

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
 Data File : BF100820.D  
 Acq On : 22 Nov 2017 12:24  
 Operator : SJ/JU  
 Sample : I6310-05 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AU-05-112017-A

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:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.481       | 573           | 577         | 586          | rVB      | 187408         | 179174        | 2.53%           | 0.804%        |
| 2         | 6.487       | 745           | 748         | 757          | rBV      | 222816         | 192950        | 2.73%           | 0.866%        |
| 3         | 6.634       | 770           | 773         | 777          | rBV      | 242736         | 198167        | 2.80%           | 0.889%        |
| 4         | 6.869       | 809           | 813         | 817          | rBV      | 546058         | 471533        | 6.67%           | 2.116%        |
| 5         | 7.028       | 836           | 840         | 843          | rBV      | 169603         | 149078        | 2.11%           | 0.669%        |
| 6         | 7.428       | 905           | 908         | 912          | rBV      | 139275         | 113360        | 1.60%           | 0.509%        |
| 7         | 8.151       | 1028          | 1031        | 1035         | rVB      | 744586         | 588777        | 8.33%           | 2.643%        |
| 8         | 9.222       | 1210          | 1213        | 1218         | rVB      | 277847         | 240004        | 3.40%           | 1.077%        |
| 9         | 9.298       | 1223          | 1226        | 1230         | rBV      | 87088          | 83745         | 1.18%           | 0.376%        |
| 10        | 9.828       | 1309          | 1316        | 1319         | rBV      | 120439         | 120920        | 1.71%           | 0.543%        |
| 11        | 9.910       | 1324          | 1330        | 1334         | rVB      | 749868         | 635875        | 9.00%           | 2.854%        |
| 12        | 10.328      | 1396          | 1401        | 1404         | rBV      | 142559         | 120886        | 1.71%           | 0.543%        |
| 13        | 10.551      | 1433          | 1439        | 1445         | rVB      | 47648          | 73642         | 1.04%           | 0.331%        |
| 14        | 10.692      | 1461          | 1463        | 1467         | rVB      | 124995         | 93913         | 1.33%           | 0.422%        |
| 15        | 10.804      | 1479          | 1482        | 1487         | rBV      | 145965         | 182791        | 2.59%           | 0.820%        |
| 16        | 11.251      | 1555          | 1558        | 1560         | rBV      | 128601         | 99007         | 1.40%           | 0.444%        |
| 17        | 11.392      | 1579          | 1582        | 1585         | rBV      | 609054         | 520142        | 7.36%           | 2.335%        |
| 18        | 11.675      | 1628          | 1630        | 1633         | rBV      | 95761          | 82186         | 1.16%           | 0.369%        |
| 19        | 11.780      | 1644          | 1648        | 1651         | rBV      | 2687032        | 2467594       | 34.91%          | 11.076%       |
| 20        | 11.916      | 1667          | 1671        | 1678         | rBV      | 190773         | 188737        | 2.67%           | 0.847%        |
| 21        | 12.080      | 1696          | 1699        | 1706         | rBV      | 79160          | 95172         | 1.35%           | 0.427%        |
| 22        | 12.480      | 1756          | 1767        | 1769         | rBV      | 4403274        | 7068689       | 100.00%         | 31.728%       |
| 23        | 12.504      | 1769          | 1771        | 1776         | rVV2     | 4466931        | 3958978       | 56.01%          | 17.770%       |
| 24        | 12.575      | 1779          | 1783        | 1786         | rVV      | 1587608        | 1290738       | 18.26%          | 5.793%        |
| 25        | 12.610      | 1786          | 1789        | 1791         | rVV2     | 324122         | 378244        | 5.35%           | 1.698%        |
| 26        | 12.633      | 1791          | 1793        | 1800         | rVV2     | 332157         | 404756        | 5.73%           | 1.817%        |
| 27        | 12.839      | 1826          | 1828        | 1835         | rVB3     | 65786          | 88594         | 1.25%           | 0.398%        |
| 28        | 12.975      | 1846          | 1851        | 1854         | rBV      | 189709         | 187996        | 2.66%           | 0.844%        |
| 29        | 13.157      | 1876          | 1882        | 1887         | rBV7     | 69918          | 127665        | 1.81%           | 0.573%        |
| 30        | 13.216      | 1891          | 1892        | 1898         | rVB2     | 104295         | 85666         | 1.21%           | 0.385%        |
| 31        | 13.292      | 1902          | 1905        | 1908         | rBV      | 129651         | 133513        | 1.89%           | 0.599%        |
| 32        | 13.451      | 1929          | 1932        | 1936         | rVB3     | 56601          | 72315         | 1.02%           | 0.325%        |
| 33        | 13.722      | 1974          | 1978        | 1982         | rVB2     | 118852         | 157183        | 2.22%           | 0.706%        |
| 34        | 13.963      | 2015          | 2019        | 2022         | rBV      | 146013         | 129771        | 1.84%           | 0.582%        |

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Start Thrs: 0.2 Max Peaks: 100  
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Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 35 | 14.033 | 2027 | 2031 | 2034 | rBV  | 554648 | 494534 | 7.00% | 2.220% |
| 36 | 15.133 | 2215 | 2218 | 2221 | rBV  | 59689  | 72483  | 1.03% | 0.325% |
| 37 | 15.510 | 2277 | 2282 | 2289 | rBV  | 425205 | 549695 | 7.78% | 2.467% |
| 38 | 15.957 | 2354 | 2358 | 2363 | rVB  | 57619  | 82170  | 1.16% | 0.369% |
| 39 | 16.210 | 2398 | 2401 | 2409 | rVB4 | 54790  | 98550  | 1.39% | 0.442% |

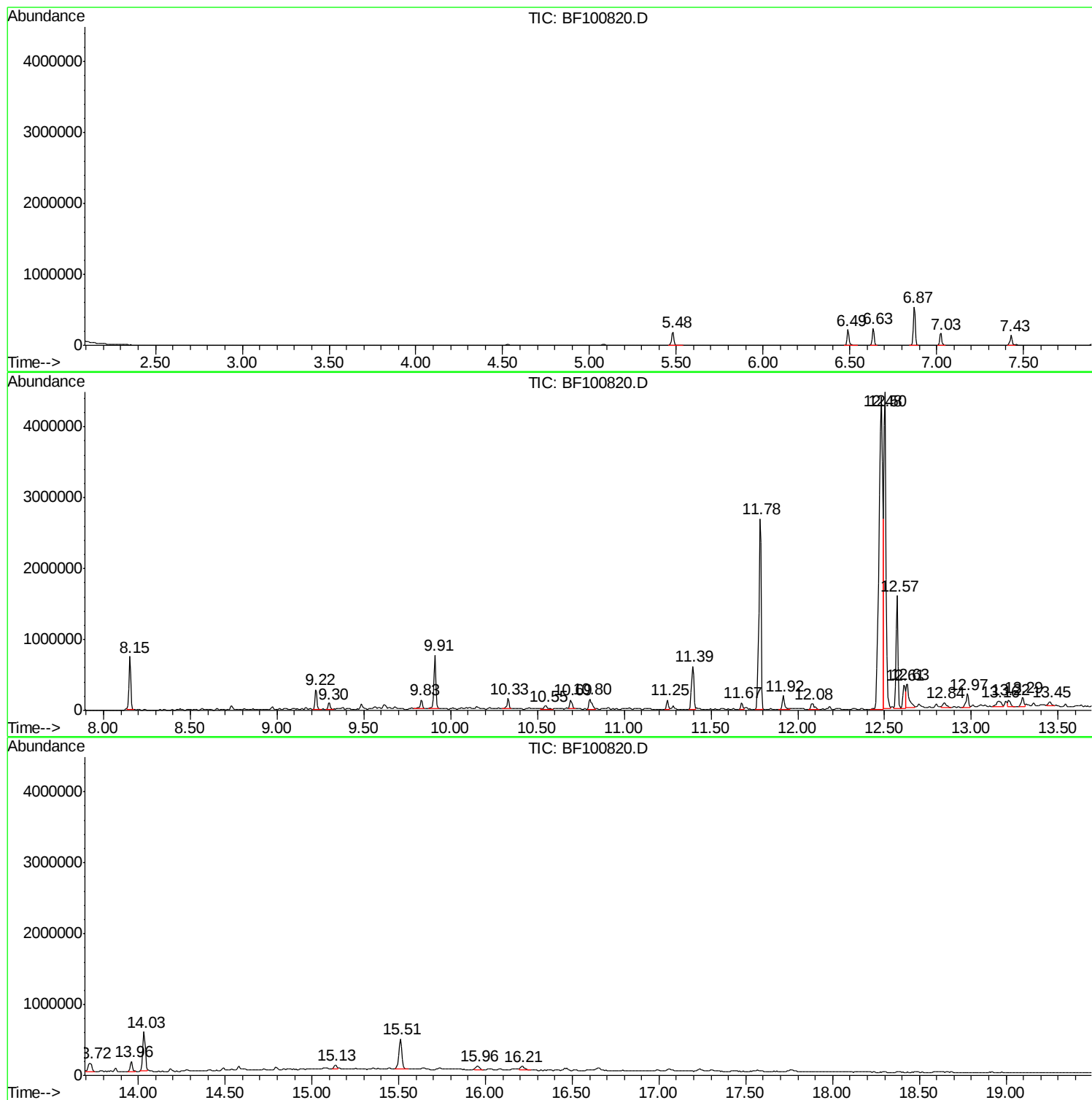
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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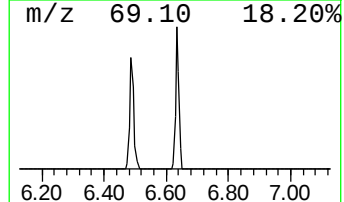
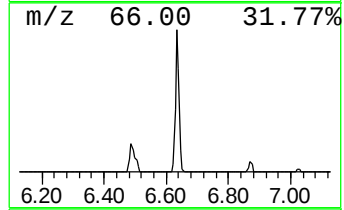
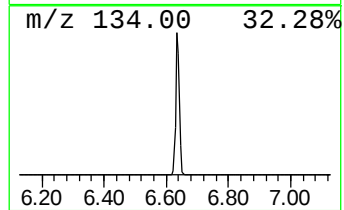
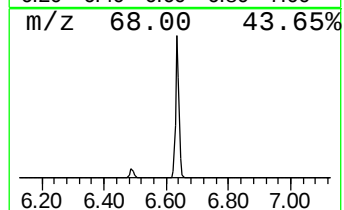
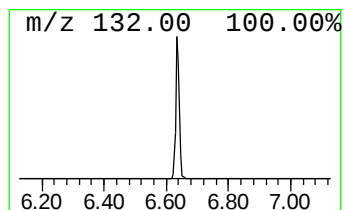
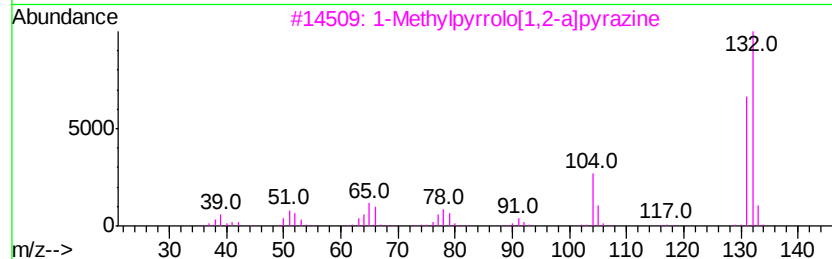
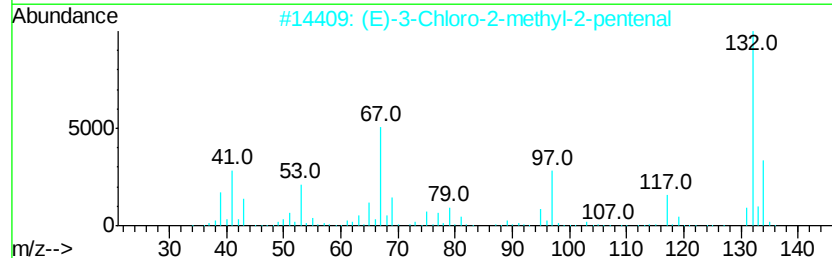
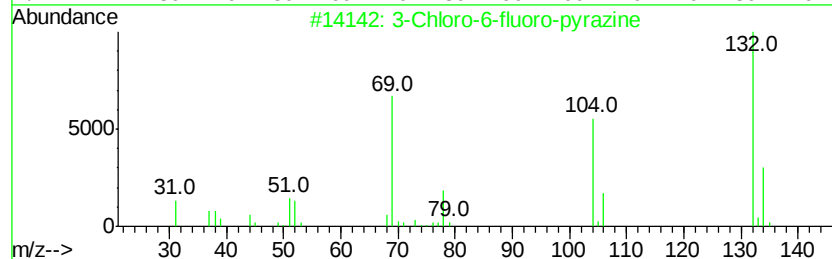
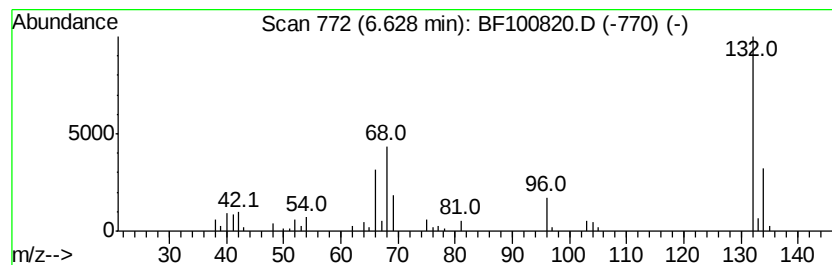
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.63 Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.63 | 8.41 ng | 198167 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    |   | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    |   | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |
| 4    |    |   | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    |   | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

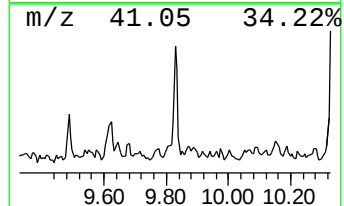
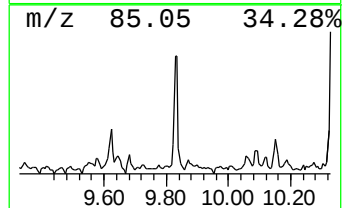
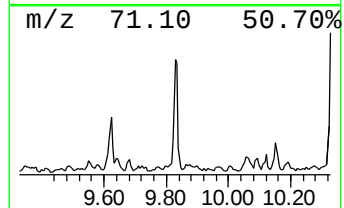
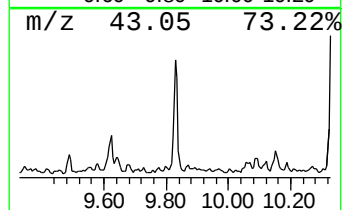
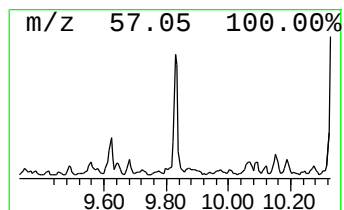
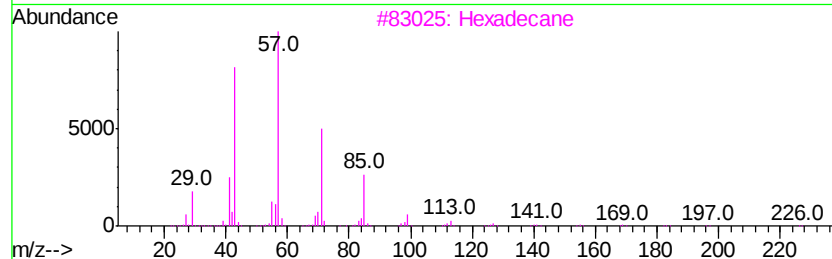
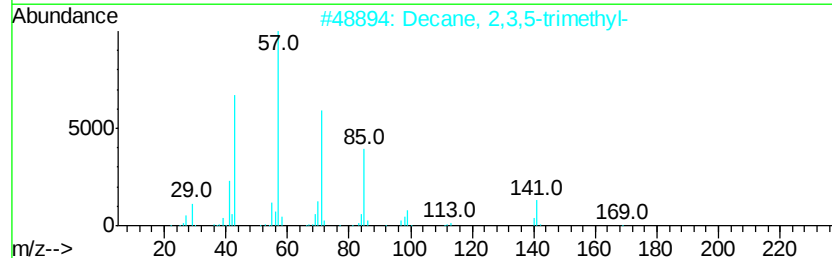
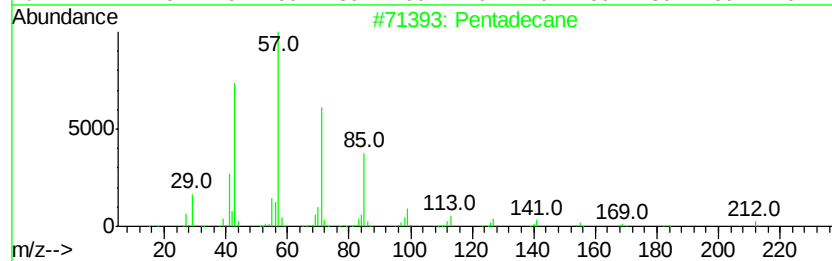
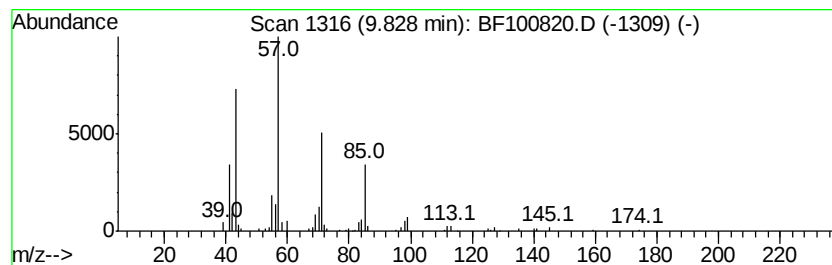
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Pentadecane Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.83 | 3.80 ng | 120920 | Acenaphthene-d10 | 9.91 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane               |              | 212 | C15H32  | 000629-62-9 | 90   |
| 2       | Decane, 2,3,5-trimethyl-  |              | 184 | C13H28  | 062238-11-3 | 90   |
| 3       | Hexadecane                |              | 226 | C16H34  | 000544-76-3 | 87   |
| 4       | Hexadecane, 7,9-dimethyl- |              | 254 | C18H38  | 021164-95-4 | 80   |
| 5       | Tridecane                 |              | 184 | C13H28  | 000629-50-5 | 78   |



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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
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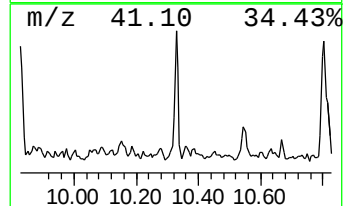
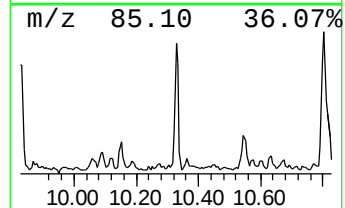
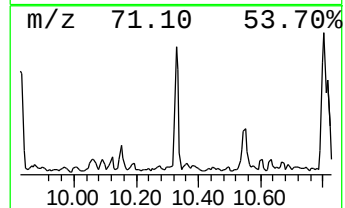
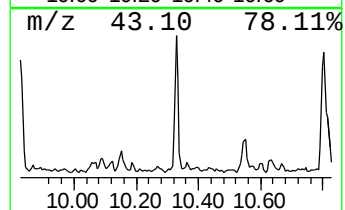
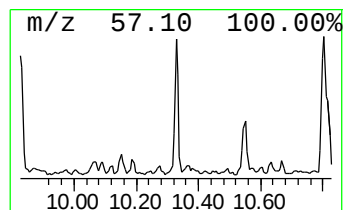
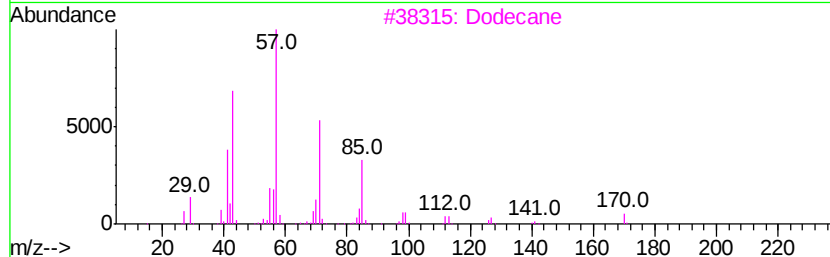
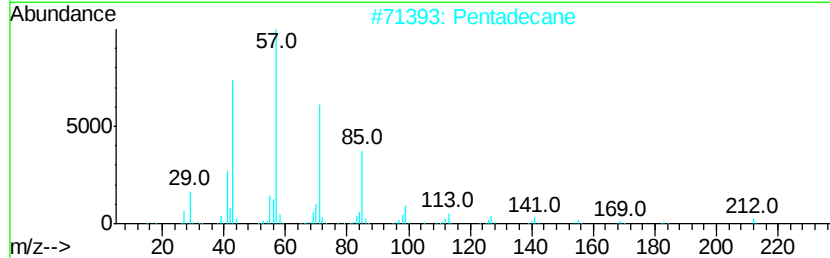
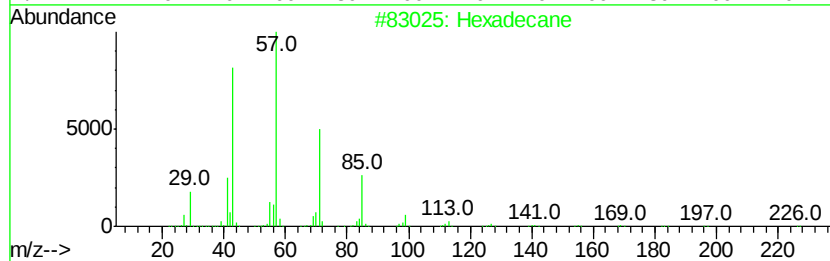
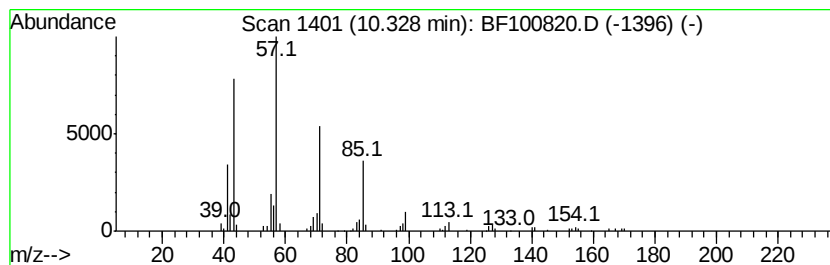
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Hexadecane Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.33 | 3.80 ng | 120886 | Acenaphthene-d10 | 9.91 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 91   |
| 2       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 90   |
| 3       | Dodecane    |              | 170 | C12H26  | 000112-40-3 | 87   |
| 4       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 86   |
| 5       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 86   |



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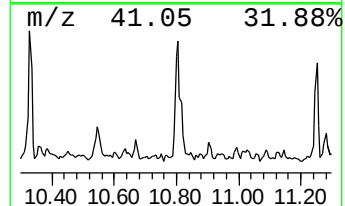
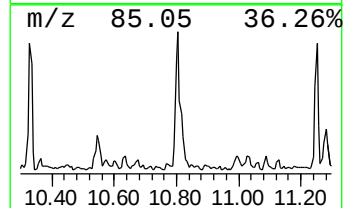
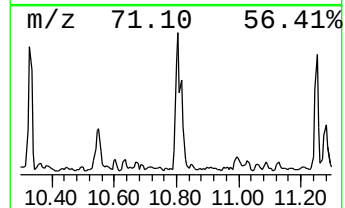
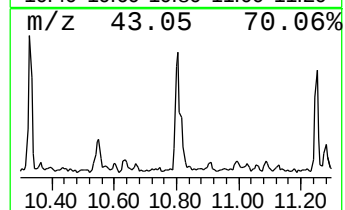
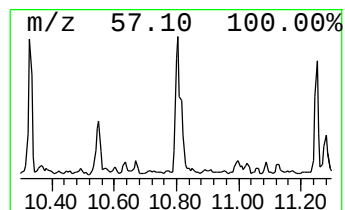
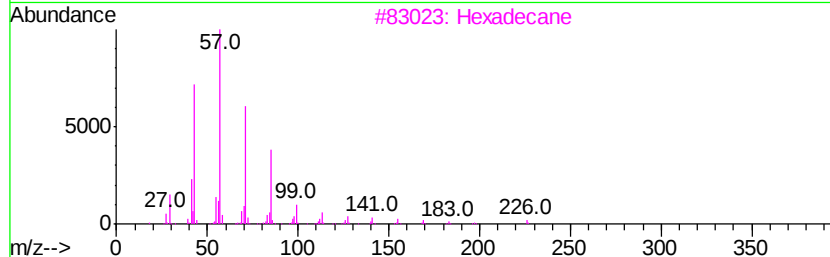
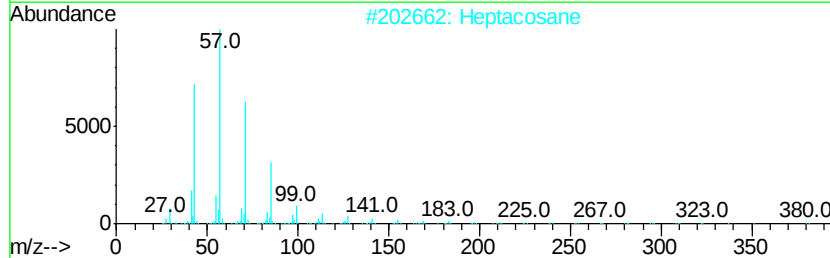
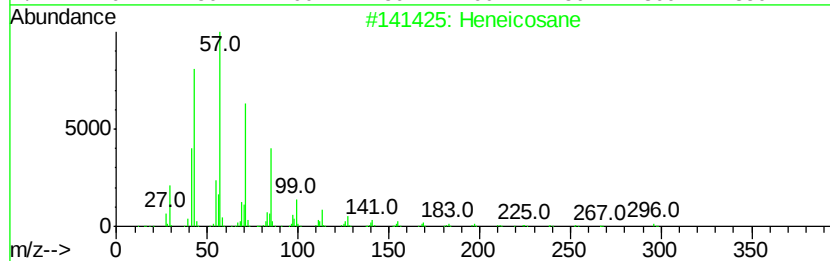
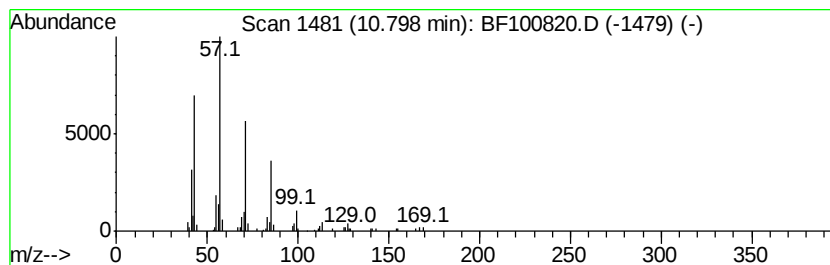
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heneicosane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.80 | 7.03 ng | 182791 | Phenanthrene-d10 | 11.39 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 91   |
| 2       | Heptacosane |              | 380 | C27H56  | 000593-49-7 | 91   |
| 3       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 91   |
| 4       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 91   |
| 5       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 91   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

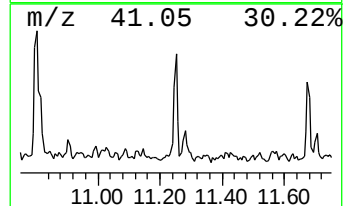
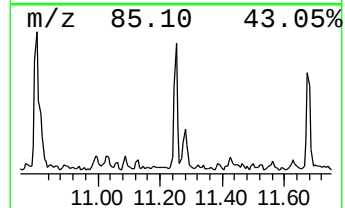
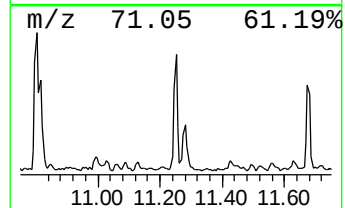
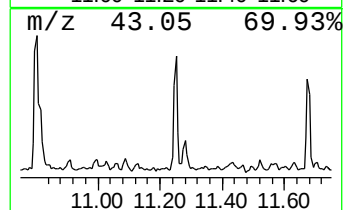
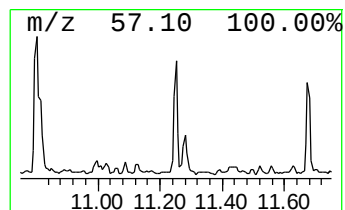
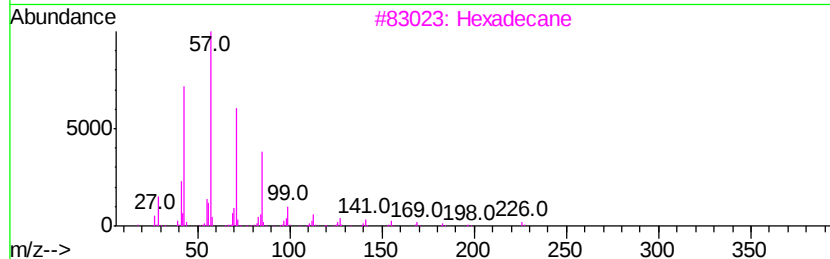
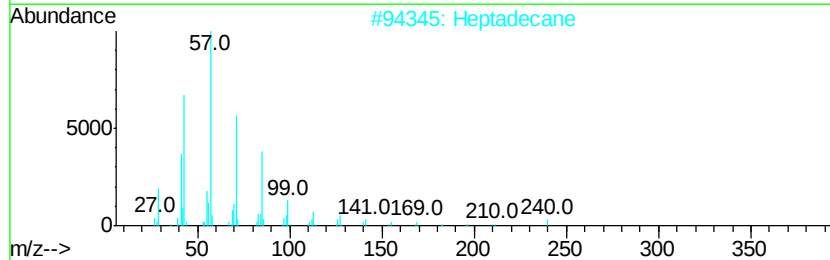
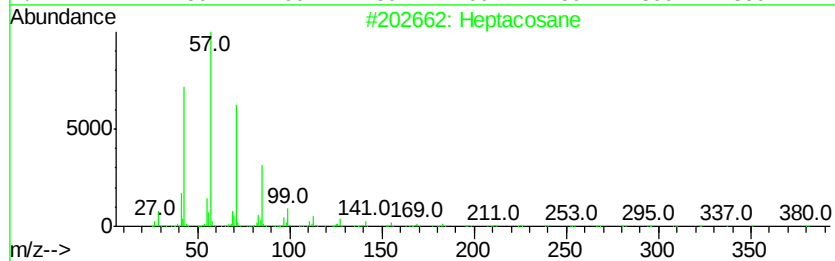
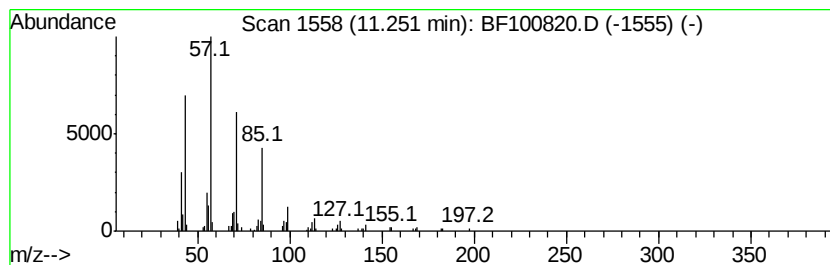
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heptacosane Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.25 | 3.81 ng | 99007 | Phenanthrene-d10 | 11.39 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heptacosane |              | 380 | C27H56  | 000593-49-7 | 91   |
| 2       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 91   |
| 3       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 91   |
| 4       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 91   |
| 5       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

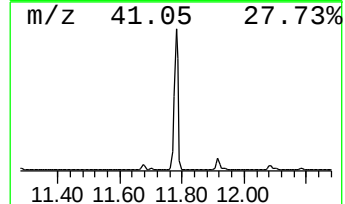
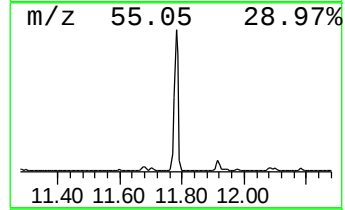
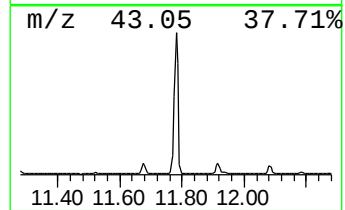
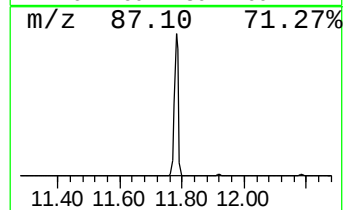
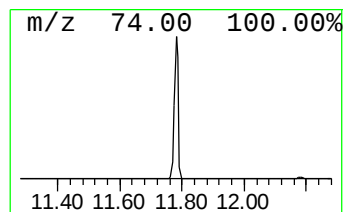
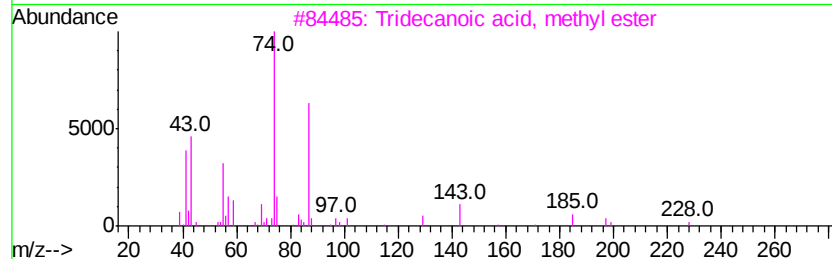
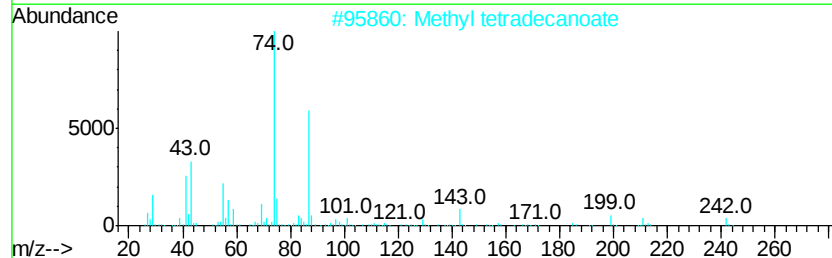
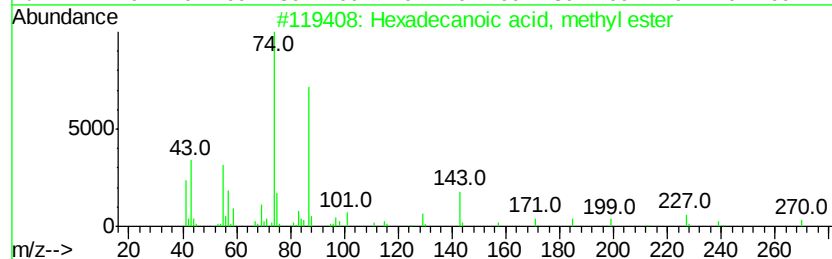
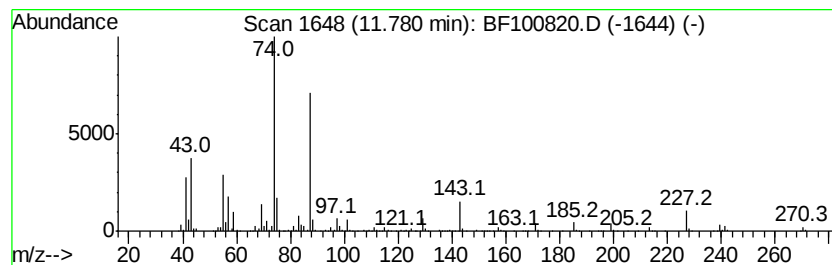
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.78 | 94.88 ng | 2467590 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 91   |
| 3    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 87   |
| 4    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 87   |
| 5    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

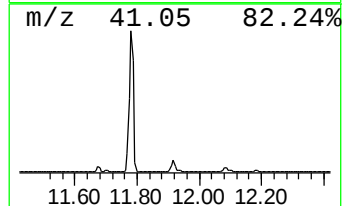
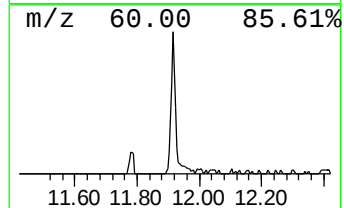
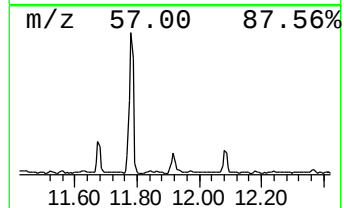
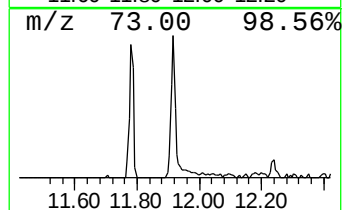
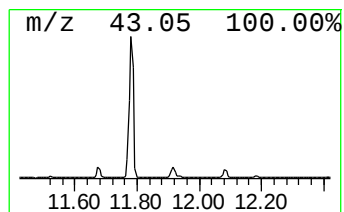
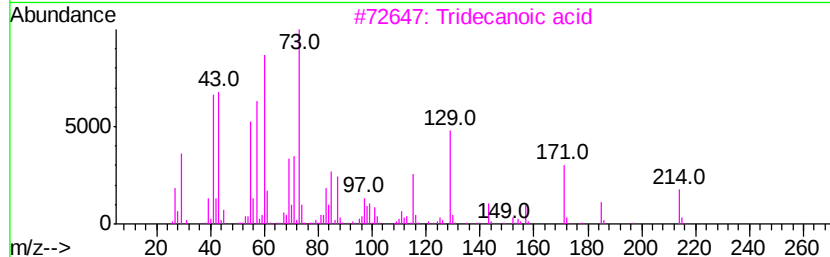
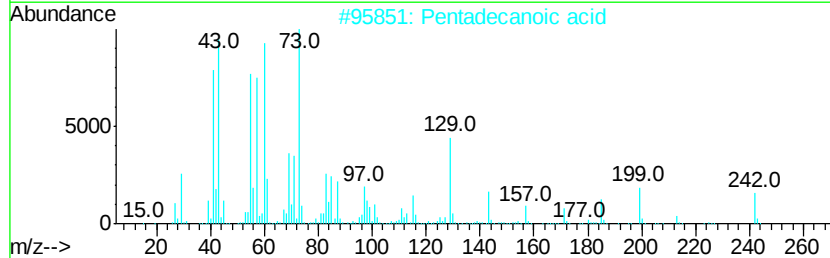
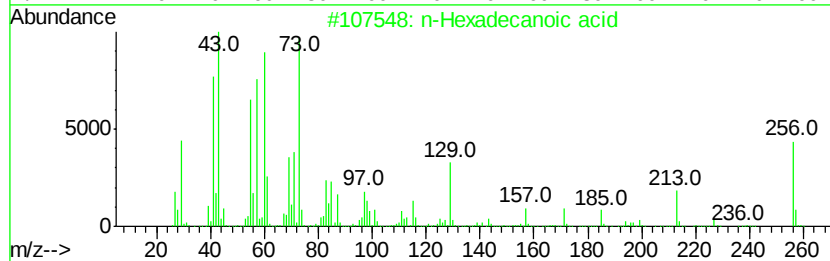
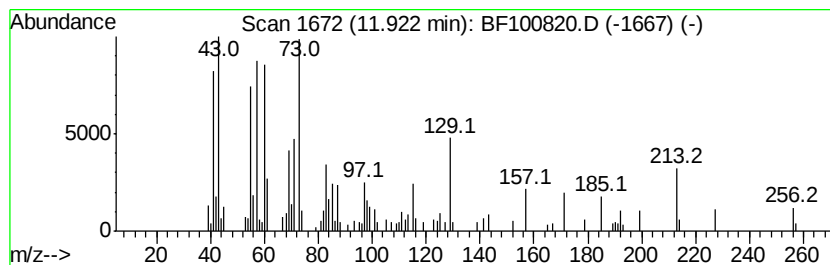
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 n-Hexadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.92 | 7.26 ng | 188737 | Phenanthrene-d10 | 11.39 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3 | 96   |
| 2       |   | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 3       |   | Tridecanoic acid                    | 214 | C13H26O2 | 000638-53-9 | 91   |
| 4       |   | Tetradecanoic acid                  | 228 | C14H28O2 | 000544-63-8 | 80   |
| 5       |   | 2-Butenoic acid, 2-methoxy-3-met... | 144 | C7H12O3  | 056009-32-6 | 20   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

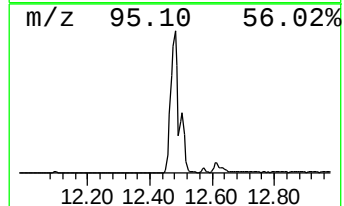
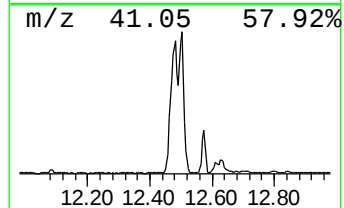
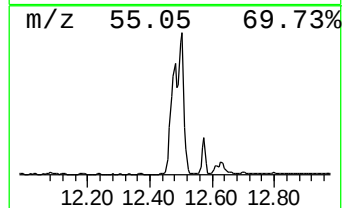
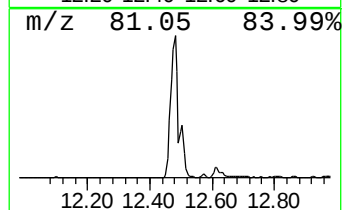
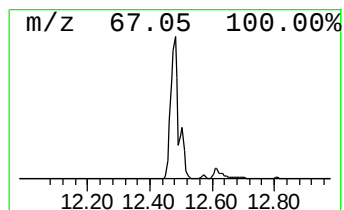
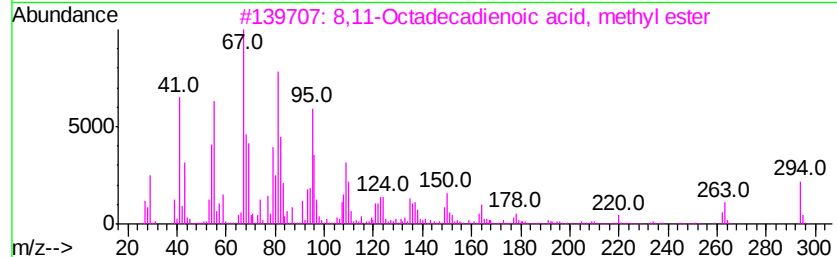
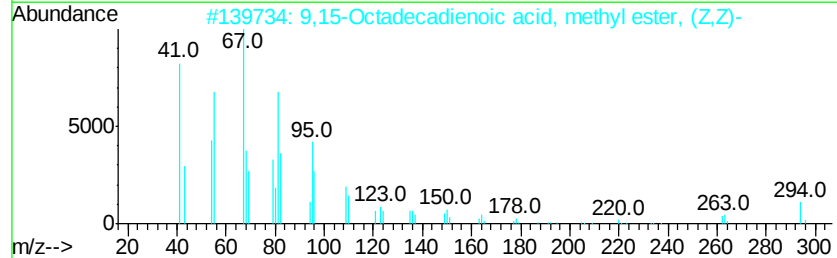
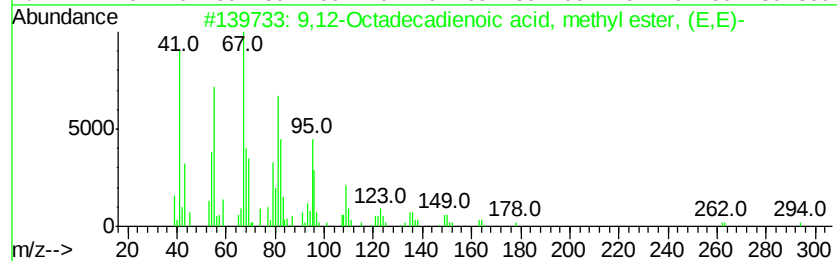
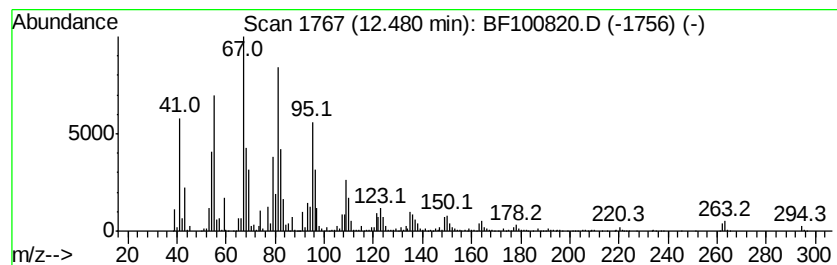
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.48 | 271.80 ng | 7068690 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 2    |    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99   |
| 3    |    | 8,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 056599-58-7 | 99   |
| 4    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99   |
| 5    |    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 98   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

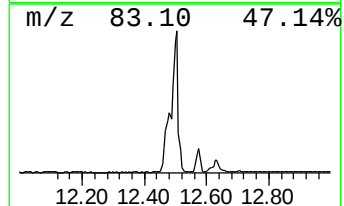
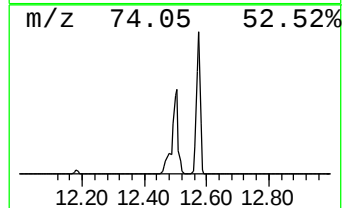
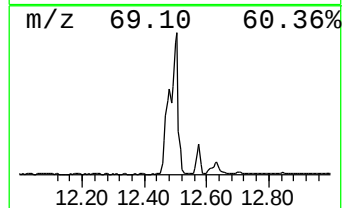
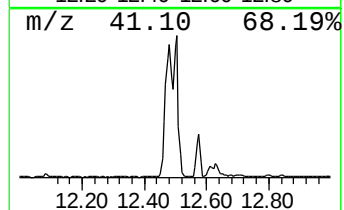
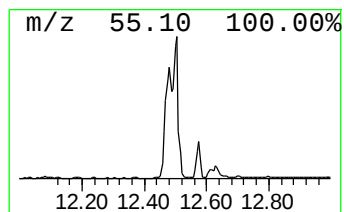
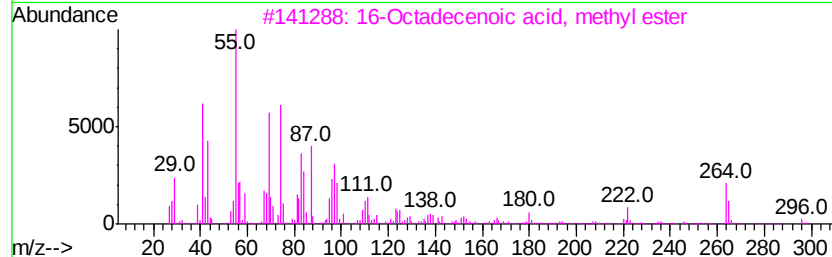
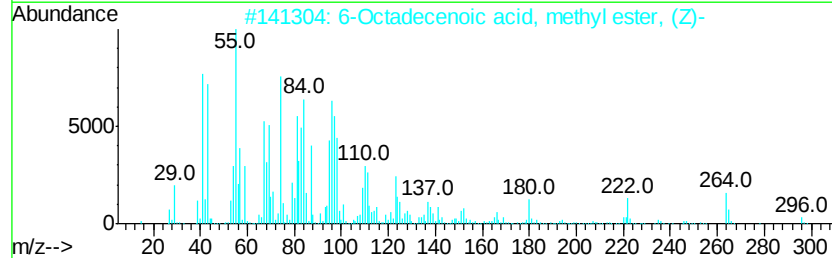
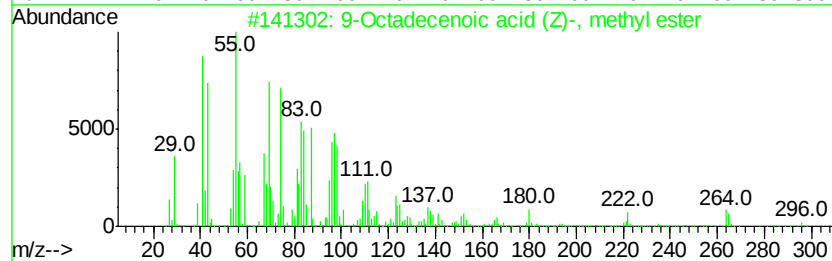
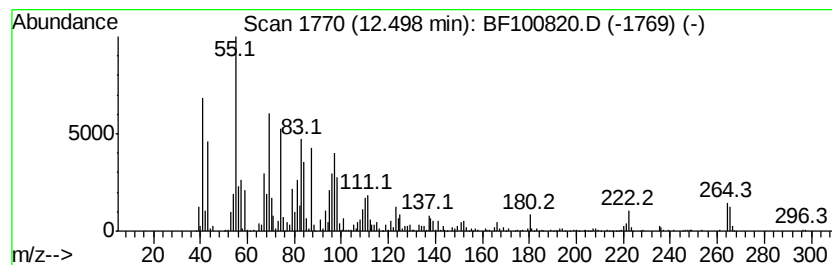
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.50 | 152.23 ng | 3958980 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99   |
| 2    |    | 6-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 002777-58-4 | 99   |
| 3    |    | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5 | 99   |
| 4    |    | 14-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-48-4 | 98   |
| 5    |    | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3 | 98   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

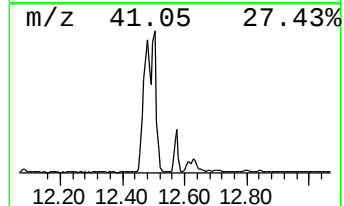
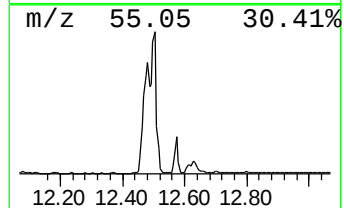
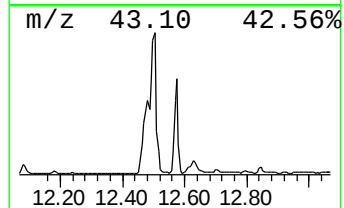
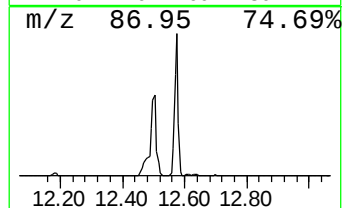
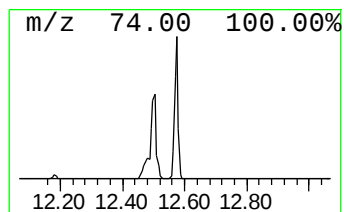
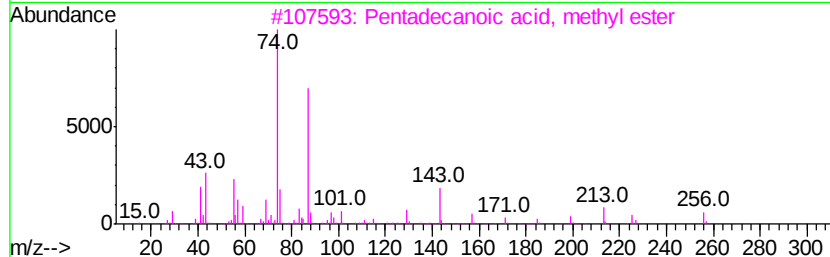
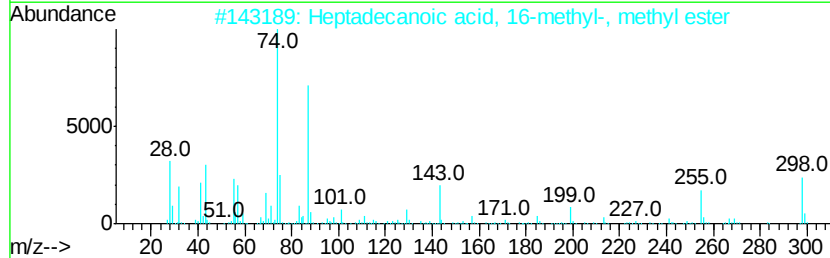
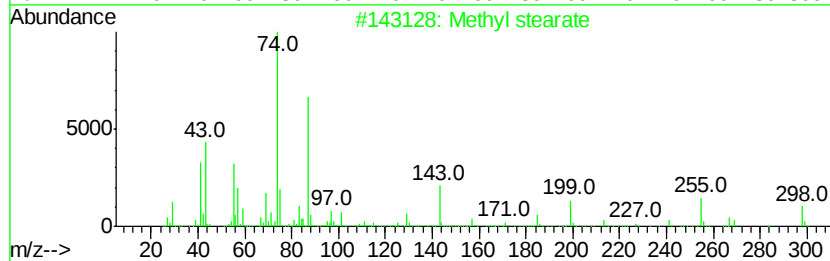
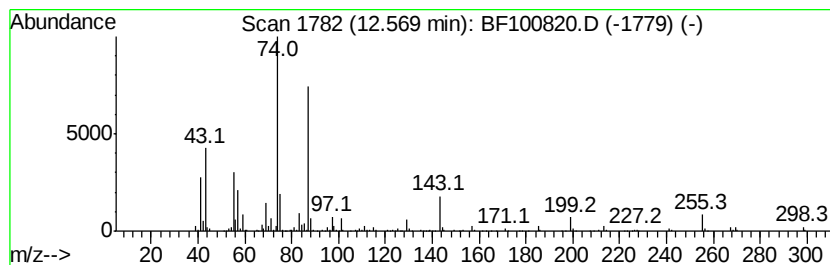
Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Methyl stearate Concentration Rank 4

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 12.57   | 49.63 ng | 1290740                             | Phenanthrene-d10 | 11.39          |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Methyl stearate                     | 298 C19H38O2     | 000112-61-8 98 |
| 2       |          | Heptadecanoic acid, 16-methyl-, ... | 298 C19H38O2     | 005129-61-3 92 |
| 3       |          | Pentadecanoic acid, methyl ester    | 256 C16H32O2     | 007132-64-1 90 |
| 4       |          | Heptadecanoic acid, 15-methyl-, ... | 298 C19H38O2     | 054833-55-5 90 |
| 5       |          | Hexadecanoic acid, methyl ester     | 270 C17H34O2     | 000112-39-0 86 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

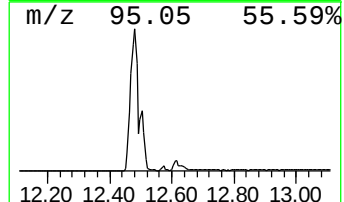
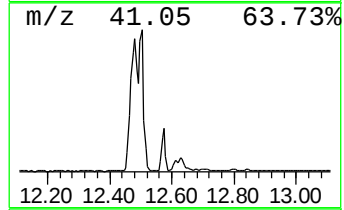
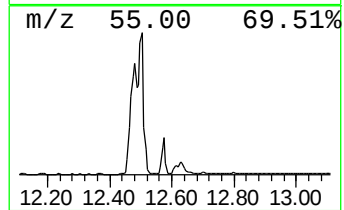
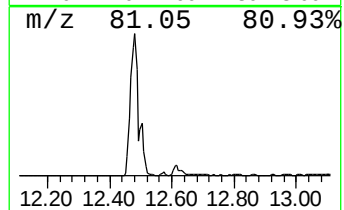
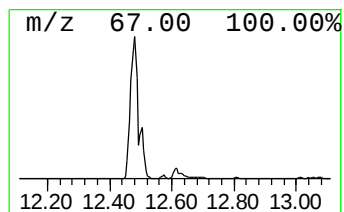
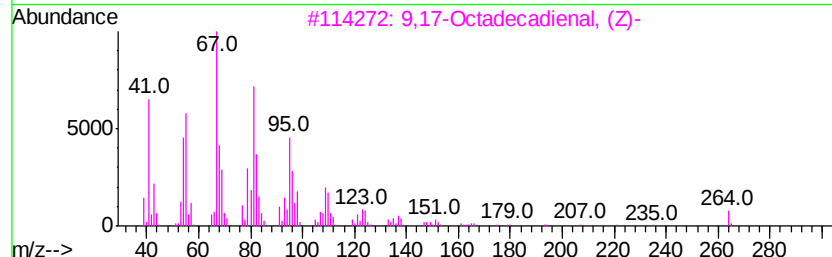
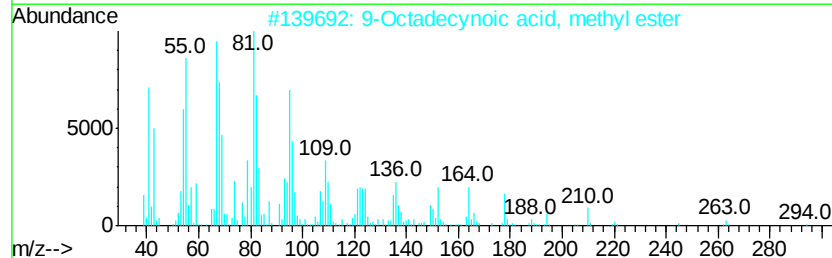
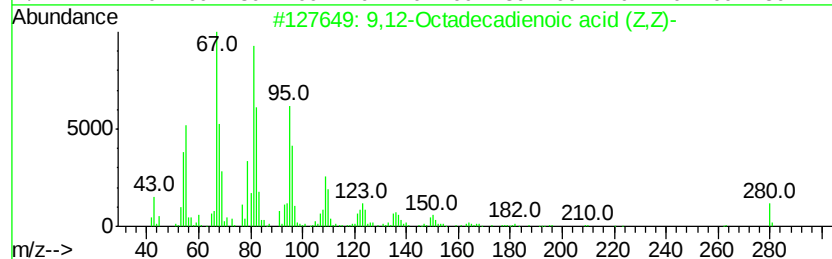
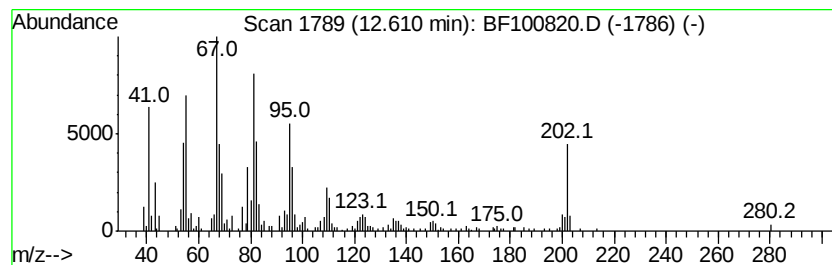
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 9,12-Octadecadienoic acid (... Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.61 | 14.54 ng | 378244 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                      | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid (Z,Z)-  | 280 | C18H32O2 | 000060-33-3 | 99   |
| 2    |    | 9-Octadecynoic acid, methyl ester | 294 | C19H34O2 | 001120-32-7 | 72   |
| 3    |    | 9,17-Octadecadienal, (Z)-         | 264 | C18H32O  | 056554-35-9 | 70   |
| 4    |    | Cyclodecene                       | 138 | C10H18   | 003618-12-0 | 70   |
| 5    |    | 7-Tetradecyne                     | 194 | C14H26   | 035216-11-6 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

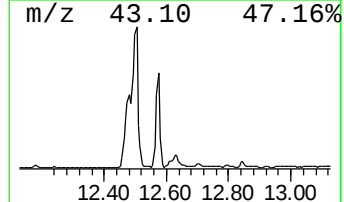
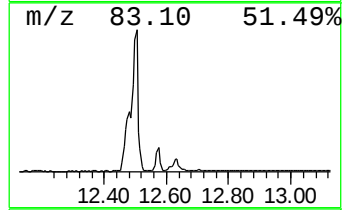
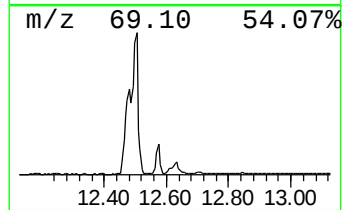
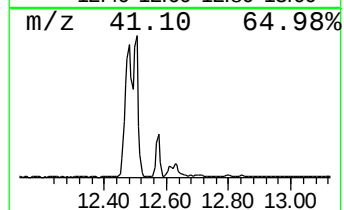
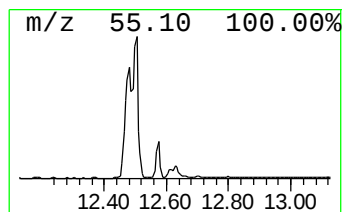
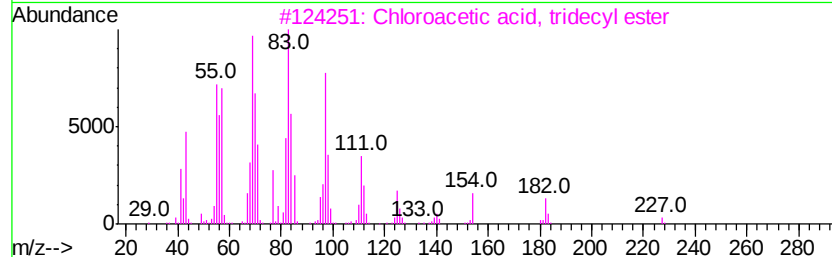
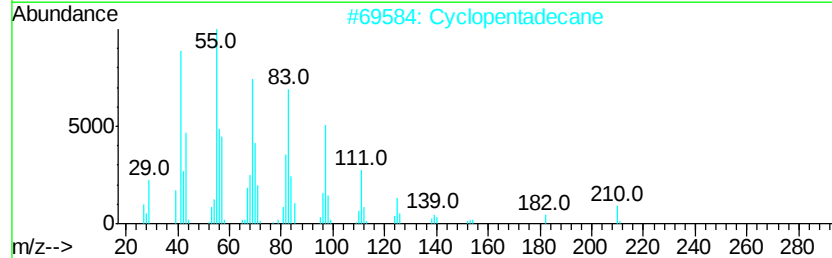
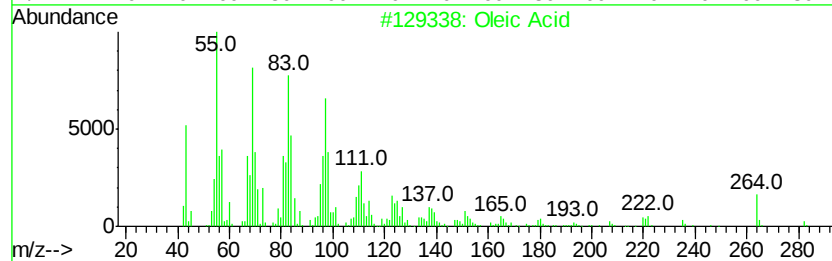
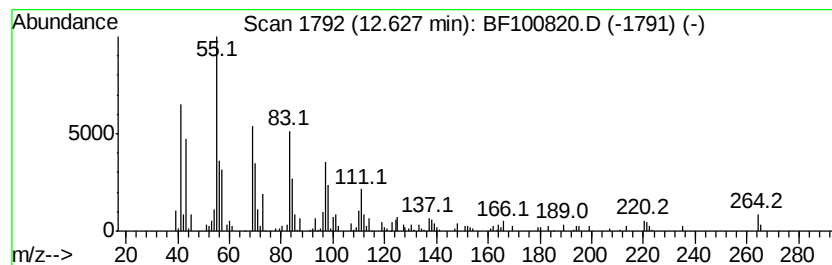
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Oleic Acid Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.63 | 15.56 ng | 404756 | Phenanthrene-d10 | 11.39 |

| Hit# of | 5                                 | Tentative ID | MW  | MolForm    | CAS#        | Qual |
|---------|-----------------------------------|--------------|-----|------------|-------------|------|
| 1       | Oleic Acid                        |              | 282 | C18H34O2   | 000112-80-1 | 80   |
| 2       | Cyclopentadecane                  |              | 210 | C15H30     | 000295-48-7 | 72   |
| 3       | Chloroacetic acid, tridecyl ester |              | 276 | C15H29ClO2 | 018277-85-5 | 72   |
| 4       | Tetradecyl trifluoroacetate       |              | 310 | C16H29F3O2 | 006222-02-2 | 72   |
| 5       | 1-Hexadecanol                     |              | 242 | C16H34O    | 036653-82-4 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

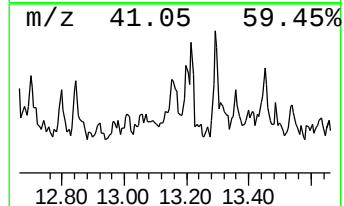
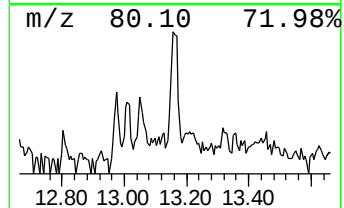
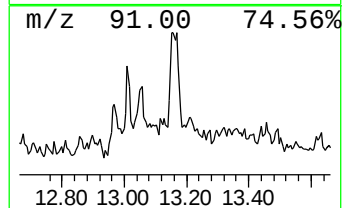
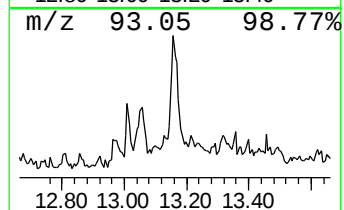
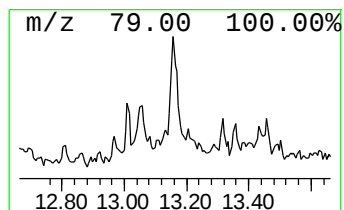
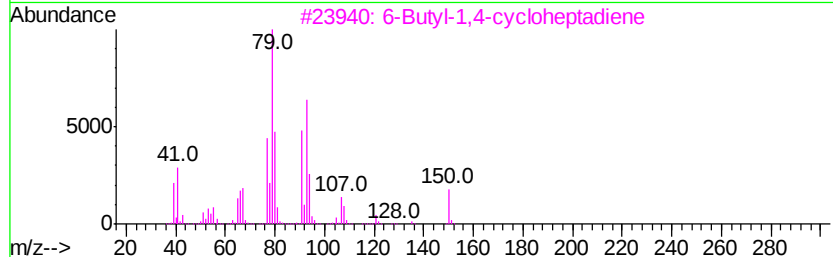
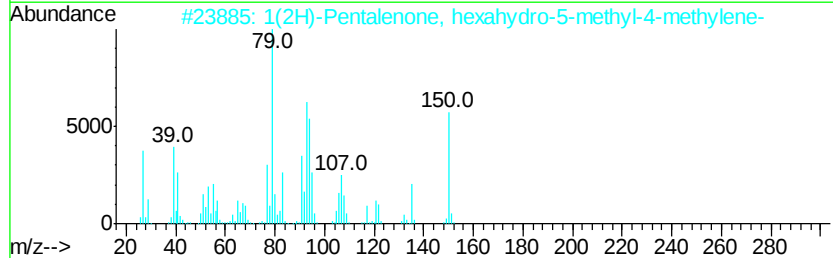
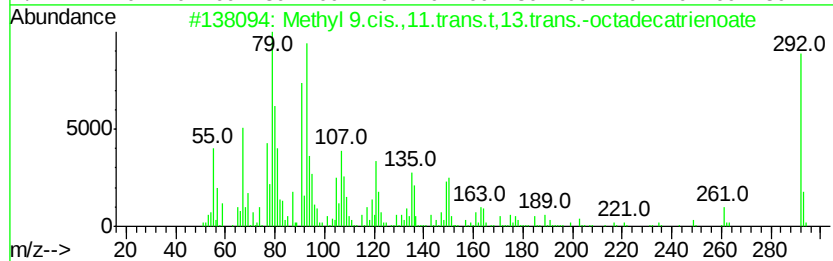
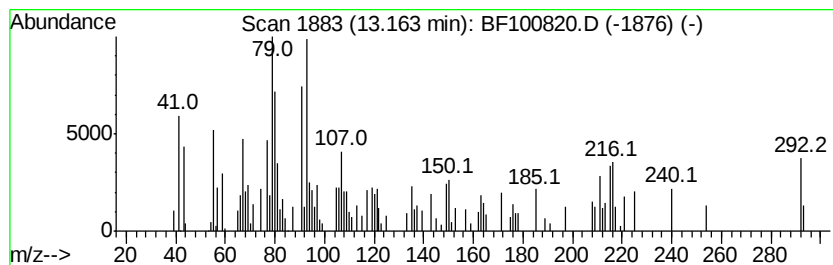
Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 16 Methyl 9.cis.,11.trans.t,13... Concentration Rank 14

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|---------|-------------------------------------|------------------|----------|--------------|------|
| 13.16   | 5.16 ng | 127665                              | Chrysene-d12     | 14.03    |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |         | Methyl 9.cis.,11.trans.t,13.tran... | 292              | C19H32O2 | 1000336-42-6 | 83   |
| 2       |         | 1(2H)-Pentalenone, hexahydro-5-m... | 150              | C10H14O  | 120587-85-1  | 70   |
| 3       |         | 6-Butyl-1,4-cvcloheptadiene         | 150              | C11H18   | 022735-58-6  | 55   |
| 4       |         | 4-Tridecen-6-yne, (Z)-              | 178              | C13H22   | 074744-42-6  | 49   |
| 5       |         | 4-Tridecen-6-yne, (E)-              | 178              | C13H22   | 074744-43-7  | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

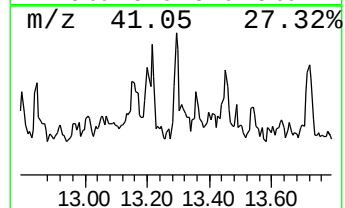
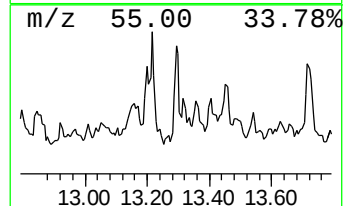
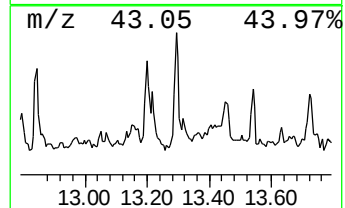
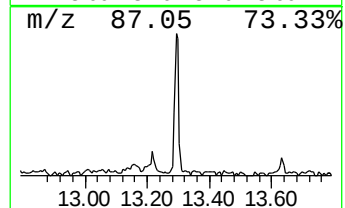
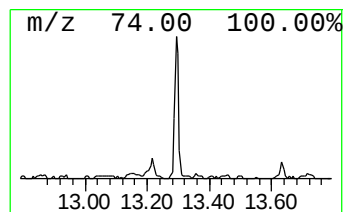
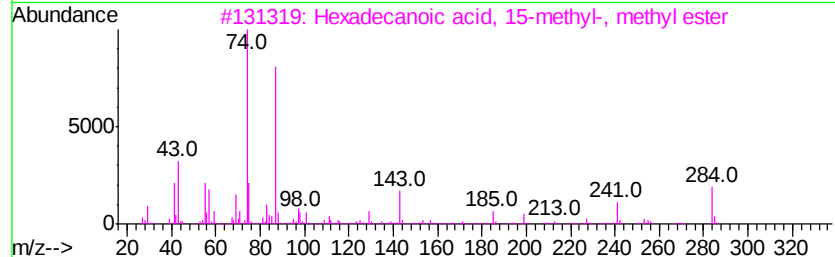
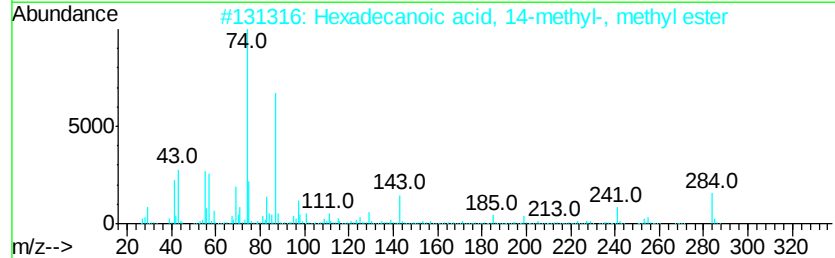
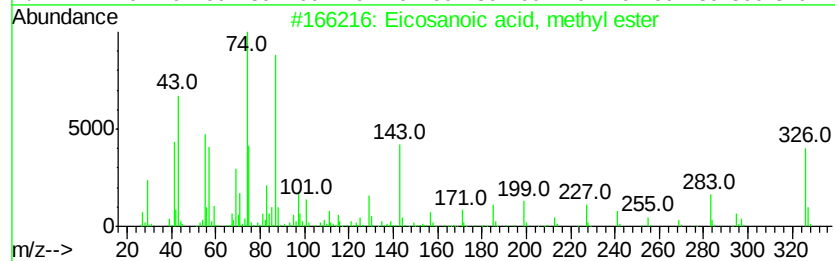
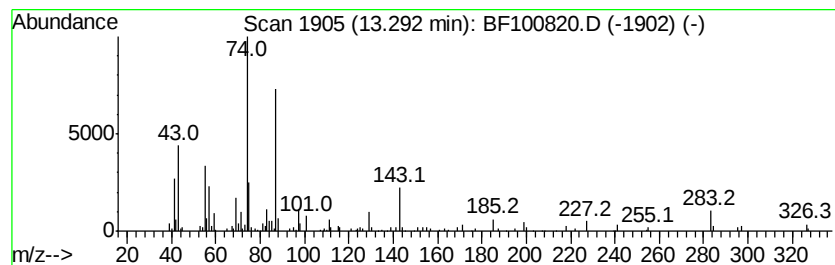
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Eicosanoic acid, methyl ester Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.29 | 5.40 ng | 133513 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Eicosanoic acid, methyl ester       | 326 | C21H42O2 | 001120-28-1  | 93   |
| 2    |    | Hexadecanoic acid, 14-methyl-, m... | 284 | C18H36O2 | 002490-49-5  | 93   |
| 3    |    | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0  | 93   |
| 4    |    | Heptadecanoic acid, methyl ester    | 284 | C18H36O2 | 001731-92-6  | 93   |
| 5    |    | Methyl 18-methylnonadecanoate       | 326 | C21H42O2 | 1000352-20-6 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

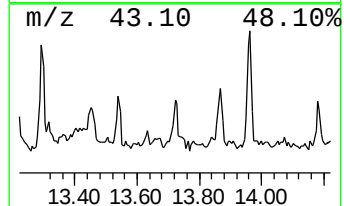
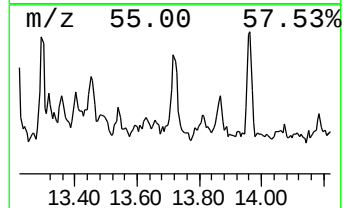
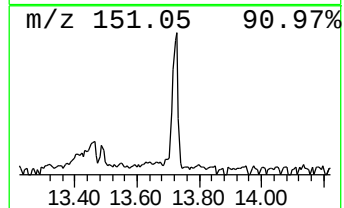
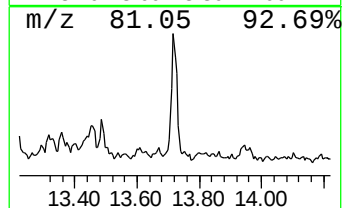
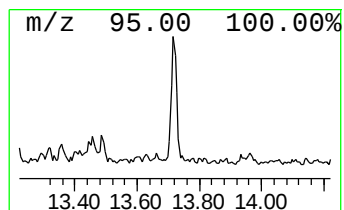
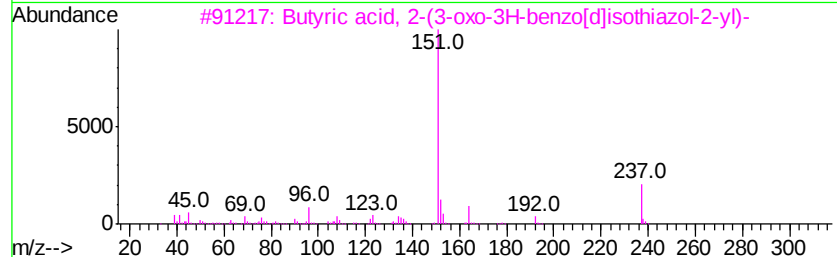
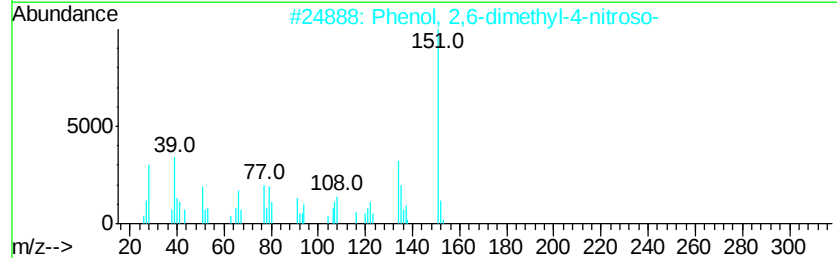
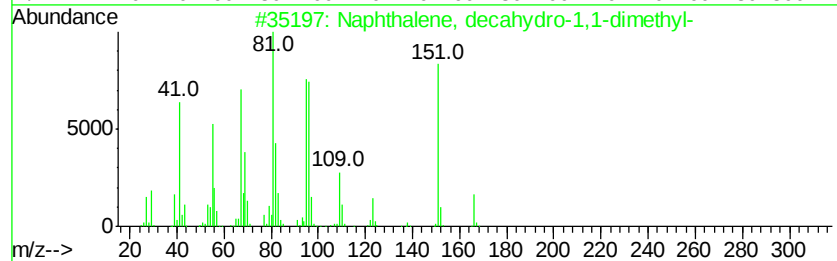
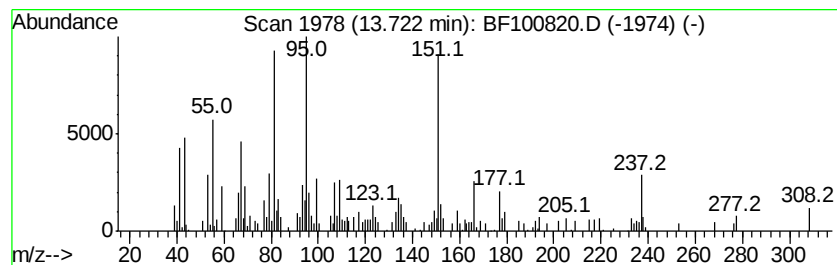
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown13.72 Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.72 | 6.36 ng | 157183 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Naphthalene, decahydro-1,1-dimet... | 166 | C12H22     | 035431-04-0  | 49   |
| 2    |    | Phenol, 2,6-dimethyl-4-nitroso-     | 151 | C8H9NO2    | 013331-93-6  | 25   |
| 3    |    | Butyric acid, 2-(3-oxo-3H-benzo[... | 237 | C11H11NO3S | 1000316-00-8 | 25   |
| 4    |    | Methyl 2-octylcyclopropene-1-oct... | 308 | C20H36O2   | 003220-60-8  | 25   |
| 5    |    | 4-Hydroxybenzoxazolone              | 151 | C7H5NO3    | 028955-70-6  | 18   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

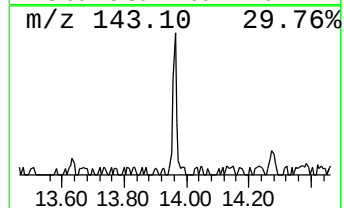
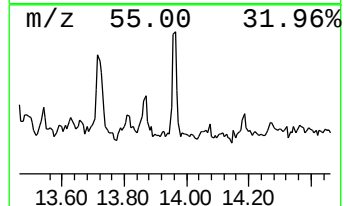
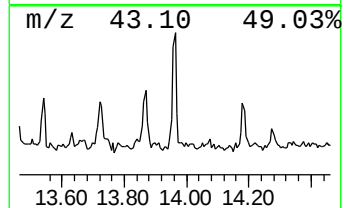
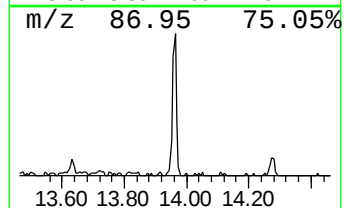
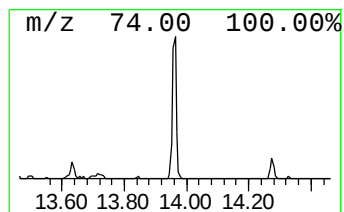
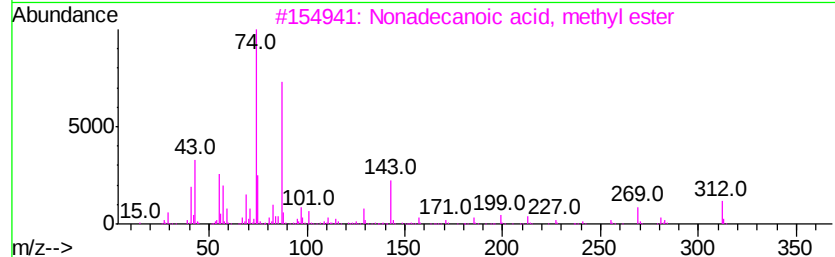
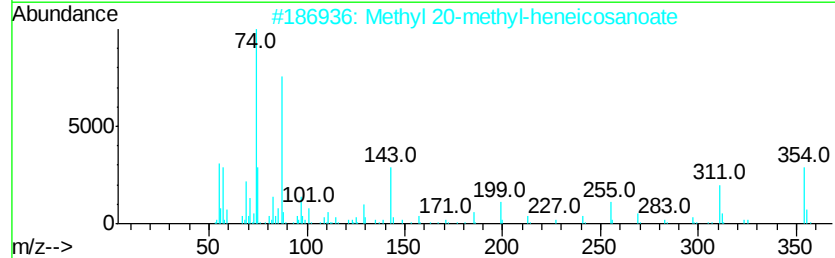
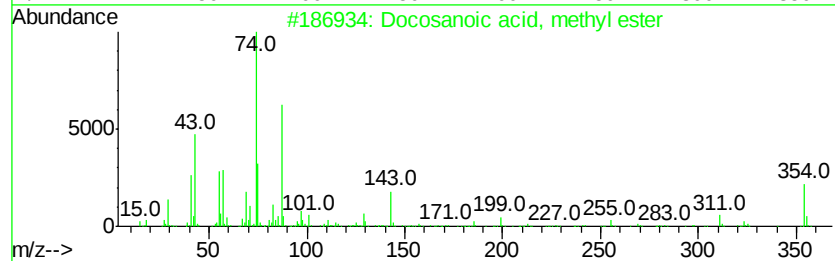
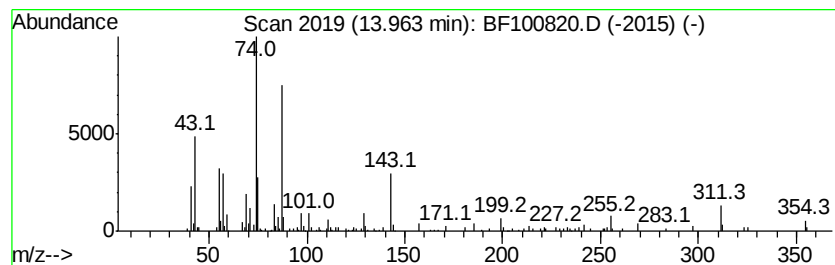
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Docosanoic acid, methyl ester Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.96 | 5.25 ng | 129771 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Docosanoic acid, methyl ester       | 354 | C23H46O2 | 000929-77-1  | 96   |
| 2    |    | Methyl 20-methyl-heneicosanoate     | 354 | C23H46O2 | 1000336-47-4 | 91   |
| 3    |    | Nonadecanoic acid, methyl ester     | 312 | C20H40O2 | 001731-94-8  | 90   |
| 4    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1  | 83   |
| 5    |    | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3  | 83   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
Data File : BF100820.D  
Acq On : 22 Nov 2017 12:24  
Operator : SJ/JU  
Sample : I6310-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

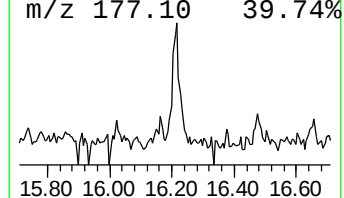
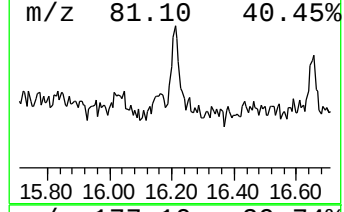
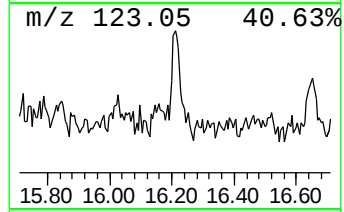
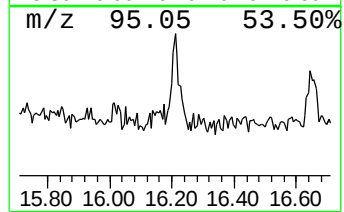
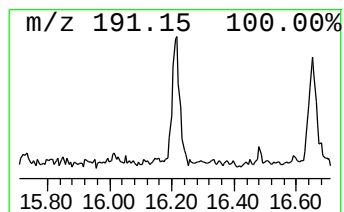
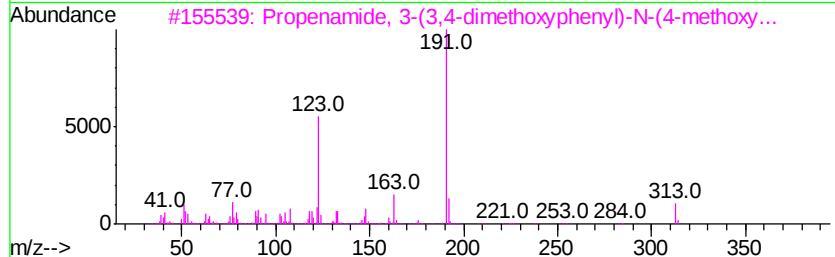
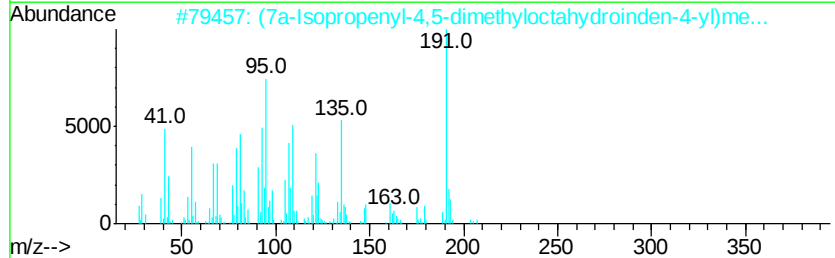
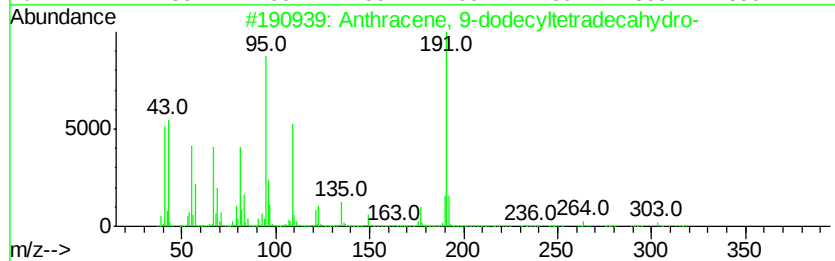
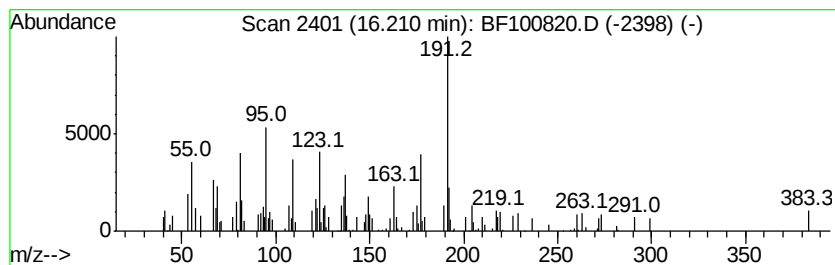
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 unknown16.21 Concentration Rank 19

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.21 | 3.59 ng | 98550 | Perylene-d12     | 15.51 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Anthracene, 9-dodecyltetradecahy... | 360 | C26H48       | 055401-75-7  | 38   |
| 2    |    | (7a-Isopropenyl-4,5-dimethylocta... | 222 | C15H26O      | 1000187-02-9 | 37   |
| 3    |    | Propenamide, 3-(3,4-dimethoxyph...  | 313 | C18H19NO4    | 339165-72-9  | 35   |
| 4    |    | 5-(p-Aminophenyl)-2-thiazolamine    | 191 | C9H9N3S      | 090349-87-4  | 25   |
| 5    |    | 2-(2-((2-Chloro-6-fluorobenzyl)s... | 334 | C17H16ClFN2S | 1000298-18-2 | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112217\  
 Data File : BF100820.D  
 Acq On : 22 Nov 2017 12:24  
 Operator : SJ/JU  
 Sample : I6310-05 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AU-05-112017-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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 |
| unknown6.63          | 6.63  | 8.4     | ng    | 198167   | 1                     | 6.87  | 471533 | 20.0 |
| Pentadecane          | 9.83  | 3.8     | ng    | 120920   | 3                     | 9.91  | 635875 | 20.0 |
| Hexadecane           | 10.33 | 3.8     | ng    | 120886   | 3                     | 9.91  | 635875 | 20.0 |
| Heneicosane          | 10.80 | 7.0     | ng    | 182791   | 4                     | 11.39 | 520142 | 20.0 |
| Heptacosane          | 11.25 | 3.8     | ng    | 99007    | 4                     | 11.39 | 520142 | 20.0 |
| Hexadecanoic acid... | 11.78 | 94.9    | ng    | 2467590  | 4                     | 11.39 | 520142 | 20.0 |
| n-Hexadecanoic acid  | 11.92 | 7.3     | ng    | 188737   | 4                     | 11.39 | 520142 | 20.0 |
| 9,12-Octadecadien... | 12.48 | 271.8   | ng    | 7068690  | 4                     | 11.39 | 520142 | 20.0 |
| 9-Octadecenoic ac... | 12.50 | 152.2   | ng    | 3958980  | 4                     | 11.39 | 520142 | 20.0 |
| Methyl stearate      | 12.57 | 49.6    | ng    | 1290740  | 4                     | 11.39 | 520142 | 20.0 |
| 9,12-Octadecadien... | 12.61 | 14.5    | ng    | 378244   | 4                     | 11.39 | 520142 | 20.0 |
| Oleic Acid           | 12.63 | 15.6    | ng    | 404756   | 4                     | 11.39 | 520142 | 20.0 |
| Methyl 9.cis.,11.... | 13.16 | 5.2     | ng    | 127665   | 5                     | 14.03 | 494534 | 20.0 |
| Eicosanoic acid, ... | 13.29 | 5.4     | ng    | 133513   | 5                     | 14.03 | 494534 | 20.0 |
| unknown13.72         | 13.72 | 6.4     | ng    | 157183   | 5                     | 14.03 | 494534 | 20.0 |
| Docosanoic acid, ... | 13.96 | 5.3     | ng    | 129771   | 5                     | 14.03 | 494534 | 20.0 |
| unknown16.21         | 16.21 | 3.6     | ng    | 98550    | 6                     | 15.51 | 549695 | 20.0 |