

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
 Data File : BF120392.D  
 Acq On : 21 May 2020 20:22  
 Operator : MA/SJ  
 Sample : L2728-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239990

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-BF051420.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         | 5.192       | 525           | 528         | 555          | rBV      | 3052144        | 3568118       | 83.45%          | 7.875%        |
| 2         | 5.857       | 638           | 641         | 651          | rBV2     | 34452          | 107856        | 2.52%           | 0.238%        |
| 3         | 6.245       | 703           | 707         | 733          | rBV      | 2692143        | 3721270       | 87.03%          | 8.213%        |
| 4         | 6.586       | 762           | 765         | 784          | rBV      | 977193         | 1180818       | 27.62%          | 2.606%        |
| 5         | 6.739       | 787           | 791         | 810          | rBV      | 2628575        | 2856387       | 66.80%          | 6.304%        |
| 6         | 7.157       | 858           | 862         | 886          | rBV      | 2036170        | 2372177       | 55.48%          | 5.236%        |
| 7         | 7.875       | 980           | 984         | 1010         | rBV      | 1270402        | 1636751       | 38.28%          | 3.612%        |
| 8         | 8.951       | 1162          | 1167        | 1181         | rBV      | 4222754        | 4275777       | 100.00%         | 9.437%        |
| 9         | 9.351       | 1231          | 1235        | 1242         | rBV      | 383742         | 349256        | 8.17%           | 0.771%        |
| 10        | 9.621       | 1276          | 1281        | 1298         | rBV      | 1737980        | 1796882       | 42.02%          | 3.966%        |
| 11        | 10.416      | 1412          | 1416        | 1432         | rBV      | 2289208        | 2571943       | 60.15%          | 5.676%        |
| 12        | 10.539      | 1434          | 1437        | 1444         | rVB2     | 39670          | 60997         | 1.43%           | 0.135%        |
| 13        | 11.110      | 1530          | 1534        | 1536         | rBV      | 1775944        | 1858514       | 43.47%          | 4.102%        |
| 14        | 11.127      | 1536          | 1537        | 1543         | rVV      | 630101         | 704165        | 16.47%          | 1.554%        |
| 15        | 11.186      | 1543          | 1547        | 1551         | rVB      | 98399          | 136269        | 3.19%           | 0.301%        |
| 16        | 11.351      | 1570          | 1575        | 1582         | rBV2     | 50066          | 93271         | 2.18%           | 0.206%        |
| 17        | 11.610      | 1615          | 1619        | 1621         | rBV      | 132749         | 118721        | 2.78%           | 0.262%        |
| 18        | 11.651      | 1621          | 1626        | 1629         | rBV2     | 260208         | 345091        | 8.07%           | 0.762%        |
| 19        | 11.721      | 1634          | 1638        | 1640         | rVV      | 168689         | 215618        | 5.04%           | 0.476%        |
| 20        | 11.745      | 1640          | 1642        | 1648         | rVB      | 100146         | 101646        | 2.38%           | 0.224%        |
| 21        | 11.904      | 1667          | 1669        | 1673         | rBV      | 71197          | 80878         | 1.89%           | 0.179%        |
| 22        | 11.939      | 1673          | 1675        | 1679         | rVB      | 69722          | 64124         | 1.50%           | 0.142%        |
| 23        | 12.057      | 1689          | 1695        | 1696         | rBV2     | 42844          | 51429         | 1.20%           | 0.114%        |
| 24        | 12.157      | 1709          | 1712        | 1715         | rBV      | 120695         | 124419        | 2.91%           | 0.275%        |
| 25        | 12.198      | 1715          | 1719        | 1720         | rVV2     | 65610          | 86093         | 2.01%           | 0.190%        |
| 26        | 12.245      | 1724          | 1727        | 1730         | rBV2     | 86272          | 104569        | 2.45%           | 0.231%        |
| 27        | 12.315      | 1736          | 1739        | 1745         | rBV      | 881207         | 859190        | 20.09%          | 1.896%        |
| 28        | 12.386      | 1749          | 1751        | 1754         | rVB2     | 52105          | 47812         | 1.12%           | 0.106%        |
| 29        | 12.439      | 1757          | 1760        | 1763         | rVV3     | 116424         | 140806        | 3.29%           | 0.311%        |
| 30        | 12.463      | 1763          | 1764        | 1769         | rVV3     | 73219          | 88189         | 2.06%           | 0.195%        |
| 31        | 12.545      | 1772          | 1778        | 1782         | rVV      | 837050         | 951669        | 22.26%          | 2.100%        |
| 32        | 12.604      | 1785          | 1788        | 1792         | rVB2     | 75641          | 91546         | 2.14%           | 0.202%        |
| 33        | 12.692      | 1799          | 1803        | 1812         | rVB      | 3739302        | 4088113       | 95.61%          | 9.023%        |
| 34        | 12.768      | 1812          | 1816        | 1821         | rVB3     | 71488          | 105135        | 2.46%           | 0.232%        |

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 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239990

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-BF051420.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.851 | 1827 | 1830 | 1832 | rBV2 | 67304   | 84840   | 1.98%  | 0.187% |
| 36 | 12.874 | 1832 | 1834 | 1838 | rVB  | 112695  | 108272  | 2.53%  | 0.239% |
| 37 | 12.933 | 1841 | 1844 | 1848 | rVV2 | 75342   | 94221   | 2.20%  | 0.208% |
| 38 | 12.980 | 1848 | 1852 | 1860 | rVB2 | 128813  | 167013  | 3.91%  | 0.369% |
| 39 | 13.068 | 1864 | 1867 | 1870 | rBV  | 81065   | 75918   | 1.78%  | 0.168% |
| 40 | 13.104 | 1870 | 1873 | 1877 | rBV  | 76510   | 71915   | 1.68%  | 0.159% |
| 41 | 13.274 | 1897 | 1902 | 1904 | rBV3 | 70155   | 77533   | 1.81%  | 0.171% |
| 42 | 13.386 | 1918 | 1921 | 1926 | rVB  | 86000   | 93532   | 2.19%  | 0.206% |
| 43 | 13.498 | 1934 | 1940 | 1942 | rBV2 | 92942   | 144275  | 3.37%  | 0.318% |
| 44 | 13.515 | 1942 | 1943 | 1946 | rVB  | 64810   | 58105   | 1.36%  | 0.128% |
| 45 | 13.604 | 1954 | 1958 | 1970 | rBV5 | 301628  | 587662  | 13.74% | 1.297% |
| 46 | 13.745 | 1974 | 1982 | 1985 | rBV2 | 1414722 | 1967783 | 46.02% | 4.343% |
| 47 | 13.768 | 1985 | 1986 | 1994 | rVB  | 378751  | 321182  | 7.51%  | 0.709% |
| 48 | 13.845 | 1995 | 1999 | 2002 | rBV3 | 46226   | 52526   | 1.23%  | 0.116% |
| 49 | 13.921 | 2008 | 2012 | 2015 | rBV  | 137799  | 133061  | 3.11%  | 0.294% |
| 50 | 14.133 | 2046 | 2048 | 2051 | rVB2 | 81076   | 65600   | 1.53%  | 0.145% |
| 51 | 14.227 | 2060 | 2064 | 2066 | rBV  | 230854  | 224533  | 5.25%  | 0.496% |
| 52 | 14.257 | 2066 | 2069 | 2076 | rVB4 | 135863  | 238063  | 5.57%  | 0.525% |
| 53 | 14.515 | 2110 | 2113 | 2120 | rBV  | 203776  | 240965  | 5.64%  | 0.532% |
| 54 | 14.580 | 2121 | 2124 | 2126 | rBV3 | 37088   | 43911   | 1.03%  | 0.097% |
| 55 | 14.645 | 2132 | 2135 | 2140 | rBV2 | 87888   | 92418   | 2.16%  | 0.204% |
| 56 | 14.704 | 2142 | 2145 | 2148 | rVB  | 46765   | 46024   | 1.08%  | 0.102% |
| 57 | 14.751 | 2149 | 2153 | 2161 | rBV  | 359047  | 653551  | 15.28% | 1.442% |
| 58 | 14.821 | 2161 | 2165 | 2168 | rBV  | 307757  | 318943  | 7.46%  | 0.704% |
| 59 | 14.868 | 2168 | 2173 | 2181 | rVB6 | 100208  | 263294  | 6.16%  | 0.581% |
| 60 | 15.015 | 2195 | 2198 | 2204 | rVB  | 195220  | 244885  | 5.73%  | 0.540% |
| 61 | 15.074 | 2204 | 2208 | 2213 | rBV  | 231196  | 281618  | 6.59%  | 0.622% |
| 62 | 15.133 | 2213 | 2218 | 2221 | rBV  | 815130  | 1141774 | 26.70% | 2.520% |
| 63 | 15.333 | 2248 | 2252 | 2257 | rVB4 | 83757   | 124571  | 2.91%  | 0.275% |
| 64 | 15.539 | 2282 | 2287 | 2294 | rBV  | 258032  | 367299  | 8.59%  | 0.811% |
| 65 | 15.633 | 2296 | 2303 | 2309 | rBV8 | 77189   | 193254  | 4.52%  | 0.427% |
| 66 | 15.974 | 2357 | 2361 | 2366 | rBV  | 64330   | 115561  | 2.70%  | 0.255% |
| 67 | 16.227 | 2400 | 2404 | 2412 | rBV4 | 91051   | 171836  | 4.02%  | 0.379% |
| 68 | 16.445 | 2434 | 2441 | 2445 | rBV2 | 154303  | 334478  | 7.82%  | 0.738% |
| 69 | 16.492 | 2446 | 2449 | 2457 | rVB3 | 99042   | 179114  | 4.19%  | 0.395% |
| 70 | 16.609 | 2459 | 2469 | 2470 | rBV4 | 76585   | 186416  | 4.36%  | 0.411% |
| 71 | 16.833 | 2502 | 2507 | 2517 | rVB2 | 94305   | 234432  | 5.48%  | 0.517% |

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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF051420.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 72 | 16.945 | 2522 | 2526 | 2539 | rVB2 | 59211 | 208016 | 4.86% | 0.459% |
| 73 | 17.462 | 2611 | 2614 | 2620 | rVB3 | 59299 | 108773 | 2.54% | 0.240% |
| 74 | 17.803 | 2665 | 2672 | 2679 | rBV6 | 57336 | 145837 | 3.41% | 0.322% |
| 75 | 18.844 | 2843 | 2849 | 2859 | rVB6 | 27696 | 90507  | 2.12% | 0.200% |

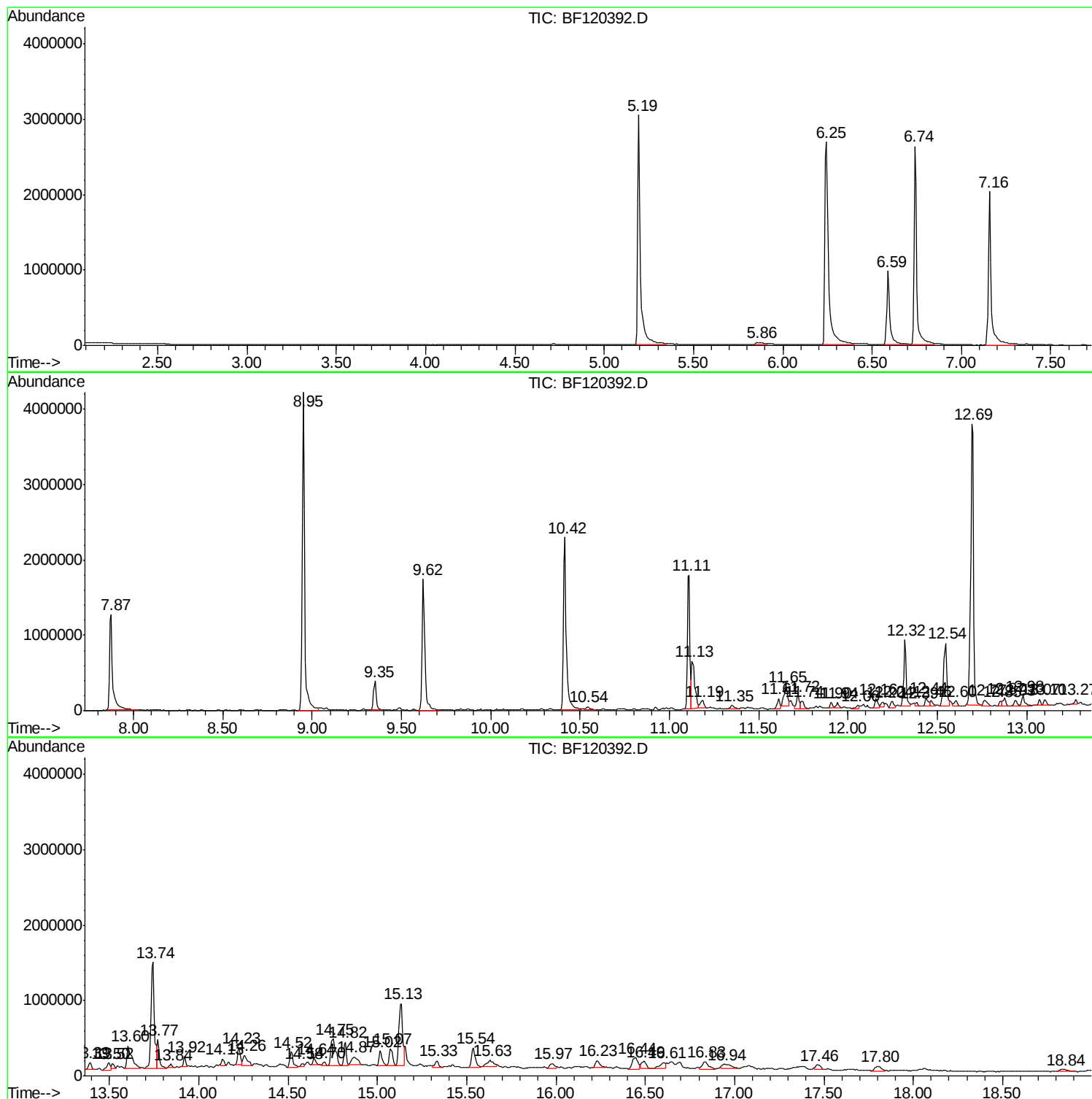
Sum of corrected areas: 45309010

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.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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Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

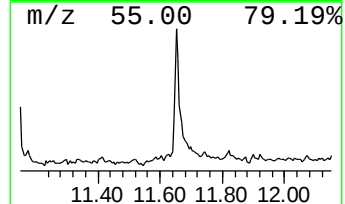
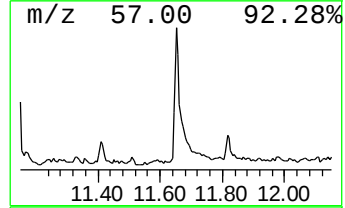
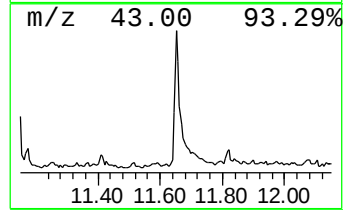
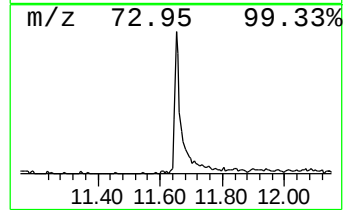
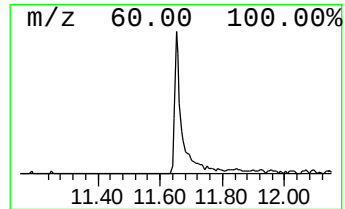
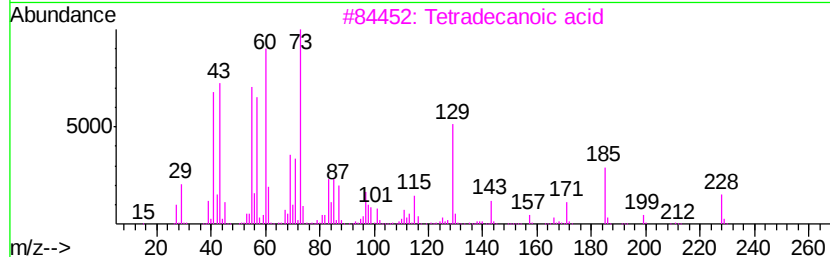
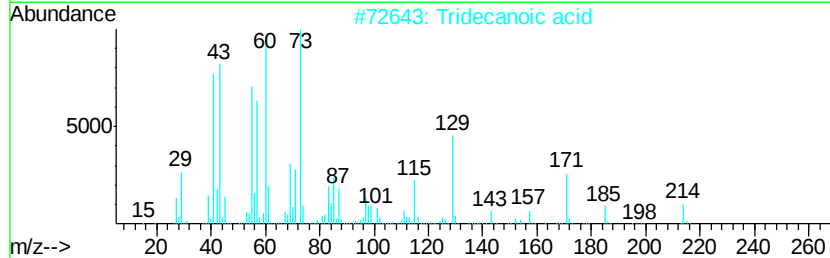
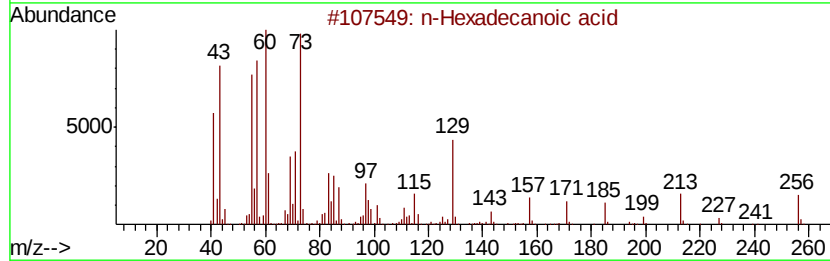
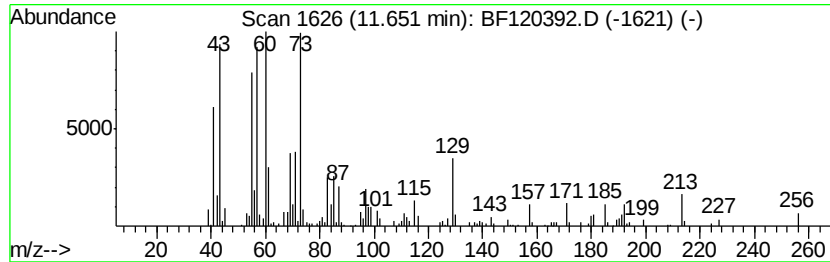
Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.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 n-Hexadecanoic acid Concentration Rank 8

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.65     | 3.71 ng             | 345091 | Phenanthrene-d10 | 11.11       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 94   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 87   |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 83   |
| 4         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 81   |
| 5         | Undecanoic acid     | 186    | C11H22O2         | 000112-37-8 | 68   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

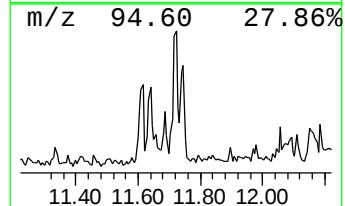
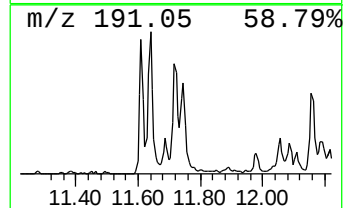
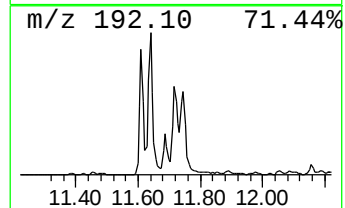
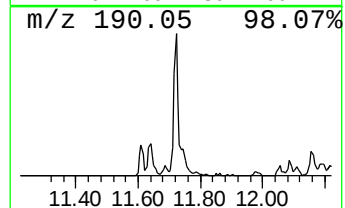
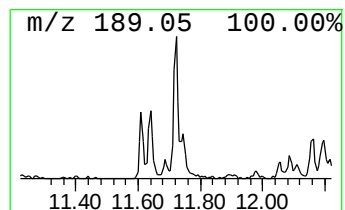
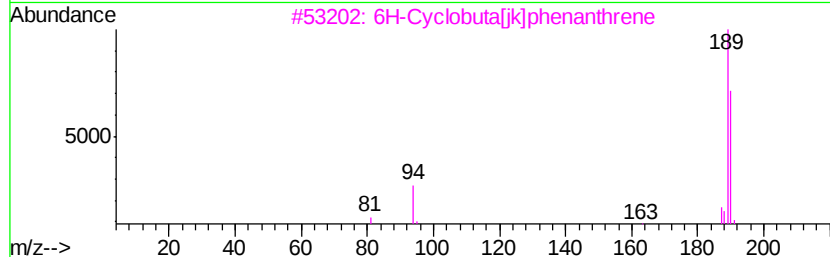
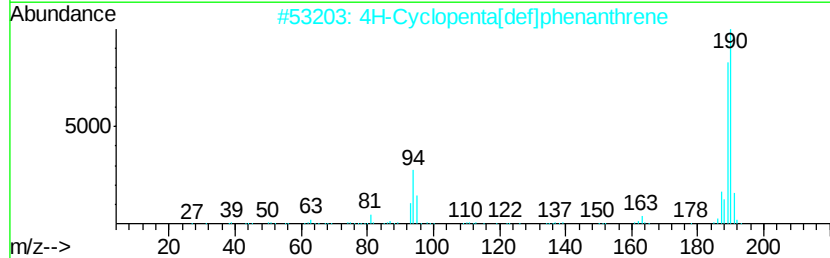
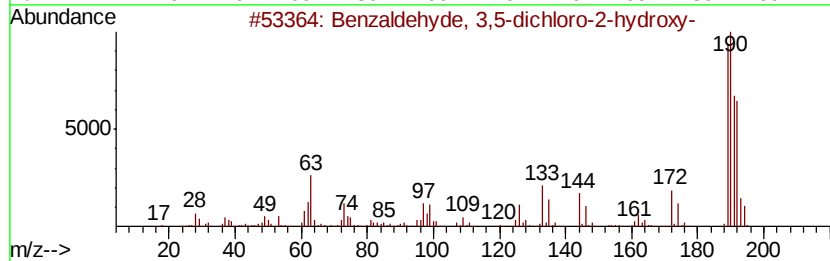
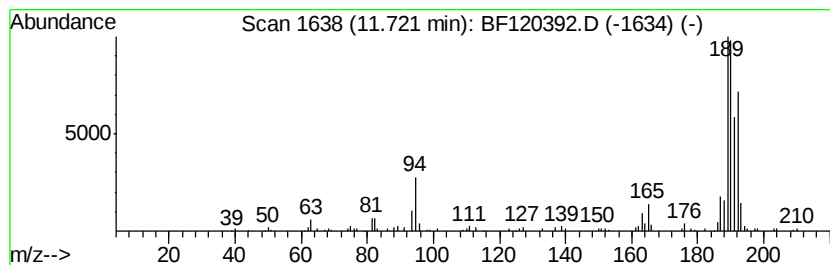
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Benzaldehyde, 3,5-dichloro-... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.72 | 2.32 ng | 215618 | Phenanthrene-d10 | 11.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72   |
| 2    |    | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 70   |
| 3    |    | 6H-Cyclobuta[f]phenanthrene         | 190 | C15H10    | 083469-43-6 | 52   |
| 4    |    | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12    | 027410-55-5 | 38   |
| 5    |    | Phenanthrene, 1-methyl-             | 192 | C15H12    | 000832-69-9 | 30   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

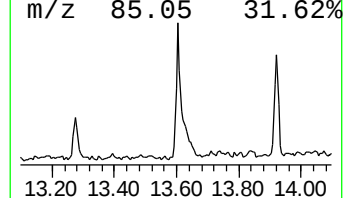
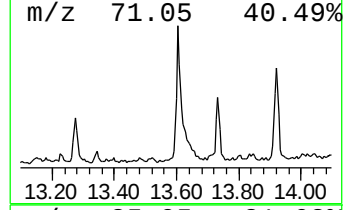
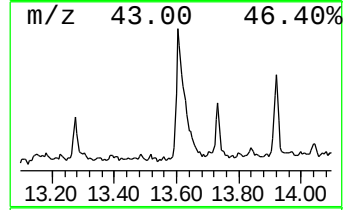
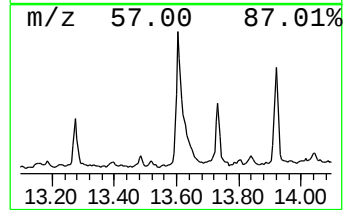
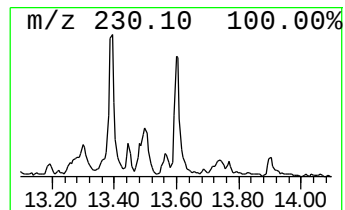
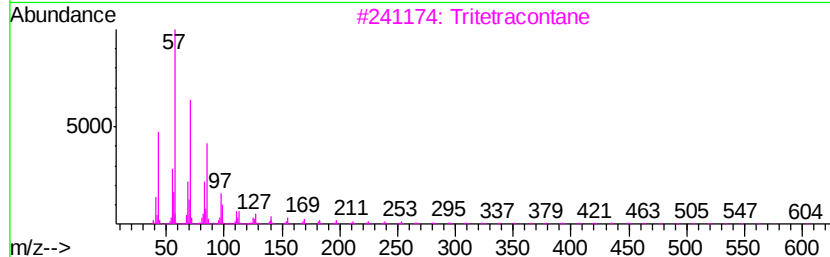
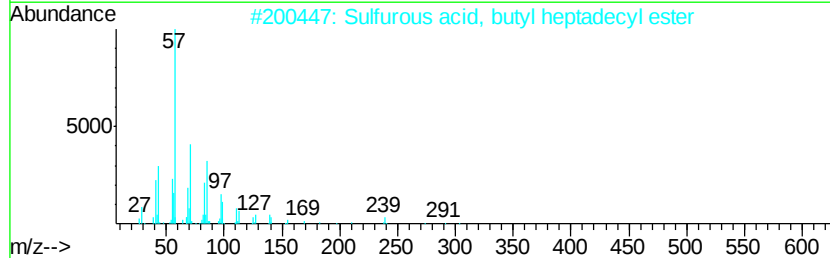
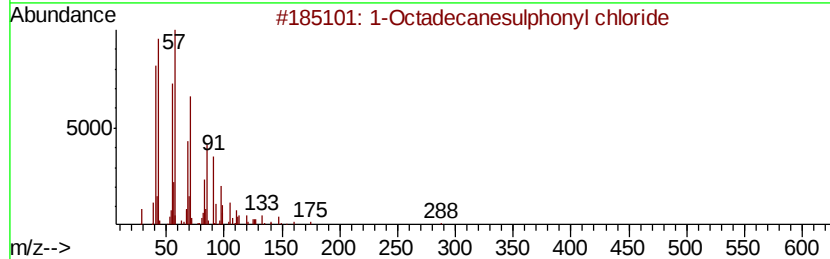
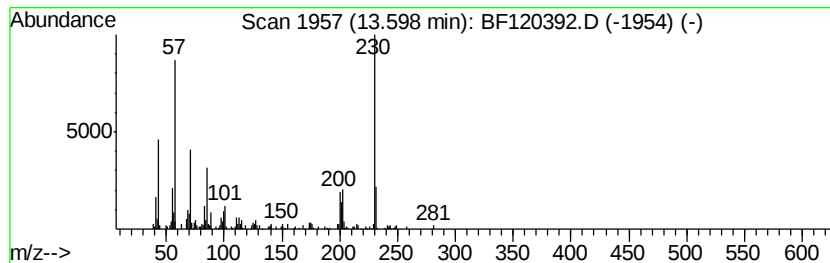
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 1-Octadecanesulphonyl chloride Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.60 | 5.97 ng | 587662 | Chrysene-d12     | 13.74 |

| Hit# | of | Tentative ID                         | MW  | MolForm     | CAS#         | Qual |
|------|----|--------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 1-Octadecanesulphonyl chloride       | 352 | C18H37ClO2S | 1000342-70-4 | 60   |
| 2    |    | Sulfurous acid, butyl heptadecyl...  | 376 | C21H44O3S   | 1000309-18-4 | 60   |
| 3    |    | Tritetracontane                      | 605 | C43H88      | 007098-21-7  | 60   |
| 4    |    | Octadecane, 1-chloro-                | 288 | C18H37Cl    | 003386-33-2  | 53   |
| 5    |    | Sulfurous acid, 2-propyl tetradec... | 320 | C17H36O3S   | 1000309-12-5 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

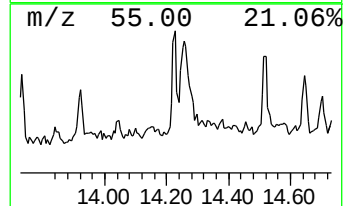
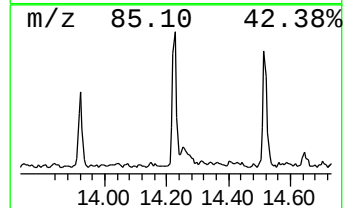
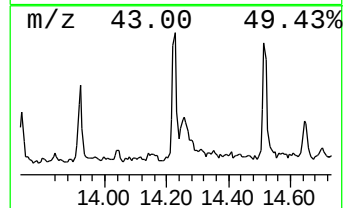
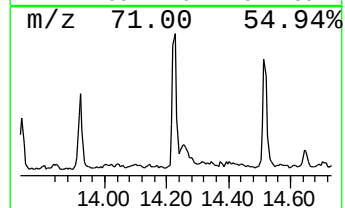
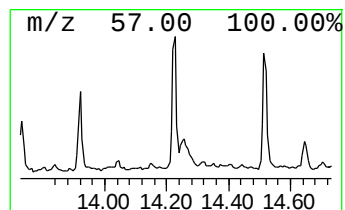
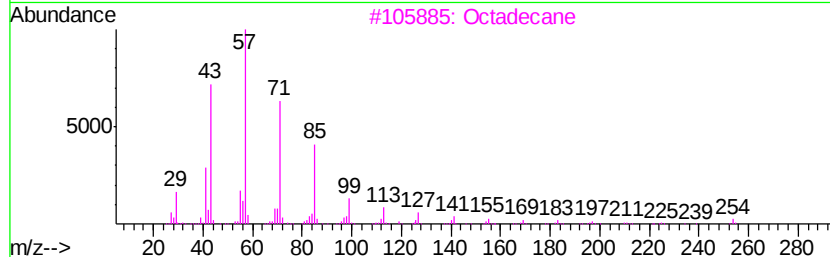
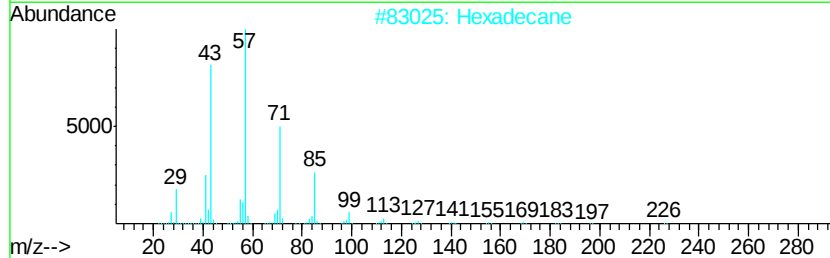
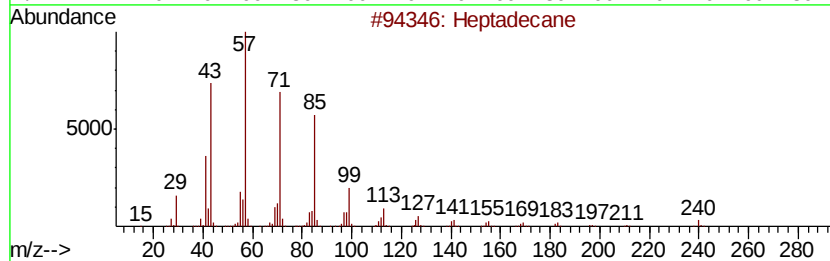
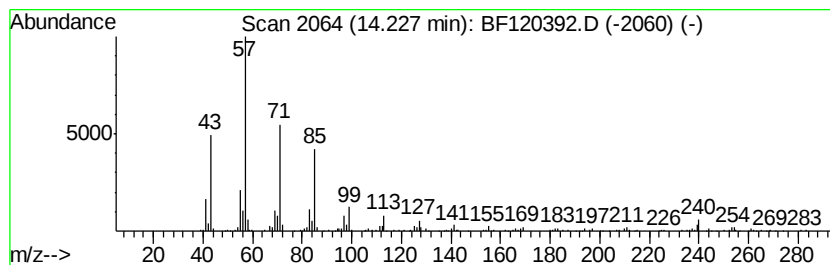
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptadecane Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.23 | 2.28 ng | 224533 | Chrysene-d12     | 13.74 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 95   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 95   |
| 3       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 95   |
| 4       | Octacosane  |              | 394 | C28H58  | 000630-02-4 | 83   |
| 5       | Hexacosane  |              | 366 | C26H54  | 000630-01-3 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
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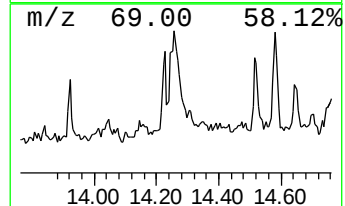
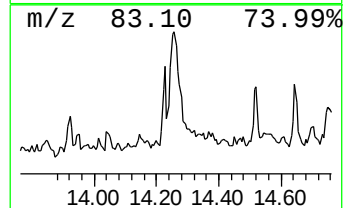
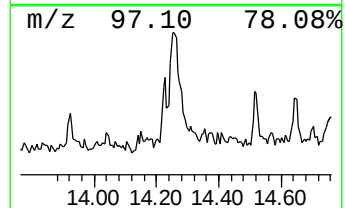
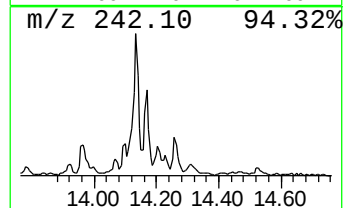
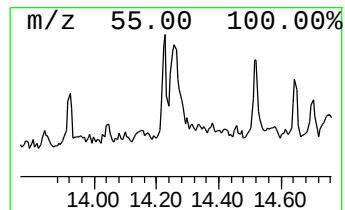
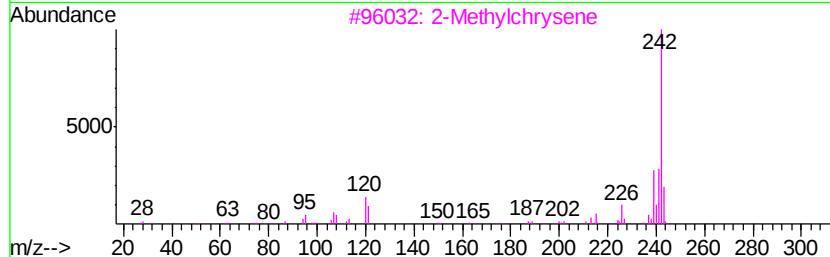
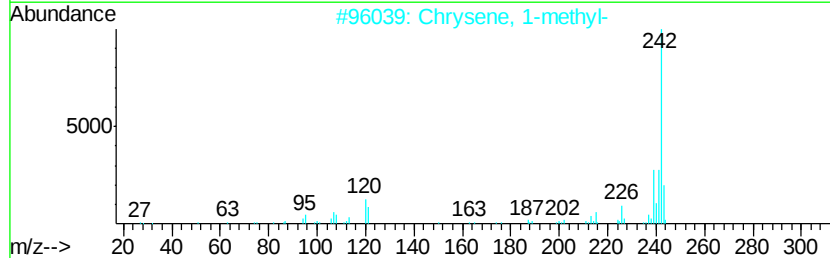
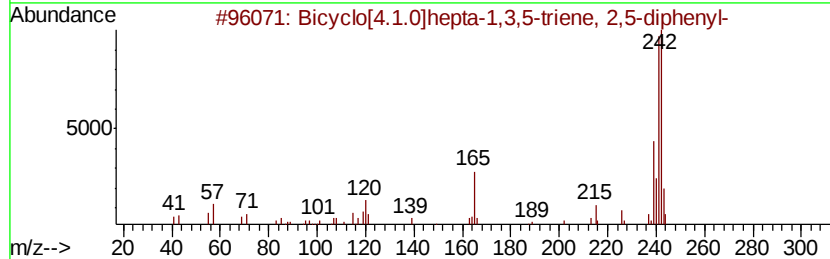
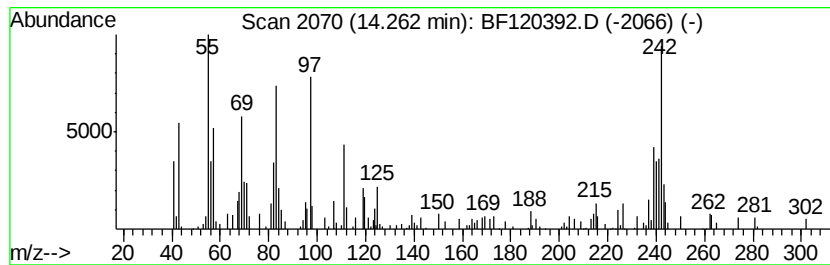
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown14.26 Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.26 | 2.42 ng | 238063 | Chrysene-d12     | 13.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.1.0]hepta-1,3,5-triene... | 242 | C19H14  | 052750-12-6 | 47   |
| 2    |    | Chrysene, 1-methyl-                 | 242 | C19H14  | 003351-28-8 | 38   |
| 3    |    | 2-Methylchrysene                    | 242 | C19H14  | 003351-32-4 | 38   |
| 4    |    | Chrysene, 5-methyl-                 | 242 | C19H14  | 003697-24-3 | 38   |
| 5    |    | 5-Benzyl-acenaphthylene             | 242 | C19H14  | 004624-38-8 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
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Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

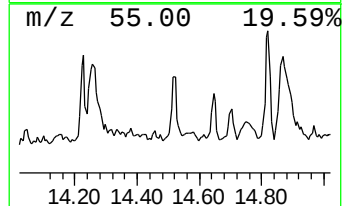
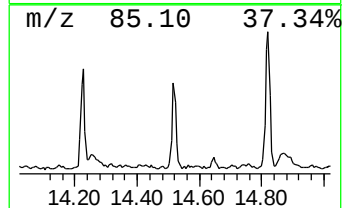
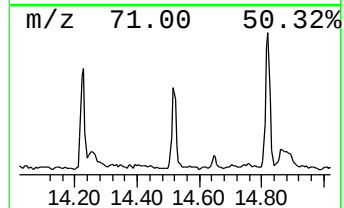
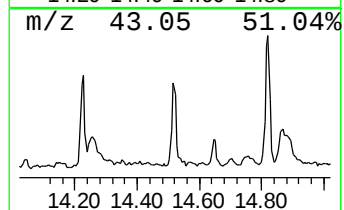
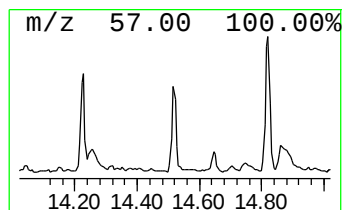
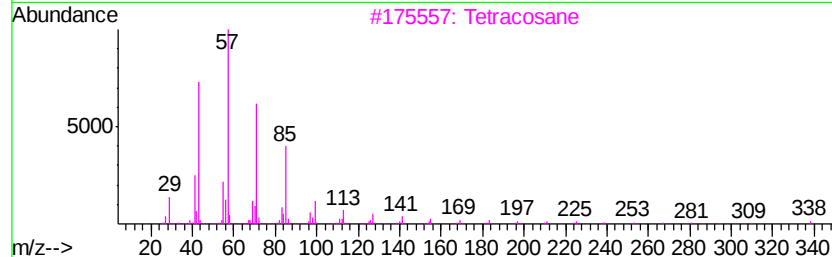
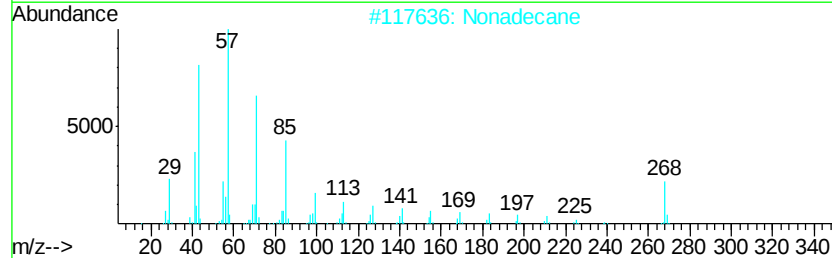
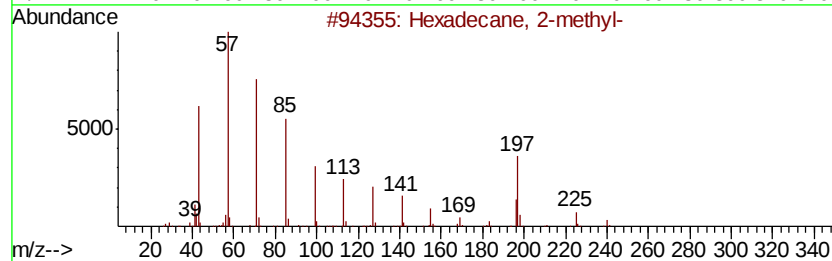
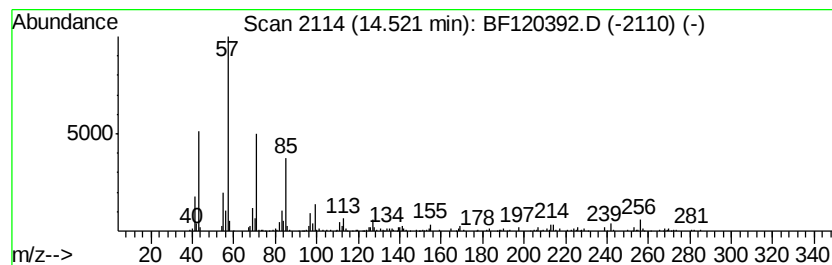
Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.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 Hexadecane, 2-methyl- Concentration Rank 7

| R.T.      | EstConc               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|--------|------------------|-------------|------|
| 14.52     | 4.22 ng               | 240965 | Perylene-d12     | 15.13       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecane, 2-methyl- | 240    | C17H36           | 001560-92-5 | 90   |
| 2         | Nonadecane            | 268    | C19H40           | 000629-92-5 | 87   |
| 3         | Tetracosane           | 338    | C24H50           | 000646-31-1 | 87   |
| 4         | Tridecane, 1-iodo-    | 310    | C13H27I          | 035599-77-0 | 87   |
| 5         | Octacosane            | 394    | C28H58           | 000630-02-4 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

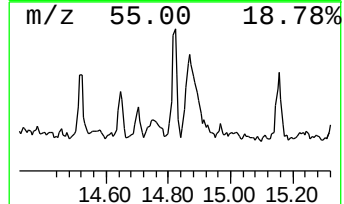
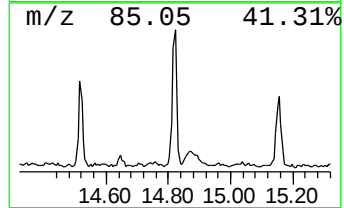
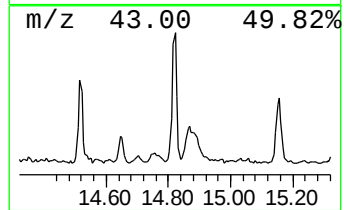
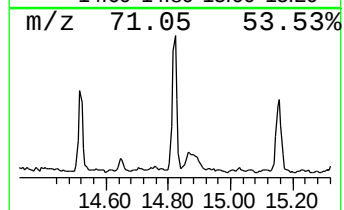
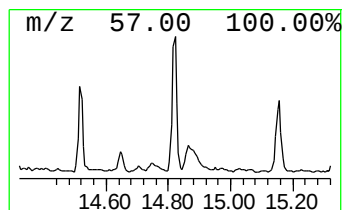
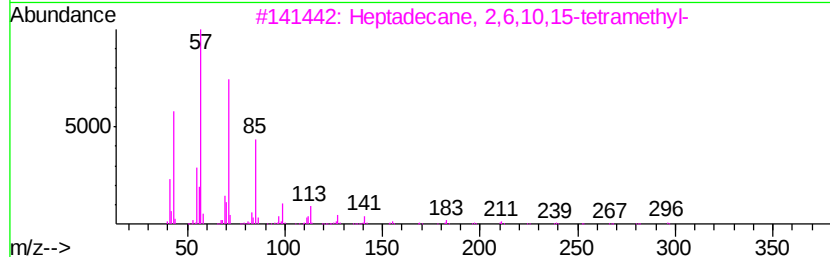
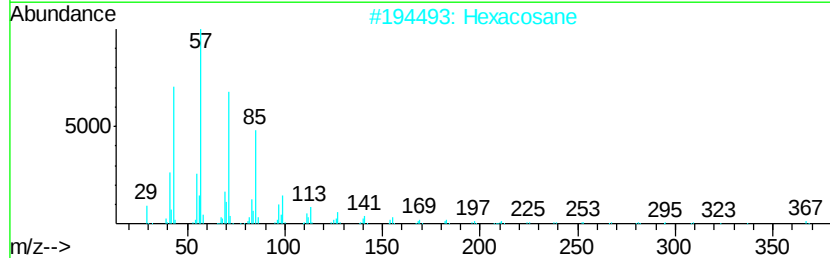
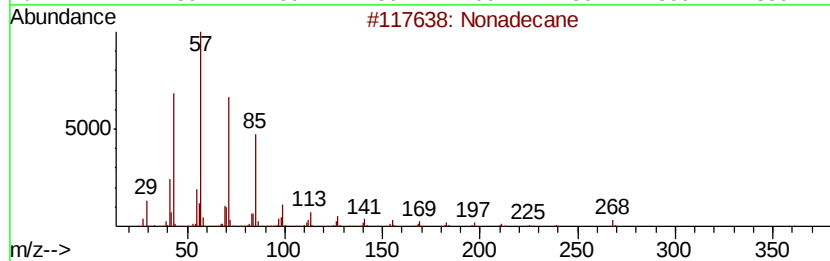
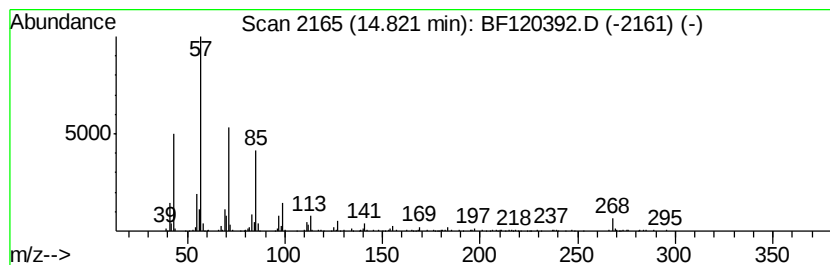
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Nonadecane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.82 | 5.59 ng | 318943 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane                          | 268 | C19H40  | 000629-92-5 | 91   |
| 2    |    | Hexacosane                          | 366 | C26H54  | 000630-01-3 | 91   |
| 3    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 91   |
| 4    |    | Pentacosane                         | 352 | C25H52  | 000629-99-2 | 90   |
| 5    |    | Octacosane                          | 394 | C28H58  | 000630-02-4 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

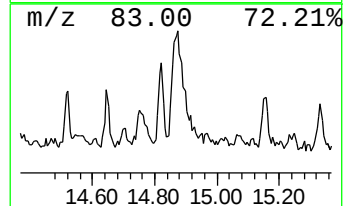
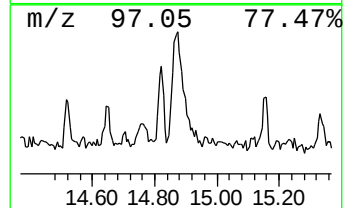
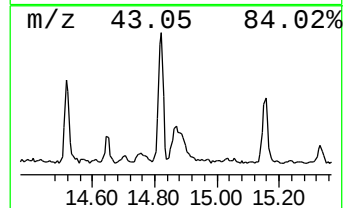
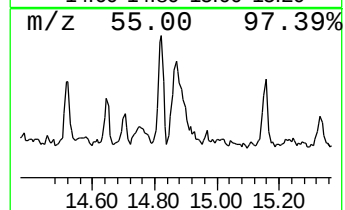
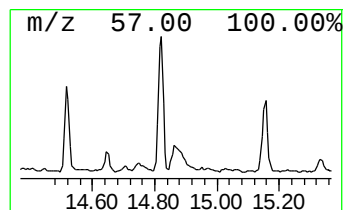
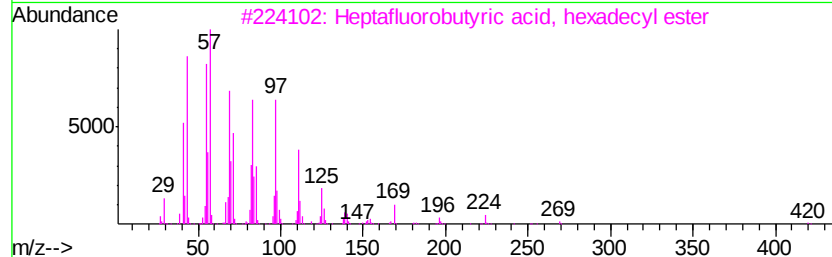
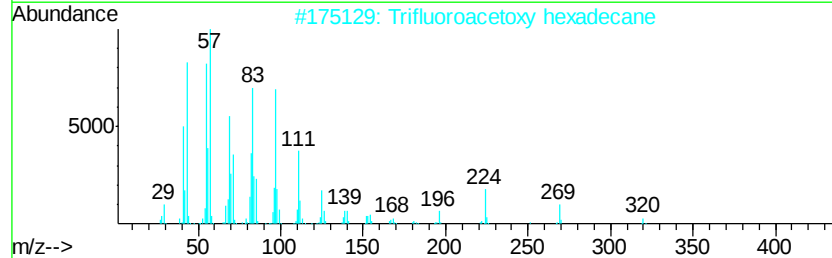
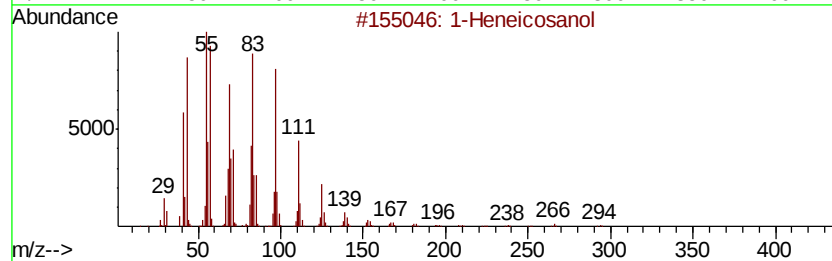
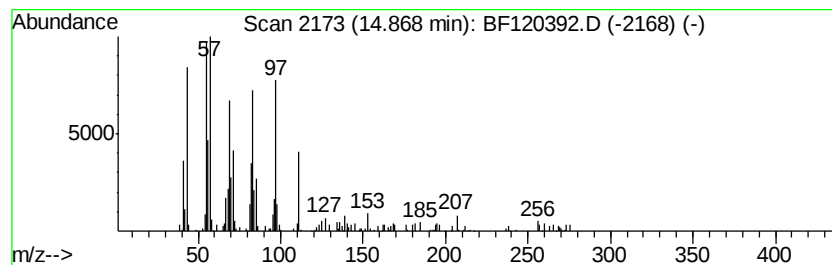
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 1-Heneicosanol Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.87 | 4.61 ng | 263294 | Perylene-d12     | 15.13 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | 1-Heneicosanol                      | 312 | C21H44O    | 015594-90-8 | 94   |
| 2       |   | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2 | 006222-03-3 | 91   |
| 3       |   | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 91   |
| 4       |   | Behenic alcohol                     | 326 | C22H46O    | 000661-19-8 | 87   |
| 5       |   | Octacosanol                         | 410 | C28H58O    | 000557-61-9 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

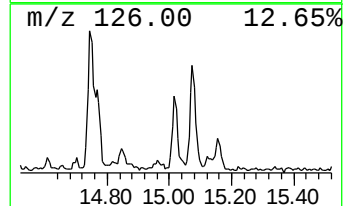
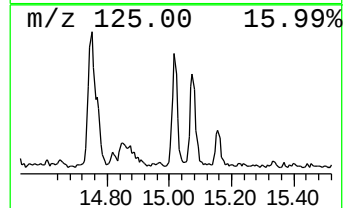
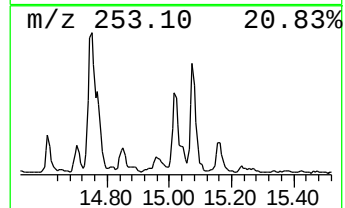
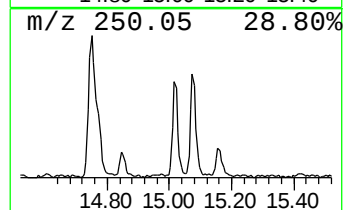
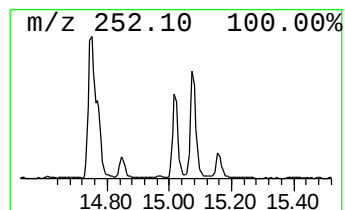
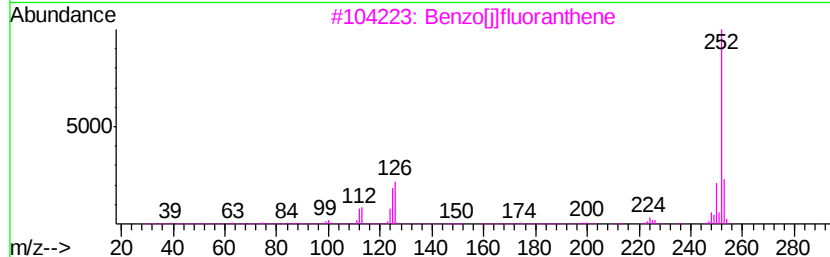
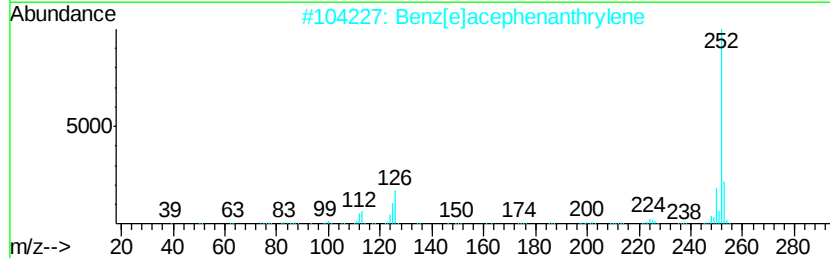
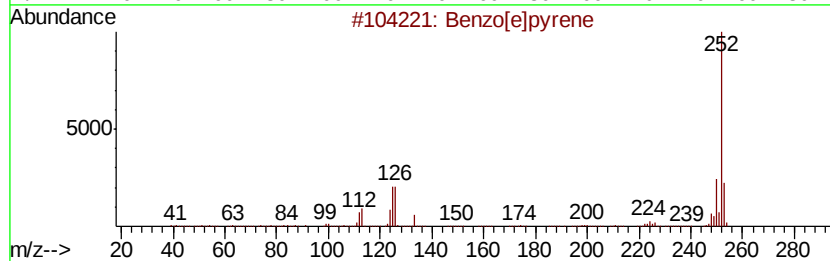
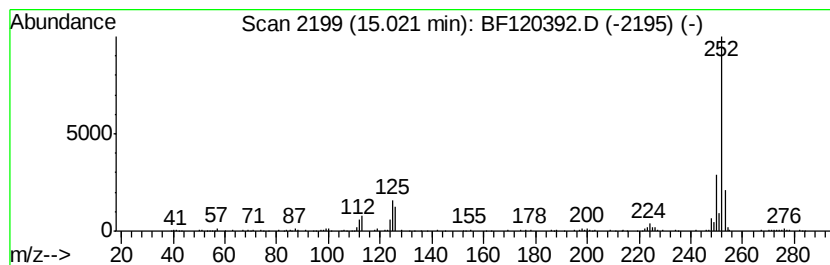
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzo[e]pyrene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.02 | 4.29 ng | 244885 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 98   |
| 3    |    | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 96   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 95   |
| 5    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
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Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

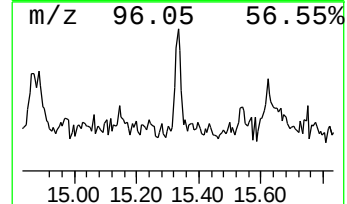
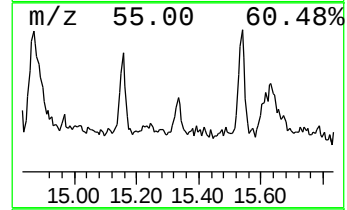
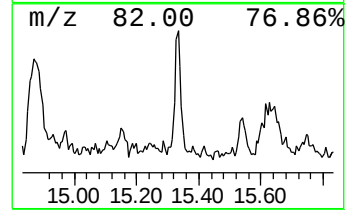
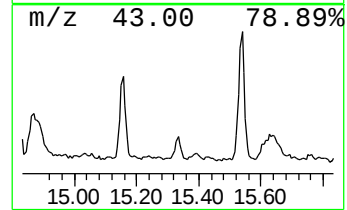
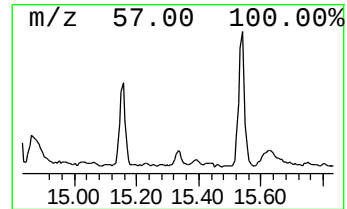
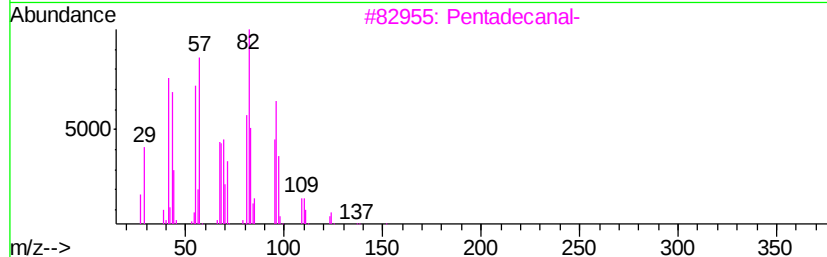
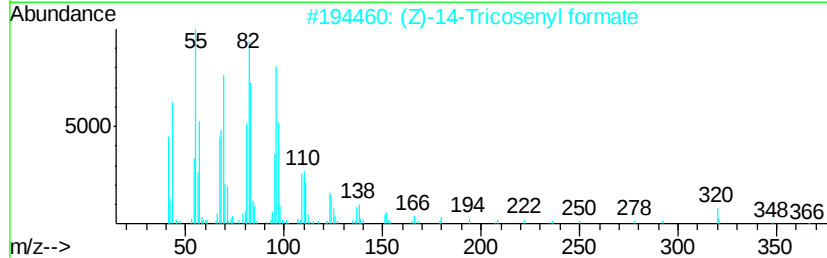
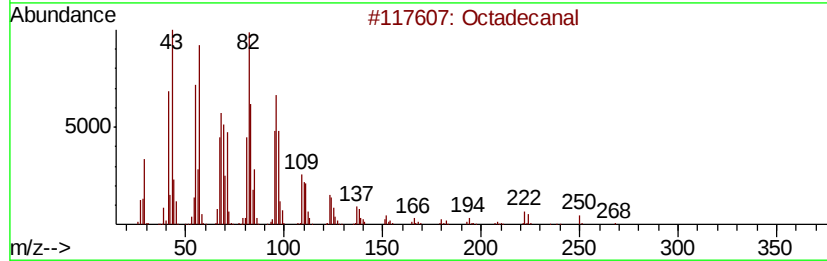
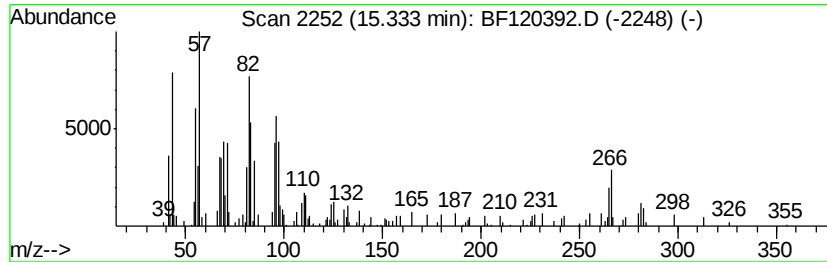
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BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Octadecanal Concentration Rank 17

| R.T.    | EstConc | Area                      | Relative to ISTD |          | R.T.        |      |
|---------|---------|---------------------------|------------------|----------|-------------|------|
| 15.33   | 2.18 ng | 124571                    | Perylene-d12     |          | 15.13       |      |
| Hit# of | 5       | Tentative ID              | MW               | MolForm  | CAS#        | Qual |
| 1       |         | Octadecanal               | 268              | C18H36O  | 000638-66-4 | 80   |
| 2       |         | (Z)-14-Tricosenyl formate | 366              | C24H46O2 | 077899-10-6 | 58   |
| 3       |         | Pentadecanal-             | 226              | C15H30O  | 002765-11-9 | 58   |
| 4       |         | 1,19-Eicosadiene          | 278              | C20H38   | 014811-95-1 | 53   |
| 5       |         | Oxirane, hexadecyl-       | 268              | C18H36O  | 007390-81-0 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

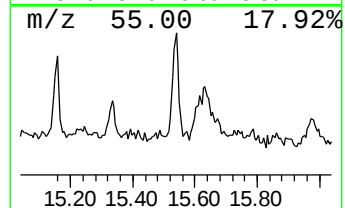
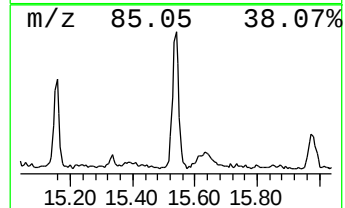
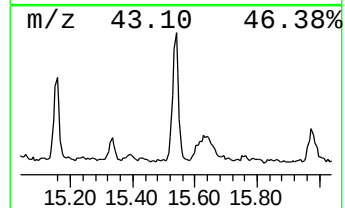
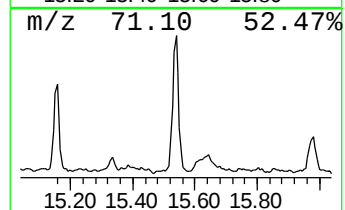
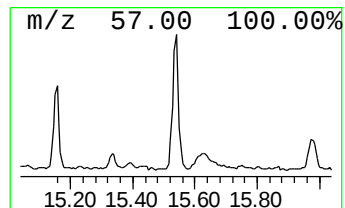
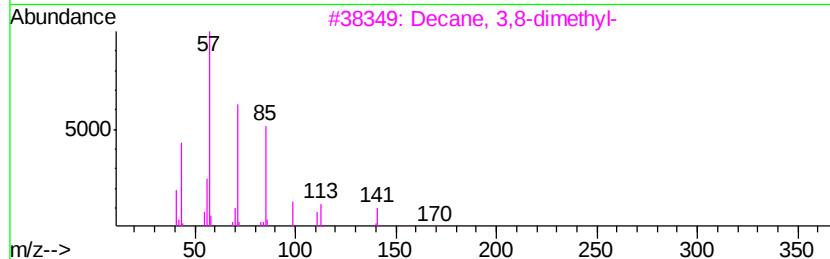
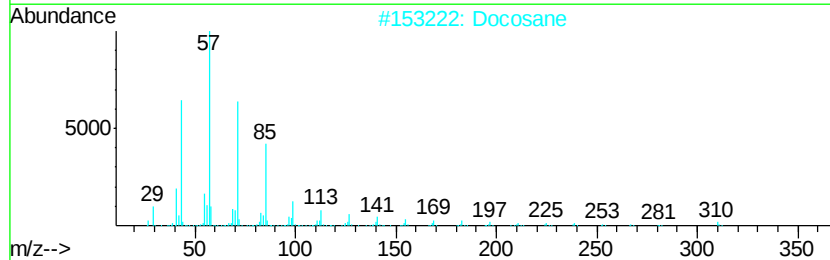
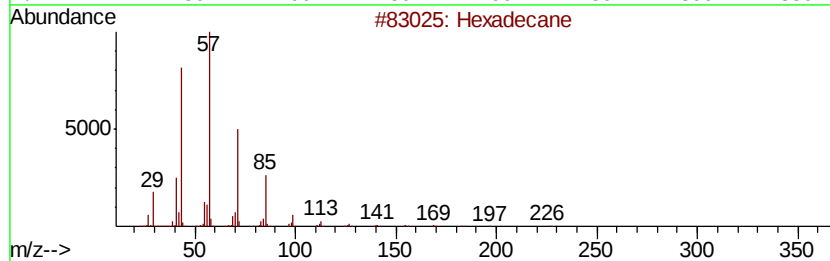
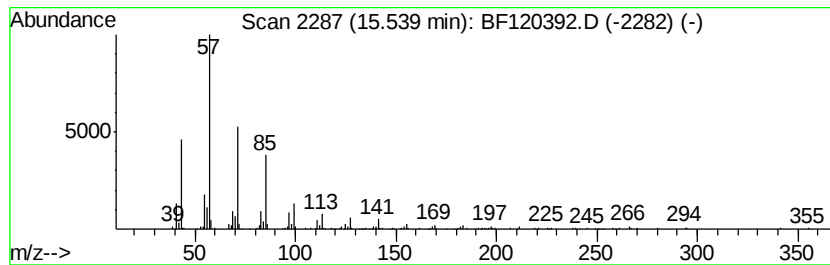
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Hexadecane Concentration Rank 2

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.54 | 6.43 ng | 367299 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34  | 000544-76-3 | 93   |
| 2    |    | Docosane              | 310 | C22H46  | 000629-97-0 | 91   |
| 3    |    | Decane, 3,8-dimethyl- | 170 | C12H26  | 017312-55-9 | 90   |
| 4    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 90   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

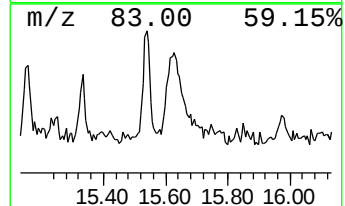
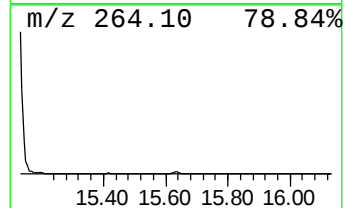
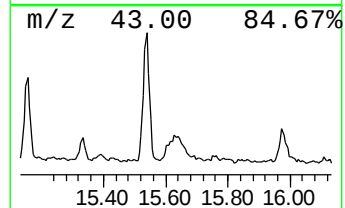
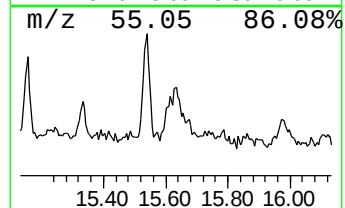
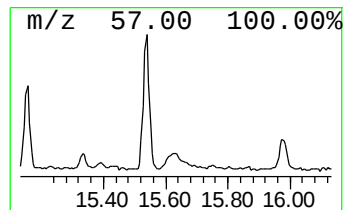
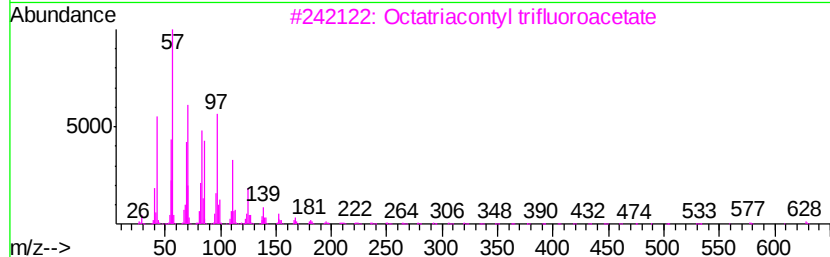
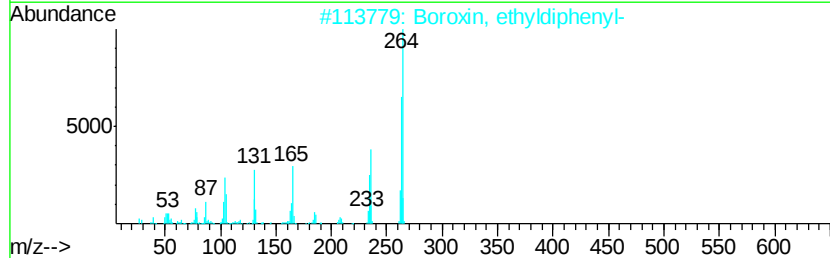
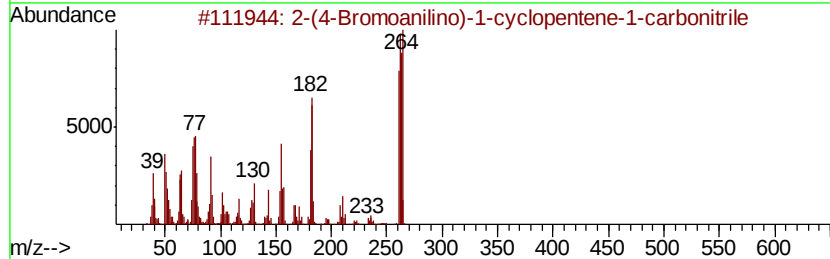
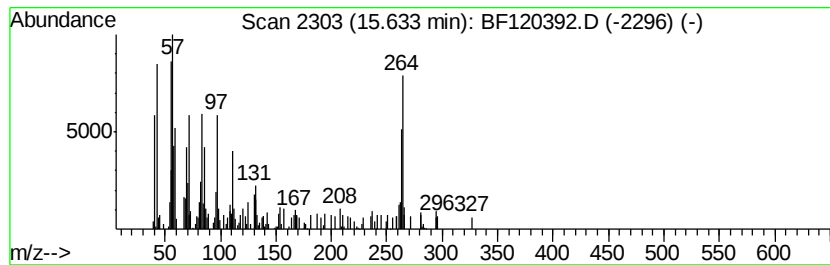
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 2-(4-Bromoanilino)-1-cyclop... Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.63 | 3.39 ng | 193254 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2-(4-Bromoanilino)-1-cyclopenten... | 262 | C12H11BrN2 | 191980-05-9  | 93   |
| 2    |    | Boroxin, ethyldiphenyl-             | 264 | C14H15B3O3 | 1000151-82-0 | 42   |
| 3    |    | Octatriacontyl trifluoroacetate     | 647 | C40H77F3O2 | 1000351-88-7 | 30   |
| 4    |    | Hexatriacontyl pentafluoropropio... | 669 | C39H73F5O2 | 1000351-89-0 | 25   |
| 5    |    | Tetratriacontyl heptafluorobutyrate | 691 | C38H69F7O2 | 1000351-84-1 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

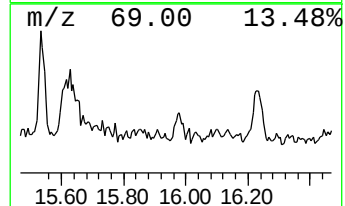
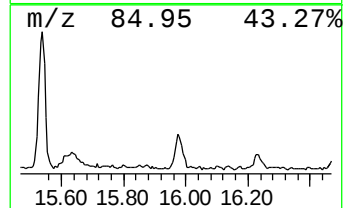
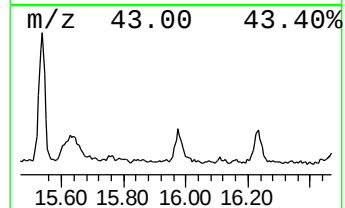
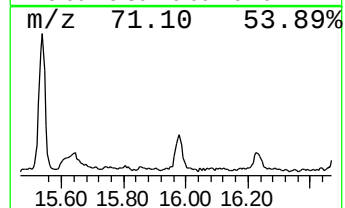
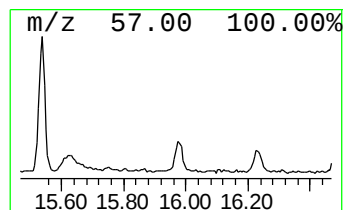
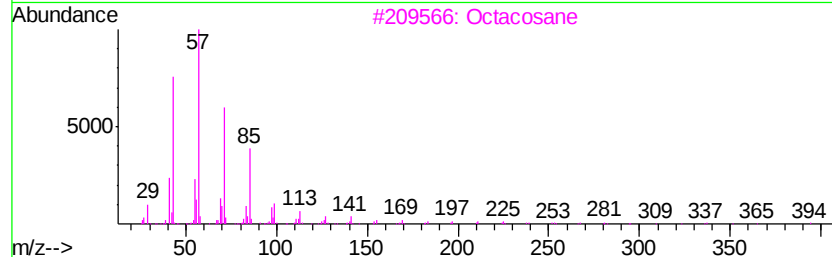
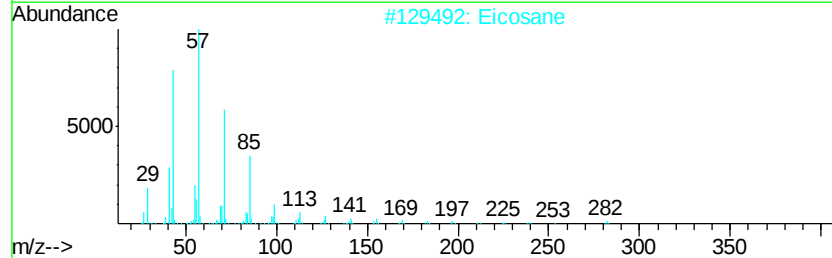
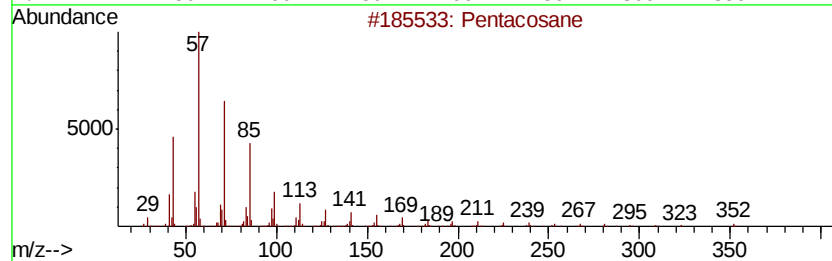
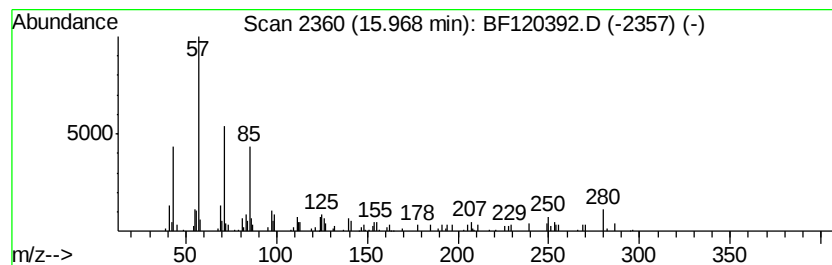
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 Pentacosane Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.97 | 2.02 ng | 115561 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Pentacosane                         | 352 | C25H52    | 000629-99-2  | 72   |
| 2    |    | Eicosane                            | 282 | C20H42    | 000112-95-8  | 64   |
| 3    |    | Octacosane                          | 394 | C28H58    | 000630-02-4  | 58   |
| 4    |    | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 53   |
| 5    |    | Tetracosane                         | 338 | C24H50    | 000646-31-1  | 52   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

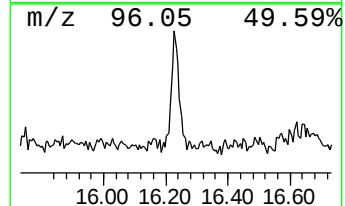
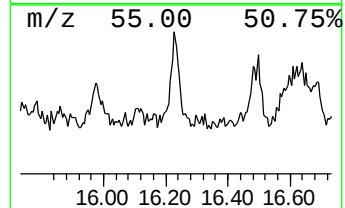
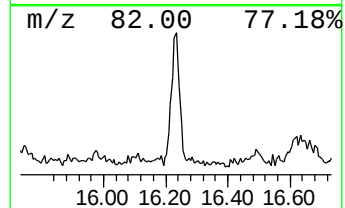
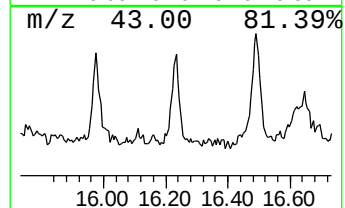
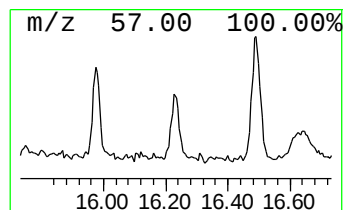
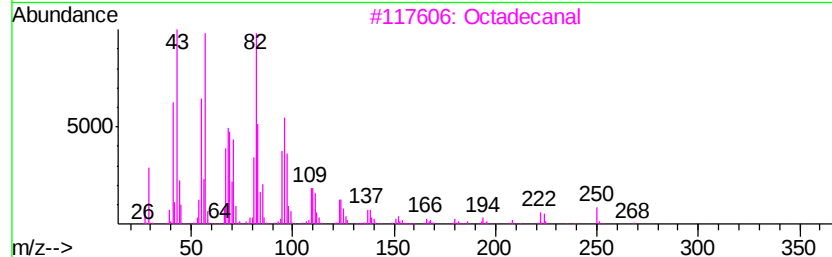
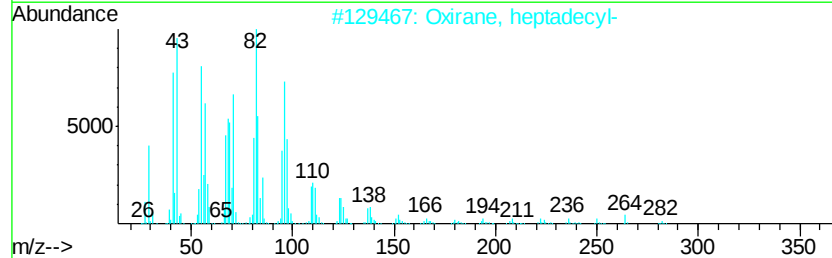
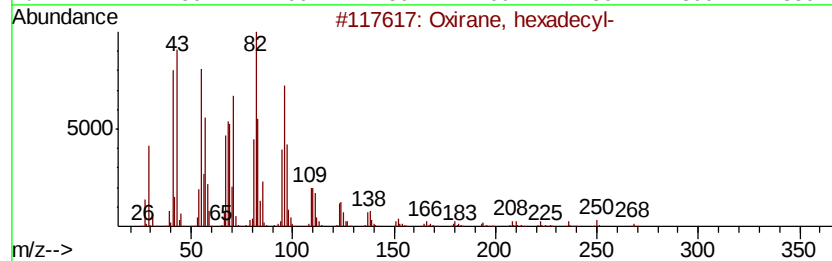
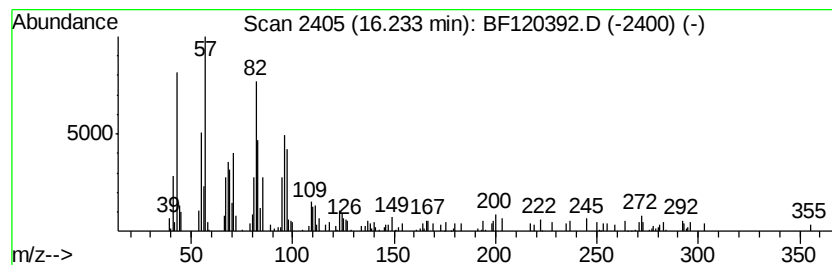
Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 Oxirane, hexadecyl- Concentration Rank 12

| R.T.    | EstConc              | Area         | Relative to ISTD | R.T.      |
|---------|----------------------|--------------|------------------|-----------|
| 16.23   | 3.01 ng              | 171836       | Perylene-d12     | 15.13     |
| Hit# of | 5                    | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Oxirane, hexadecyl-  | 268 C18H36O  | 007390-81-0      | 81        |
| 2       | Oxirane, heptadecyl- | 282 C19H38O  | 067860-04-2      | 74        |
| 3       | Octadecanal          | 268 C18H36O  | 000638-66-4      | 64        |
| 4       | 1,19-Eicosadiene     | 278 C20H38   | 014811-95-1      | 58        |
| 5       | Hexadecanal          | 240 C16H32O  | 000629-80-1      | 52        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

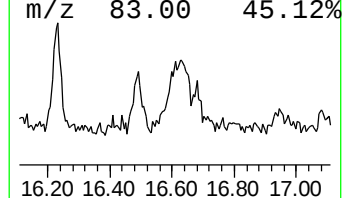
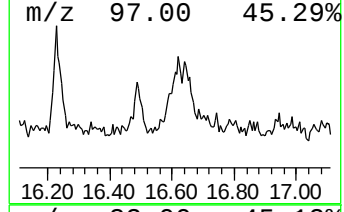
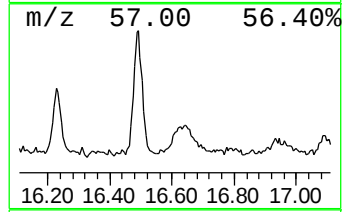
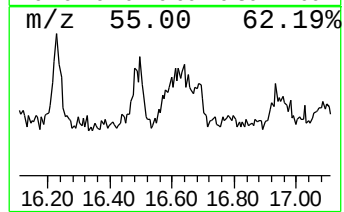
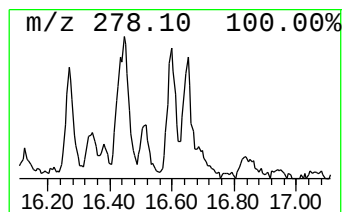
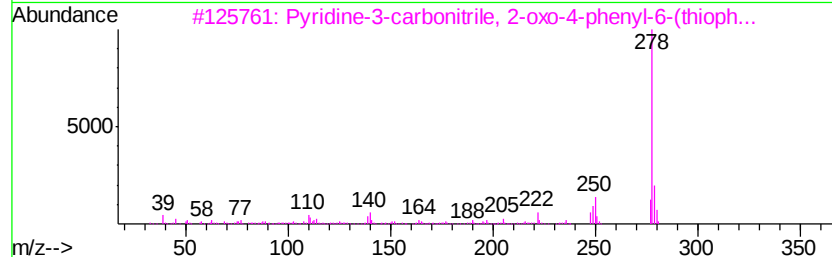
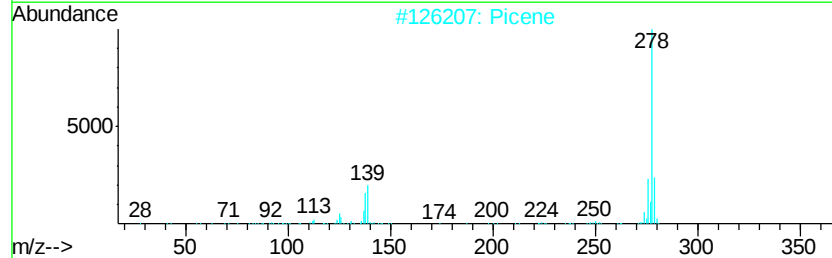
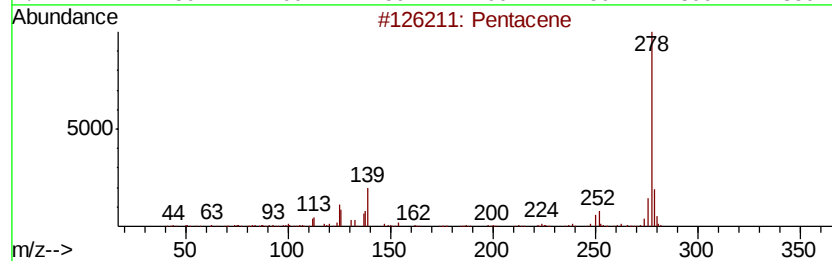
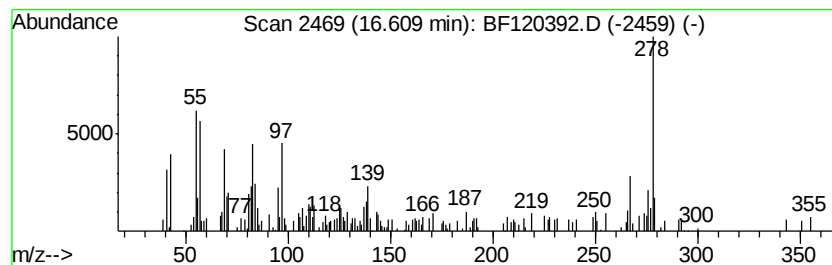
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Pentacene Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.61 | 3.27 ng | 186416 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Pentacene                           | 278 | C22H14     | 000135-48-8  | 89   |
| 2    |    | Picene                              | 278 | C22H14     | 000213-46-7  | 50   |
| 3    |    | Pvridine-3-carbonitrile, 2-oxo-4... | 278 | C16H10N2OS | 1000304-72-3 | 46   |
| 4    |    | Benzo[b]triphenylene                | 278 | C22H14     | 000215-58-7  | 45   |
| 5    |    | Dibenzo[b,h][1,6]naphthyridine, ... | 278 | C17H11ClN2 | 004240-91-9  | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

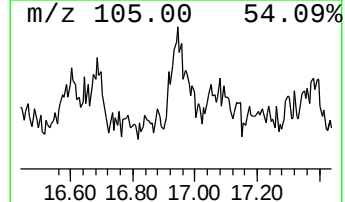
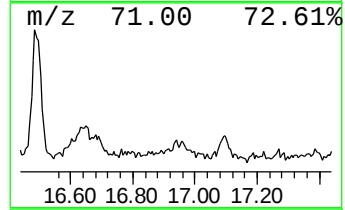
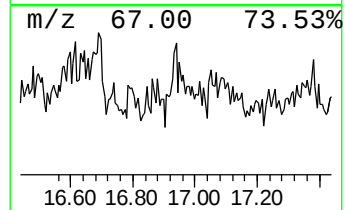
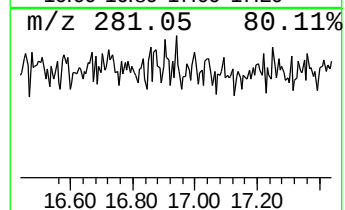
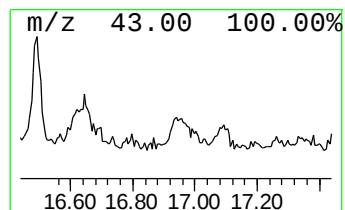
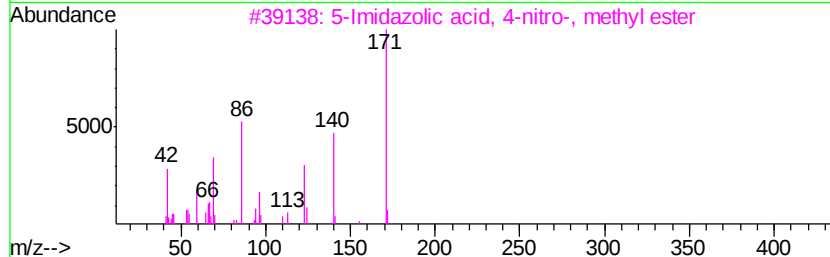
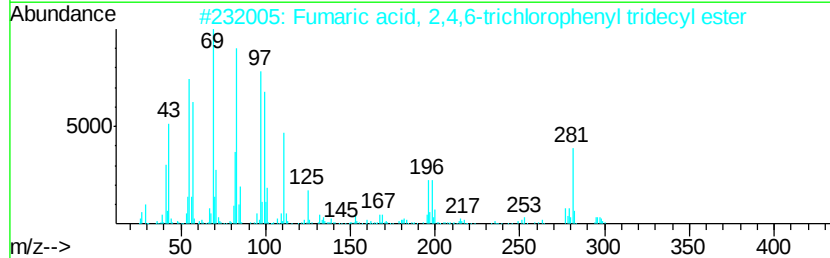
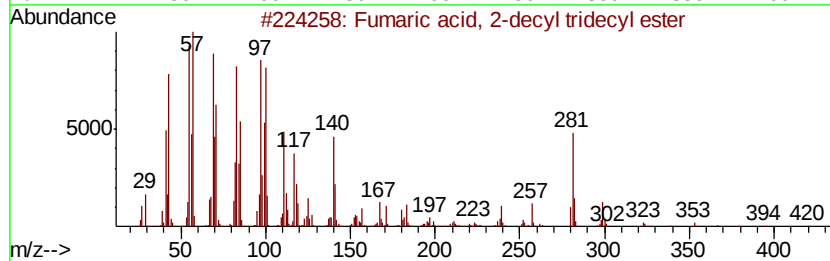
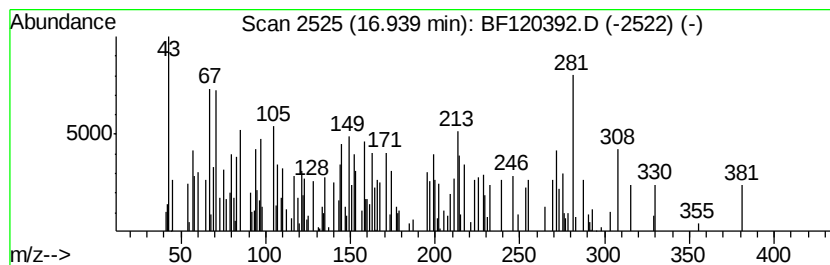
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown16.94 Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.94 | 3.64 ng | 208016 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Fumaric acid, 2-decyl tridecyl e... | 438 | C27H50O4    | 1000348-59-4 | 15   |
| 2    |    | Fumaric acid, 2,4,6-trichlorophe... | 476 | C23H31Cl3O4 | 1000348-27-7 | 10   |
| 3    |    | 5-Imidazolic acid, 4-nitro-, met... | 171 | C5H5N3O4    | 020271-20-9  | 10   |
| 4    |    | Diisopropylarsinacrylonitril        | 213 | C9H16AsN    | 077376-96-6  | 10   |
| 5    |    | 3-Carbethoxy-2-piperidone           | 171 | C8H13NO3    | 003731-16-6  | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052120\  
Data File : BF120392.D  
Acq On : 21 May 2020 20:22  
Operator : MA/SJ  
Sample : L2728-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

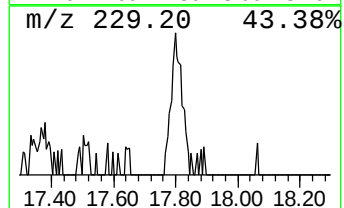
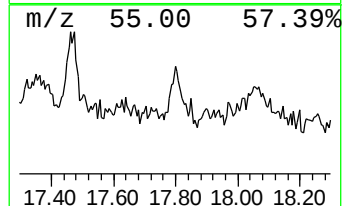
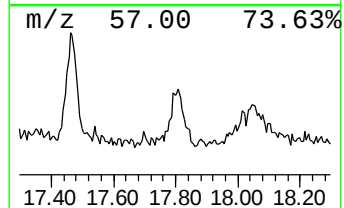
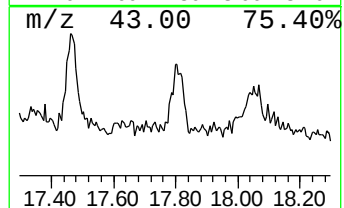
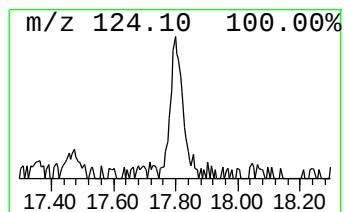
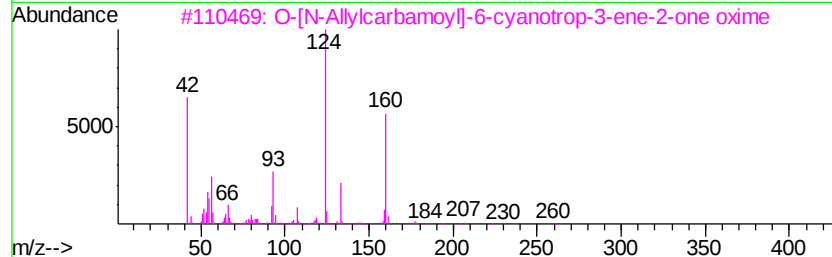
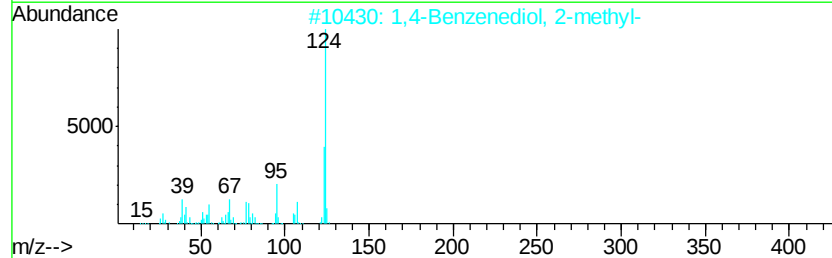
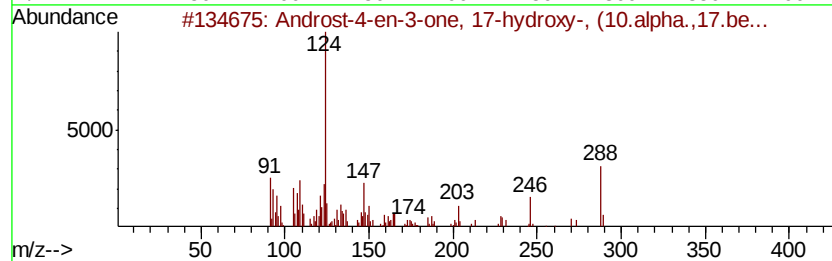
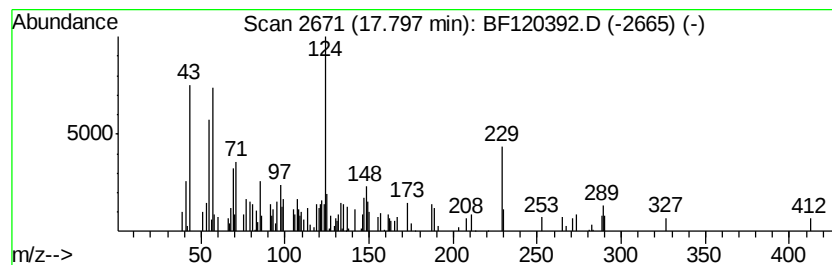
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown17.80 Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.80 | 2.55 ng | 145837 | Perylene-d12     | 15.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Androst-4-en-3-one, 17-hydroxy-,... | 288 | C19H28O2   | 000604-39-7  | 46   |
| 2    |    | 1,4-Benzenediol, 2-methyl-          | 124 | C7H8O2     | 000095-71-6  | 22   |
| 3    |    | O-[N-Allylcarbamoyl]-6-cyanotrop... | 260 | C13H16N4O2 | 1000211-93-3 | 22   |
| 4    |    | 6-Methyl-2,4-pyrimidinediamine      | 124 | C5H8N4     | 001791-73-7  | 22   |
| 5    |    | Benzenemethanamine, 2-fluoro-       | 125 | C7H8FN     | 000089-99-6  | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF052120\  
 Data File : BF120392.D  
 Acq On : 21 May 2020 20:22  
 Operator : MA/SJ  
 Sample : L2728-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239990

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF051420.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 |
| n-Hexadecanoic acid  | 11.65 | 3.7 ng  |       | 345091   | 4                     | 11.11 | 1858510 | 20.0 |
| Benzaldehyde, 3,5... | 11.72 | 2.3 ng  |       | 215618   | 4                     | 11.11 | 1858510 | 20.0 |
| 1-Octadecanesulph... | 13.60 | 6.0 ng  |       | 587662   | 5                     | 13.74 | 1967780 | 20.0 |
| Heptadecane          | 14.23 | 2.3 ng  |       | 224533   | 5                     | 13.74 | 1967780 | 20.0 |
| unknown14.26         | 14.26 | 2.4 ng  |       | 238063   | 5                     | 13.74 | 1967780 | 20.0 |
| Hexadecane, 2-met... | 14.52 | 4.2 ng  |       | 240965   | 6                     | 15.13 | 1141770 | 20.0 |
| Nonadecane           | 14.82 | 5.6 ng  |       | 318943   | 6                     | 15.13 | 1141770 | 20.0 |
| 1-Heneicosanol       | 14.87 | 4.6 ng  |       | 263294   | 6                     | 15.13 | 1141770 | 20.0 |
| Benzo[e]pyrene       | 15.02 | 4.3 ng  |       | 244885   | 6                     | 15.13 | 1141770 | 20.0 |
| Octadecanal          | 15.33 | 2.2 ng  |       | 124571   | 6                     | 15.13 | 1141770 | 20.0 |
| Hexadecane           | 15.54 | 6.4 ng  |       | 367299   | 6                     | 15.13 | 1141770 | 20.0 |
| 2-(4-Bromoanilino... | 15.63 | 3.4 ng  |       | 193254   | 6                     | 15.13 | 1141770 | 20.0 |
| Pentacosane          | 15.97 | 2.0 ng  |       | 115561   | 6                     | 15.13 | 1141770 | 20.0 |
| Oxirane, hexadecyl-  | 16.23 | 3.0 ng  |       | 171836   | 6                     | 15.13 | 1141770 | 20.0 |
| Pentacene            | 16.61 | 3.3 ng  |       | 186416   | 6                     | 15.13 | 1141770 | 20.0 |
| unknown16.94         | 16.94 | 3.6 ng  |       | 208016   | 6                     | 15.13 | 1141770 | 20.0 |
| unknown17.80         | 17.80 | 2.5 ng  |       | 145837   | 6                     | 15.13 | 1141770 | 20.0 |