

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
 Data File : BF118186.D  
 Acq On : 13 Dec 2019 15:15  
 Operator : JU  
 Sample : K6235-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP

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-BF120619.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         | 2.122       | 3             | 6           | 20           | rVB      | 881523         | 1060118       | 22.35%          | 3.197%        |
| 2         | 5.069       | 503           | 507         | 514          | rVB      | 144530         | 161894        | 3.41%           | 0.488%        |
| 3         | 5.481       | 573           | 577         | 593          | rBV      | 1515243        | 1379542       | 29.08%          | 4.160%        |
| 4         | 6.492       | 745           | 749         | 762          | rBV      | 947148         | 897279        | 18.91%          | 2.706%        |
| 5         | 6.640       | 769           | 774         | 777          | rBV      | 3240855        | 2881591       | 60.74%          | 8.690%        |
| 6         | 6.869       | 809           | 813         | 816          | rBV      | 745533         | 688001        | 14.50%          | 2.075%        |
| 7         | 7.022       | 835           | 839         | 843          | rBV      | 2795185        | 2679103       | 56.47%          | 8.079%        |
| 8         | 7.434       | 903           | 909         | 912          | rBV      | 2177434        | 2082301       | 43.89%          | 6.279%        |
| 9         | 8.151       | 1027          | 1031        | 1037         | rBV      | 1014812        | 884759        | 18.65%          | 2.668%        |
| 10        | 9.233       | 1210          | 1215        | 1218         | rBV      | 4542112        | 4077428       | 85.95%          | 12.296%       |
| 11        | 9.628       | 1278          | 1282        | 1286         | rBV      | 74298          | 85423         | 1.80%           | 0.258%        |
| 12        | 9.833       | 1311          | 1317        | 1322         | rBV6     | 29562          | 78075         | 1.65%           | 0.235%        |
| 13        | 9.916       | 1327          | 1331        | 1343         | rVB      | 1121601        | 1075212       | 22.66%          | 3.242%        |
| 14        | 10.169      | 1371          | 1374        | 1378         | rVB2     | 48526          | 47665         | 1.00%           | 0.144%        |
| 15        | 10.710      | 1461          | 1466        | 1469         | rBV      | 3353206        | 2976860       | 62.75%          | 8.977%        |
| 16        | 11.404      | 1580          | 1584        | 1592         | rBV      | 1118540        | 1090288       | 22.98%          | 3.288%        |
| 17        | 11.486      | 1594          | 1598        | 1605         | rVB      | 283032         | 293118        | 6.18%           | 0.884%        |
| 18        | 11.933      | 1668          | 1674        | 1681         | rBV      | 944834         | 935719        | 19.72%          | 2.822%        |
| 19        | 12.622      | 1788          | 1791        | 1792         | rBV      | 55906          | 50965         | 1.07%           | 0.154%        |
| 20        | 12.716      | 1803          | 1807        | 1822         | rBV      | 542436         | 693516        | 14.62%          | 2.091%        |
| 21        | 13.004      | 1850          | 1856        | 1859         | rBV      | 4652187        | 4744040       | 100.00%         | 14.306%       |
| 22        | 13.563      | 1947          | 1951        | 1954         | rBV2     | 44950          | 48716         | 1.03%           | 0.147%        |
| 23        | 13.892      | 2003          | 2007        | 2011         | rBV      | 281373         | 331247        | 6.98%           | 0.999%        |
| 24        | 14.057      | 2031          | 2035        | 2042         | rBV      | 887913         | 898274        | 18.93%          | 2.709%        |
| 25        | 14.210      | 2058          | 2061        | 2067         | rVB      | 148456         | 145854        | 3.07%           | 0.440%        |
| 26        | 14.516      | 2110          | 2113        | 2117         | rVB      | 239401         | 224539        | 4.73%           | 0.677%        |
| 27        | 14.827      | 2162          | 2166        | 2170         | rBV      | 353240         | 367067        | 7.74%           | 1.107%        |
| 28        | 15.174      | 2220          | 2225        | 2232         | rVB      | 373627         | 456602        | 9.62%           | 1.377%        |
| 29        | 15.551      | 2284          | 2289        | 2303         | rBV2     | 675091         | 1247172       | 26.29%          | 3.761%        |
| 30        | 16.010      | 2362          | 2367        | 2372         | rVB      | 233007         | 364579        | 7.68%           | 1.099%        |
| 31        | 16.521      | 2449          | 2454        | 2463         | rVB      | 113635         | 213542        | 4.50%           | 0.644%        |

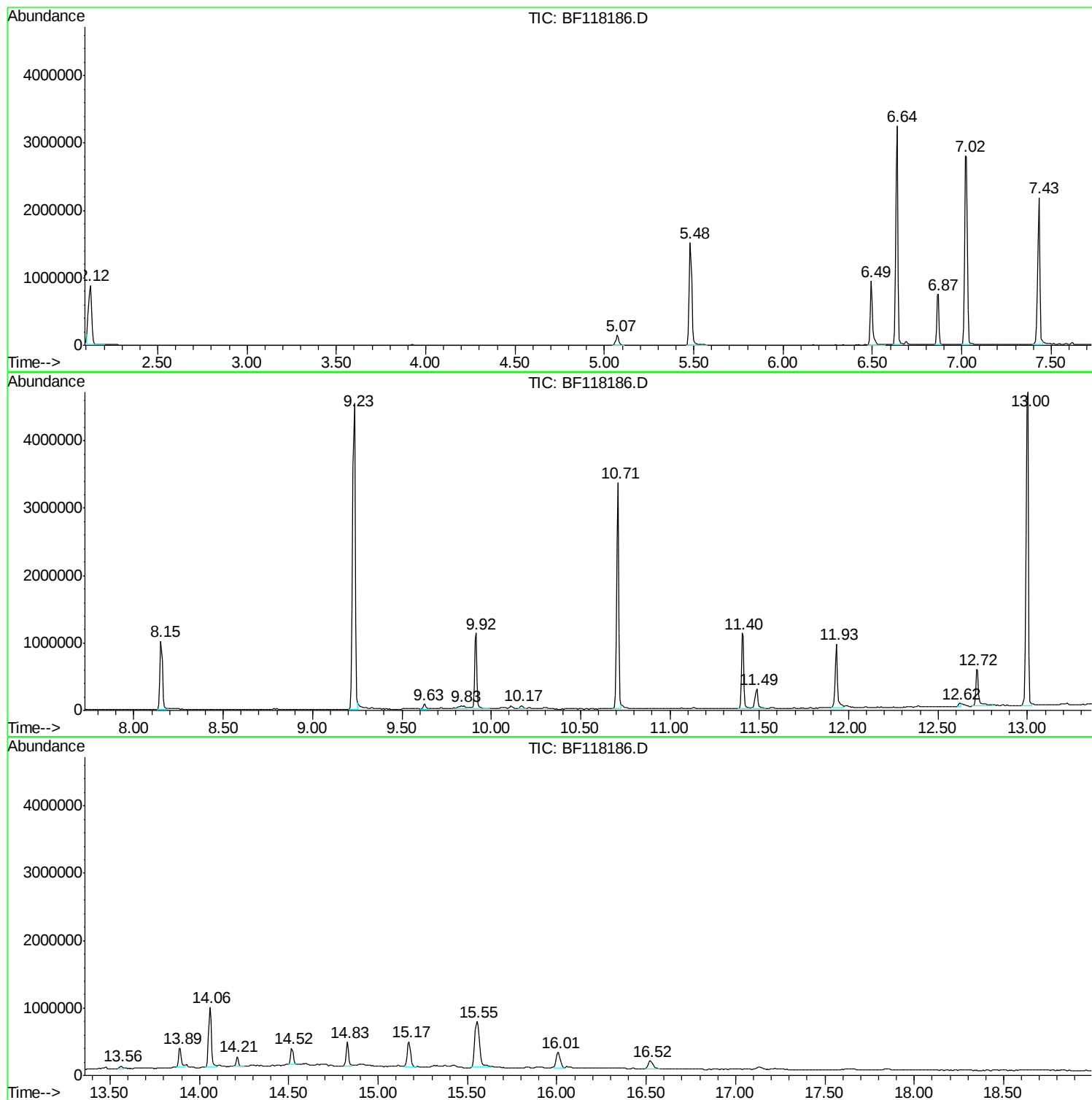
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BNA\_F  
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DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.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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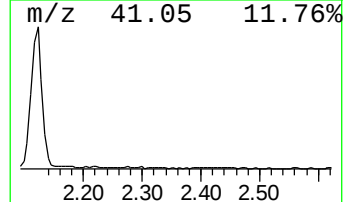
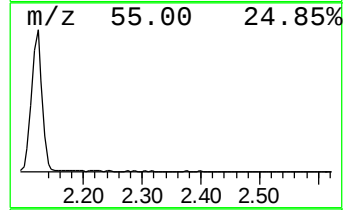
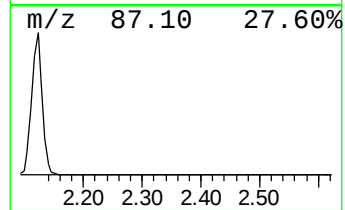
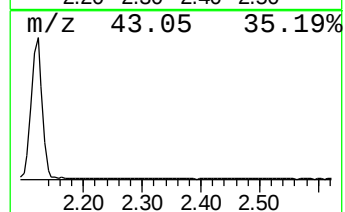
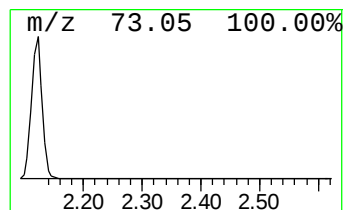
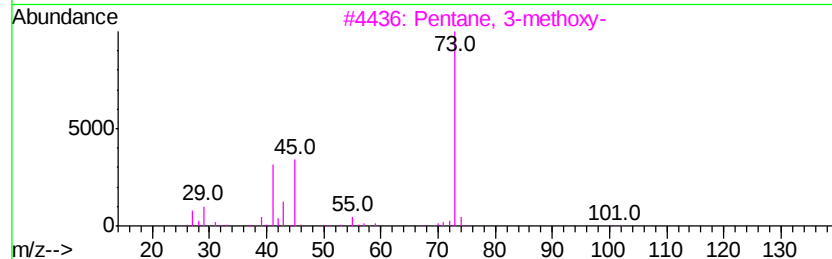
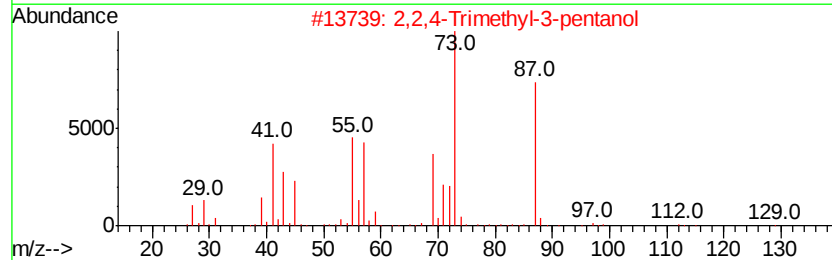
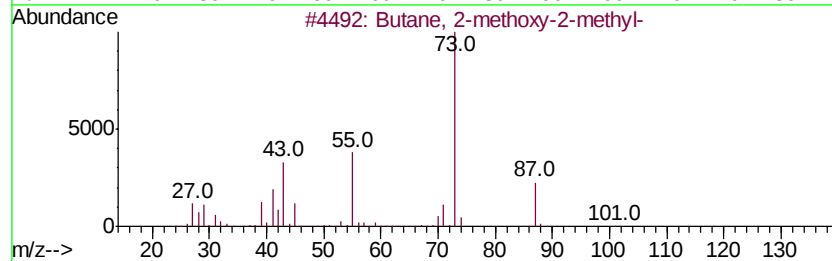
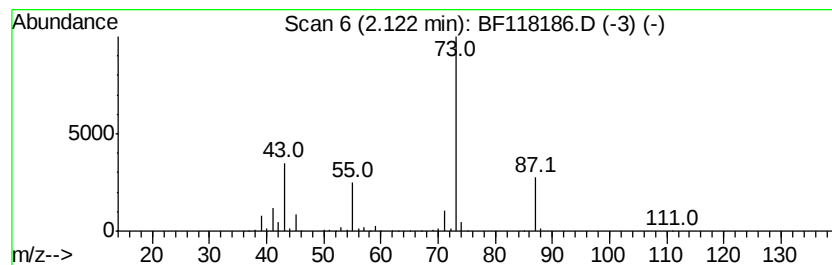
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 2.12 | 30.82 ng | 1060120 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------|-----|---------|-------------|------|
| 1       |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2       |   | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 39   |
| 3       |   | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 4       |   | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 22   |
| 5       |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

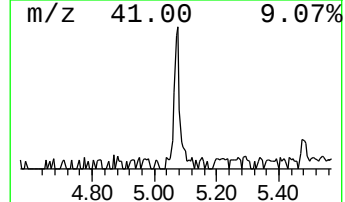
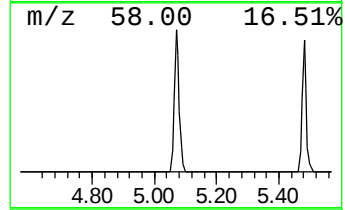
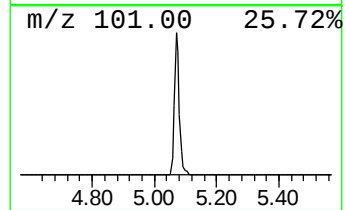
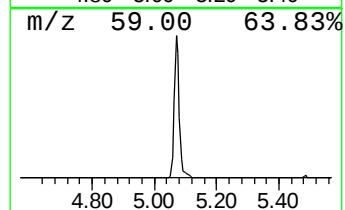
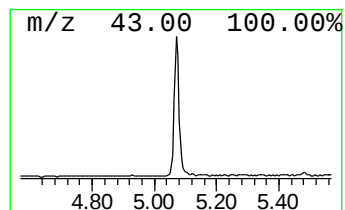
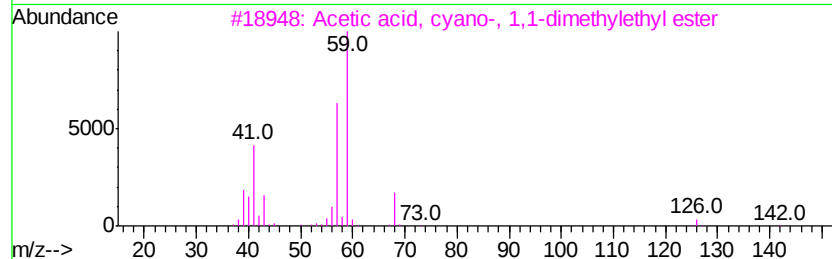
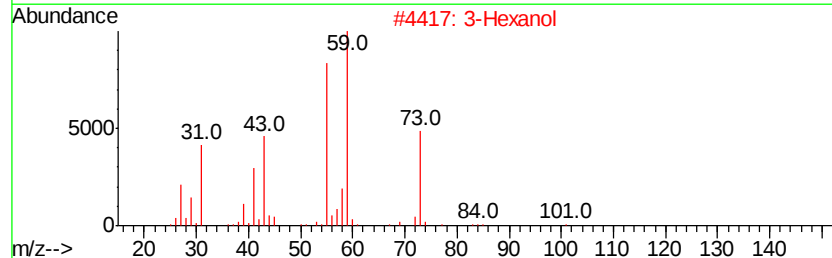
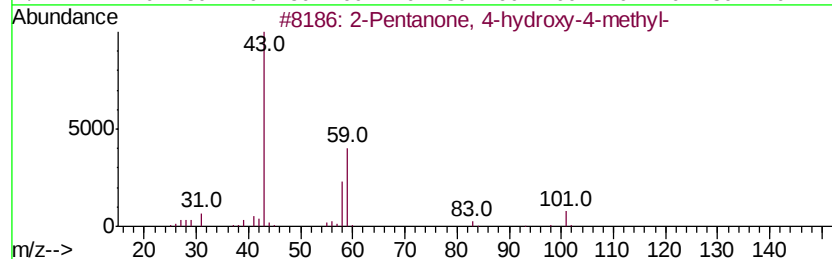
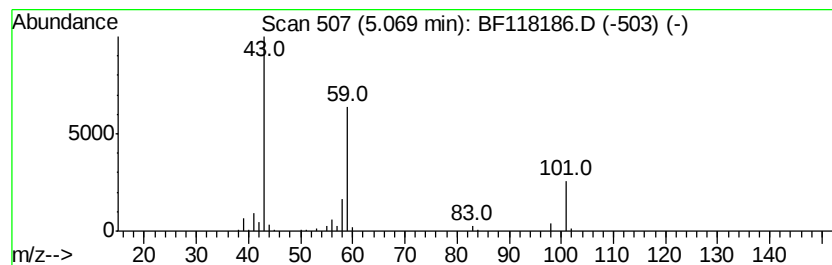
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.07 | 4.71 ng | 161894 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 40   |
| 2    |    |   | 3-Hexanol                            | 102 | C6H14O   | 000623-37-0 | 28   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    |   | 4-Penten-2-one, 4-methyl-            | 98  | C6H10O   | 003744-02-3 | 9    |
| 5    |    |   | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |



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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
DUP

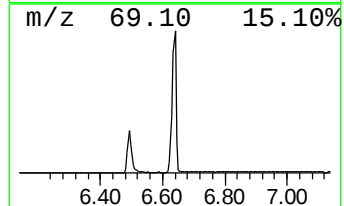
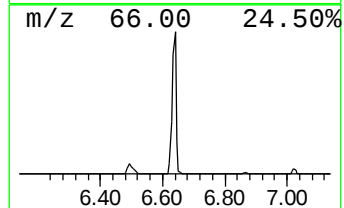
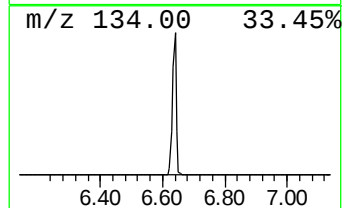
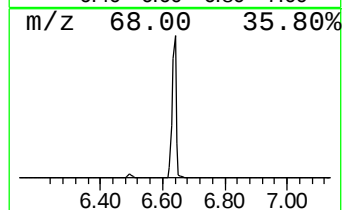
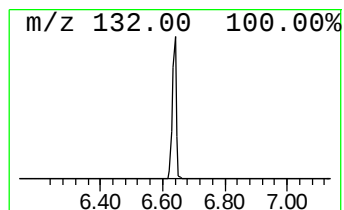
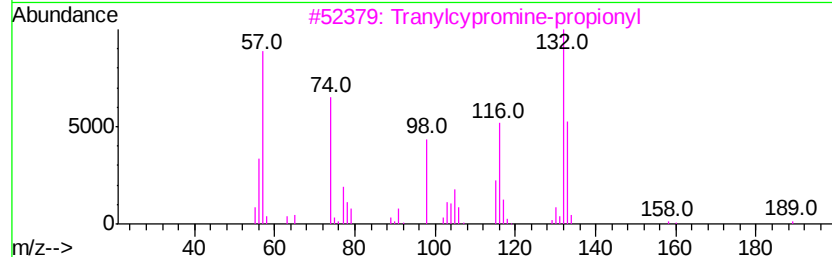
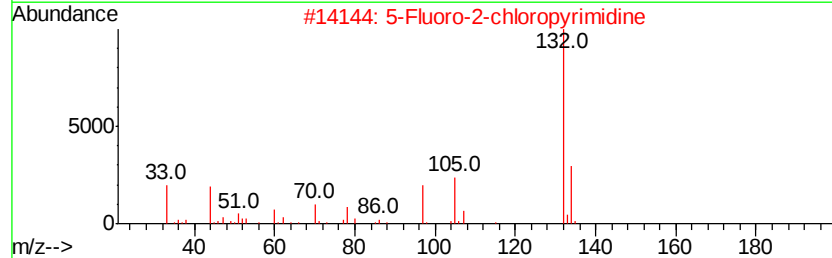
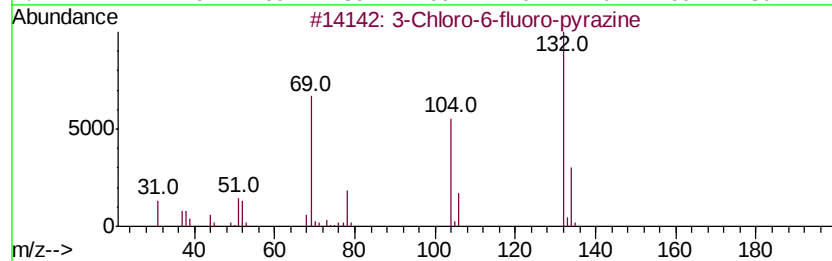
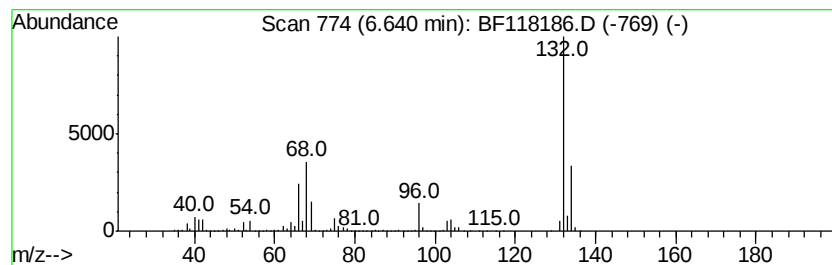
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 unknown6.64 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.64 | 83.77 ng | 2881590 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 25   |
| 3    |    | Tranvlcypramine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 16   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |



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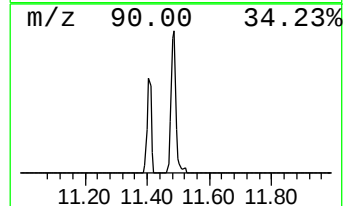
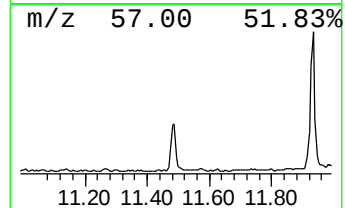
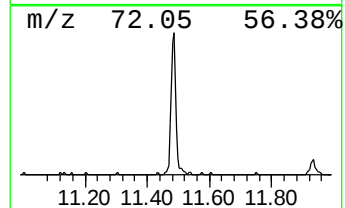
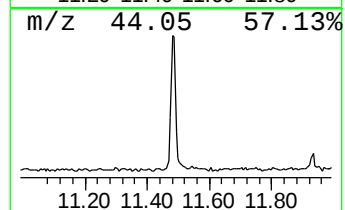
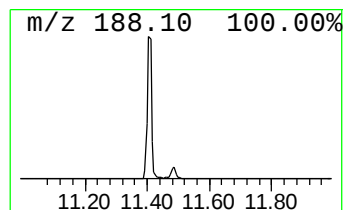
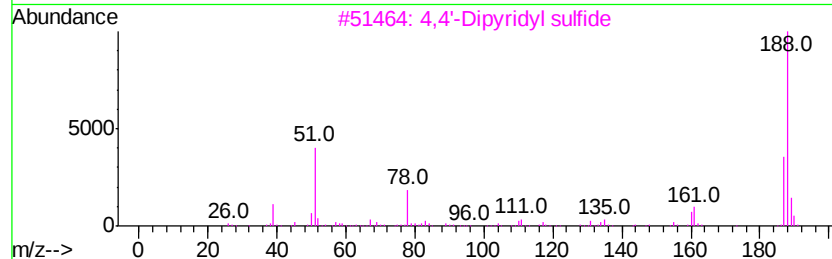
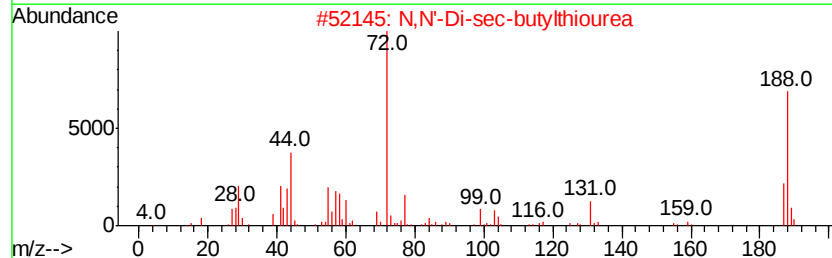
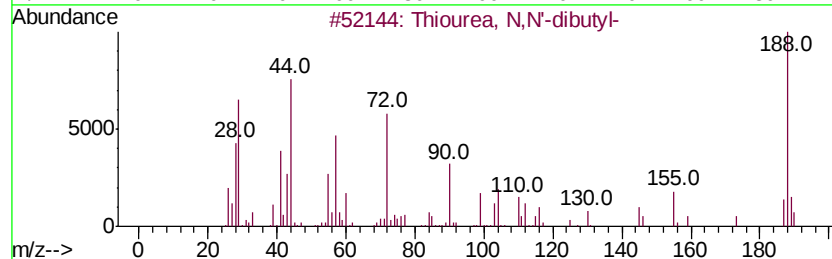
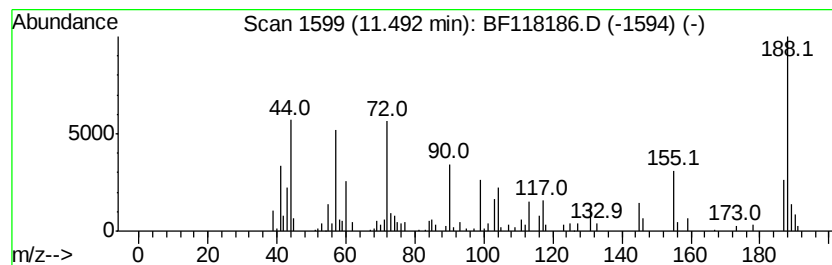
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Thiourea, N,N'-dibutyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.49 | 5.38 ng | 293118 | Phenanthrene-d10 | 11.40 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | Thiourea, N,N'-dibutyl-             | 188 | C9H20N2S | 000109-46-6  | 90   |
| 2       |   | N,N'-Di-sec-butylthiourea           | 188 | C9H20N2S | 035700-30-2  | 49   |
| 3       |   | 4,4'-Dipyridyl sulfide              | 188 | C10H8N2S | 037968-97-1  | 27   |
| 4       |   | Carbamic acid, dimethyl-, ethyl ... | 117 | C5H11NO2 | 000687-48-9  | 22   |
| 5       |   | 5H-Pyrazolo[3,4-b]quinolin-3-ami... | 188 | C10H12N4 | 1000362-40-8 | 22   |



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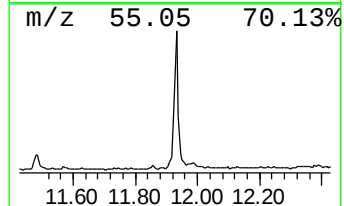
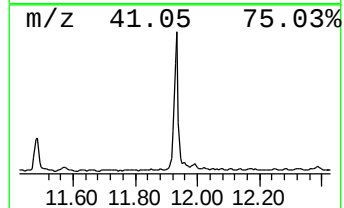
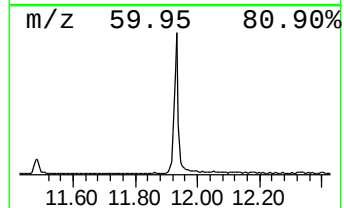
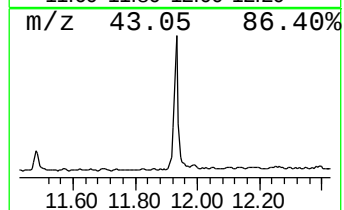
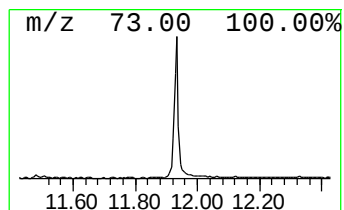
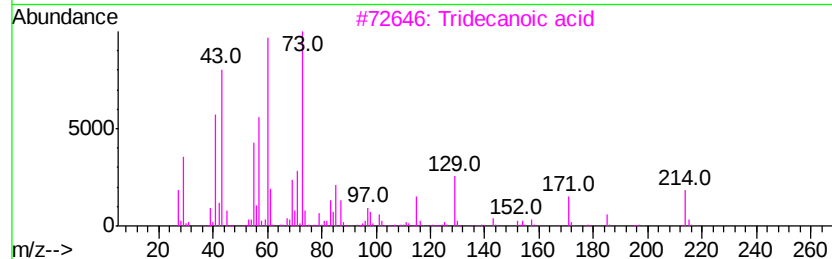
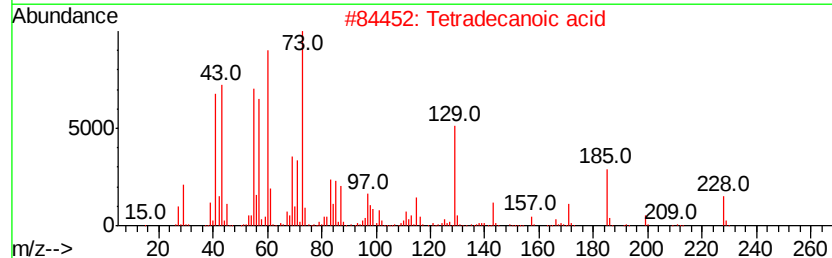
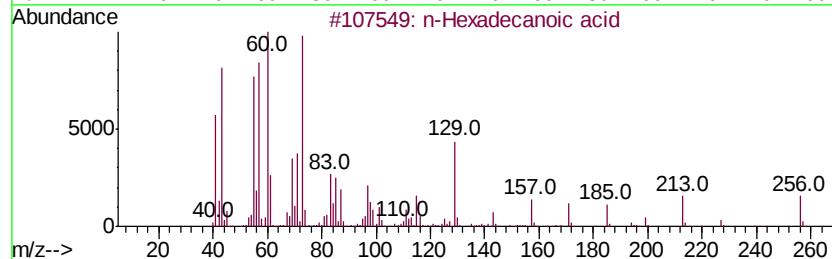
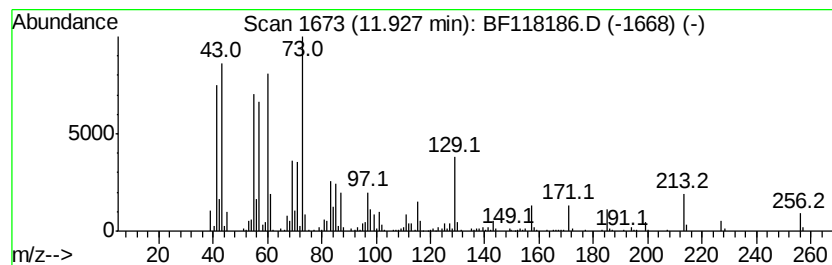
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.93 | 17.16 ng | 935719 | Phenanthrene-d10 | 11.40 |

| 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 | 90   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

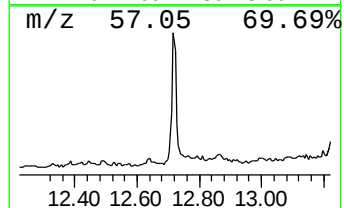
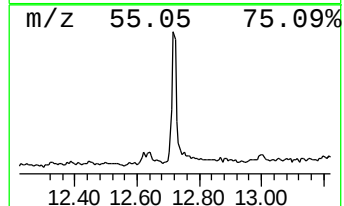
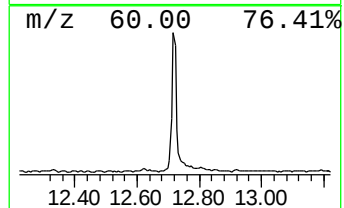
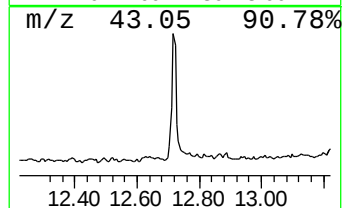
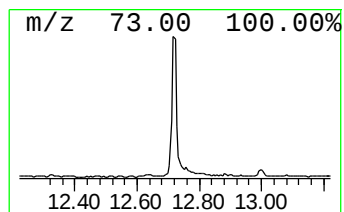
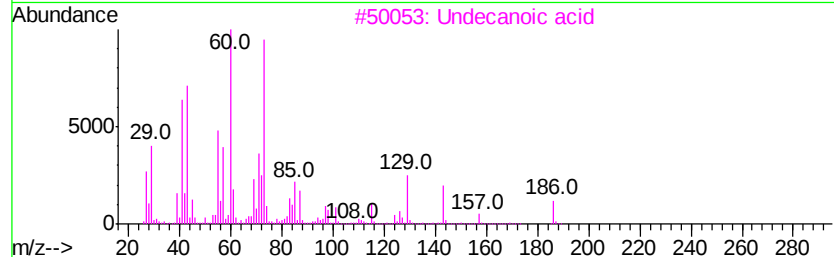
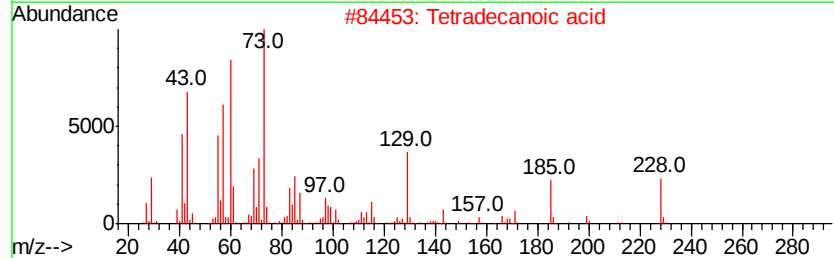
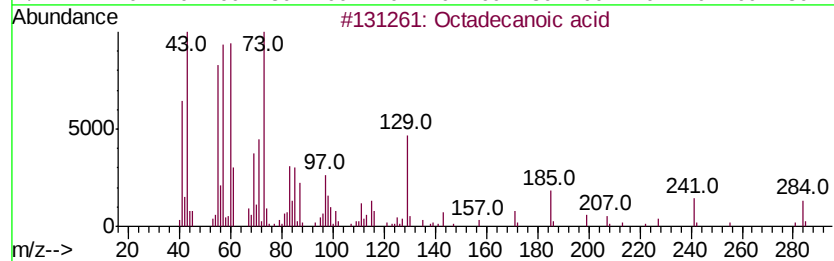
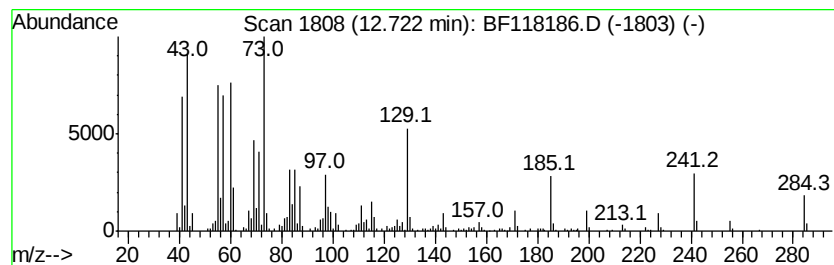
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Octadecanoic acid Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.72 | 12.72 ng | 693516 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|-----------|--------------------------------------|-----|----------|-------------|------|
| 1         | Octadecanoic acid                    | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2         | Tetradecanoic acid                   | 228 | C14H28O2 | 000544-63-8 | 87   |
| 3         | Undecanoic acid                      | 186 | C11H22O2 | 000112-37-8 | 72   |
| 4         | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 72   |
| 5         | n-Decanoic acid                      | 172 | C10H20O2 | 000334-48-5 | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

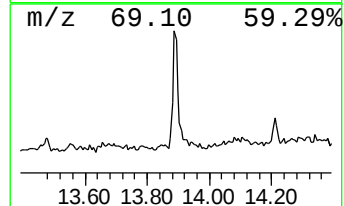
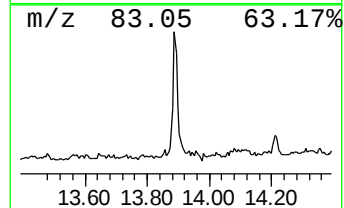
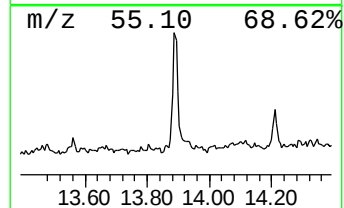
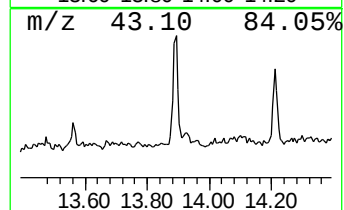
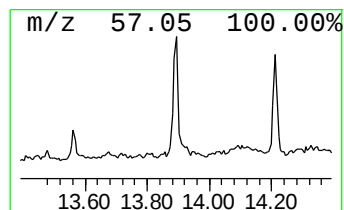
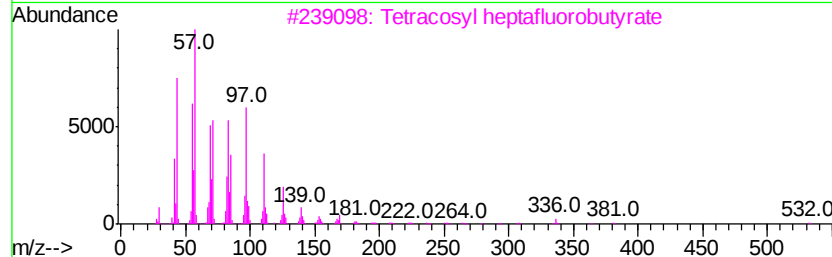
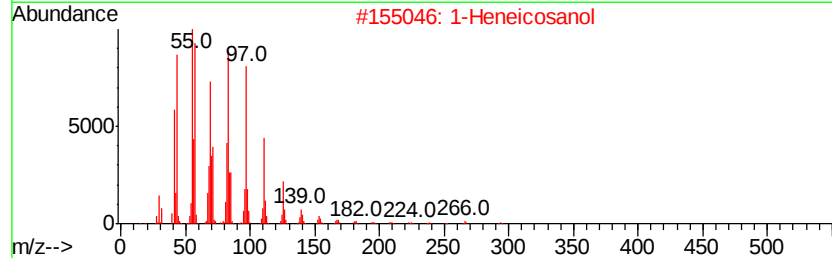
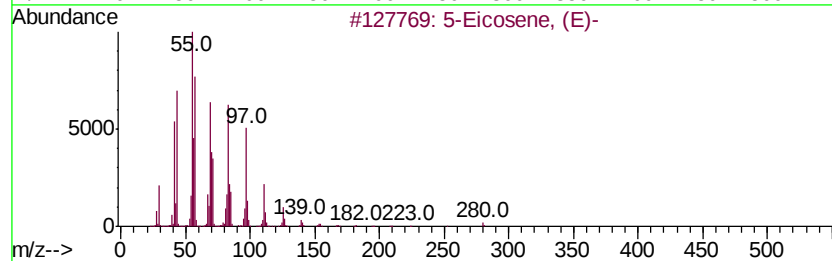
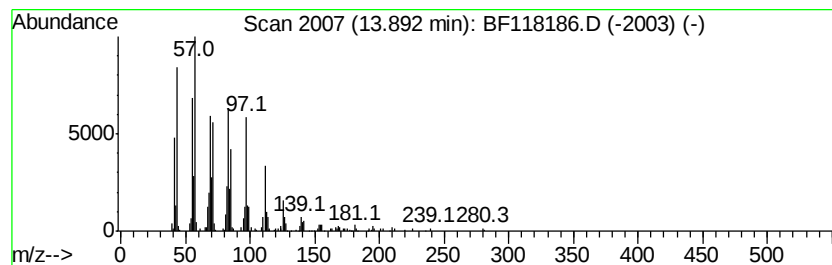
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 5-Eicosene, (E)- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.89 | 7.38 ng | 331247 | Chrysene-d12     | 14.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 5-Eicosene, (E)-                    | 280 | C20H40     | 074685-30-6  | 94   |
| 2    |    | 1-Heneicosanol                      | 312 | C21H44O    | 015594-90-8  | 93   |
| 3    |    | Tetracosyl heptafluorobutvrate      | 550 | C28H49F7O2 | 1000351-83-7 | 93   |
| 4    |    | Heptadecyl heptafluorobutvrate      | 452 | C21H35F7O2 | 959085-66-6  | 91   |
| 5    |    | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 959261-25-7  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
 Data File : BF118186.D  
 Acq On : 13 Dec 2019 15:15  
 Operator : JU  
 Sample : K6235-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

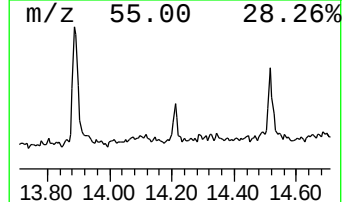
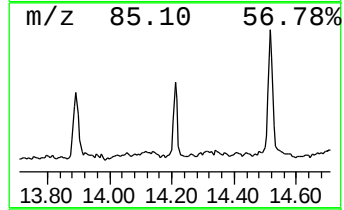
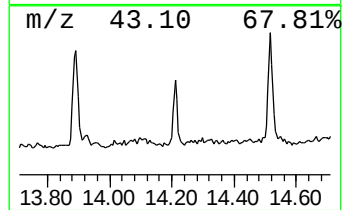
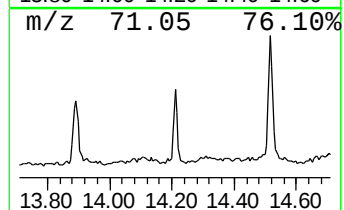
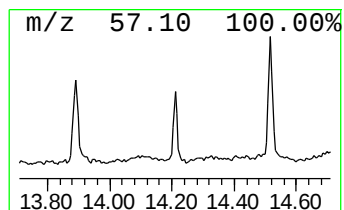
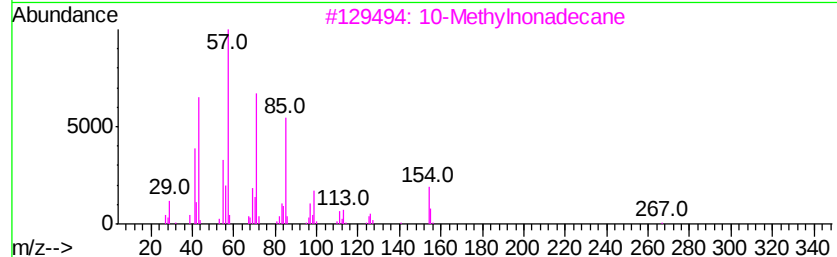
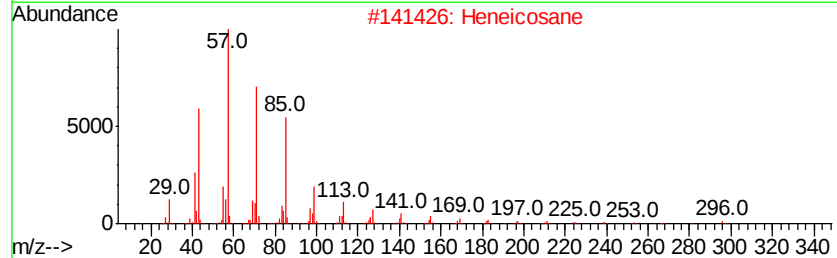
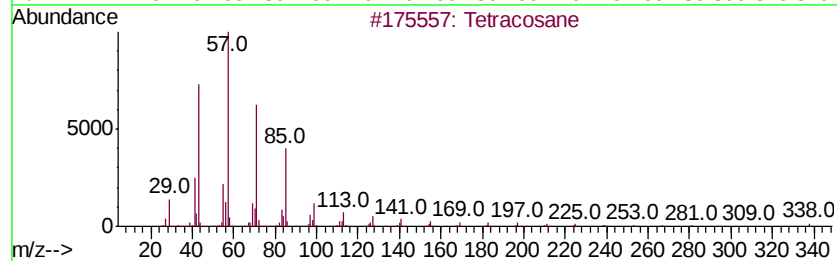
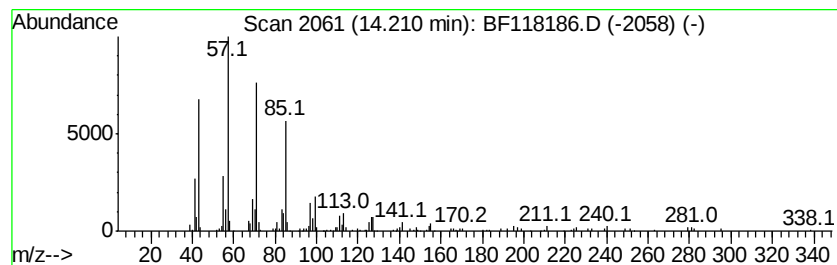
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 9 10-Methylnonadecane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.21 | 3.25 ng | 145854 | Chrysene-d12     | 14.06 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------|-----|---------|--------------|------|
| 1    | 5  | Tetracosane            | 338 | C24H50  | 000646-31-1  | 94   |
| 2    |    | Heneicosane            | 296 | C21H44  | 000629-94-7  | 91   |
| 3    |    | 10-Methylnonadecane    | 282 | C20H42  | 056862-62-5  | 90   |
| 4    |    | 6,6-Diethylhoctadecane | 310 | C22H46  | 1000360-41-8 | 90   |
| 5    |    | Docosane               | 310 | C22H46  | 000629-97-0  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

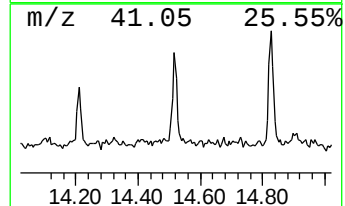
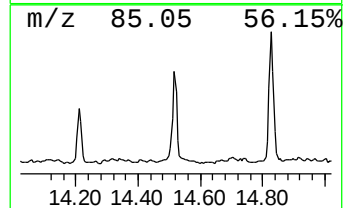
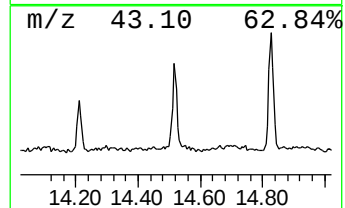
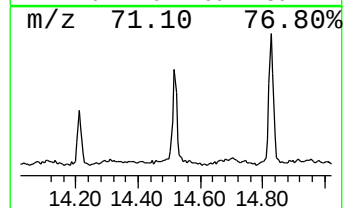
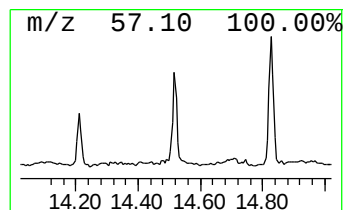
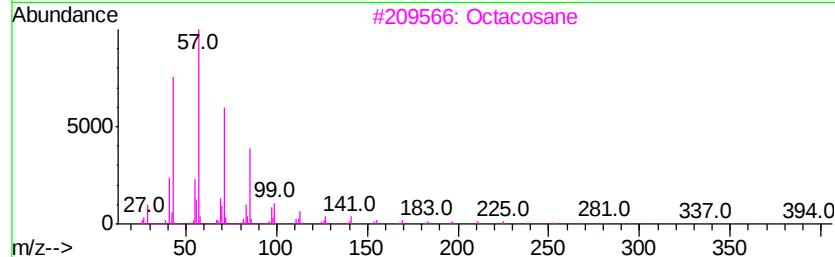
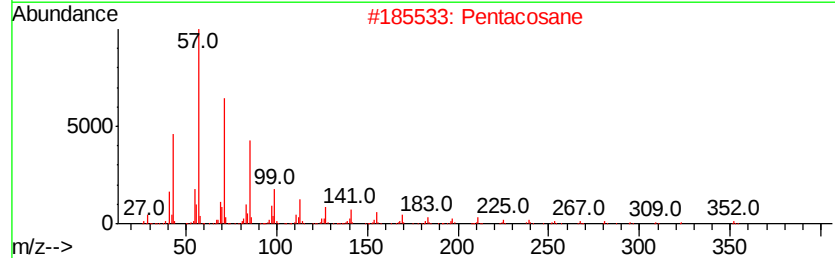
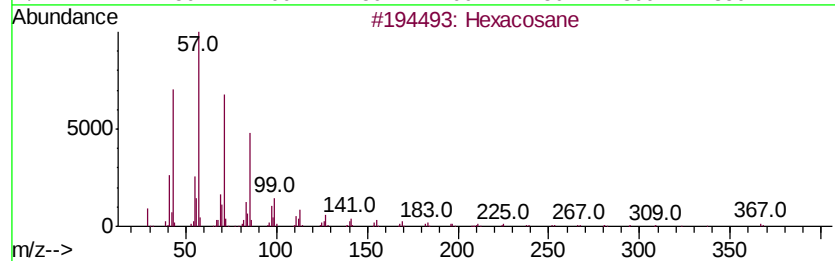
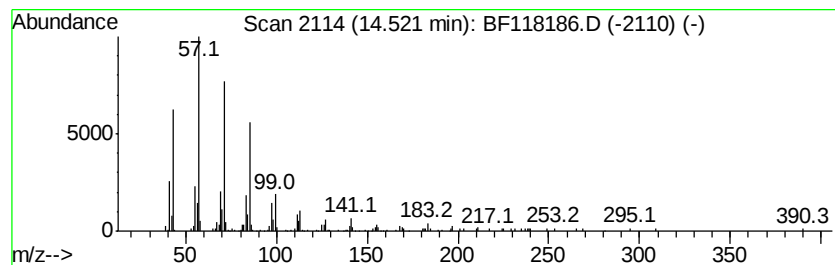
Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.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 Hexacosane Concentration Rank 11

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 14.52   | 5.00 ng            | 224539       | Chrysene-d12     | 14.06     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexacosane         | 366 C26H54   | 000630-01-3      | 91        |
| 2       | Pentacosane        | 352 C25H52   | 000629-99-2      | 91        |
| 3       | Octacosane         | 394 C28H58   | 000630-02-4      | 90        |
| 4       | 2-methyloctacosane | 408 C29H60   | 1000376-72-8     | 90        |
| 5       | Heneicosane        | 296 C21H44   | 000629-94-7      | 90        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

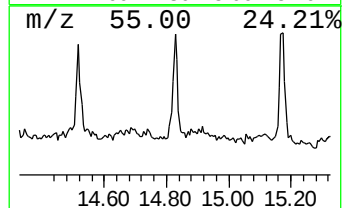
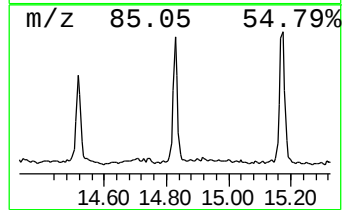
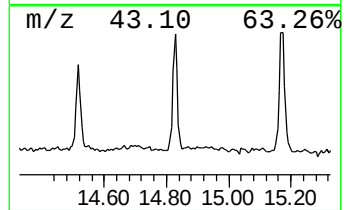
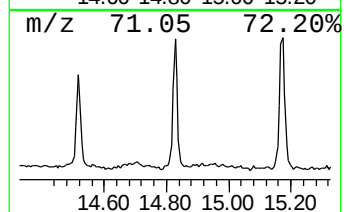
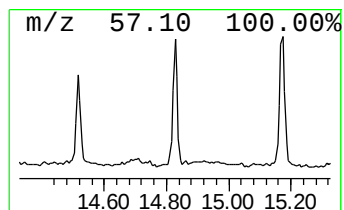
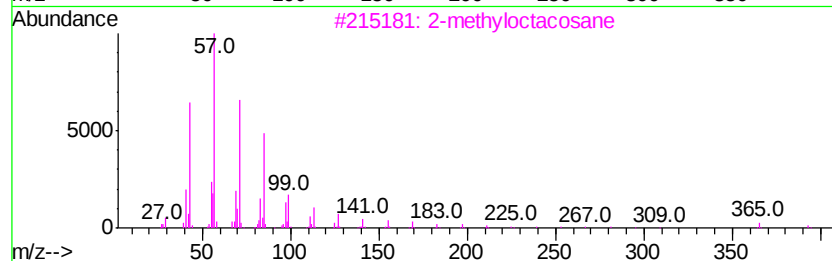
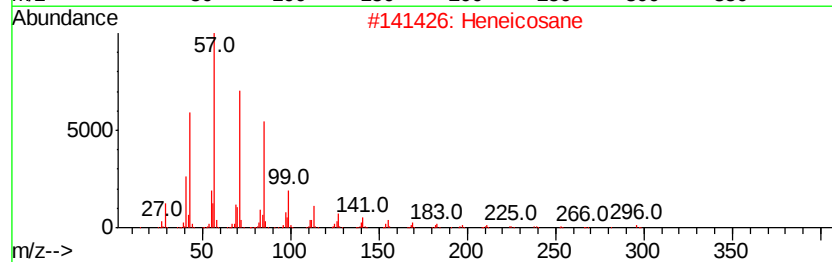
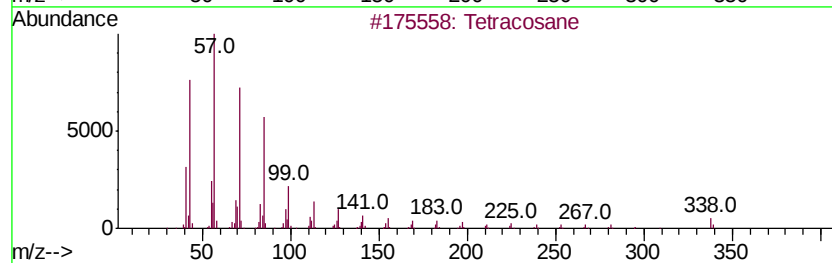
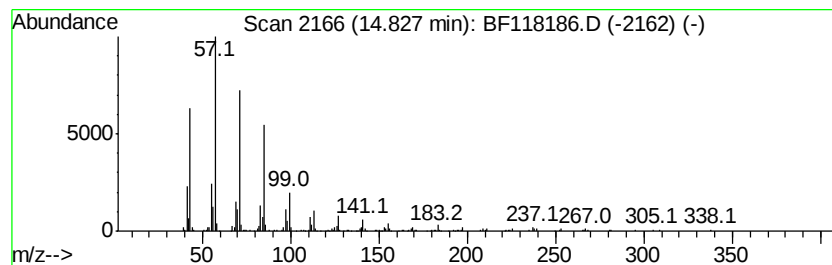
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Heneicosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.83 | 5.89 ng | 367067 | Perylene-d12     | 15.55 |

| Hit# of | 5 | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|---------|---|--------------------|-----|---------|--------------|------|
| 1       |   | Tetracosane        | 338 | C24H50  | 000646-31-1  | 97   |
| 2       |   | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 3       |   | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 4       |   | Eicosane           | 282 | C20H42  | 000112-95-8  | 91   |
| 5       |   | Hexacosane         | 366 | C26H54  | 000630-01-3  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DUP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

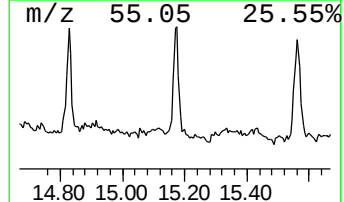
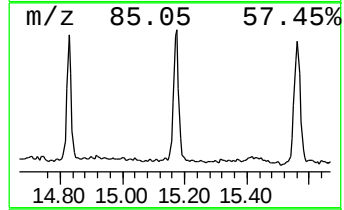
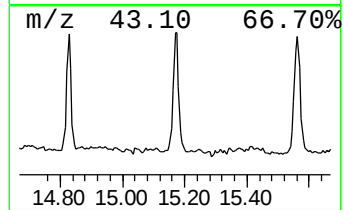
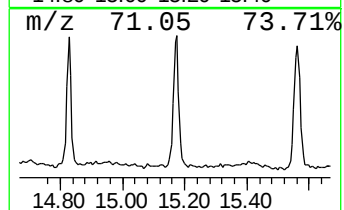
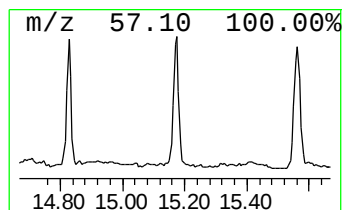
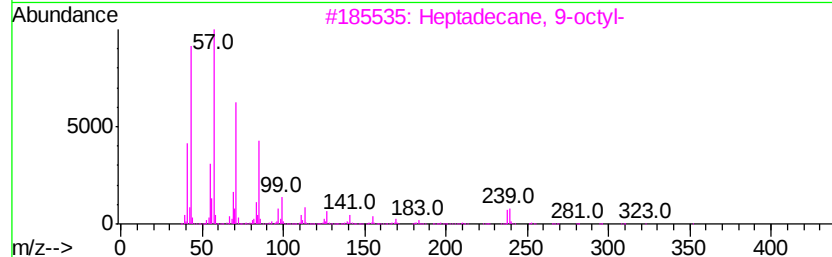
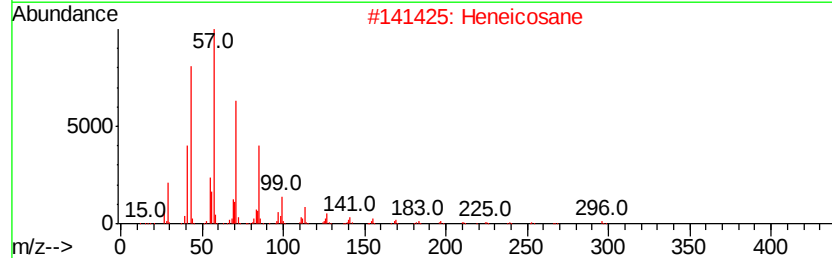
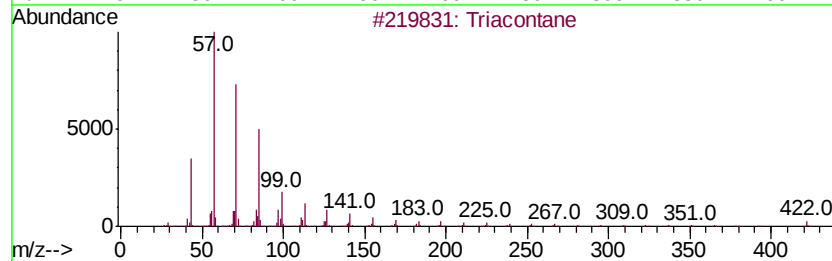
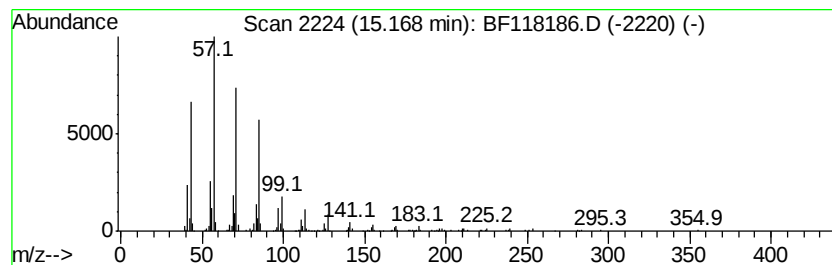
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Triacontane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.17 | 7.32 ng | 456602 | Perylene-d12     | 15.55 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Triacontane           | 422 | C30H62  | 000638-68-6  | 91   |
| 2    |    | Heneicosane           | 296 | C21H44  | 000629-94-7  | 91   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 91   |
| 4    |    | Tetracosane           | 338 | C24H50  | 000646-31-1  | 91   |
| 5    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

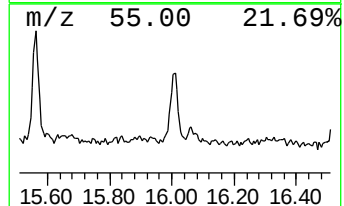
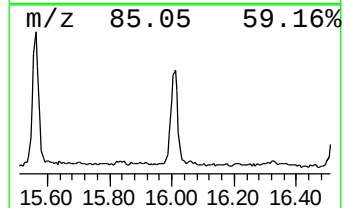
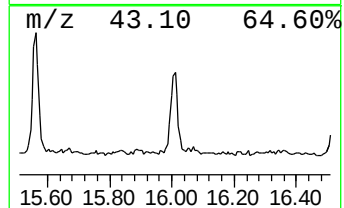
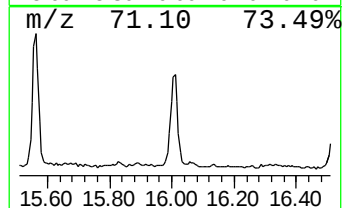
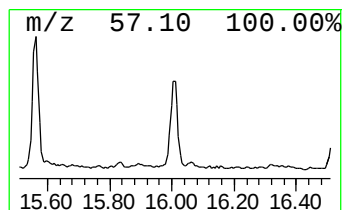
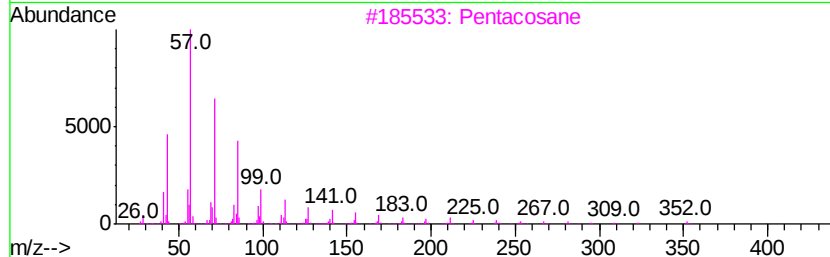
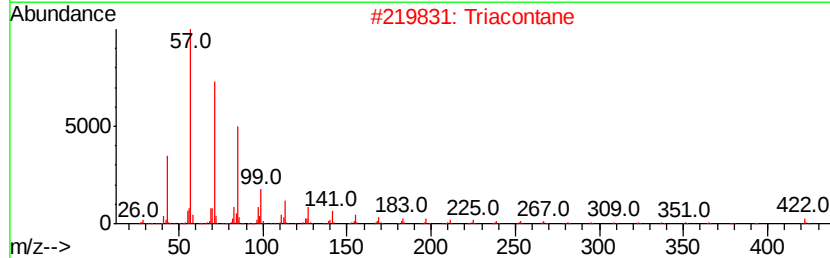
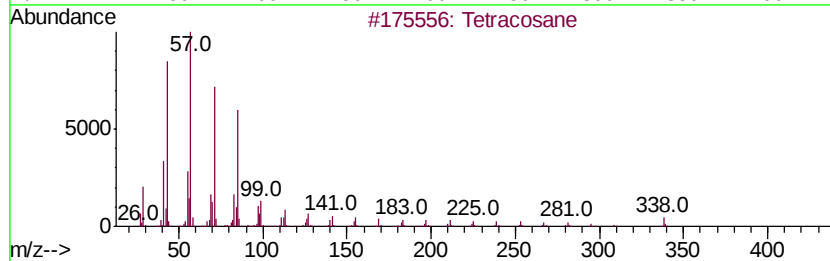
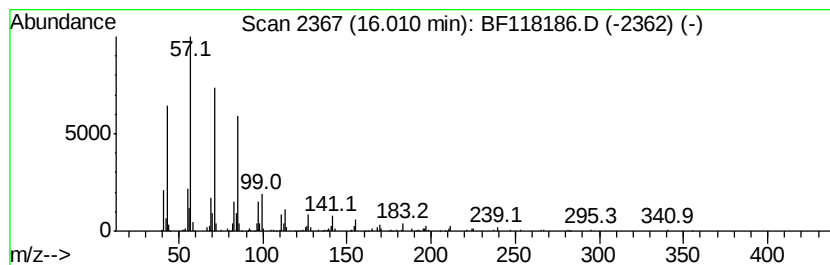
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Tetracosane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.01 | 5.85 ng | 364579 | Perylene-d12     | 15.55 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------|-----|---------|--------------|------|
| 1    |    |   | Tetracosane        | 338 | C24H50  | 000646-31-1  | 91   |
| 2    |    |   | Triacontane        | 422 | C30H62  | 000638-68-6  | 91   |
| 3    |    |   | Pentacosane        | 352 | C25H52  | 000629-99-2  | 91   |
| 4    |    |   | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 5    |    |   | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
Data File : BF118186.D  
Acq On : 13 Dec 2019 15:15  
Operator : JU  
Sample : K6235-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

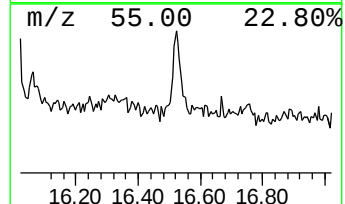
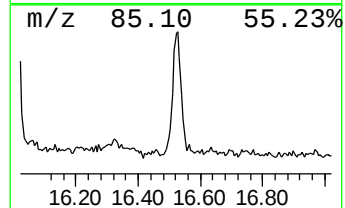
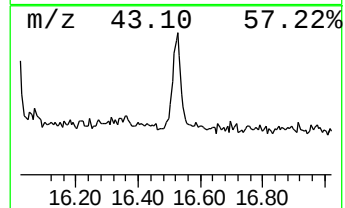
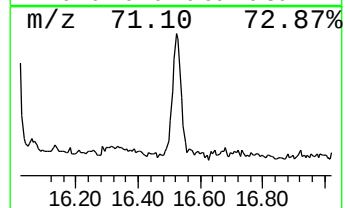
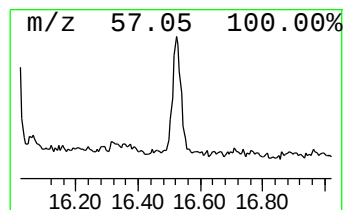
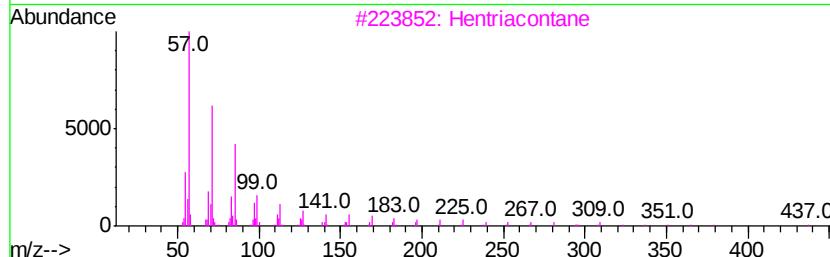
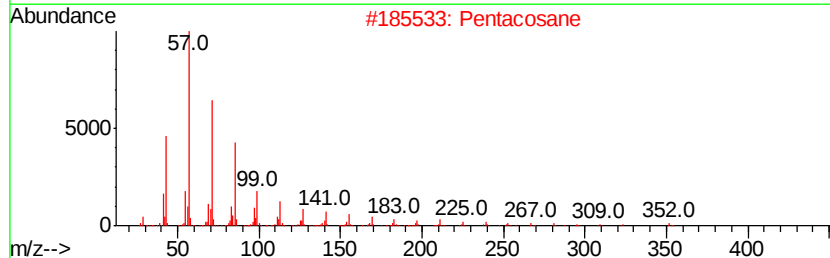
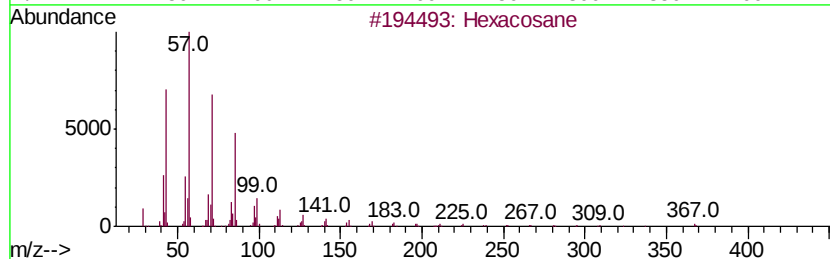
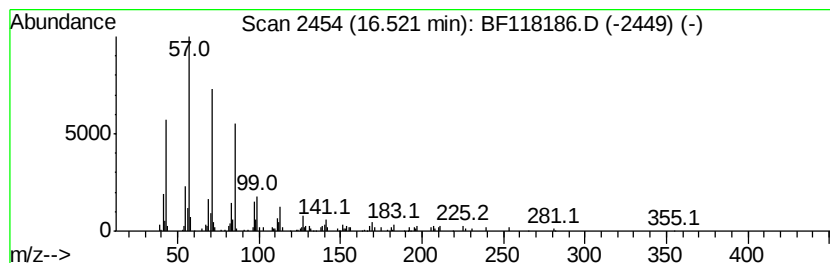
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Pentacosane Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.52 | 3.42 ng | 213542 | Perylene-d12     | 15.55 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Hexacosane        | 366 | C26H54  | 000630-01-3 | 91   |
| 2    |    |   | Pentacosane       | 352 | C25H52  | 000629-99-2 | 91   |
| 3    |    |   | Hentriacontane    | 437 | C31H64  | 000630-04-6 | 91   |
| 4    |    |   | Triacontane       | 422 | C30H62  | 000638-68-6 | 90   |
| 5    |    |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121319\  
 Data File : BF118186.D  
 Acq On : 13 Dec 2019 15:15  
 Operator : JU  
 Sample : K6235-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120619.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... | 2.12  | 30.8    | ng    | 1060120  | 1                     | 6.87  | 688001  | 20.0 |
| 2-Pentanone, 4-hy... | 5.07  | 4.7     | ng    | 161894   | 1                     | 6.87  | 688001  | 20.0 |
| unknown6.64          | 6.64  | 83.8    | ng    | 2881590  | 1                     | 6.87  | 688001  | 20.0 |
| Thiourea, N,N'-di... | 11.49 | 5.4     | ng    | 293118   | 4                     | 11.40 | 1090290 | 20.0 |
| n-Hexadecanoic acid  | 11.93 | 17.2    | ng    | 935719   | 4                     | 11.40 | 1090290 | 20.0 |
| Octadecanoic acid    | 12.72 | 12.7    | ng    | 693516   | 4                     | 11.40 | 1090290 | 20.0 |
| 5-Eicosene, (E)-     | 13.89 | 7.4     | ng    | 331247   | 5                     | 14.06 | 898274  | 20.0 |
| 10-Methylnonadecane  | 14.21 | 3.3     | ng    | 145854   | 5                     | 14.06 | 898274  | 20.0 |
| Hexacosane           | 14.52 | 5.0     | ng    | 224539   | 5                     | 14.06 | 898274  | 20.0 |
| Heneicosane          | 14.83 | 5.9     | ng    | 367067   | 6                     | 15.55 | 1247170 | 20.0 |
| Triacontane          | 15.17 | 7.3     | ng    | 456602   | 6                     | 15.55 | 1247170 | 20.0 |
| Tetracosane          | 16.01 | 5.8     | ng    | 364579   | 6                     | 15.55 | 1247170 | 20.0 |
| Pentacosane          | 16.52 | 3.4     | ng    | 213542   | 6                     | 15.55 | 1247170 | 20.0 |