LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

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-BF121418.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.998 | 491 | 495 | 508 | rVB | 184271 | 231160 | 5.24% | 0.569% |
| 2 | 5.422 | 562 | 567 | 570 | rBV | 4135337 | 3812825 | 86.44% | 9.392% |
| 3 | 6.439 | 735 | 740 | 753 | rBV | 4245478 | 4411040 | 100.00% | 10.866% |
| 4 | 6.569 | 757 | 762 | 765 | rVV | 4644133 | 4051454 | 91.85% | 9.980% |
| 5 | 6.628 | 769 | 772 | 776 | rVB3 | 52609 | 73019 | 1.66% | 0.180% |
| 6 | 6.792 | 796 | 800 | 804 | rBV | 1217977 | 966838 | 21.92% | 2.382% |
| 7 | 6.951 | 823 | 827 | 830 | rBV | 3780573 | 3047160 | 69.08% | 7.506% |
| 8 | 7.351 | 889 | 895 | 901 | rBV | 2531281 | 2627191 | 59.56% | 6.472% |
| 9 | 7.651 | 943 | 946 | 950 | rVB | 56295 | 52611 | 1.19% | 0.130% |
| 10 | 8.075 | 1014 | 1018 | 1021 | rBV | 1528094 | 1240824 | 28.13% | 3.057% |
| 11 | 8.351 | 1062 | 1065 | 1070 | rBV | 57160 | 49663 | 1.13% | 0.122% |
| 12 | 8.781 | 1135 | 1138 | 1142 | rBV2 | 40534 | 46763 | 1.06% | 0.115% |
| 13 | 9.151 | 1197 | 1201 | 1204 | rBV | 4889506 | 4214837 | 95.55% | 10.383% |
| 14 | 9.545 | 1264 | 1268 | 1275 | rBV | 331826 | 327567 | 7.43% | 0.807% |
| 15 | 9.686 | 1289 | 1292 | 1296 | rBV | 79161 | 67620 | 1.53% | 0.167% |
| 16 | 9.828 | 1312 | 1316 | 1325 | rVB | 1506297 | 1303807 | 29.56% | 3.212% |
| 17 | 10.616 | 1446 | 1450 | 1459 | rBV | 2417515 | 2158307 | 48.93% | 5.317% |
| 18 | 10.739 | 1468 | 1471 | 1476 | rVB2 | 47911 | 51485 | 1.17% | 0.127% |
| 19 | 11.310 | 1564 | 1568 | 1571 | rBV | 1207271 | 1031048 | 23.37% | 2.540% |
| 20 | 11.333 | 1571 | 1572 | 1576 | rVB | 111220 | 70144 | 1.59% | 0.173% |
| 21 | 11.610 | 1616 | 1619 | 1621 | rVB | 71399 | 61379 | 1.39% | 0.151% |
| 22 | 11.810 | 1650 | 1653 | 1656 | rBV | 73032 | 72678 | 1.65% | 0.179% |
| 23 | 11.839 | 1656 | 1658 | 1663 | rVV | 261850 | 255788 | 5.80% | 0.630% |
| 24 | 11.922 | 1669 | 1672 | 1675 | rBV | 160220 | 175974 | 3.99% | 0.433% |
| 25 | 11.945 | 1675 | 1676 | 1681 | rVB | 85771 | 66528 | 1.51% | 0.164% |
| 26 | 12.110 | 1701 | 1704 | 1706 | rBV | 89720 | 81642 | 1.85% | 0.201% |
| 27 | 12.363 | 1741 | 1747 | 1750 | rBV | 162252 | 171551 | 3.89% | 0.423% |
| 28 | 12.398 | 1750 | 1753 | 1758 | rVV3 | 87409 | 146270 | 3.32% | 0.360% |
| 29 | 12.445 | 1758 | 1761 | 1766 | rVV3 | 75088 | 97755 | 2.22% | 0.241% |
| 30 | 12.521 | 1770 | 1774 | 1780 | rBV | 544575 | 483680 | 10.97% | 1.191% |
| 31 | 12.616 | 1788 | 1790 | 1794 | rBV2 | 83066 | 107872 | 2.45% | 0.266% |
| 32 | 12.692 | 1798 | 1803 | 1807 | rBV4 | 36559 | 49147 | 1.11% | 0.121% |
| 33 | 12.751 | 1807 | 1813 | 1816 | rBV | 883813 | 778256 | 17.64% | 1.917% |
| 34 | 12.898 | 1834 | 1838 | 1841 | rBV | 3015410 | 2563792 | 58.12% | 6.315% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

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-BF121418.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.969 | 1847 | 1850 | 1854 | rBV2 | 113904 | 143393 | 3.25% | 0.353% |
| 36 | 13.057 | 1862 | 1865 | 1867 | rBV2 | 97488 | 123552 | 2.80% | 0.304% |
| 37 | 13.080 | 1867 | 1869 | 1872 | rVB | 134458 | 114580 | 2.60% | 0.282% |
| 38 | 13.145 | 1872 | 1880 | 1884 | rBV4 | 77940 | 156282 | 3.54% | 0.385% |
| 39 | 13.186 | 1884 | 1887 | 1890 | rBV | 135806 | 131699 | 2.99% | 0.324% |
| 40 | 13.274 | 1899 | 1902 | 1905 | rVV | 130951 | 102794 | 2.33% | 0.253% |
| 41 | 13.304 | 1905 | 1907 | 1911 | rVB | 121877 | 107972 | 2.45% | 0.266% |
| 42 | 13.480 | 1934 | 1937 | 1939 | rBV3 | 57982 | 51808 | 1.17% | 0.128% |
| 43 | 13.586 | 1952 | 1955 | 1960 | rVB | 73867 | 82074 | 1.86% | 0.202% |
| 44 | 13.692 | 1969 | 1973 | 1977 | rBV3 | 83581 | 133404 | 3.02% | 0.329% |
| 45 | 13.727 | 1977 | 1979 | 1981 | rVB | 75784 | 54336 | 1.23% | 0.134% |
| 46 | 13.804 | 1987 | 1992 | 2000 | rVB2 | 156348 | 236653 | 5.37% | 0.583% |
| 47 | 13.945 | 2011 | 2016 | 2019 | rBV2 | 1077142 | 1398018 | 31.69% | 3.444% |
| 48 | 13.974 | 2019 | 2021 | 2026 | rVB | 388299 | 354033 | 8.03% | 0.872% |
| 49 | 14.086 | 2038 | 2040 | 2043 | rBV | 64946 | 66208 | 1.50% | 0.163% |
| 50 | 14.121 | 2044 | 2046 | 2049 | rVB2 | 87035 | 74915 | 1.70% | 0.185% |
| 51 | 14.339 | 2078 | 2083 | 2085 | rBV | 135620 | 157783 | 3.58% | 0.389% |
| 52 | 14.368 | 2086 | 2088 | 2091 | rVB | 79822 | 61669 | 1.40% | 0.152% |
| 53 | 14.427 | 2096 | 2098 | 2101 | rVB2 | 112523 | 104362 | 2.37% | 0.257% |
| 54 | 14.733 | 2147 | 2150 | 2152 | rBV | 75356 | 78457 | 1.78% | 0.193% |
| 55 | 14.974 | 2187 | 2191 | 2199 | rVB | 213568 | 410432 | 9.30% | 1.011% |
| 56 | 15.057 | 2202 | 2205 | 2207 | rBV | 82595 | 86478 | 1.96% | 0.213% |
| 57 | 15.268 | 2237 | 2241 | 2246 | rVB | 148764 | 170266 | 3.86% | 0.419% |
| 58 | 15.327 | 2247 | 2251 | 2256 | rVV | 211696 | 253551 | 5.75% | 0.625% |
| 59 | 15.386 | 2257 | 2261 | 2265 | rVV | 560436 | 685107 | 15.53% | 1.688% |
| 60 | 15.427 | 2265 | 2268 | 2274 | rVB3 | 101641 | 154780 | 3.51% | 0.381% |
| 61 | 15.851 | 2337 | 2340 | 2345 | rVB2 | 55593 | 77618 | 1.76% | 0.191% |
| 62 | 16.798 | 2498 | 2501 | 2506 | rVB2 | 49422 | 75661 | 1.72% | 0.186% |

Sum of corrected areas: 40595560

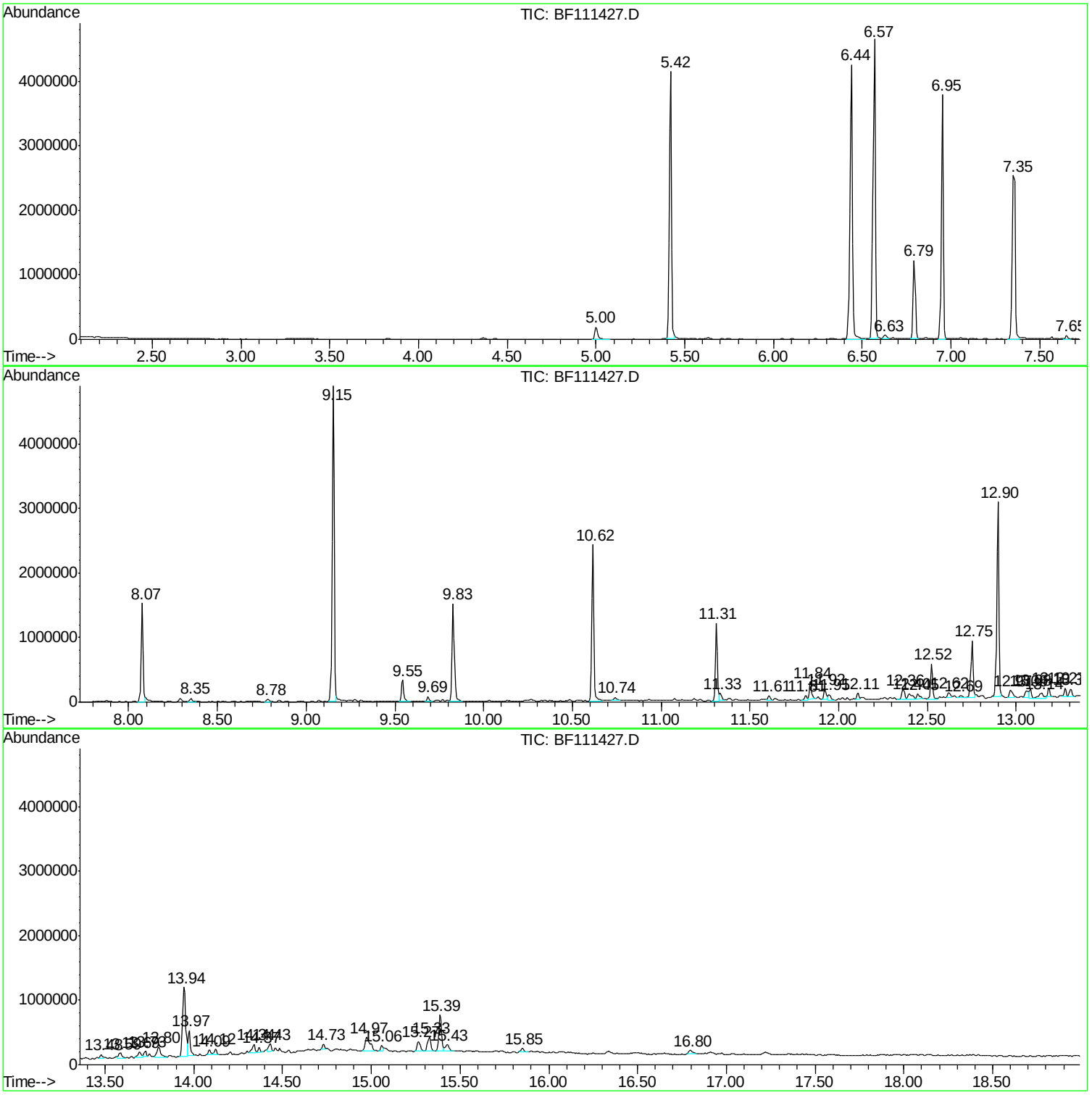
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

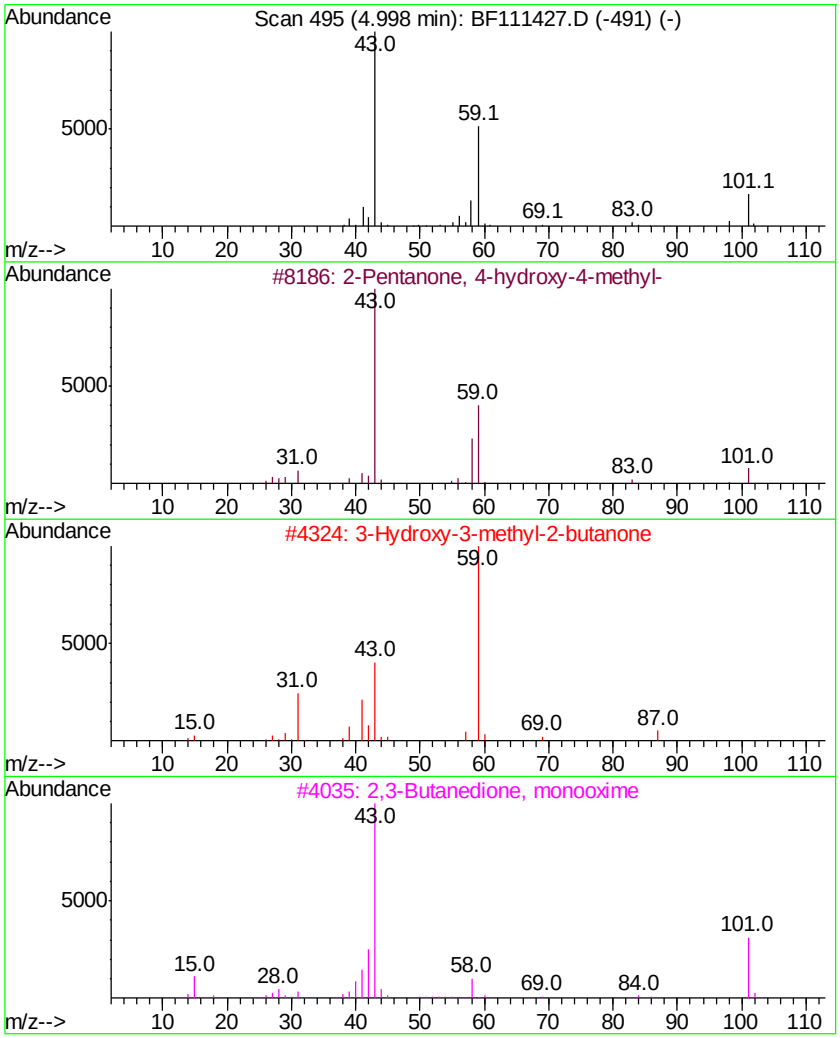
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

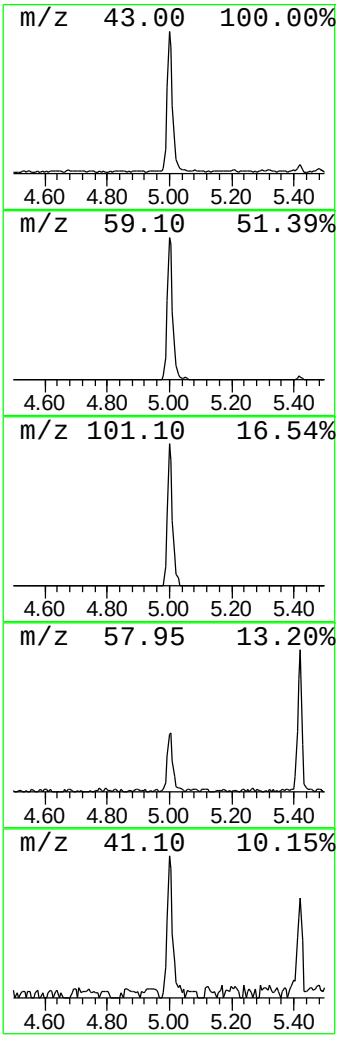
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.00 | 4.78 ng | 231160 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 45 |
| 2 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 23 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | 5-Oxohexanenitrile | 111 | C6H9NO | 010412-98-3 | 9 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

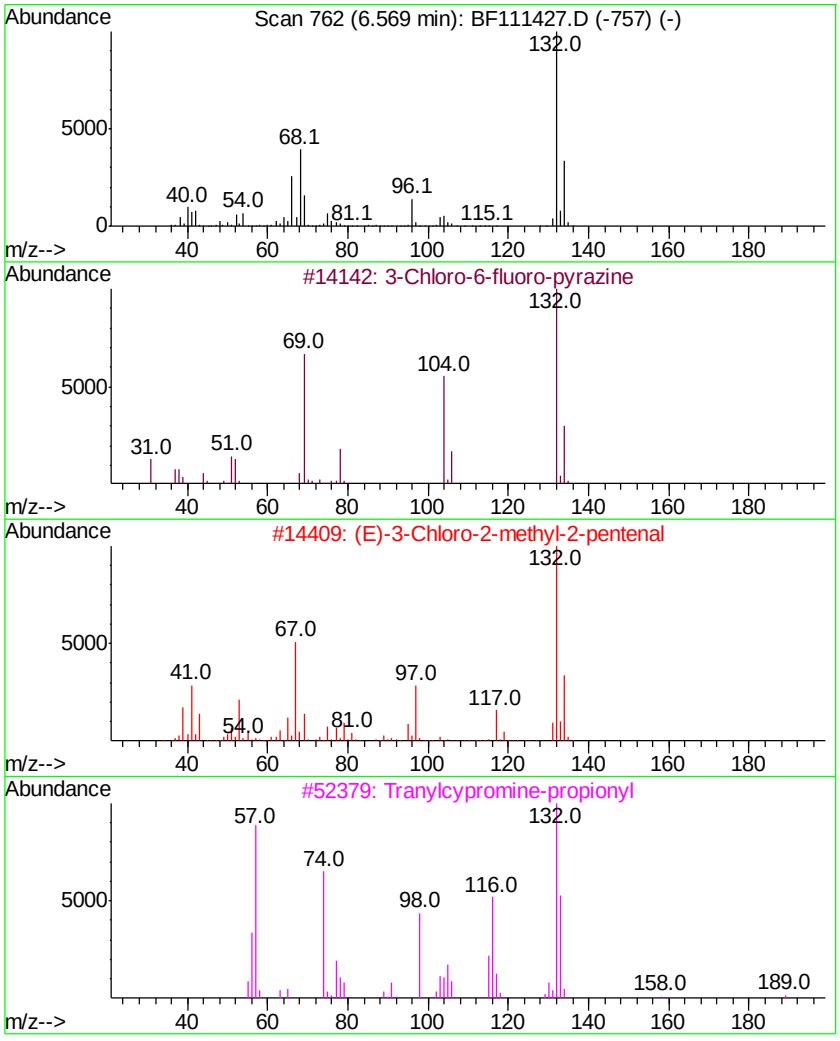
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

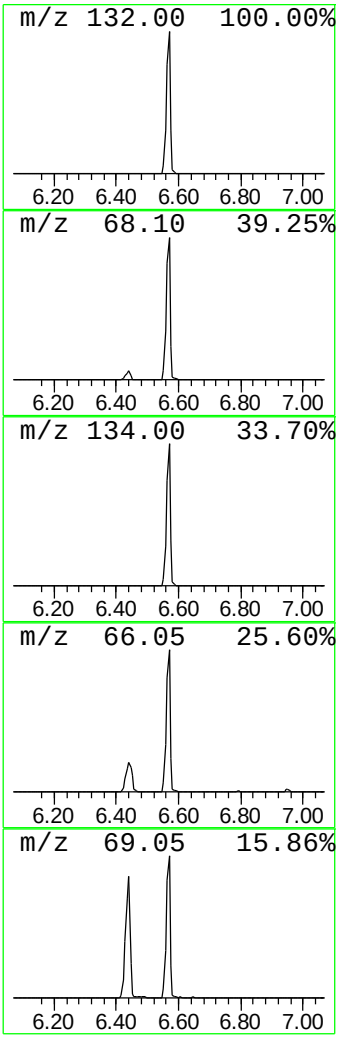
**********

Peak Number 2 unknown6.57 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.57 | 83.81 ng | 4051450 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

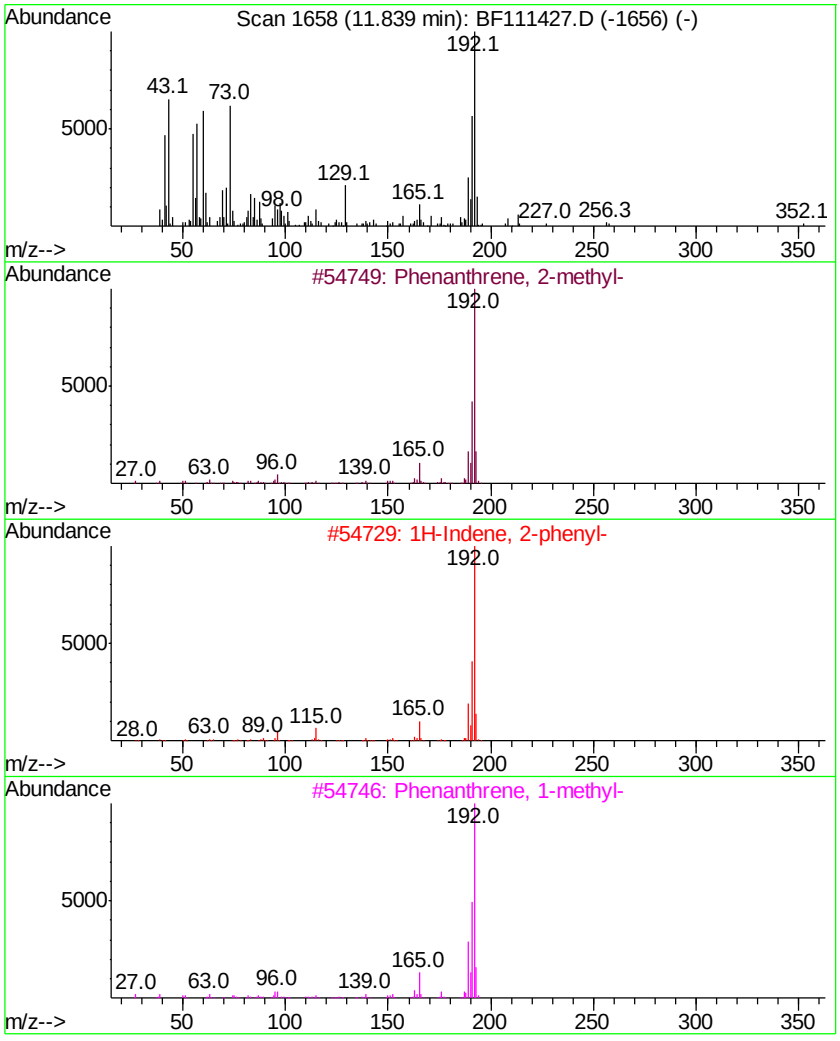
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

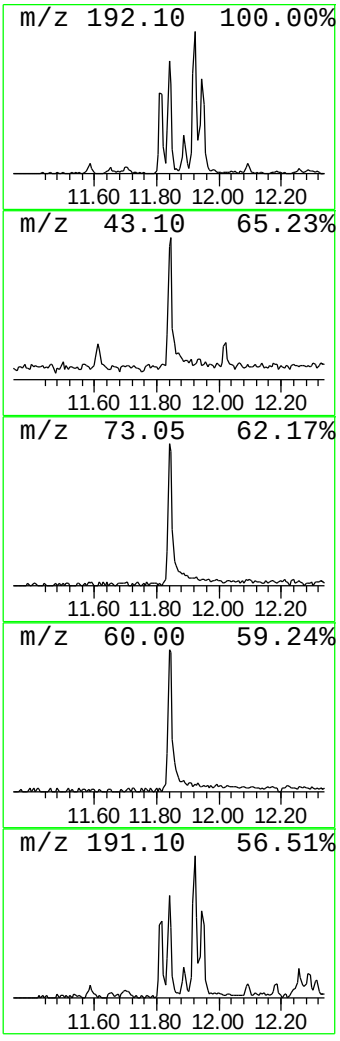
**********

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.84 | 4.96 ng | 255788 | Phenanthrene-d10 | 11.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 91 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 90 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 89 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

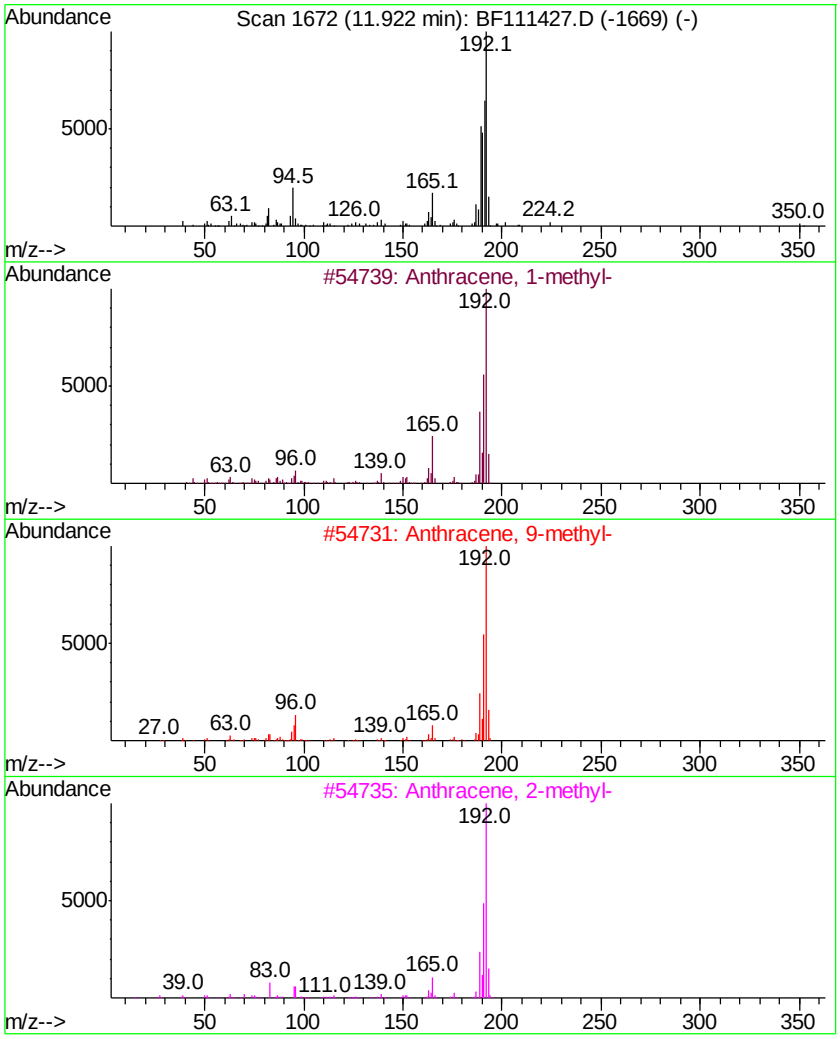
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

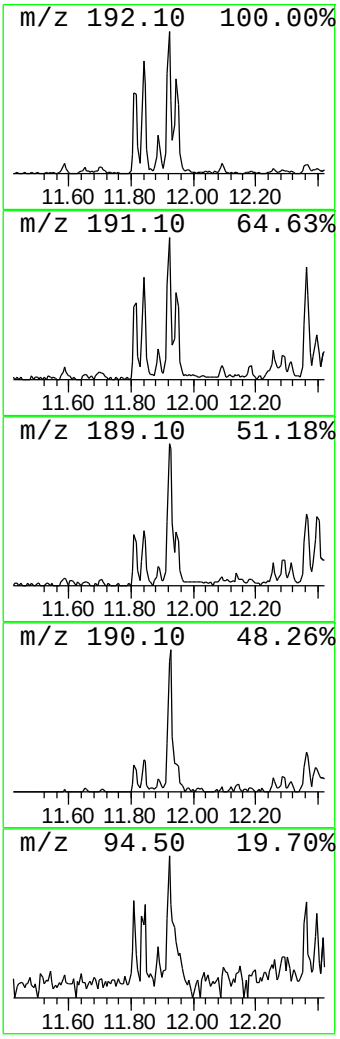
**********

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 3.41 ng | 175974 | Phenanthrene-d10 | 11.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 90 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 60 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 60 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 60 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 60 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

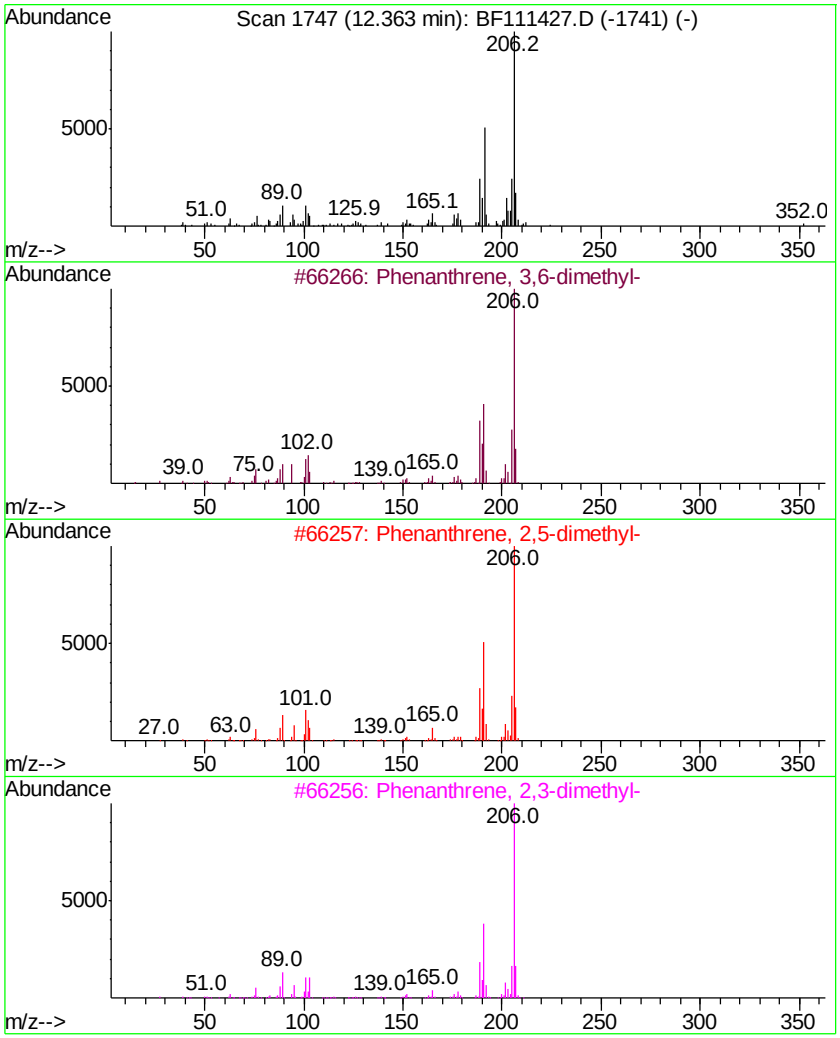
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

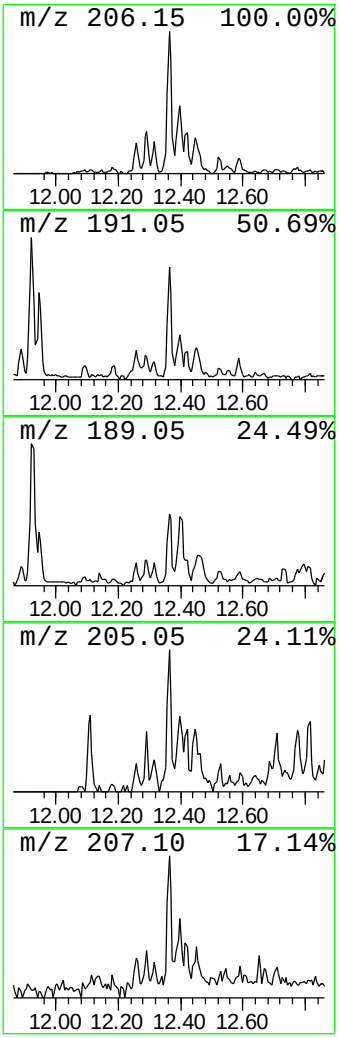
**********

Peak Number 6 Phenanthrene, 3,6-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.36 | 3.33 ng | 171551 | Phenanthrene-d10 | 11.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 92 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

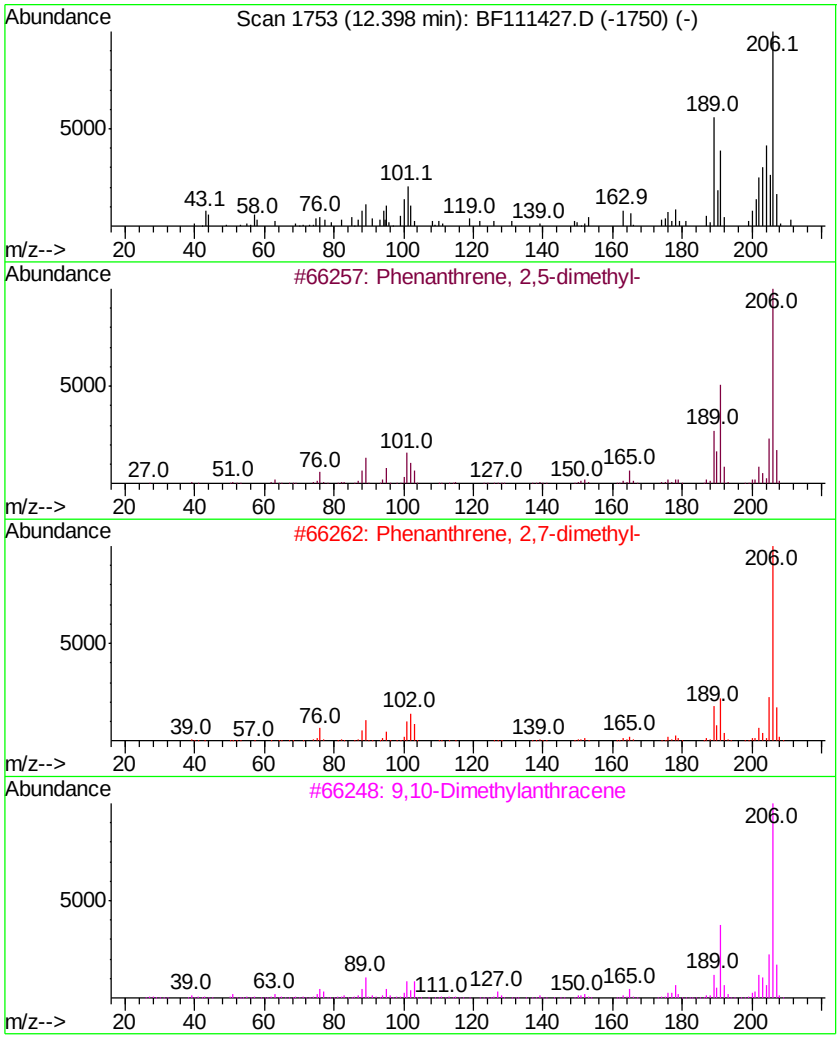
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

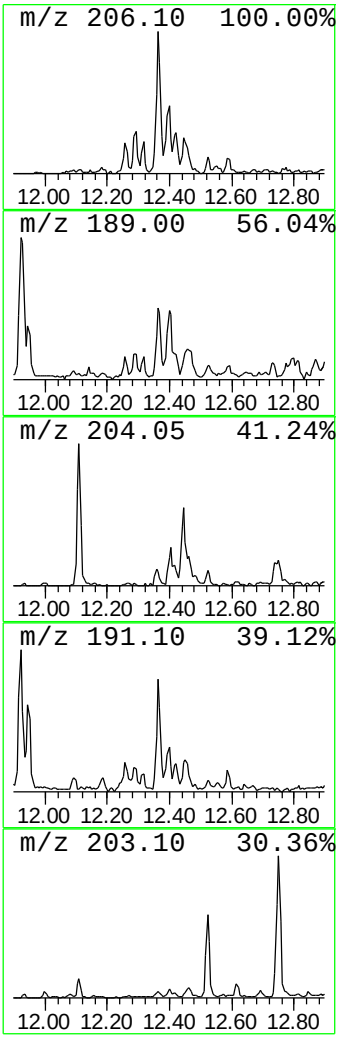
**********

Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.40 | 2.84 ng | 146270 | Phenanthrene-d10 | 11.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 78 |
| 2 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 64 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 60 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 53 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

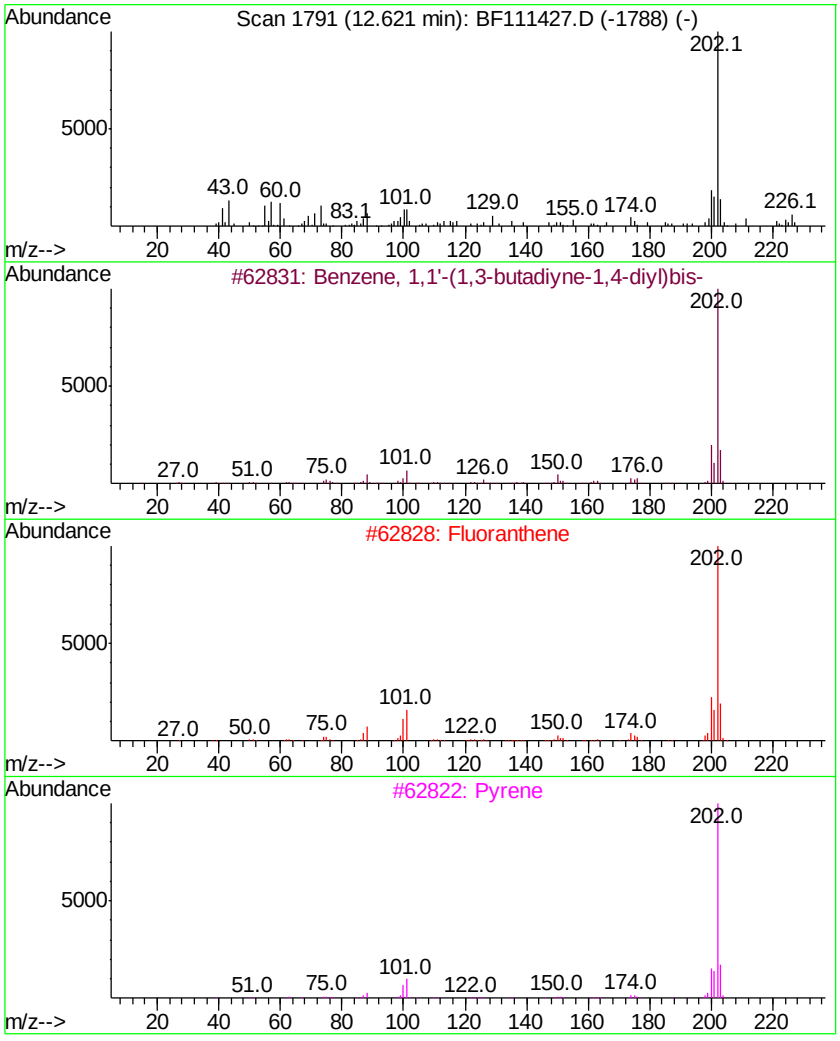
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

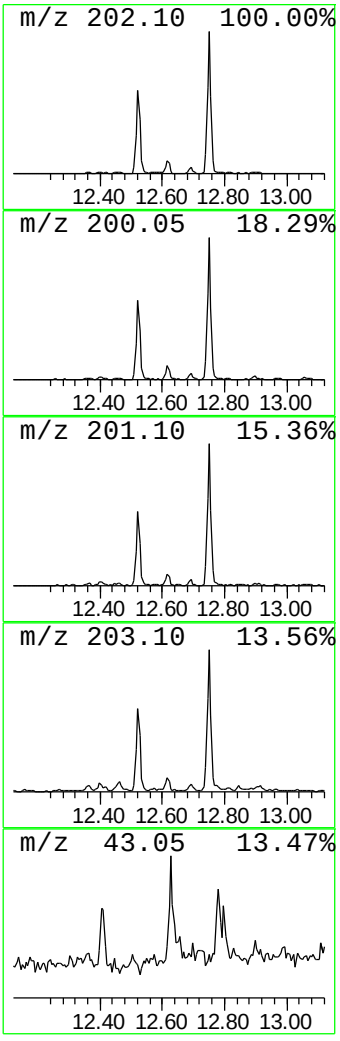
**********

Peak Number 8 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.62 | 2.09 ng | 107872 | Phenanthrene-d10 | 11.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,1'-(1,3-butadiyne-1,4... | 202 | C16H10 | 000886-66-8 | 93 |
| 2 | Fluoranthene | 202 | C16H10 | 000206-44-0 | 93 |
| 3 | Pyrene | 202 | C16H10 | 000129-00-0 | 81 |
| 4 | l-Leucine, N-methyl-N-(2-methoxy... | 485 | C28H55NO5 | 1000328-55-1 | 47 |
| 5 | 1,4-Pentadiyn-3-one, 1,5-diphenyl- | 230 | C17H10O | 015814-30-9 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

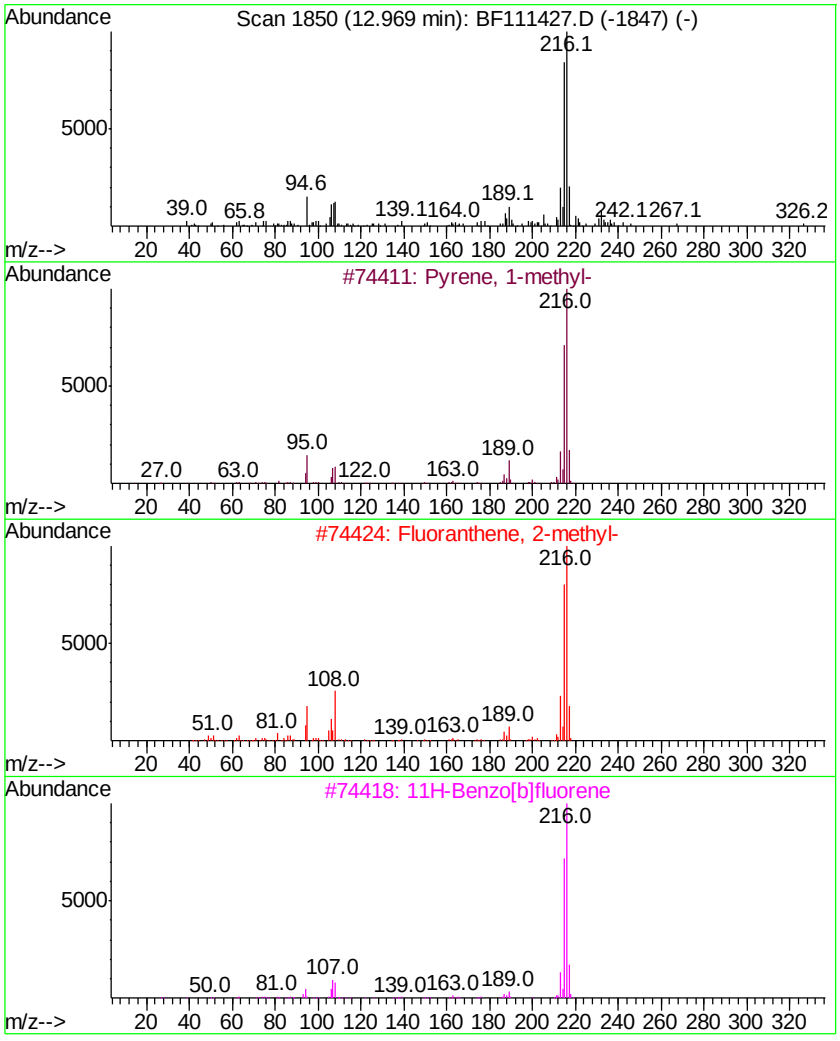
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

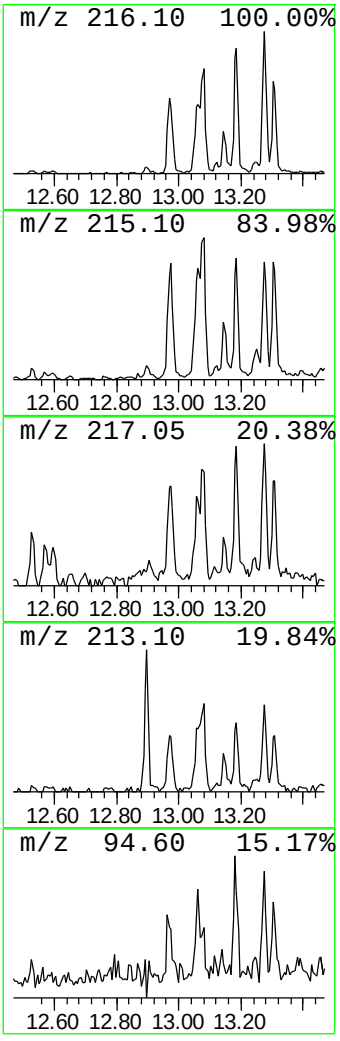
**********

Peak Number 9 Pyrene, 1-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.97 | 2.05 ng | 143393 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 95 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 89 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

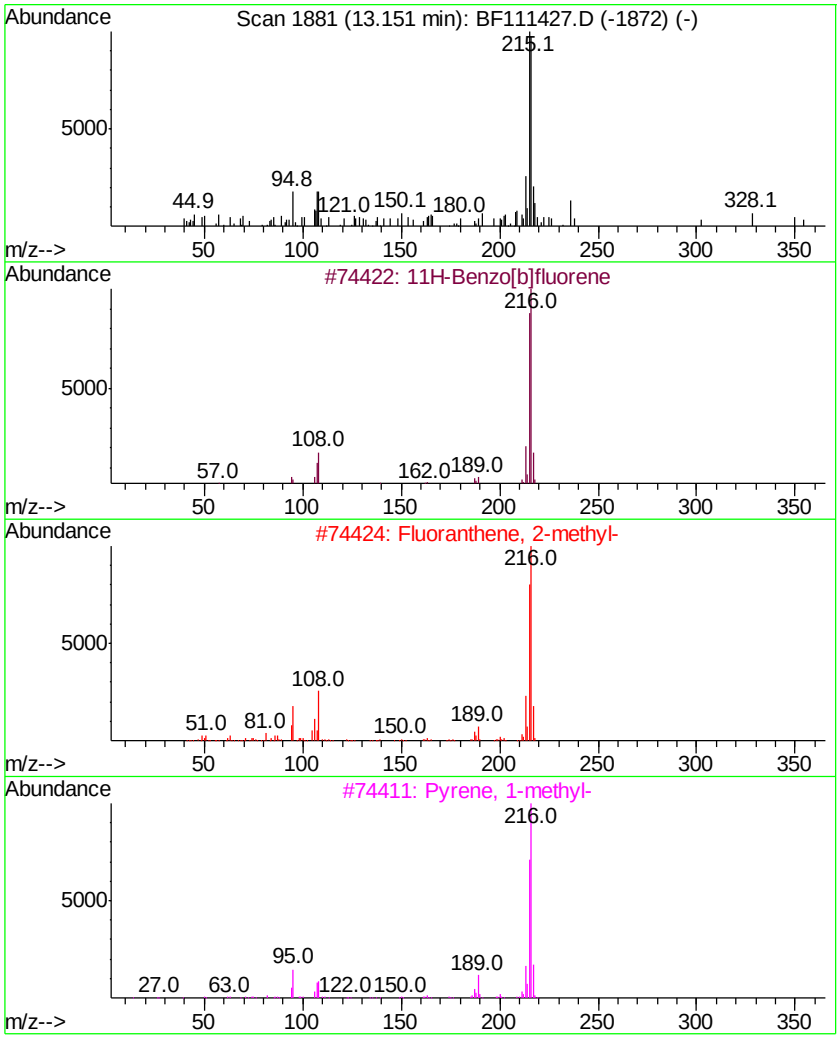
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

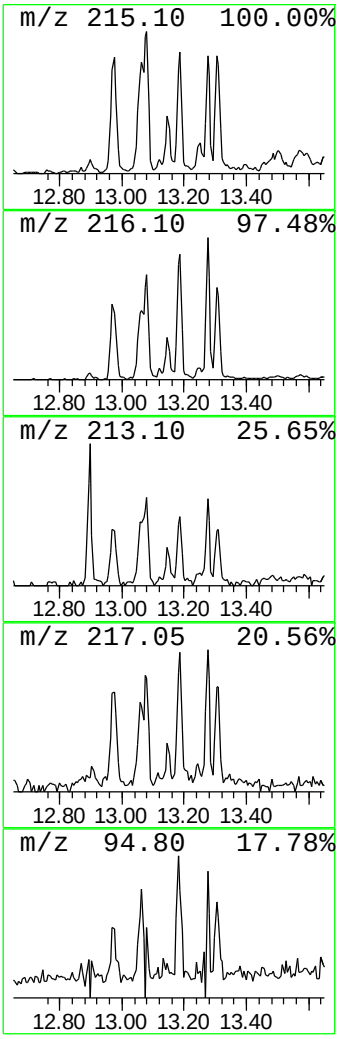
**********

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.15 | 2.24 ng | 156282 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 81 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 72 |
| 5 | 6H-Thiazolo[5,4-e]indole, 2,7,8-... | 216 | C12H12N2S | 1000338-32-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

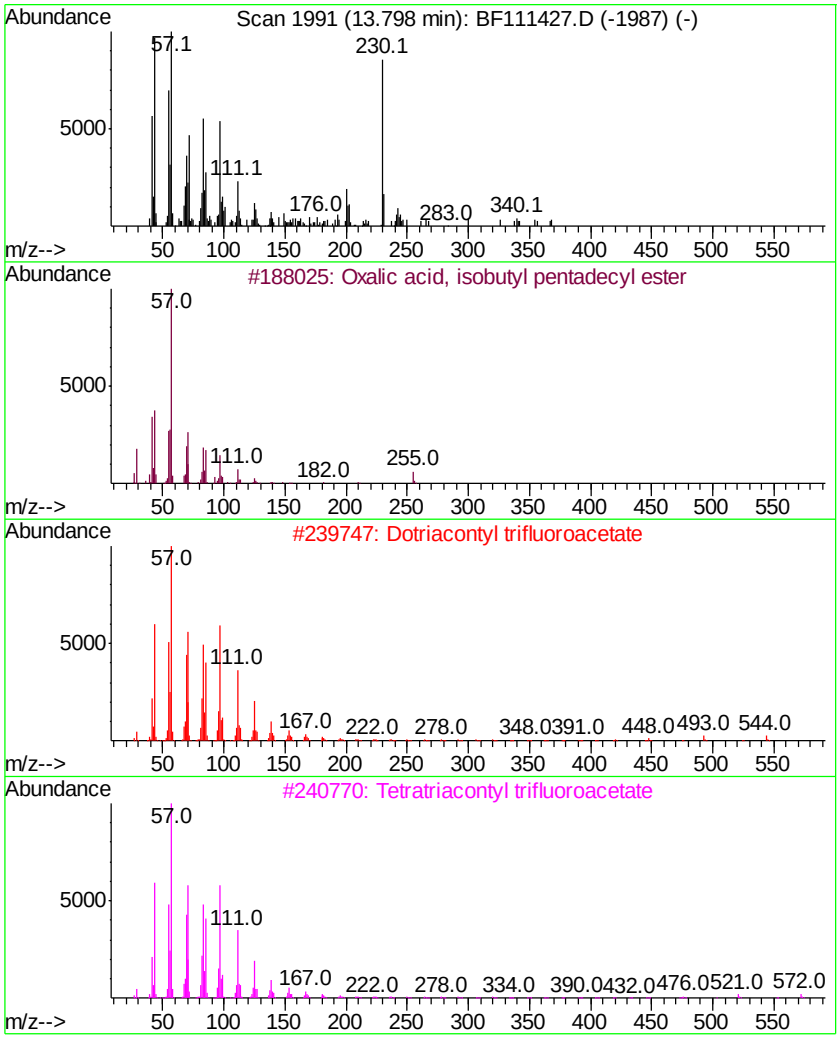
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

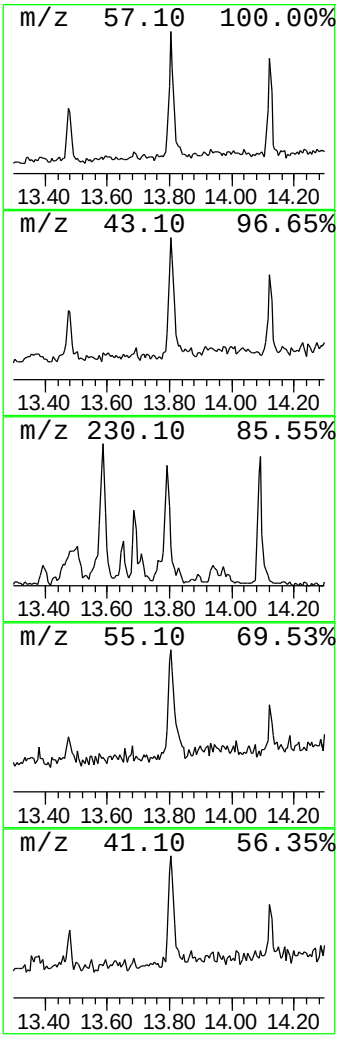
**********

Peak Number 11 Oxalic acid, isobutyl penta... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.80 | 3.39 ng | 236653 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, isobutyl pentadecyl... | 356 | C21H40O4 | 1000309-38-0 | 91 |
| 2 | Dotriacontyl trifluoroacetate | 562 | C34H65F3O2 | 1000351-75-4 | 91 |
| 3 | Tetratriacontyl trifluoroacetate | 591 | C36H69F3O2 | 1000351-75-3 | 91 |
| 4 | Tetratriacontyl pentafluoropropi... | 641 | C37H69F5O2 | 1000351-81-5 | 91 |
| 5 | Oxalic acid, isobutyl tetradecyl... | 342 | C20H38O4 | 1000309-37-9 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

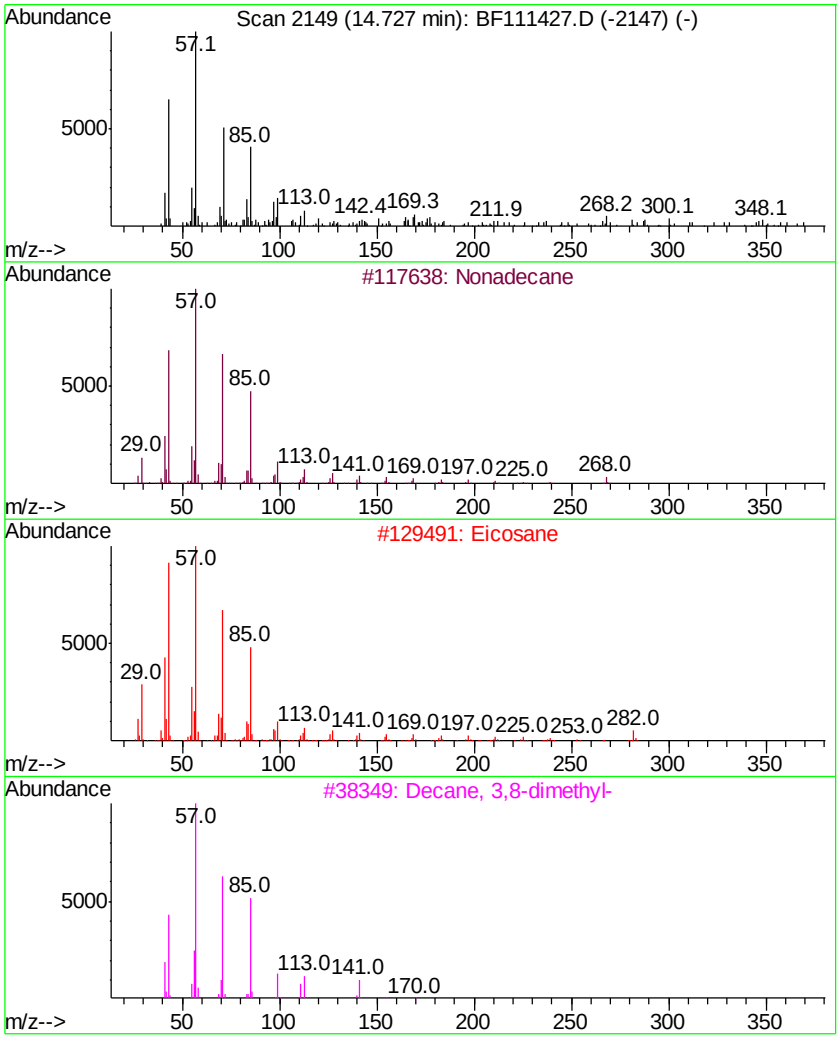
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

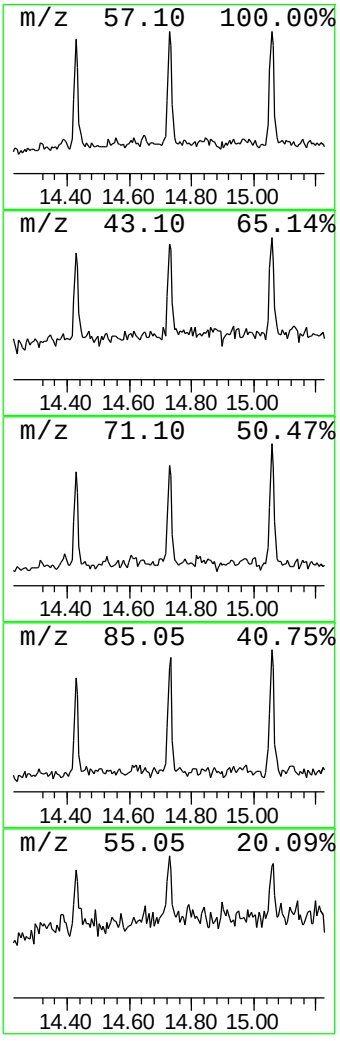
**********

Peak Number 13 Nonadecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.73 | 2.29 ng | 78457 | Perylene-d12 | 15.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 95 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 62 |
| 3 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 62 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 62 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

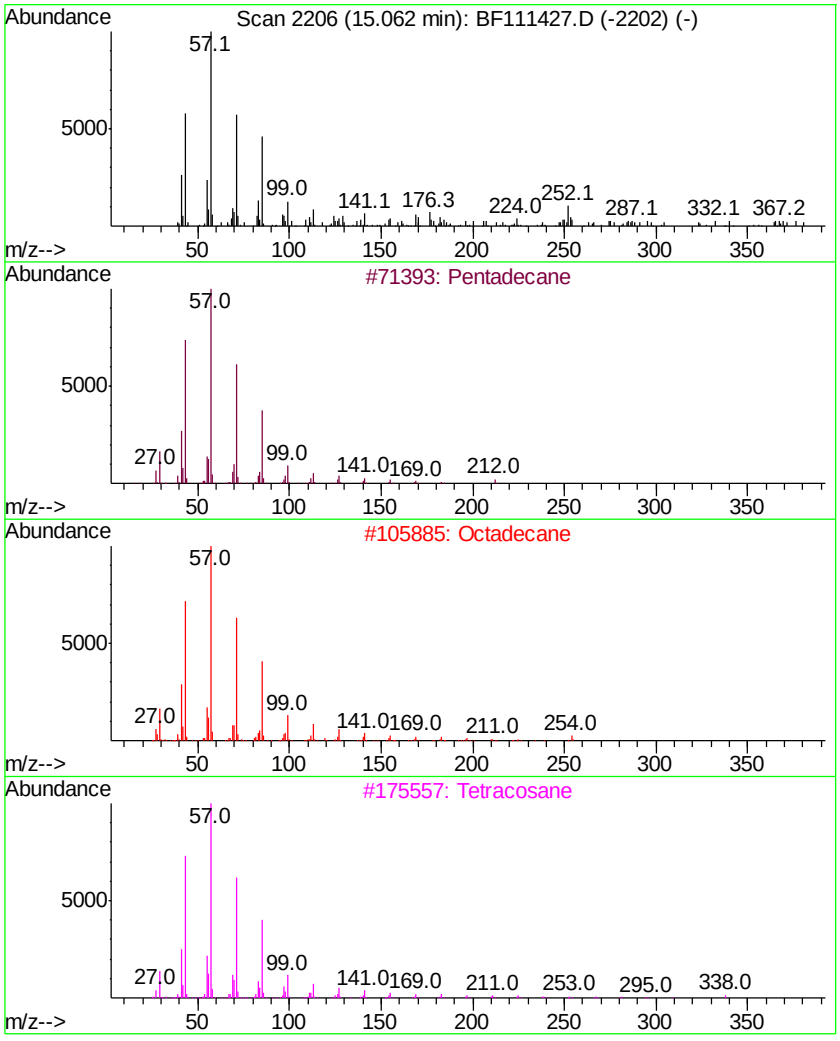
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

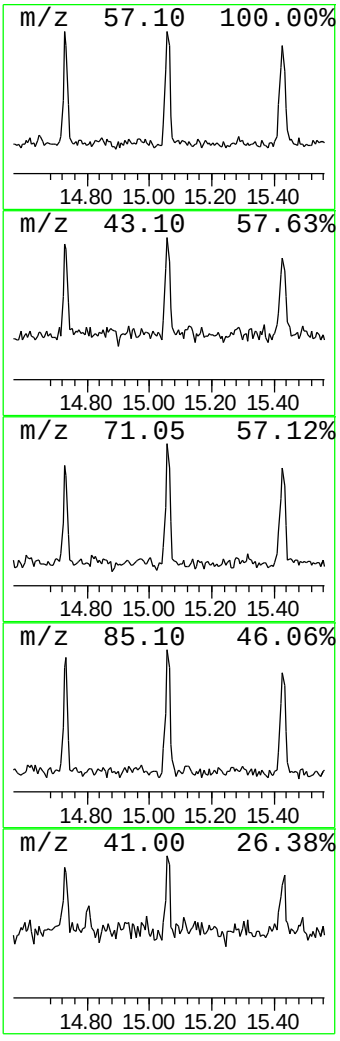
**********

Peak Number 14 Pentadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.06 | 2.52 ng | 86478 | Perylene-d12 | 15.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 92 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 74 |
| 4 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 74 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 72 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

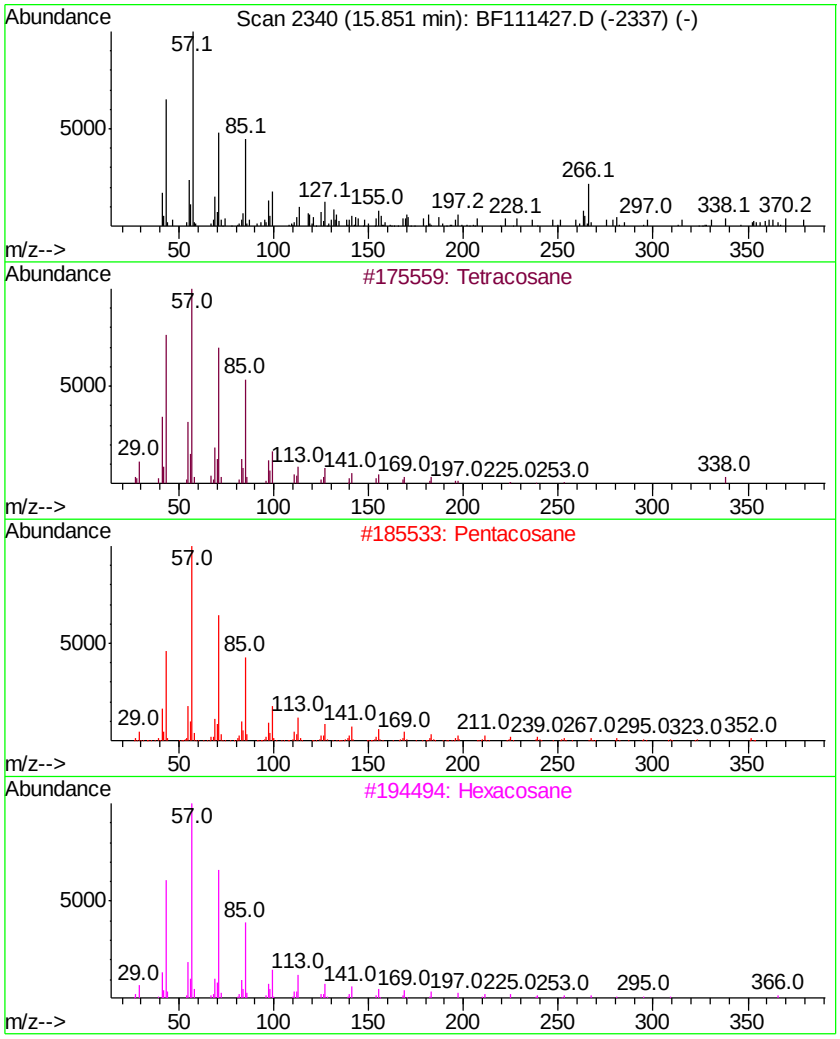
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

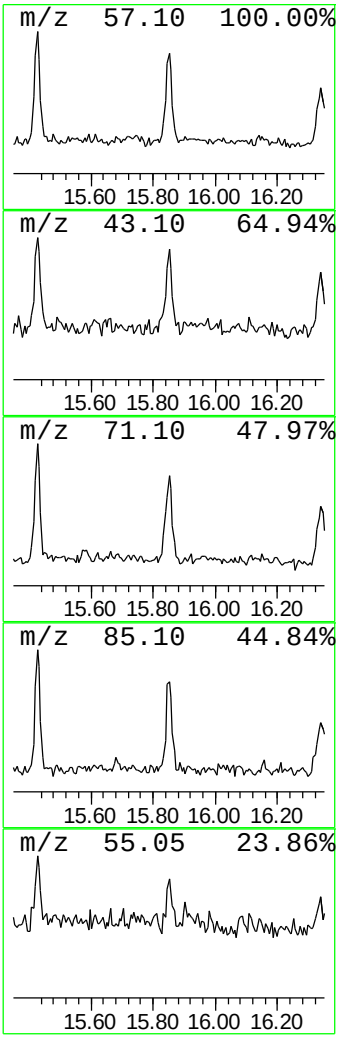
**********

Peak Number 16 Tetracosane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.85 | 2.27 ng | 77618 | Perylene-d12 | 15.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 2 | Pentacosane | 352 | C25H52 | 000629-99-2 | 91 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 53 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 53 |
| 5 | Docosane | 310 | C22H46 | 000629-97-0 | 49 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121418\
Data File : BF111427.D
Acq On : 14 Dec 2018 19:07
Operator : JU/SJ
Sample : J6376-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TEST-PIT-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 5.00 | 4.8 | ng | 231160 | 1 | 6.79 | 966838 | 20.0 |
| unknown6.57 | 6.57 | 83.8 | ng | 4051450 | 1 | 6.79 | 966838 | 20.0 |
| Phenanthrene, 2-m... | 11.84 | 5.0 | ng | 255788 | 4 | 11.31 | 1031050 | 20.0 |
| Anthracene, 1-met... | 11.92 | 3.4 | ng | 175974 | 4 | 11.31 | 1031050 | 20.0 |
| Phenanthrene, 3,6... | 12.36 | 3.3 | ng | 171551 | 4 | 11.31 | 1031050 | 20.0 |
| Phenanthrene, 2,5... | 12.40 | 2.8 | ng | 146270 | 4 | 11.31 | 1031050 | 20.0 |
| Benzene, 1,1'-(1,... | 12.62 | 2.1 | ng | 107872 | 4 | 11.31 | 1031050 | 20.0 |
| Pyrene, 1-methyl- | 12.97 | 2.0 | ng | 143393 | 5 | 13.95 | 1398020 | 20.0 |
| 11H-Benzo[b]fluorene | 13.15 | 2.2 | ng | 156282 | 5 | 13.95 | 1398020 | 20.0 |
| Oxalic acid, isob... | 13.80 | 3.4 | ng | 236653 | 5 | 13.95 | 1398020 | 20.0 |
| Nonadecane | 14.73 | 2.3 | ng | 78457 | 6 | 15.39 | 685107 | 20.0 |
| Pentadecane | 15.06 | 2.5 | ng | 86478 | 6 | 15.39 | 685107 | 20.0 |
| Tetracosane | 15.85 | 2.3 | ng | 77618 | 6 | 15.39 | 685107 | 20.0 |