626%        |
| 11        | 9.639       | 1281          | 1284        | 1286         | rBV      | 399659         | 332301        | 7.44%           | 0.878%        |
| 12        | 9.733       | 1294          | 1300        | 1307         | rBV      | 268939         | 251373        | 5.63%           | 0.664%        |
| 13        | 9.892       | 1323          | 1327        | 1330         | rBV      | 363318         | 343498        | 7.69%           | 0.907%        |
| 14        | 9.927       | 1330          | 1333        | 1337         | rVB      | 1531421        | 1300457       | 29.12%          | 3.435%        |
| 15        | 10.127      | 1364          | 1367        | 1373         | rVB      | 91499          | 83165         | 1.86%           | 0.220%        |
| 16        | 10.245      | 1384          | 1387        | 1391         | rBV      | 240310         | 209048        | 4.68%           | 0.552%        |
| 17        | 10.710      | 1462          | 1466        | 1469         | rBV      | 3012515        | 2591404       | 58.03%          | 6.845%        |
| 18        | 10.857      | 1485          | 1491        | 1495         | rBV      | 188903         | 197515        | 4.42%           | 0.522%        |
| 19        | 11.410      | 1581          | 1585        | 1588         | rBV      | 1448011        | 1194749       | 26.75%          | 3.156%        |
| 20        | 11.939      | 1671          | 1675        | 1687         | rBV      | 490369         | 483721        | 10.83%          | 1.278%        |
| 21        | 12.621      | 1787          | 1791        | 1792         | rBV2     | 46560          | 48871         | 1.09%           | 0.129%        |
| 22        | 12.645      | 1792          | 1795        | 1804         | rVV2     | 115537         | 188521        | 4.22%           | 0.498%        |
| 23        | 12.721      | 1804          | 1808        | 1815         | rVB      | 118195         | 139540        | 3.12%           | 0.369%        |
| 24        | 12.992      | 1850          | 1854        | 1857         | rBV      | 3323182        | 2742088       | 61.40%          | 7.243%        |
| 25        | 13.886      | 2003          | 2006        | 2011         | rBV4     | 127504         | 159919        | 3.58%           | 0.422%        |
| 26        | 14.039      | 2028          | 2032        | 2036         | rBV      | 1357369        | 1254938       | 28.10%          | 3.315%        |
| 27        | 14.215      | 2059          | 2062        | 2066         | rBV      | 74906          | 75245         | 1.68%           | 0.199%        |
| 28        | 14.521      | 2111          | 2114        | 2120         | rVB      | 101790         | 96873         | 2.17%           | 0.256%        |
| 29        | 14.833      | 2164          | 2167        | 2174         | rVB      | 137317         | 144517        | 3.24%           | 0.382%        |
| 30        | 15.180      | 2222          | 2226        | 2229         | rVB      | 143238         | 162999        | 3.65%           | 0.431%        |
| 31        | 15.515      | 2277          | 2283        | 2287         | rBV      | 1023516        | 1283397       | 28.74%          | 3.390%        |
| 32        | 15.562      | 2287          | 2291        | 2299         | rVB      | 161588         | 230545        | 5.16%           | 0.609%        |
| 33        | 16.009      | 2362          | 2367        | 2372         | rBV      | 125587         | 198746        | 4.45%           | 0.525%        |
| 34        | 16.239      | 2401          | 2406        | 2417         | rVB3     | 175674         | 314483        | 7.04%           | 0.831%        |

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Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

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-BF121918.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 35 | 16.451 | 2438 | 2442 | 2447 | rVB8 | 46486 | 77187  | 1.73% | 0.204% |
| 36 | 16.533 | 2451 | 2456 | 2462 | rVB  | 88216 | 156011 | 3.49% | 0.412% |
| 37 | 17.133 | 2554 | 2558 | 2563 | rVB2 | 39194 | 77014  | 1.72% | 0.203% |

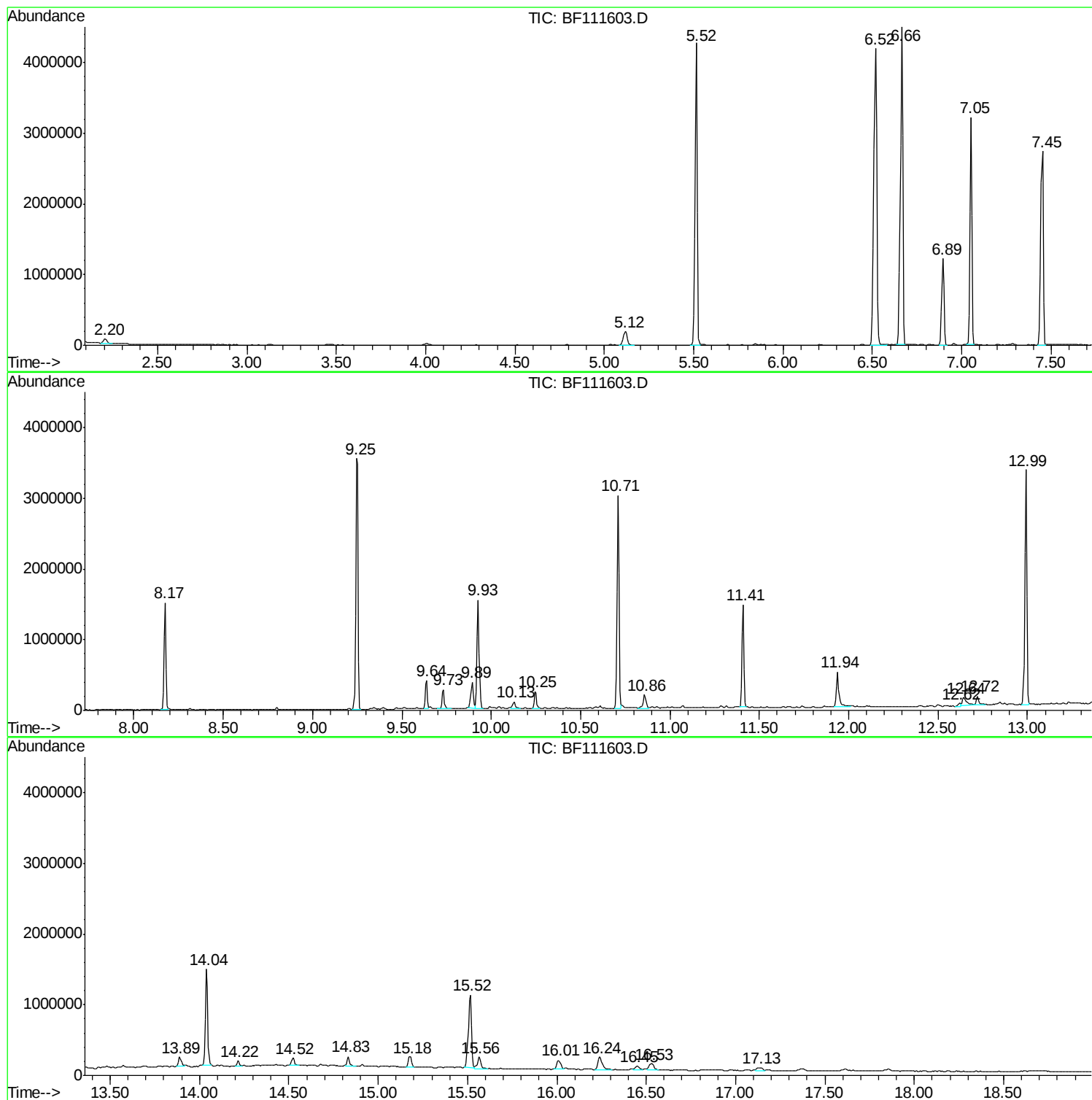
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ClientSampled :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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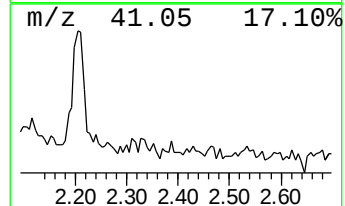
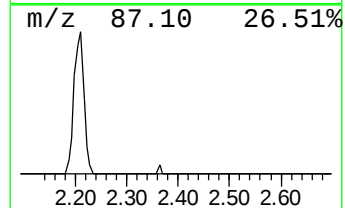
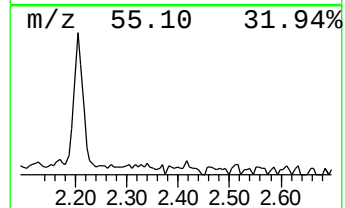
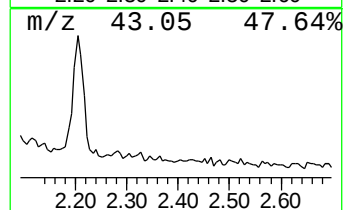
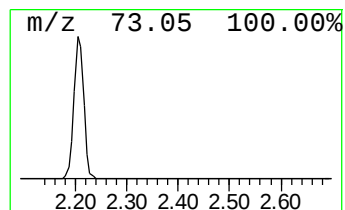
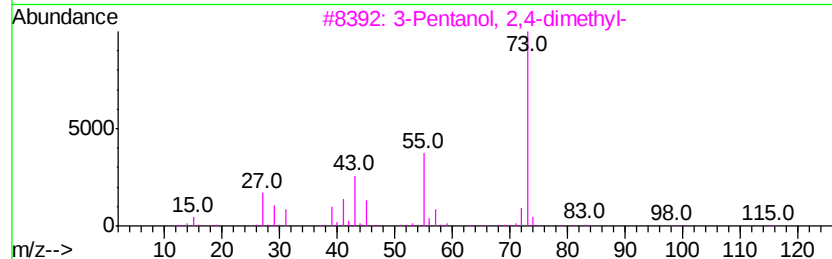
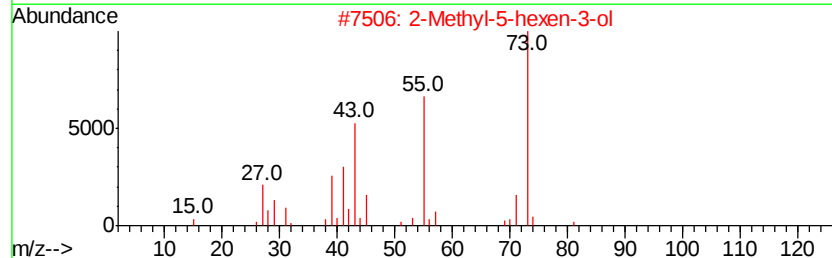
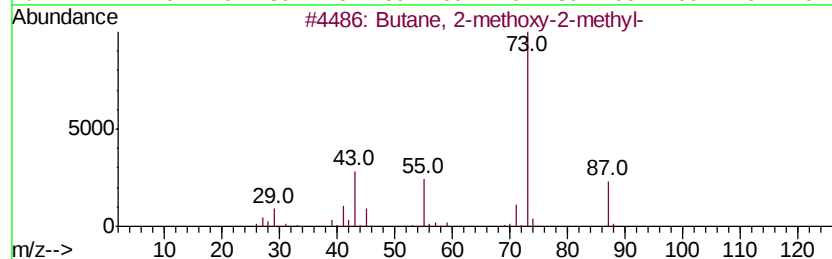
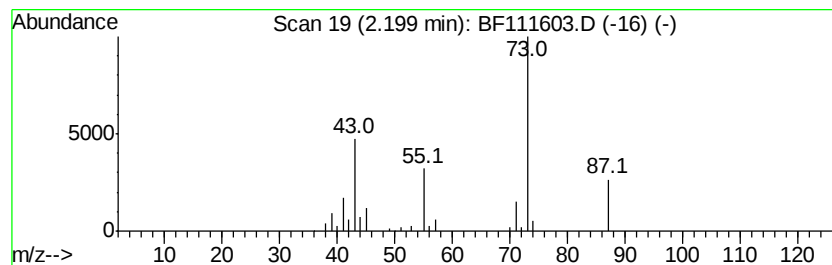
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 16

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 2.20 | 2.00 ng | 97774 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 2-Methyl-5-hexen-3-ol       | 114 | C7H14O  | 032815-70-6 | 37   |
| 3    |    | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 25   |
| 4    |    | 3-Hexanol, 2-methyl-        | 116 | C7H16O  | 000617-29-8 | 17   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

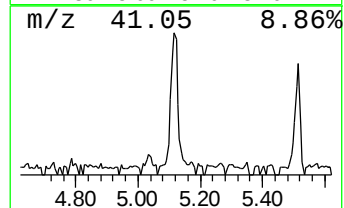
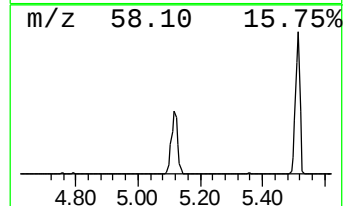
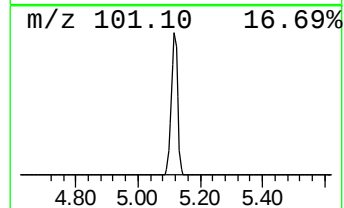
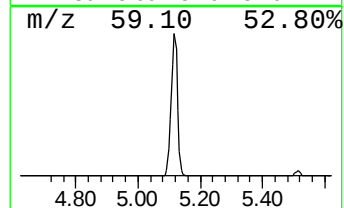
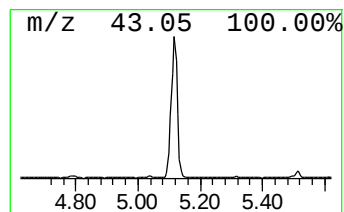
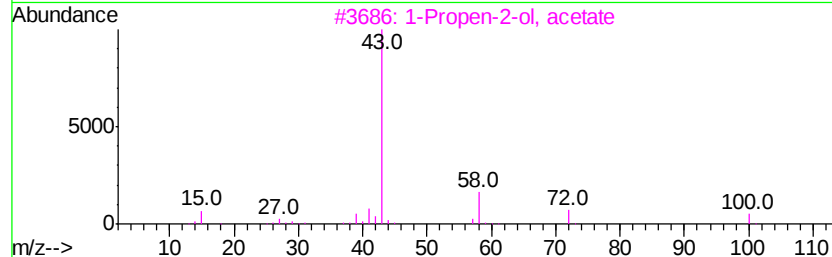
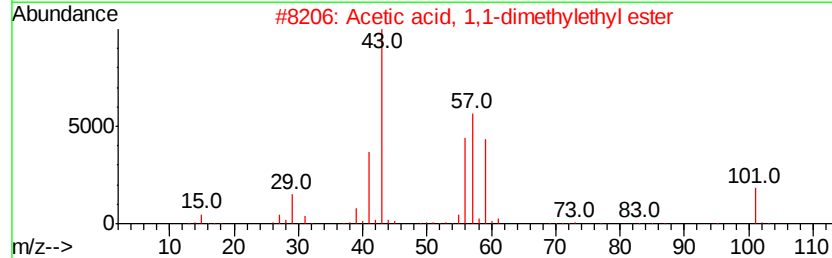
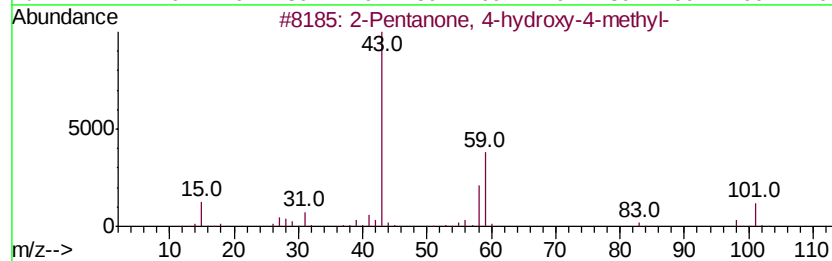
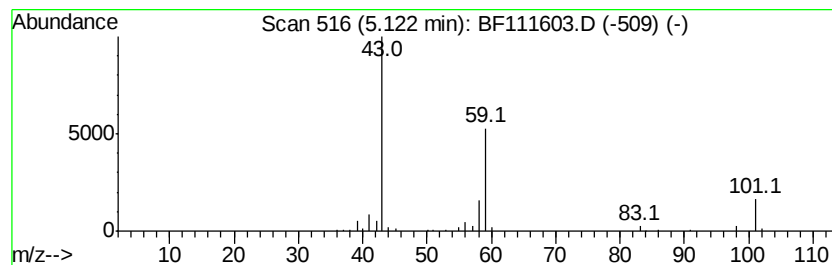
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.12 | 5.39 ng | 263201 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 56   |
| 2    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 38   |
| 3    |    | 1-Propen-2-ol, acetate              | 100 | C5H8O2  | 000108-22-5 | 10   |
| 4    |    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2 | 000057-71-6 | 10   |
| 5    |    | 2-Propanone, 1-(1-methylethoxy)-    | 116 | C6H12O2 | 042781-12-4 | 9    |



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Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

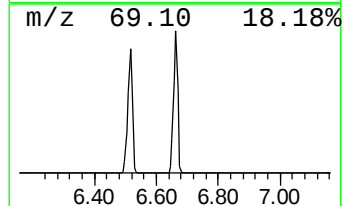
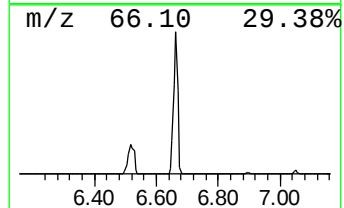
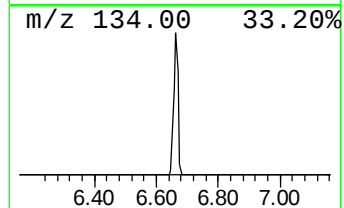
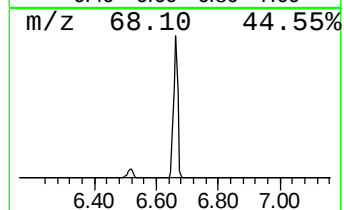
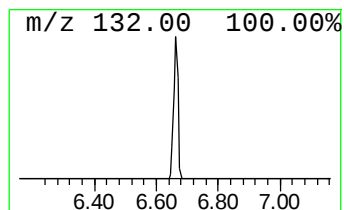
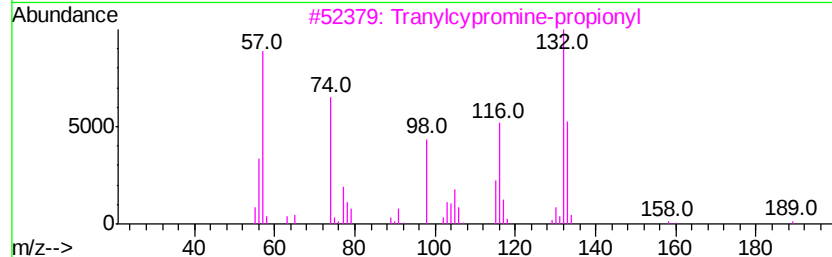
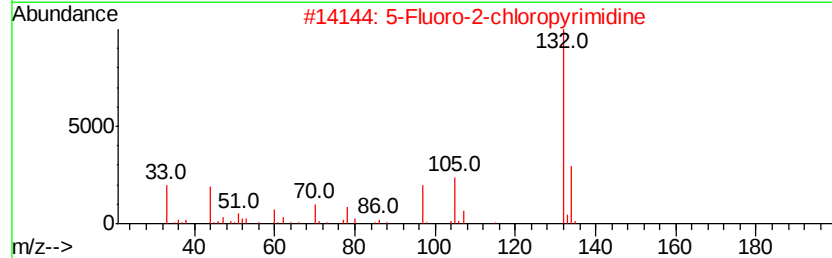
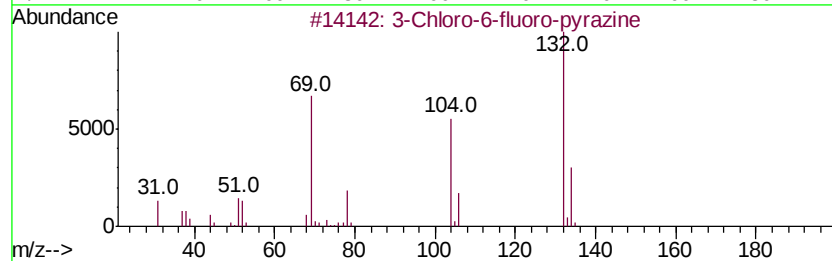
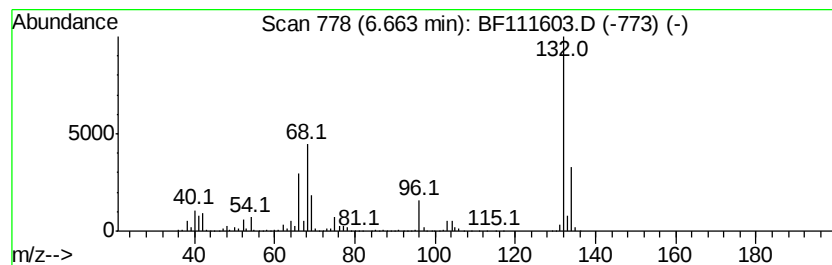
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.66 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 85.05 ng | 4152270 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of                                   | 5 | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|------|--------------------------------------|---|--------------|-----|-----------|--------------|------|
| 1    | 3-Chloro-6-fluoro-pyrazine           |   |              | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    | 5-Fluoro-2-chloropyrimidine          |   |              | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    | Tranvlcvpromine-propionyl            |   |              | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    | (E)-3-Chloro-2-methyl-2-pentenal     |   |              | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 5    | Bicyclo[4.2.0]octa-1,3,5-triene, ... |   |              | 132 | C10H12    | 028749-81-7  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

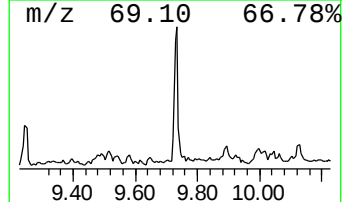
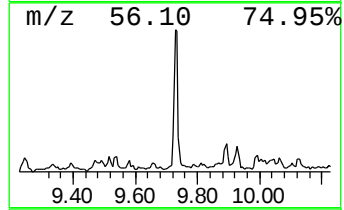
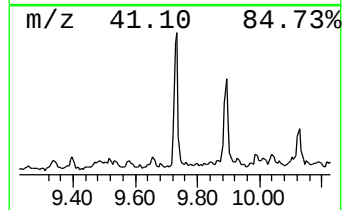
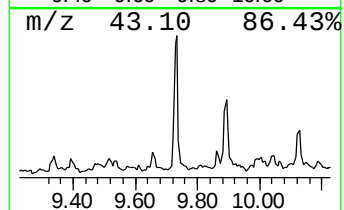
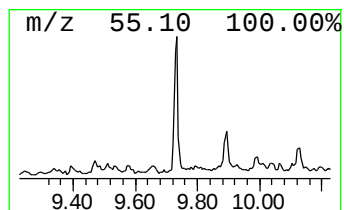
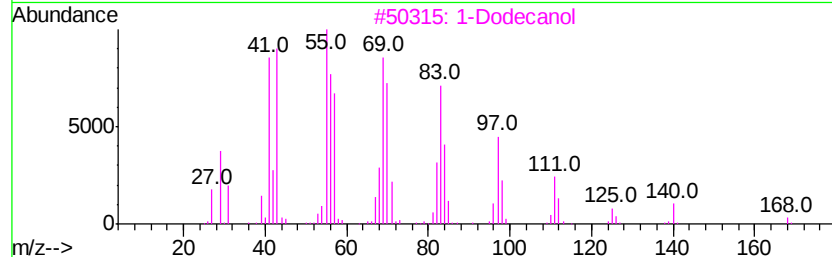
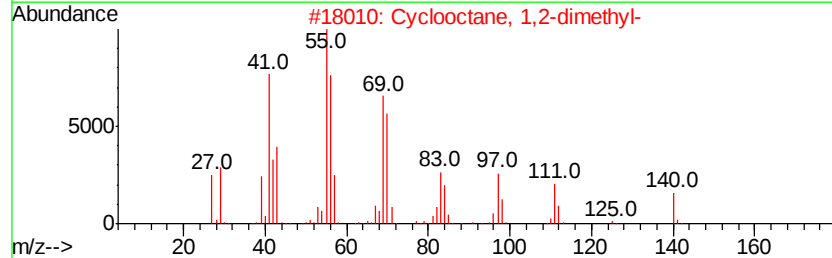
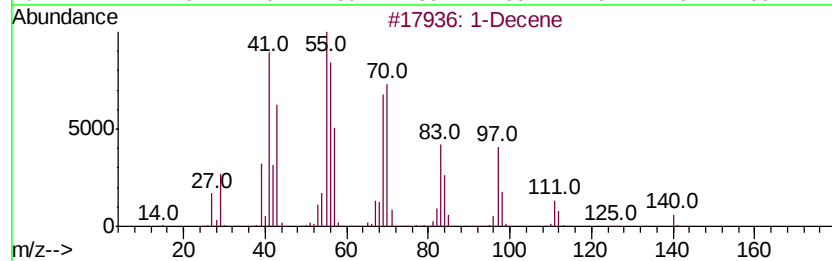
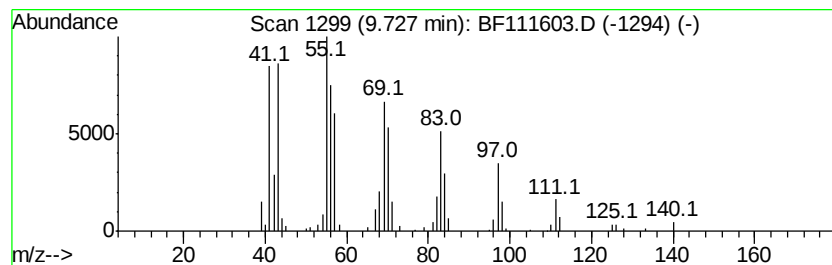
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1-Decene Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.73 | 3.87 ng | 251373 | Acenaphthene-d10 | 9.93 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Decene                   | 140 | C10H20  | 000872-05-9 | 95   |
| 2    |    | Cyclooctane, 1,2-dimethyl- | 140 | C10H20  | 013151-94-5 | 93   |
| 3    |    | 1-Dodecanol                | 186 | C12H26O | 000112-53-8 | 91   |
| 4    |    | Cyclopropane, nonyl-       | 168 | C12H24  | 074663-85-7 | 91   |
| 5    |    | Cyclodecane, methyl-       | 154 | C11H22  | 013151-43-4 | 91   |



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VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

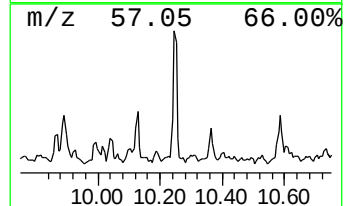
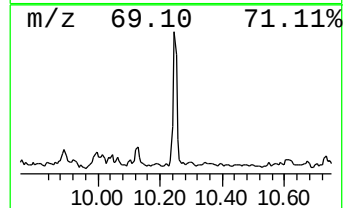
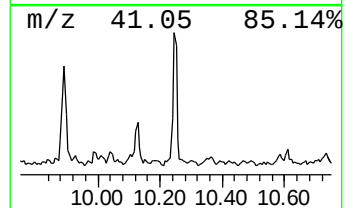
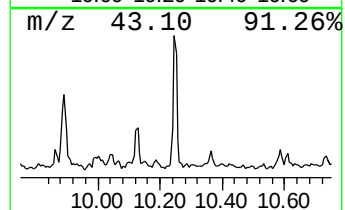
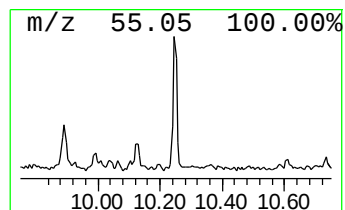
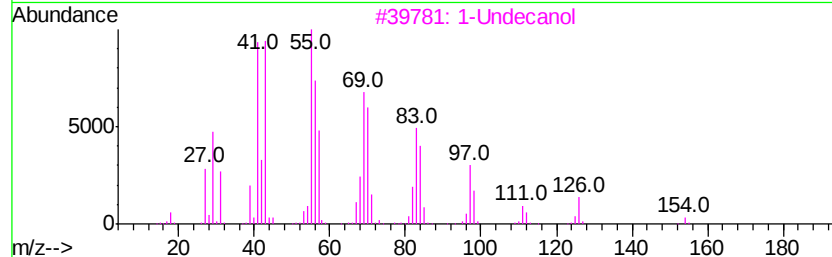
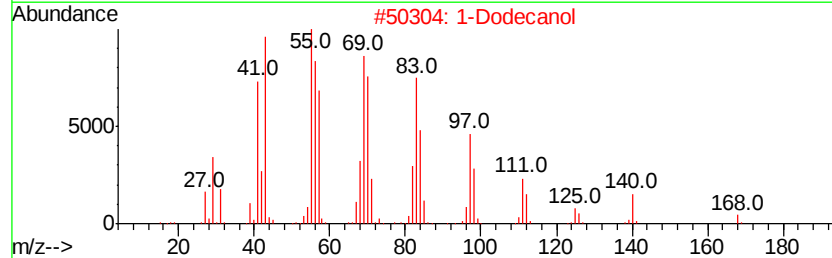
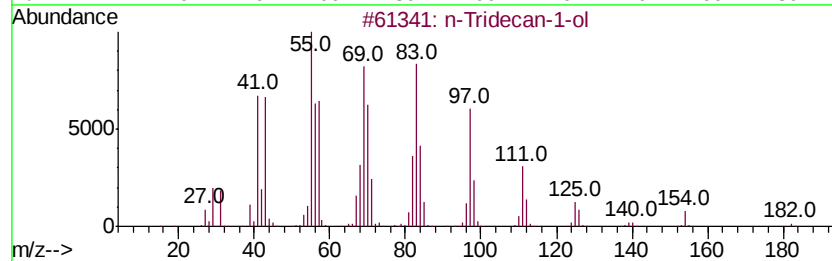
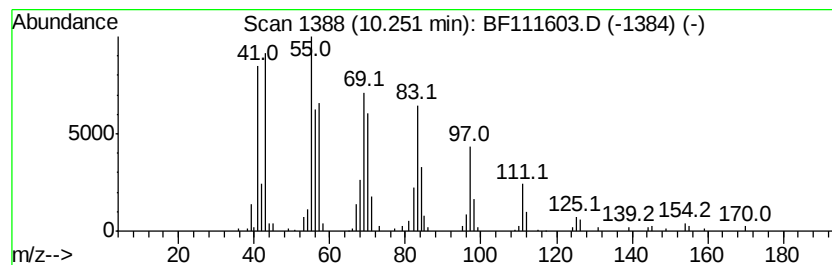
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 n-Tridecan-1-ol Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.25 | 3.21 ng | 209048 | Acenaphthene-d10 | 9.93 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | n-Tridecan-1-ol                     | 200 | C13H28O     | 000112-70-9 | 91   |
| 2    |    | 1-Dodecanol                         | 186 | C12H26O     | 000112-53-8 | 91   |
| 3    |    | 1-Undecanol                         | 172 | C11H24O     | 000112-42-5 | 83   |
| 4    |    | Trichloroacetic acid, dodecyl ester | 330 | C14H25Cl3O2 | 074339-50-7 | 83   |
| 5    |    | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

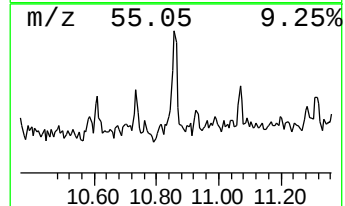
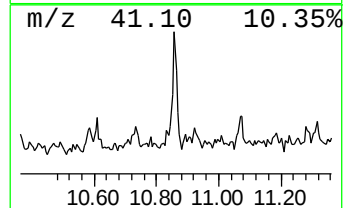
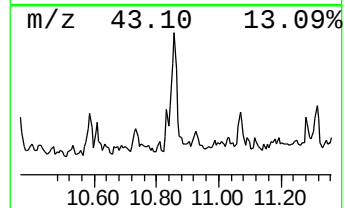
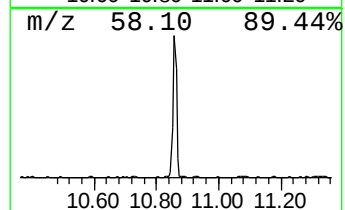
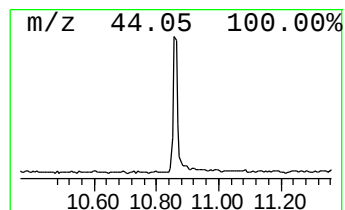
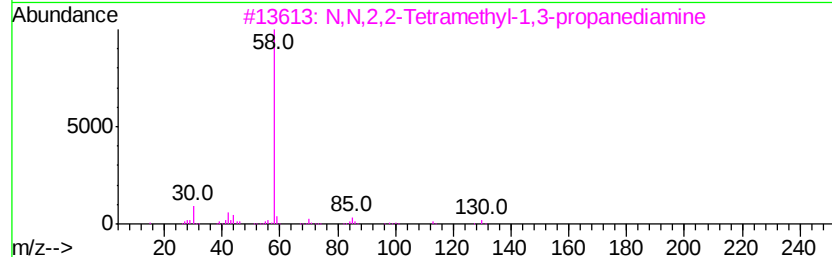
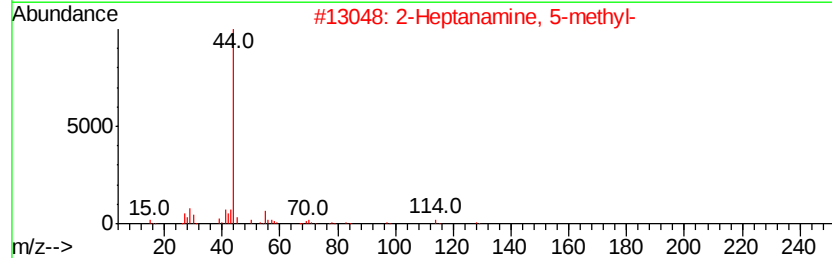
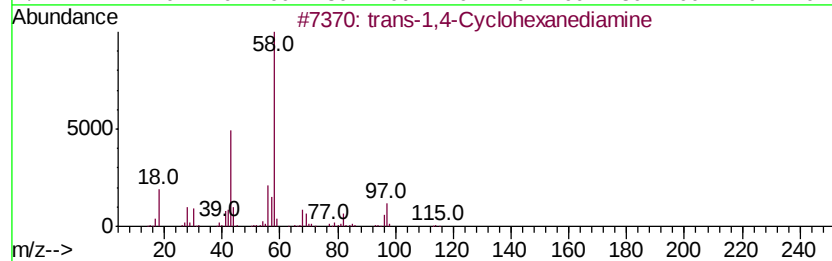
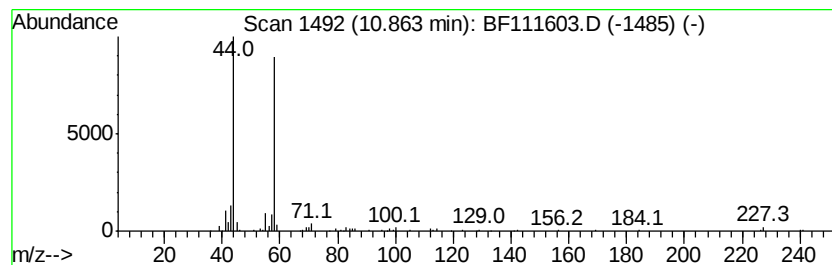
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown10.86 Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.86 | 3.31 ng | 197515 | Phenanthrene-d10 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | trans-1,4-Cyclohexanediamine        | 114 | C6H14N2 | 003114-70-3 | 43   |
| 2    |    | 2-Heptanamine, 5-methyl-            | 129 | C8H19N  | 053907-81-6 | 35   |
| 3    |    | N,N,2,2-Tetramethyl-1,3-propaned... | 130 | C7H18N2 | 053369-71-4 | 32   |
| 4    |    | Undecanal, 2-methyl-                | 184 | C12H24O | 000110-41-8 | 32   |
| 5    |    | Cyclobutanol                        | 72  | C4H8O   | 002919-23-5 | 27   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

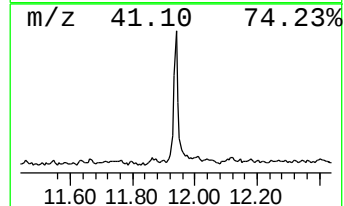
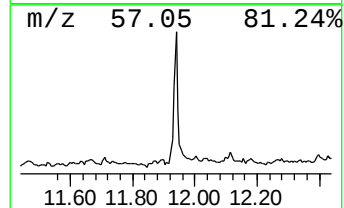
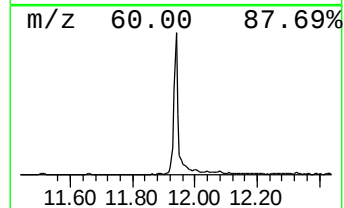
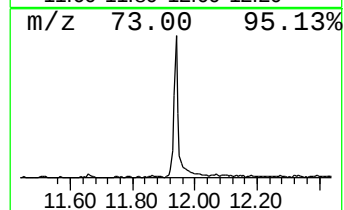
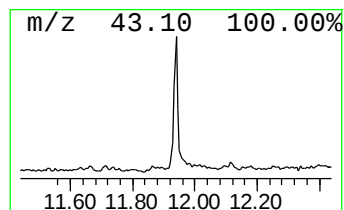
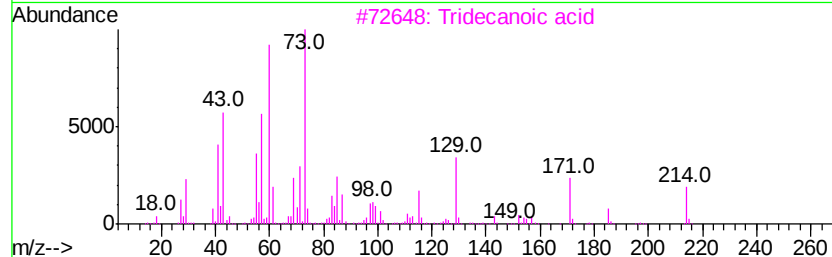
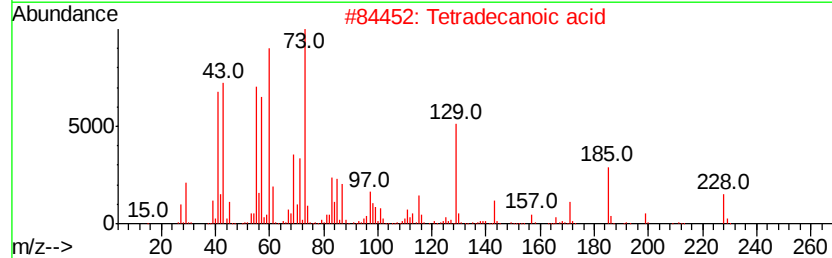
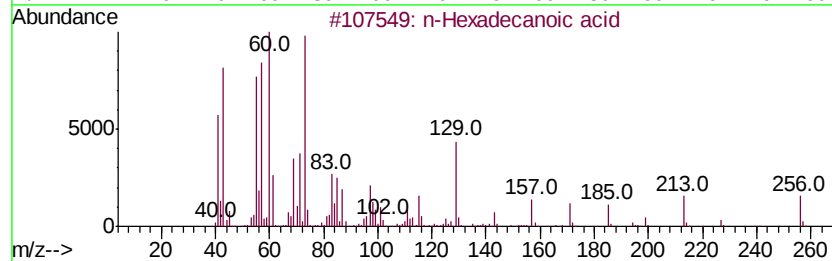
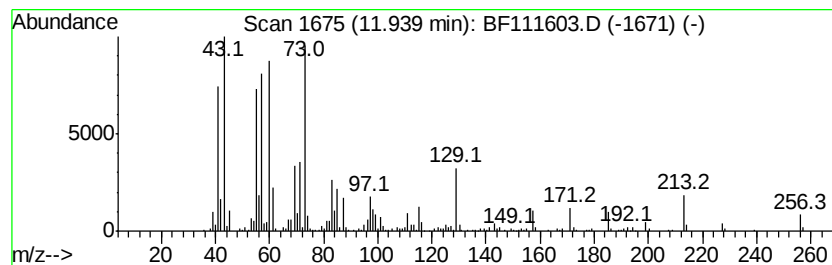
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.94 | 8.10 ng | 483721 | Phenanthrene-d10 | 11.41 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 93   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 5    |    | Nonanoic acid       | 158 | C9H18O2  | 000112-05-0 | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

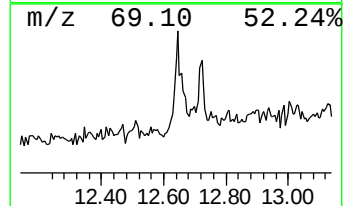
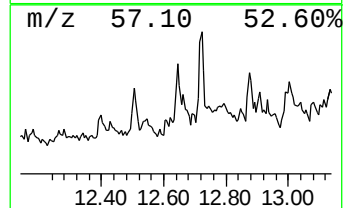
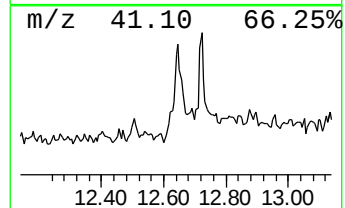
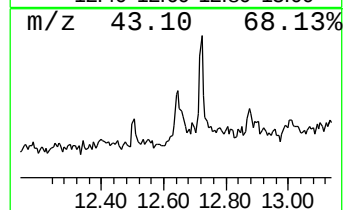
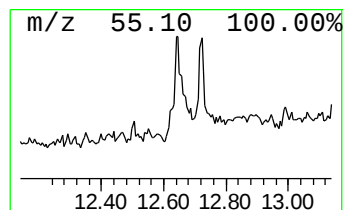
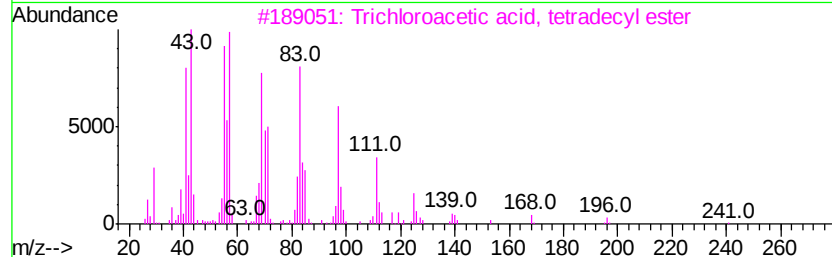
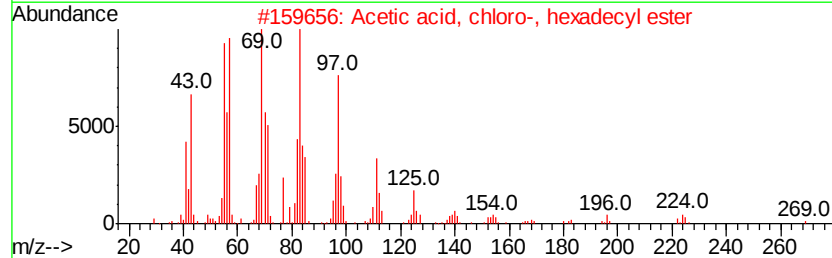
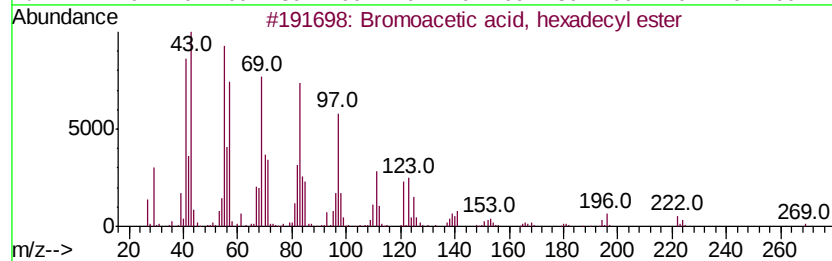
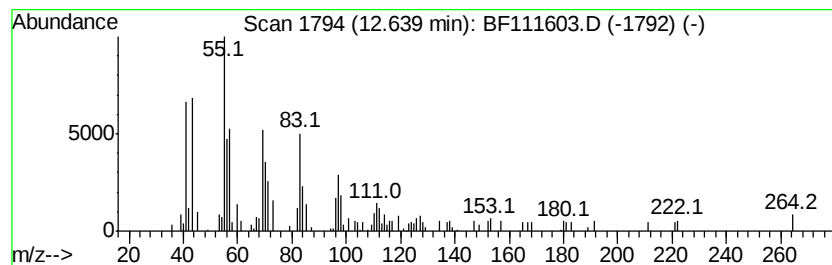
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Bromoacetic acid, hexadecyl... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.64 | 3.16 ng | 188521 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-------------|-------------|------|
| 1       |   | Bromoacetic acid, hexadecyl ester   | 362 | C18H35BrO2  | 005454-48-8 | 81   |
| 2       |   | Acetic acid, chloro-, hexadecyl ... | 318 | C18H35ClO2  | 052132-58-8 | 74   |
| 3       |   | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 68   |
| 4       |   | 5-Octadecene, (E)-                  | 252 | C18H36      | 007206-21-5 | 68   |
| 5       |   | 1-Tetradecene                       | 196 | C14H28      | 001120-36-1 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

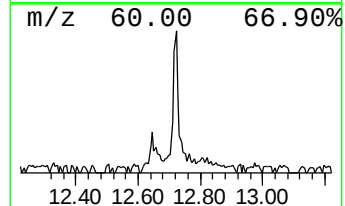
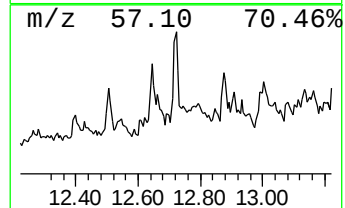
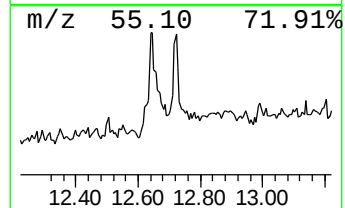
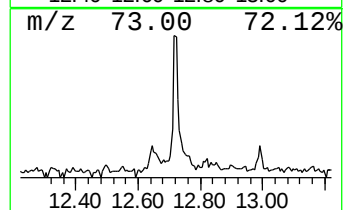
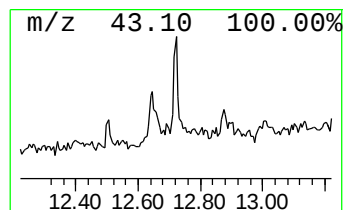
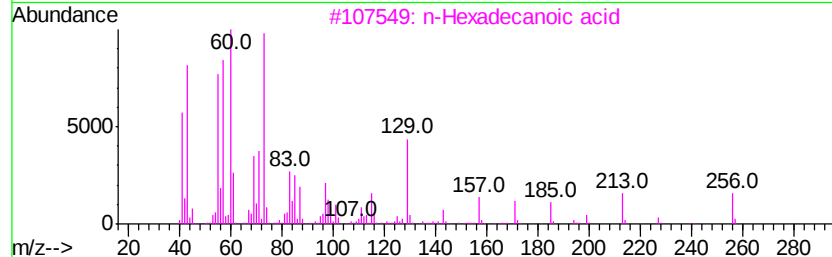
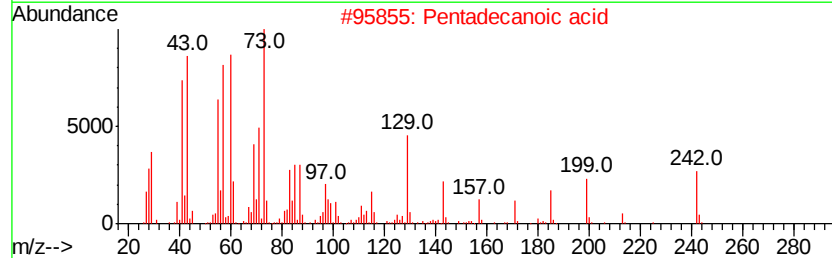
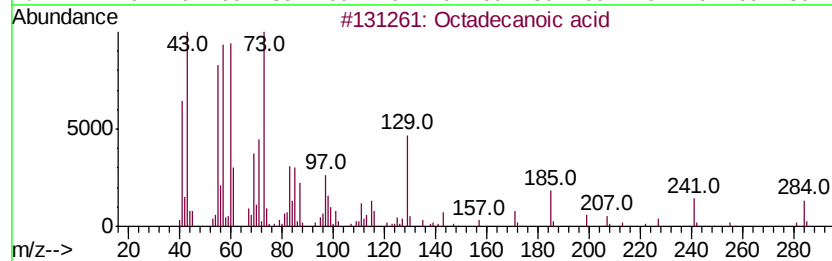
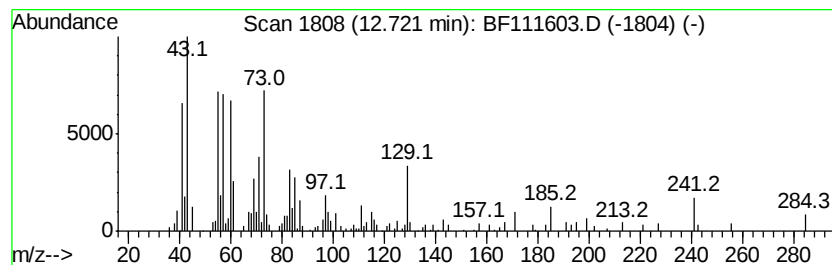
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octadecanoic acid Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.72 | 2.34 ng | 139540 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID                   | MW  | MolForm    | CAS#        | Qual |
|-----------|--------------------------------|-----|------------|-------------|------|
| 1         | Octadecanoic acid              | 284 | C18H36O2   | 000057-11-4 | 96   |
| 2         | Pentadecanoic acid             | 242 | C15H30O2   | 001002-84-2 | 70   |
| 3         | n-Hexadecanoic acid            | 256 | C16H32O2   | 000057-10-3 | 62   |
| 4         | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 50   |
| 5         | Isoamyl nitrite                | 117 | C5H11NO2   | 000110-46-3 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

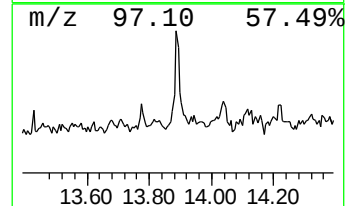
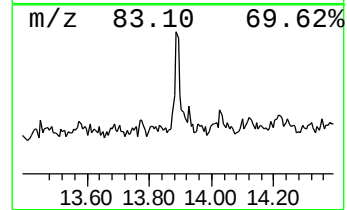
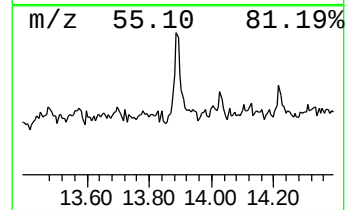
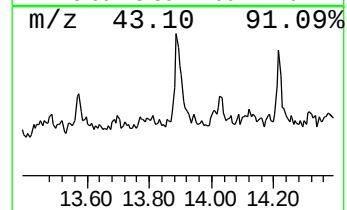
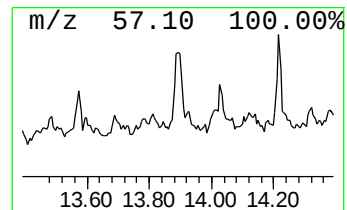
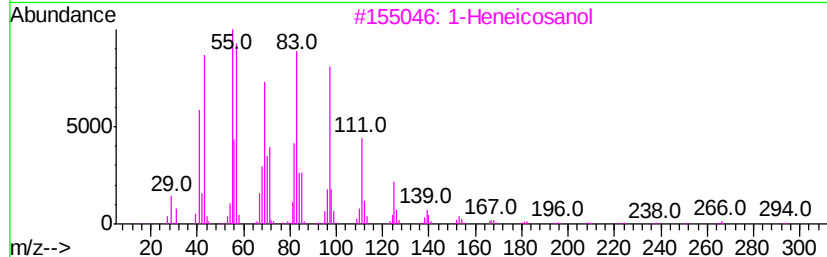
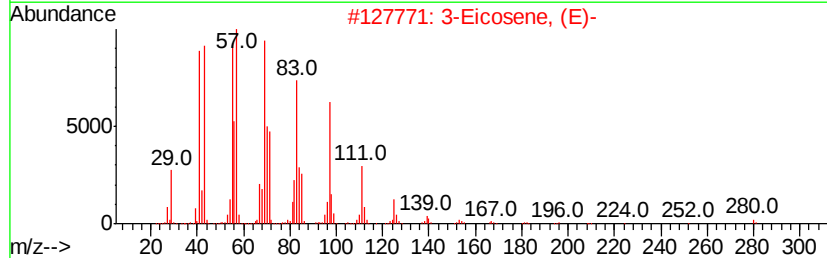
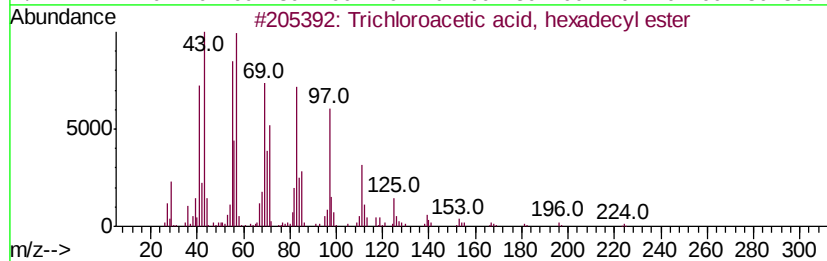
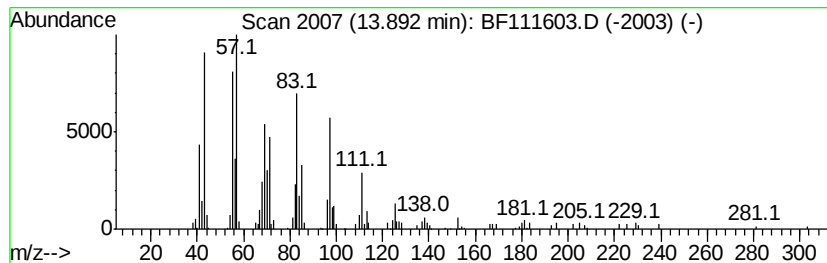
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Trichloroacetic acid, hexad... Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.89 | 2.55 ng | 159919 | Chrysene-d12     | 14.04 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 90   |
| 2    |    |   | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9  | 90   |
| 3    |    |   | 1-Heneicosanol                      | 312 | C21H44O     | 015594-90-8  | 81   |
| 4    |    |   | n-Tetracosanol-1                    | 354 | C24H50O     | 000506-51-4  | 74   |
| 5    |    |   | Octacosyl trifluoroacetate          | 506 | C30H57F3O2  | 1000351-74-9 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

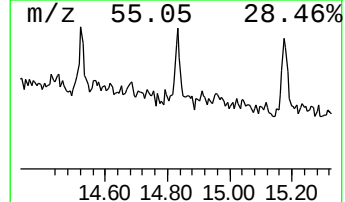
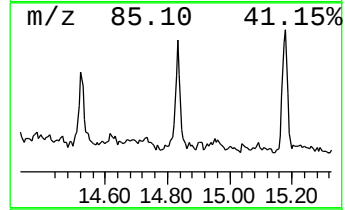
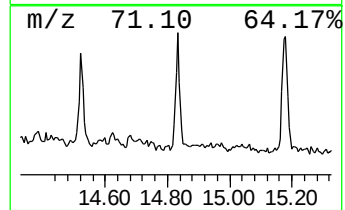
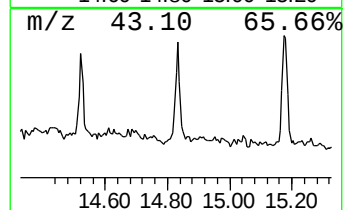
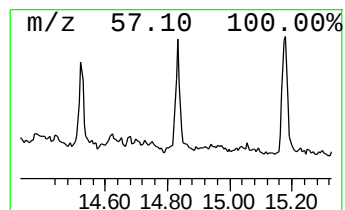
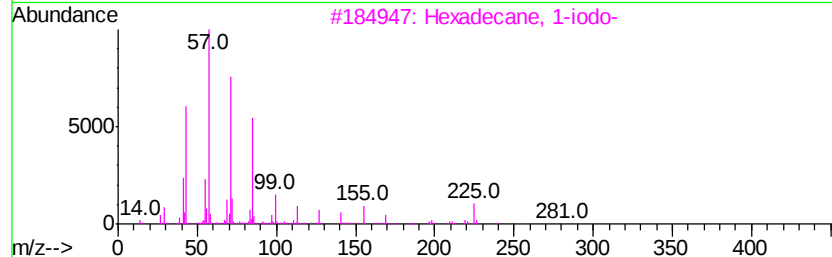
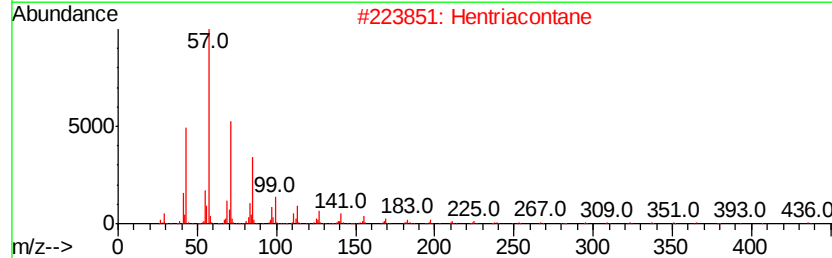
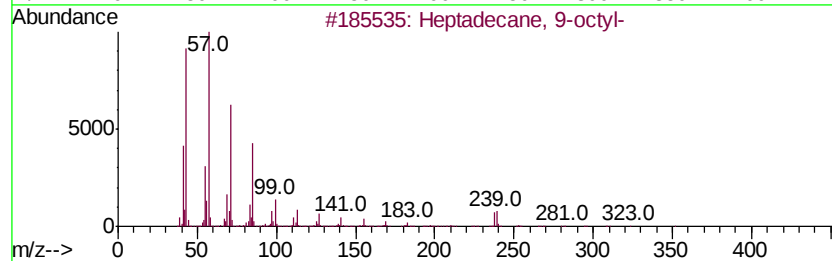
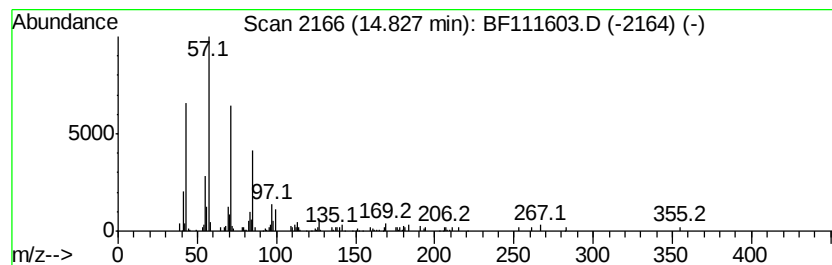
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Heptadecane, 9-octyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.83 | 2.25 ng | 144517 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 87   |
| 2    |    |   | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 86   |
| 3    |    |   | Hexadecane, 1-iodo-   | 352 | C16H33I | 000544-77-4 | 86   |
| 4    |    |   | Dodecane, 1-iodo-     | 296 | C12H25I | 004292-19-7 | 86   |
| 5    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

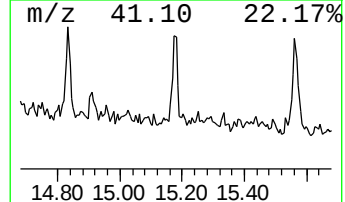
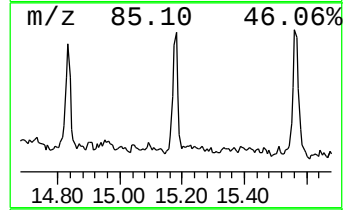
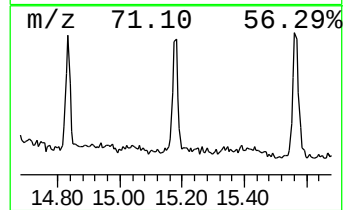
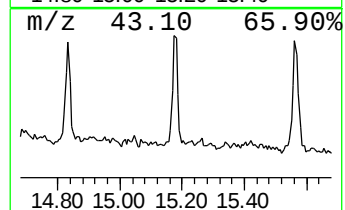
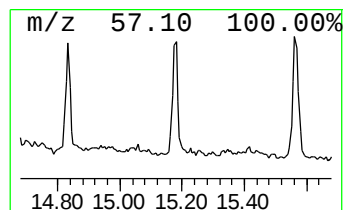
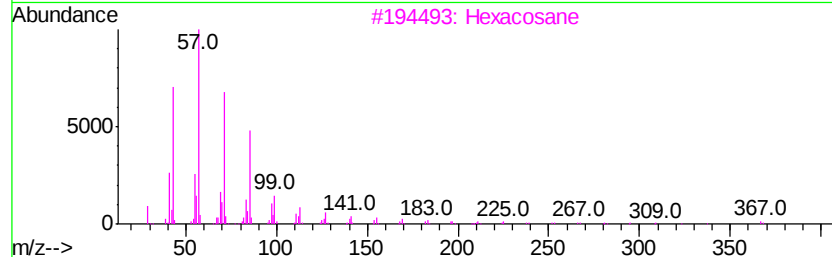
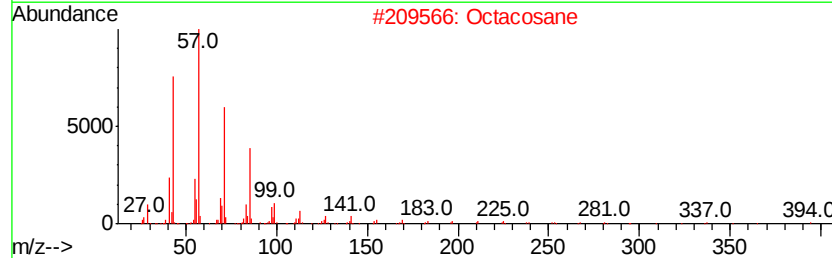
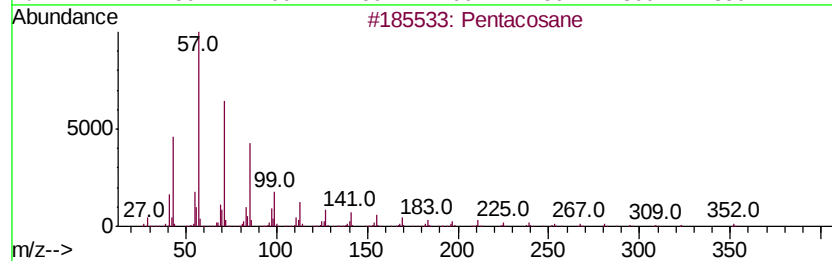
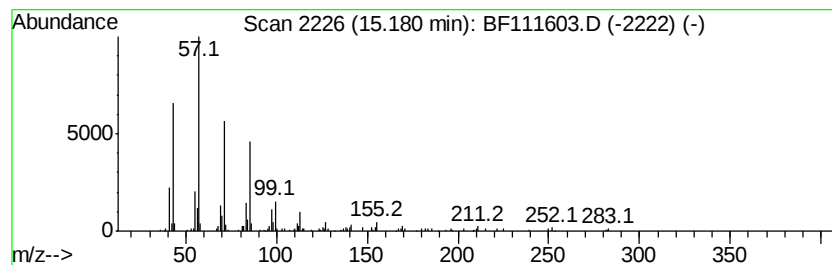
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Pentacosane Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.18 | 2.54 ng | 162999 | Perylene-d12     | 15.52 |

| Hit# | of | Tentative ID     | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------|-----|----------|-------------|------|
| 1    | 5  | Pentacosane      | 352 | C25H52   | 000629-99-2 | 91   |
| 2    |    | Octacosane       | 394 | C28H58   | 000630-02-4 | 90   |
| 3    |    | Hexacosane       | 366 | C26H54   | 000630-01-3 | 90   |
| 4    |    | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 86   |
| 5    |    | Tetracosane      | 338 | C24H50   | 000646-31-1 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
 Data File : BF111603.D  
 Acq On : 19 Dec 2018 21:16  
 Operator : JU/SJ  
 Sample : J6464-04  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

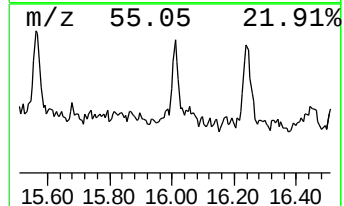
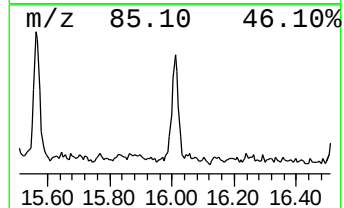
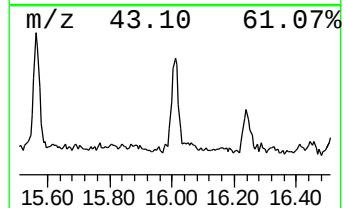
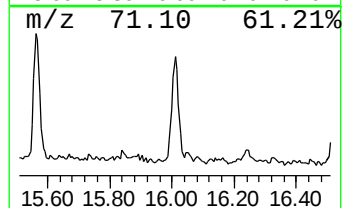
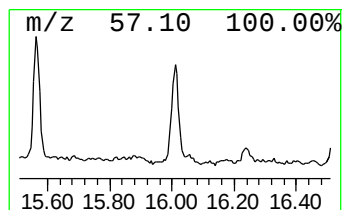
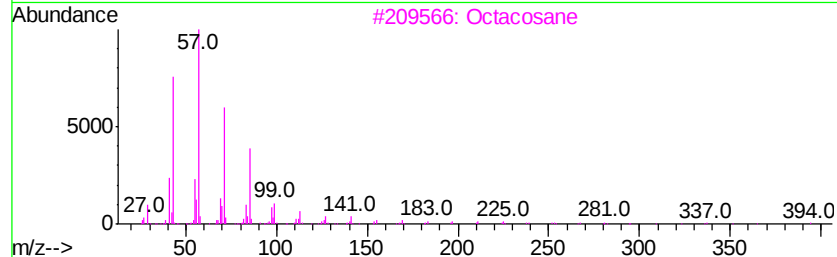
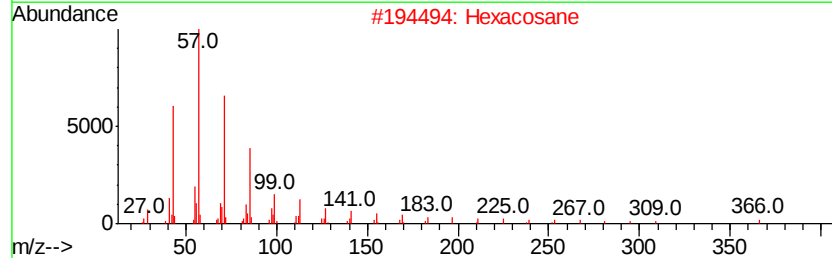
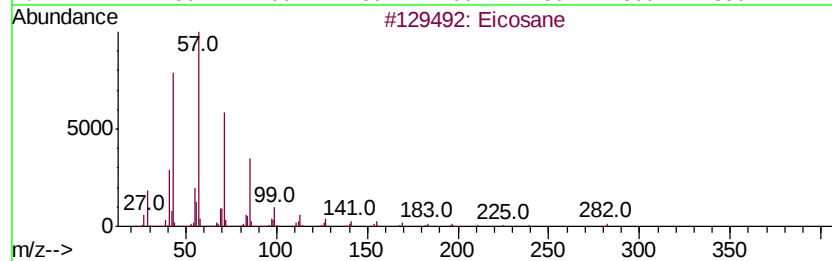
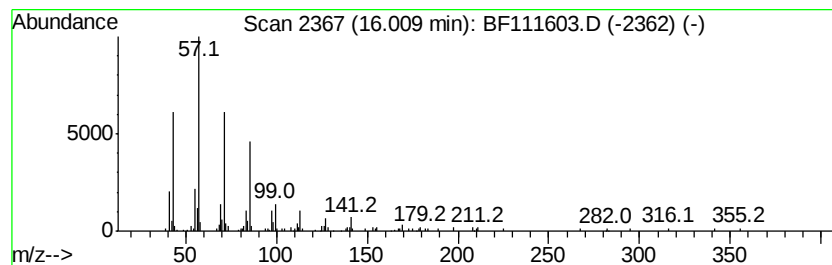
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 14 Eicosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.01 | 3.10 ng | 198746 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Eicosane              | 282 | C20H42  | 000112-95-8 | 93   |
| 2    |    |   | Hexacosane            | 366 | C26H54  | 000630-01-3 | 91   |
| 3    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 90   |
| 4    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 87   |
| 5    |    |   | Pentacosane           | 352 | C25H52  | 000629-99-2 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

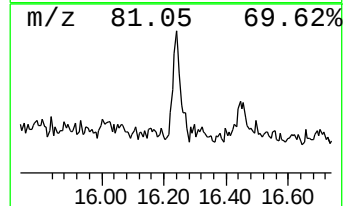
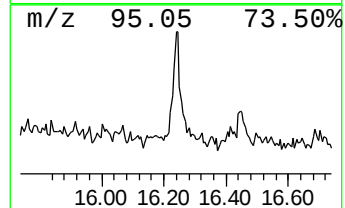
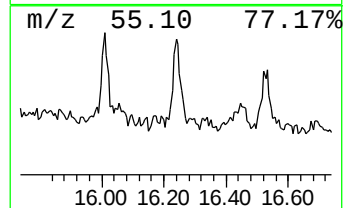
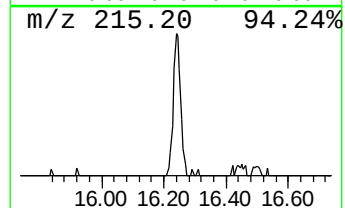
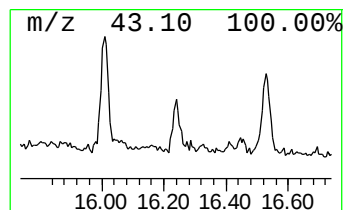
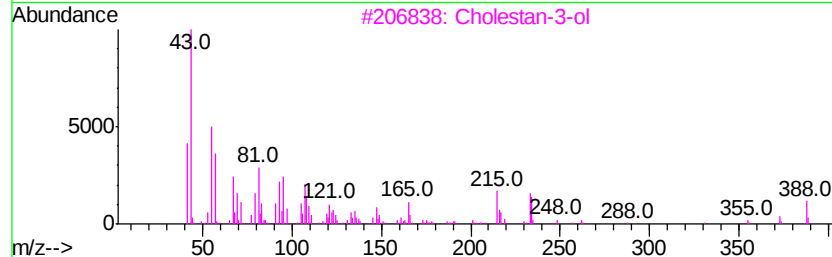
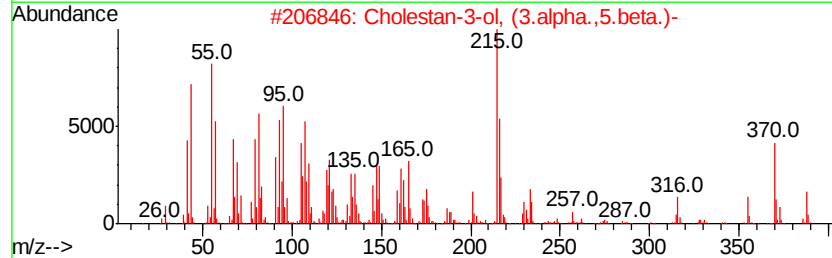
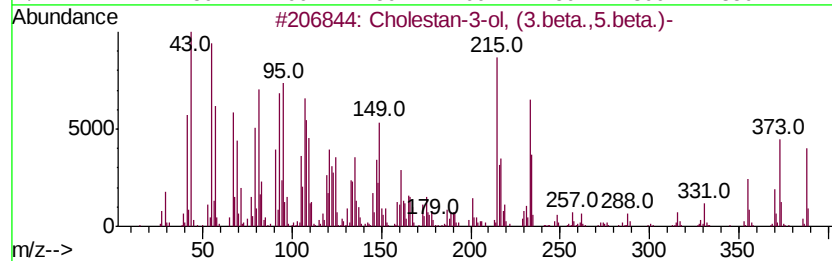
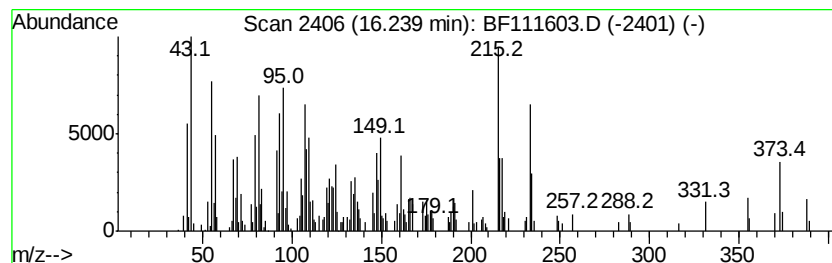
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Cholestan-3-ol, (3.beta.,5.... Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.24 | 4.90 ng | 314483 | Perylene-d12     | 15.52 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Cholestan-3-ol, (3.beta.,5.beta.)-  | 388 | C27H48O    | 000360-68-9  | 97   |
| 2    |    |   | Cholestan-3-ol, (3.alpha.,5.beta.)- | 388 | C27H48O    | 000516-92-7  | 64   |
| 3    |    |   | Cholestan-3-ol                      | 388 | C27H48O    | 027409-41-2  | 60   |
| 4    |    |   | Cholestanol                         | 388 | C27H48O    | 000080-97-7  | 47   |
| 5    |    |   | Acetic acid, 2-acetoxymethyl-6-(... | 326 | C14H18N2O7 | 1000193-14-0 | 27   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

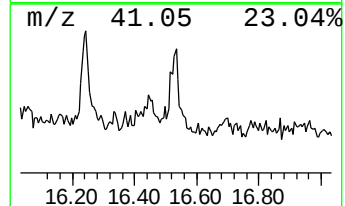
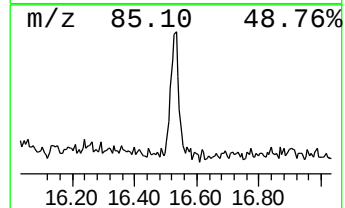
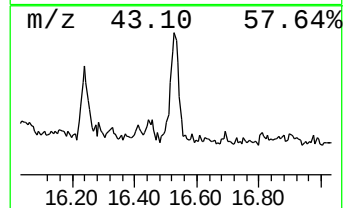
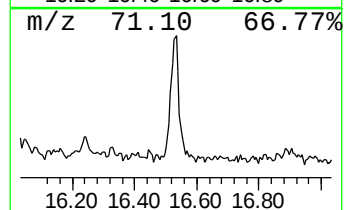
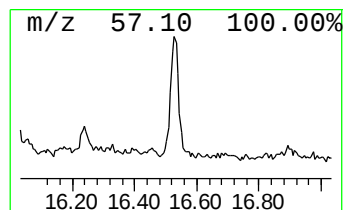
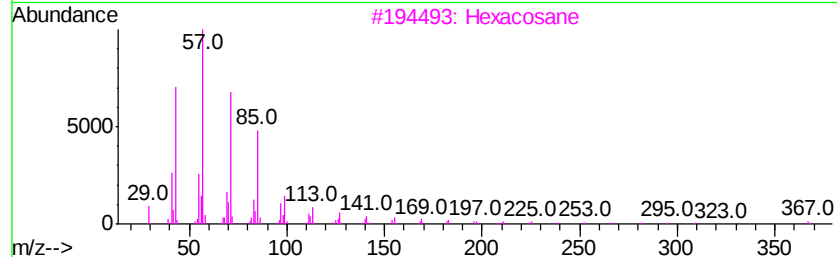
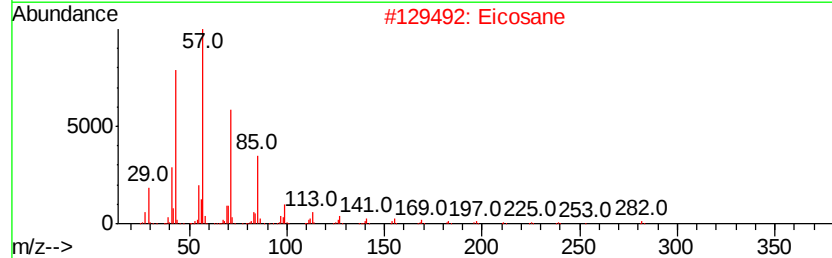
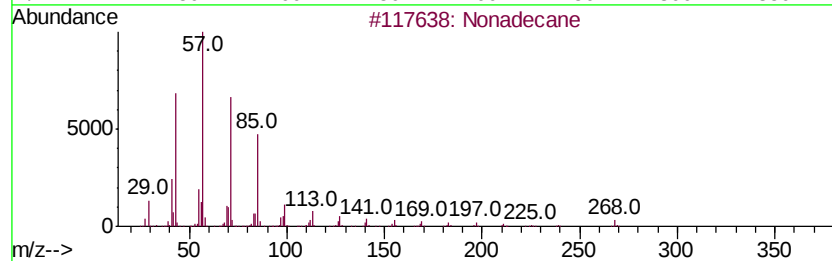
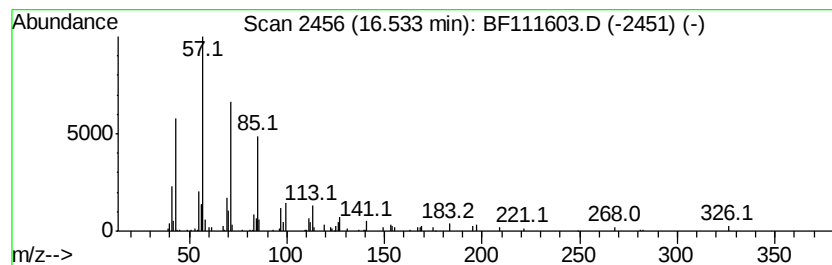
Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.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 Nonadecane Concentration Rank 13

| R.T.    | EstConc           | Area         | Relative to ISTD | R.T.      |
|---------|-------------------|--------------|------------------|-----------|
| 16.53   | 2.43 ng           | 156011       | Perylene-d12     | 15.52     |
| Hit# of | 5                 | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Nonadecane        | 268 C19H40   | 000629-92-5      | 94        |
| 2       | Eicosane          | 282 C20H42   | 000112-95-8      | 93        |
| 3       | Hexacosane        | 366 C26H54   | 000630-01-3      | 91        |
| 4       | Tetratetracontane | 619 C44H90   | 007098-22-8      | 91        |
| 5       | Octacosane        | 394 C28H58   | 000630-02-4      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121918\  
Data File : BF111603.D  
Acq On : 19 Dec 2018 21:16  
Operator : JU/SJ  
Sample : J6464-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VB16202

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.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 |
| Butane, 2-methoxy...  | 2.20  | 2.0     | ng    | 97774    | 1                     | 6.89  | 976427  | 20.0 |
| 2-Pentanone, 4-hy...  | 5.12  | 5.4     | ng    | 263201   | 1                     | 6.89  | 976427  | 20.0 |
| unknown6.66           | 6.66  | 85.0    | ng    | 4152270  | 1                     | 6.89  | 976427  | 20.0 |
| 1-Decene              | 9.73  | 3.9     | ng    | 251373   | 3                     | 9.93  | 1300460 | 20.0 |
| n-Tridecan-1-ol       | 10.25 | 3.2     | ng    | 209048   | 3                     | 9.93  | 1300460 | 20.0 |
| unknown10.86          | 10.86 | 3.3     | ng    | 197515   | 4                     | 11.41 | 1194750 | 20.0 |
| n-Hexadecanoic acid   | 11.94 | 8.1     | ng    | 483721   | 4                     | 11.41 | 1194750 | 20.0 |
| Bromoacetic acid,...  | 12.64 | 3.2     | ng    | 188521   | 4                     | 11.41 | 1194750 | 20.0 |
| Octadecanoic acid     | 12.72 | 2.3     | ng    | 139540   | 4                     | 11.41 | 1194750 | 20.0 |
| Trichloroacetic a...  | 13.89 | 2.5     | ng    | 159919   | 5                     | 14.04 | 1254940 | 20.0 |
| Heptadecane, 9-oc...  | 14.83 | 2.3     | ng    | 144517   | 6                     | 15.52 | 1283400 | 20.0 |
| Pentacosane           | 15.18 | 2.5     | ng    | 162999   | 6                     | 15.52 | 1283400 | 20.0 |
| Eicosane              | 16.01 | 3.1     | ng    | 198746   | 6                     | 15.52 | 1283400 | 20.0 |
| Cholestan-3-ol, (...) | 16.24 | 4.9     | ng    | 314483   | 6                     | 15.52 | 1283400 | 20.0 |
| Nonadecane            | 16.53 | 2.4     | ng    | 156011   | 6                     | 15.52 | 1283400 | 20.0 |