LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

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-BF040319.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 | 5.287 | 540 | 544 | 576 | rBV | 2149131 | 2674112 | 83.95% | 7.351% |
| 2 | 6.328 | 717 | 721 | 737 | rBV | 2438090 | 2792221 | 87.66% | 7.676% |
| 3 | 6.445 | 737 | 741 | 758 | rVB | 2825176 | 2828275 | 88.79% | 7.775% |
| 4 | 6.675 | 776 | 780 | 791 | rBV | 707976 | 723922 | 22.73% | 1.990% |
| 5 | 6.828 | 802 | 806 | 824 | rBV | 2399140 | 2192044 | 68.81% | 6.026% |
| 6 | 7.239 | 872 | 876 | 899 | rBV | 1665174 | 1784306 | 56.01% | 4.905% |
| 7 | 7.957 | 994 | 998 | 1022 | rBV | 773120 | 978581 | 30.72% | 2.690% |
| 8 | 9.027 | 1176 | 1180 | 1192 | rBV | 3479296 | 3185419 | 100.00% | 8.756% |
| 9 | 9.427 | 1244 | 1248 | 1257 | rVB | 306963 | 316451 | 9.93% | 0.870% |
| 10 | 9.704 | 1291 | 1295 | 1299 | rBV | 1051102 | 995557 | 31.25% | 2.737% |
| 11 | 10.492 | 1425 | 1429 | 1443 | rBV | 1707256 | 1926451 | 60.48% | 5.296% |
| 12 | 11.186 | 1543 | 1547 | 1549 | rBV | 1051216 | 964666 | 30.28% | 2.652% |
| 13 | 11.210 | 1549 | 1551 | 1558 | rVV | 436790 | 448720 | 14.09% | 1.233% |
| 14 | 11.269 | 1558 | 1561 | 1569 | rVB | 83554 | 99584 | 3.13% | 0.274% |
| 15 | 11.439 | 1588 | 1590 | 1595 | rBV2 | 26412 | 35779 | 1.12% | 0.098% |
| 16 | 11.692 | 1626 | 1633 | 1635 | rBV | 67060 | 74584 | 2.34% | 0.205% |
| 17 | 11.721 | 1635 | 1638 | 1644 | rBV2 | 217039 | 344325 | 10.81% | 0.947% |
| 18 | 11.798 | 1648 | 1651 | 1654 | rVV | 96667 | 89196 | 2.80% | 0.245% |
| 19 | 11.986 | 1680 | 1683 | 1688 | rVB | 47128 | 51903 | 1.63% | 0.143% |
| 20 | 12.233 | 1722 | 1725 | 1728 | rBV | 56493 | 58987 | 1.85% | 0.162% |
| 21 | 12.274 | 1728 | 1732 | 1734 | rVV2 | 52054 | 55232 | 1.73% | 0.152% |
| 22 | 12.333 | 1738 | 1742 | 1749 | rVB2 | 36157 | 51685 | 1.62% | 0.142% |
| 23 | 12.398 | 1749 | 1753 | 1758 | rBV | 975417 | 1005164 | 31.56% | 2.763% |
| 24 | 12.521 | 1771 | 1774 | 1776 | rBV4 | 30615 | 45042 | 1.41% | 0.124% |
| 25 | 12.551 | 1776 | 1779 | 1782 | rVV | 63864 | 88507 | 2.78% | 0.243% |
| 26 | 12.621 | 1786 | 1791 | 1798 | rVV | 955303 | 1119883 | 35.16% | 3.078% |
| 27 | 12.680 | 1798 | 1801 | 1805 | rVB2 | 44320 | 58893 | 1.85% | 0.162% |
| 28 | 12.763 | 1811 | 1815 | 1824 | rVB | 2902539 | 2768464 | 86.91% | 7.610% |
| 29 | 12.839 | 1824 | 1828 | 1836 | rBV6 | 71234 | 124145 | 3.90% | 0.341% |
| 30 | 12.933 | 1840 | 1844 | 1845 | rBV2 | 61038 | 67731 | 2.13% | 0.186% |
| 31 | 12.951 | 1845 | 1847 | 1851 | rVB | 113151 | 123480 | 3.88% | 0.339% |
| 32 | 13.021 | 1857 | 1859 | 1861 | rBV | 63111 | 46004 | 1.44% | 0.126% |
| 33 | 13.057 | 1861 | 1865 | 1873 | rVB3 | 111698 | 152492 | 4.79% | 0.419% |
| 34 | 13.151 | 1878 | 1881 | 1884 | rBV | 57841 | 59849 | 1.88% | 0.165% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.186 | 1884 | 1887 | 1890 | rBV3 | 48492 | 53108 | 1.67% | 0.146% |
| 36 | 13.333 | 1908 | 1912 | 1917 | rBV6 | 45489 | 81925 | 2.57% | 0.225% |
| 37 | 13.439 | 1928 | 1930 | 1933 | rBV3 | 24665 | 33125 | 1.04% | 0.091% |
| 38 | 13.474 | 1933 | 1936 | 1939 | rVV | 72366 | 79469 | 2.49% | 0.218% |
| 39 | 13.574 | 1950 | 1953 | 1955 | rBV | 83815 | 103641 | 3.25% | 0.285% |
| 40 | 13.621 | 1959 | 1961 | 1963 | rBV | 68419 | 63807 | 2.00% | 0.175% |
| 41 | 13.680 | 1969 | 1971 | 1974 | rVB | 88639 | 73294 | 2.30% | 0.201% |
| 42 | 13.815 | 1988 | 1994 | 1997 | rBV2 | 1164937 | 1732747 | 54.40% | 4.763% |
| 43 | 13.845 | 1997 | 1999 | 2007 | rVV | 642357 | 670600 | 21.05% | 1.843% |
| 44 | 13.921 | 2010 | 2012 | 2017 | rVB | 110188 | 123027 | 3.86% | 0.338% |
| 45 | 13.980 | 2019 | 2022 | 2028 | rVV5 | 60954 | 92615 | 2.91% | 0.255% |
| 46 | 14.062 | 2034 | 2036 | 2040 | rVB2 | 45596 | 36797 | 1.16% | 0.101% |
| 47 | 14.210 | 2058 | 2061 | 2065 | rVB | 117485 | 108399 | 3.40% | 0.298% |
| 48 | 14.245 | 2065 | 2067 | 2069 | rVB2 | 47766 | 36025 | 1.13% | 0.099% |
| 49 | 14.280 | 2071 | 2073 | 2076 | rVB2 | 85341 | 75610 | 2.37% | 0.208% |
| 50 | 14.333 | 2080 | 2082 | 2084 | rBV2 | 52419 | 47391 | 1.49% | 0.130% |
| 51 | 14.533 | 2114 | 2116 | 2121 | rBV3 | 43049 | 62259 | 1.95% | 0.171% |
| 52 | 14.580 | 2121 | 2124 | 2127 | rBV2 | 74619 | 80925 | 2.54% | 0.222% |
| 53 | 14.645 | 2132 | 2135 | 2139 | rVB | 98907 | 97442 | 3.06% | 0.268% |
| 54 | 14.692 | 2140 | 2143 | 2146 | rBV | 84974 | 92034 | 2.89% | 0.253% |
| 55 | 14.833 | 2163 | 2167 | 2170 | rBV | 727140 | 966172 | 30.33% | 2.656% |
| 56 | 14.933 | 2181 | 2184 | 2189 | rBV | 131066 | 158849 | 4.99% | 0.437% |
| 57 | 15.109 | 2211 | 2214 | 2220 | rVB | 430334 | 463467 | 14.55% | 1.274% |
| 58 | 15.168 | 2220 | 2224 | 2230 | rBV | 587386 | 728229 | 22.86% | 2.002% |
| 59 | 15.227 | 2230 | 2234 | 2237 | rBV | 770489 | 915179 | 28.73% | 2.516% |
| 60 | 15.621 | 2298 | 2301 | 2307 | rBV3 | 65415 | 111347 | 3.50% | 0.306% |
| 61 | 16.592 | 2460 | 2466 | 2475 | rVB | 251528 | 477953 | 15.00% | 1.314% |
| 62 | 16.745 | 2489 | 2492 | 2497 | rVB | 60670 | 93098 | 2.92% | 0.256% |
| 63 | 16.998 | 2530 | 2535 | 2545 | rVB | 177308 | 388103 | 12.18% | 1.067% |

Sum of corrected areas: 36378291

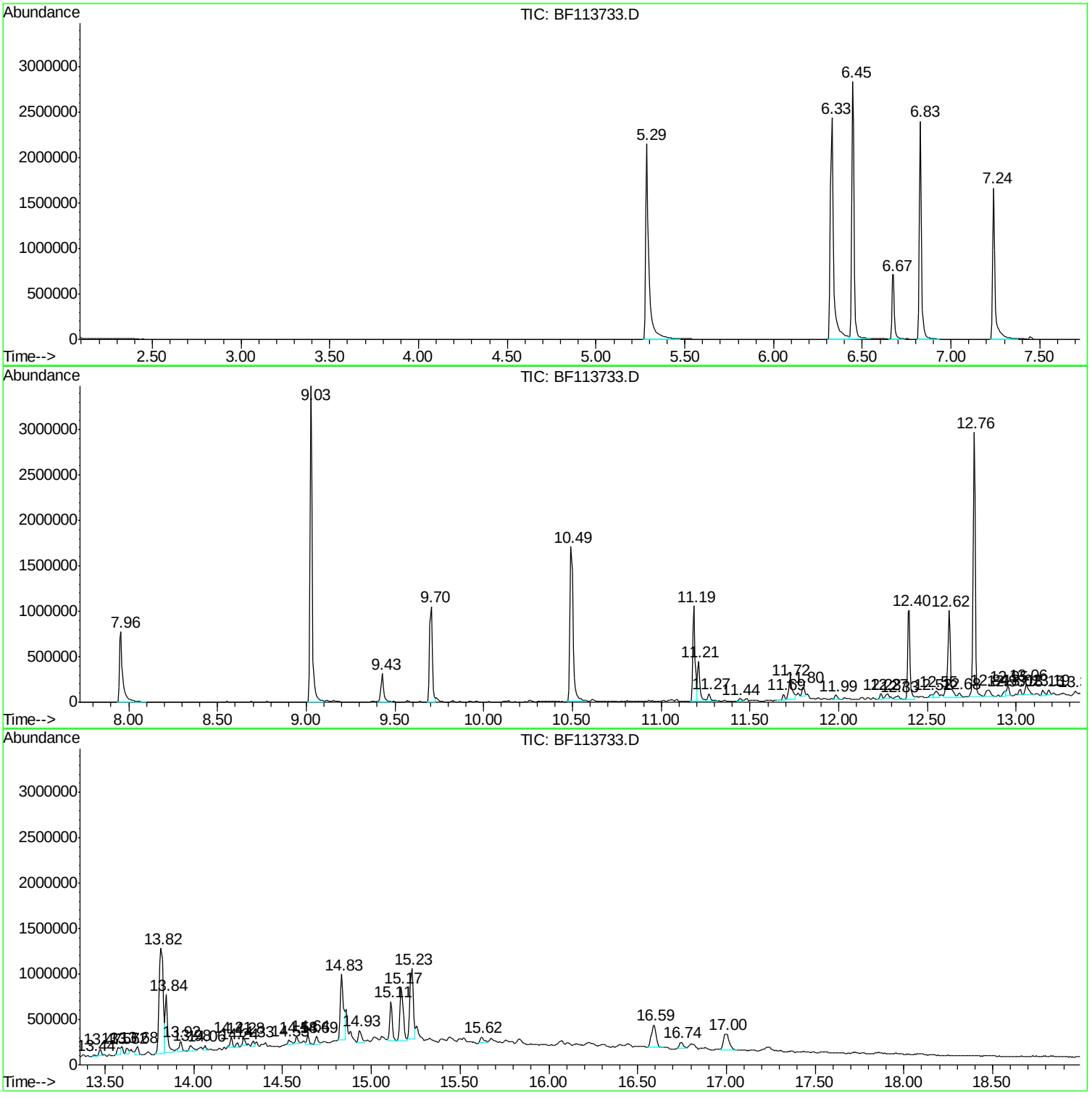
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

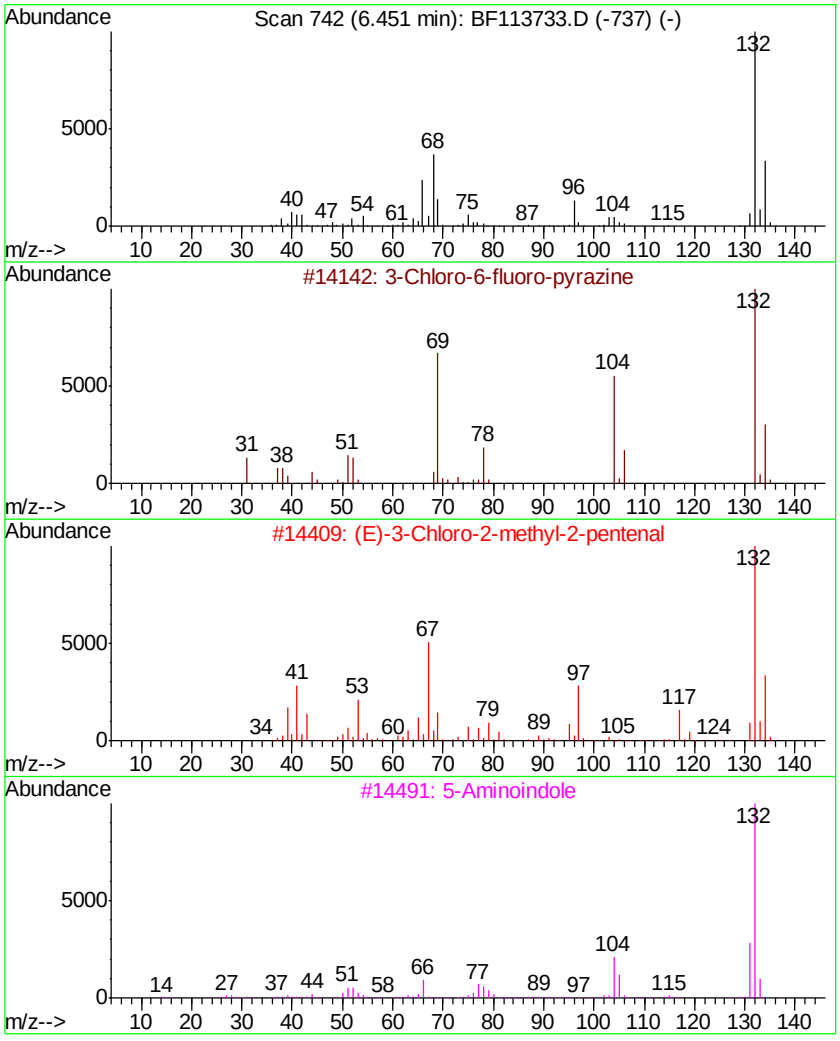
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

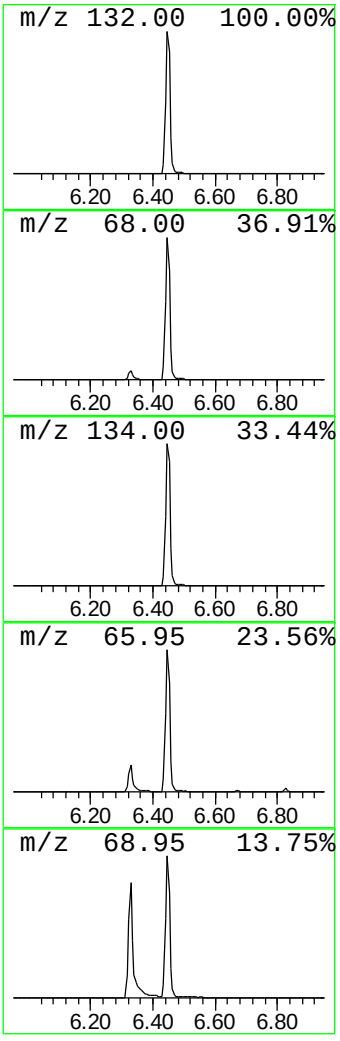
**********

Peak Number 1 unknown6.45 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.45 | 78.14 ng | 2828280 | 1,4-Dichlorobenzene-d4 | 6.67 |

| 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 | 17 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

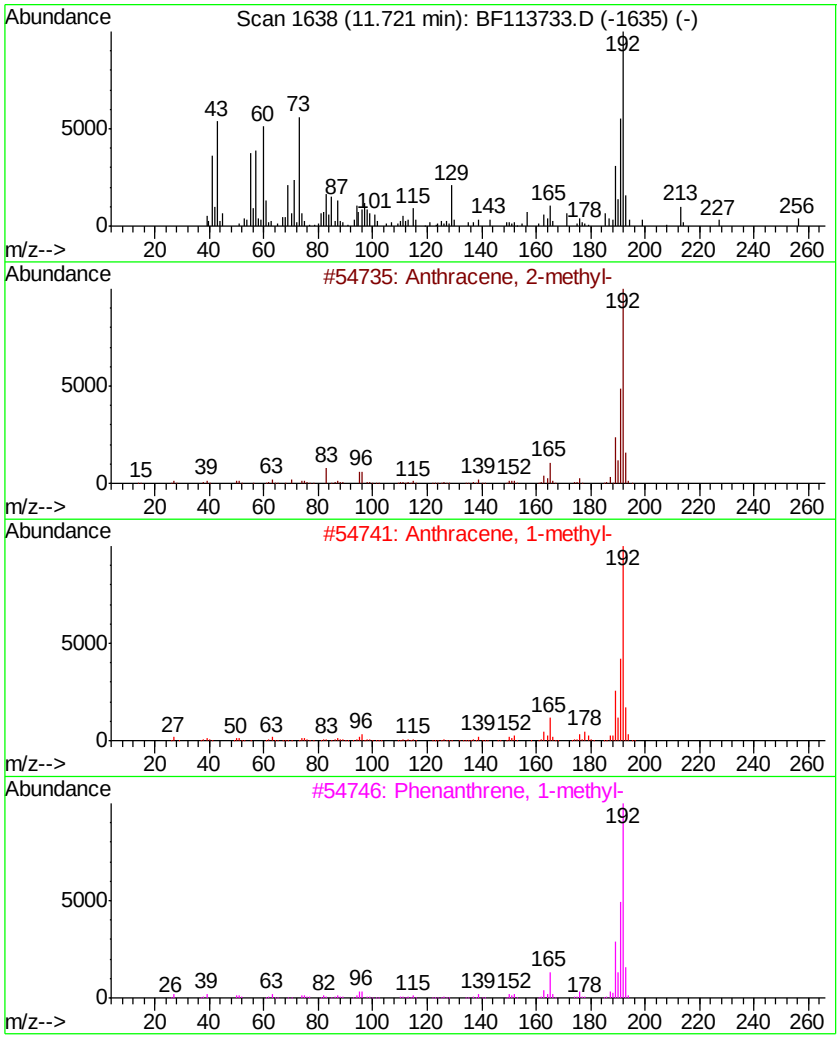
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

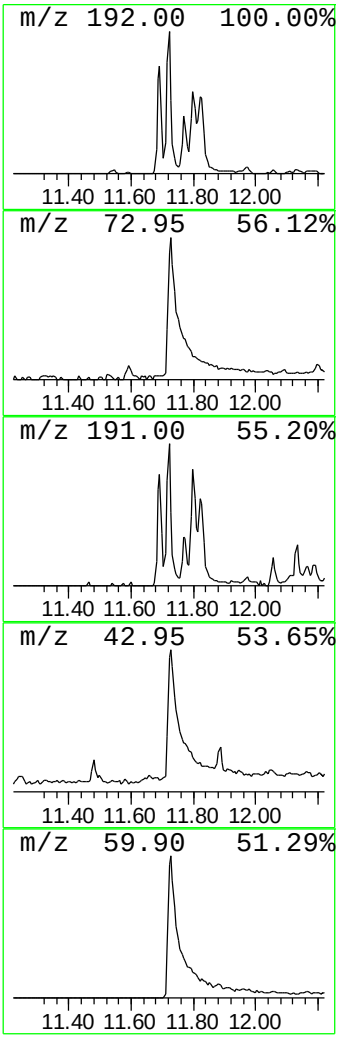
**********

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.72 | 7.14 ng | 344325 | Phenanthrene-d10 | 11.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 92 |
| 5 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

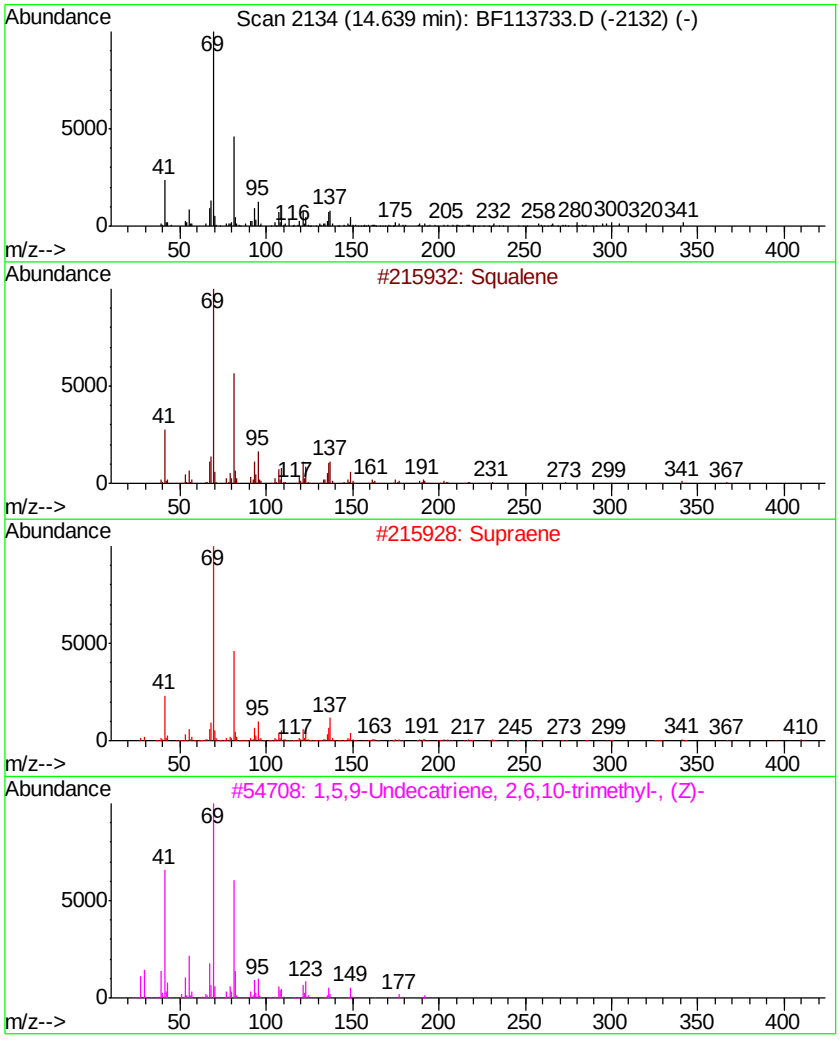
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

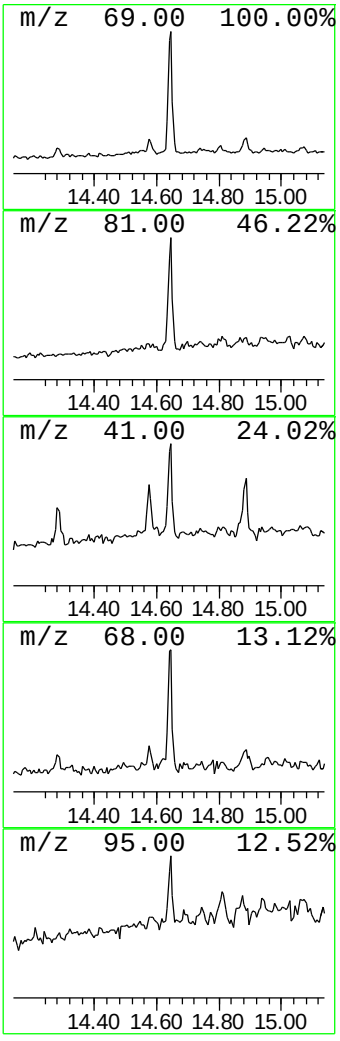
**********

Peak Number 4 Squalene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.64 | 2.13 ng | 97442 | Perylene-d12 | 15.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 000111-02-4 | 93 |
| 2 | Supraene | 410 | C30H50 | 007683-64-9 | 87 |
| 3 | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24 | 062951-96-6 | 81 |
| 4 | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4 | 72 |
| 5 | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O | 1000163-04-7 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

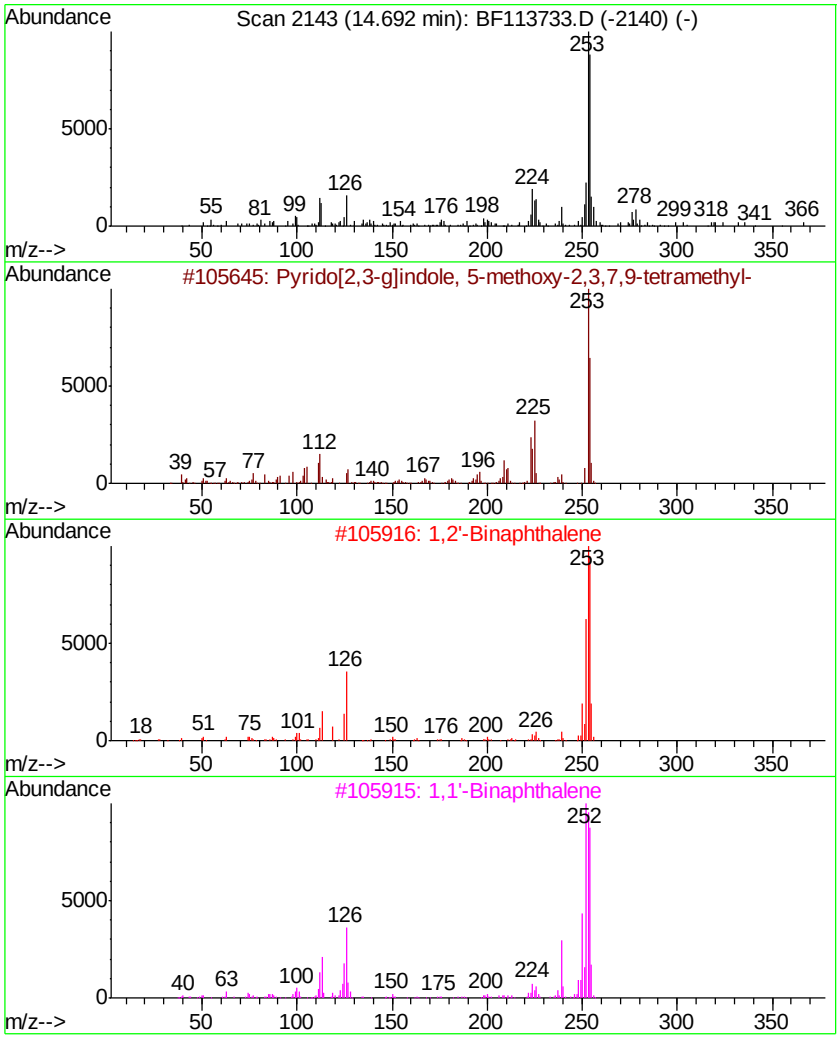
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

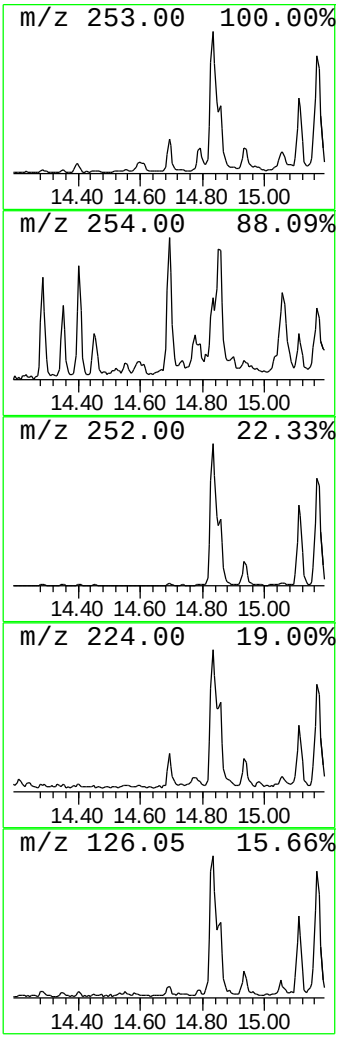
**********

Peak Number 5 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.69 | 2.01 ng | 92034 | Perylene-d12 | 15.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrido[2,3-g]indole, 5-methoxy-2... | 254 | C16H18N2O | 201991-45-9 | 72 |
| 2 | 1,2'-Binaphthalene | 254 | C20H14 | 004325-74-0 | 68 |
| 3 | 1,1'-Binaphthalene | 254 | C20H14 | 000604-53-5 | 64 |
| 4 | 9H-Fluorene, 9-(phenylmethylene)- | 254 | C20H14 | 001836-87-9 | 64 |
| 5 | 3H-Pyrrolo[3,2-f]quinoline, 5-me... | 254 | C16H18N2O | 1000350-44-1 | 64 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

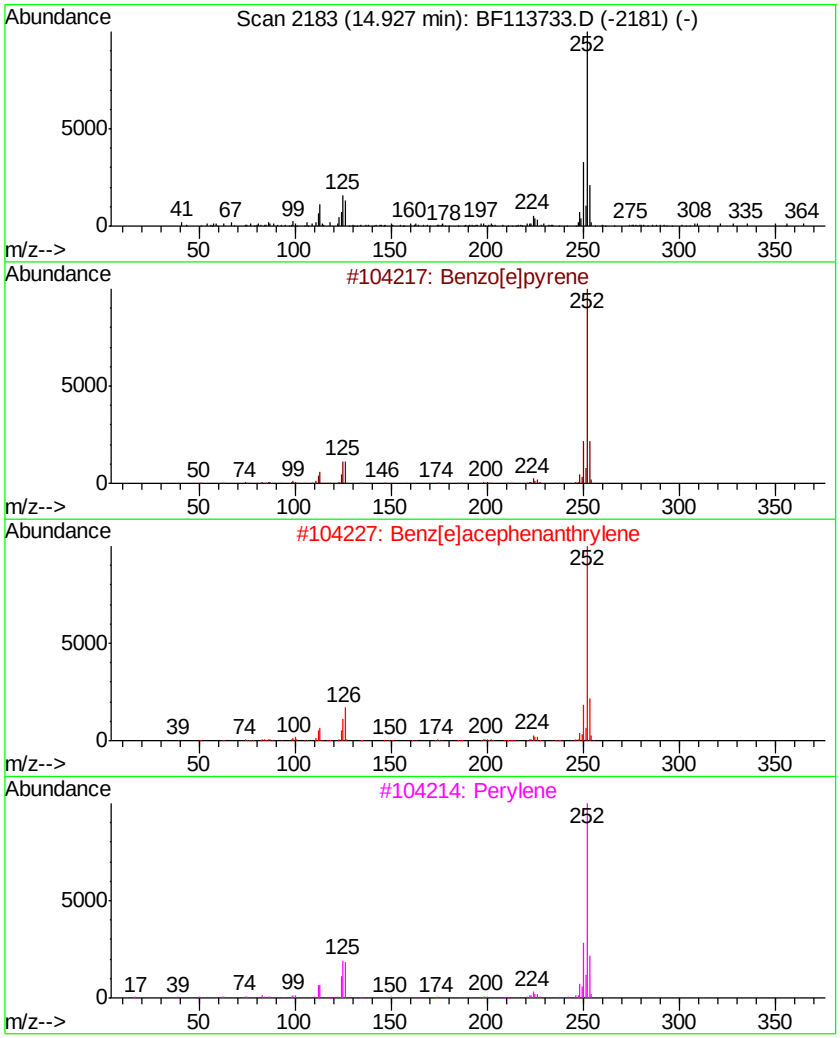
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

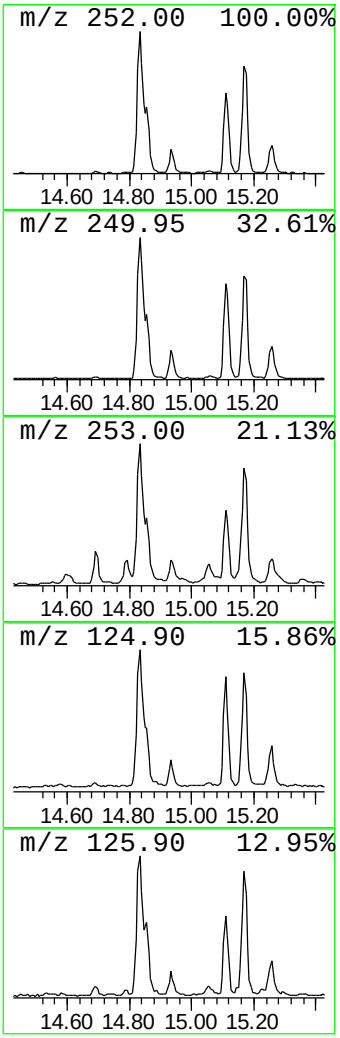
**********

Peak Number 6 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.93 | 3.47 ng | 158849 | Perylene-d12 | 15.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 95 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 94 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 89 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

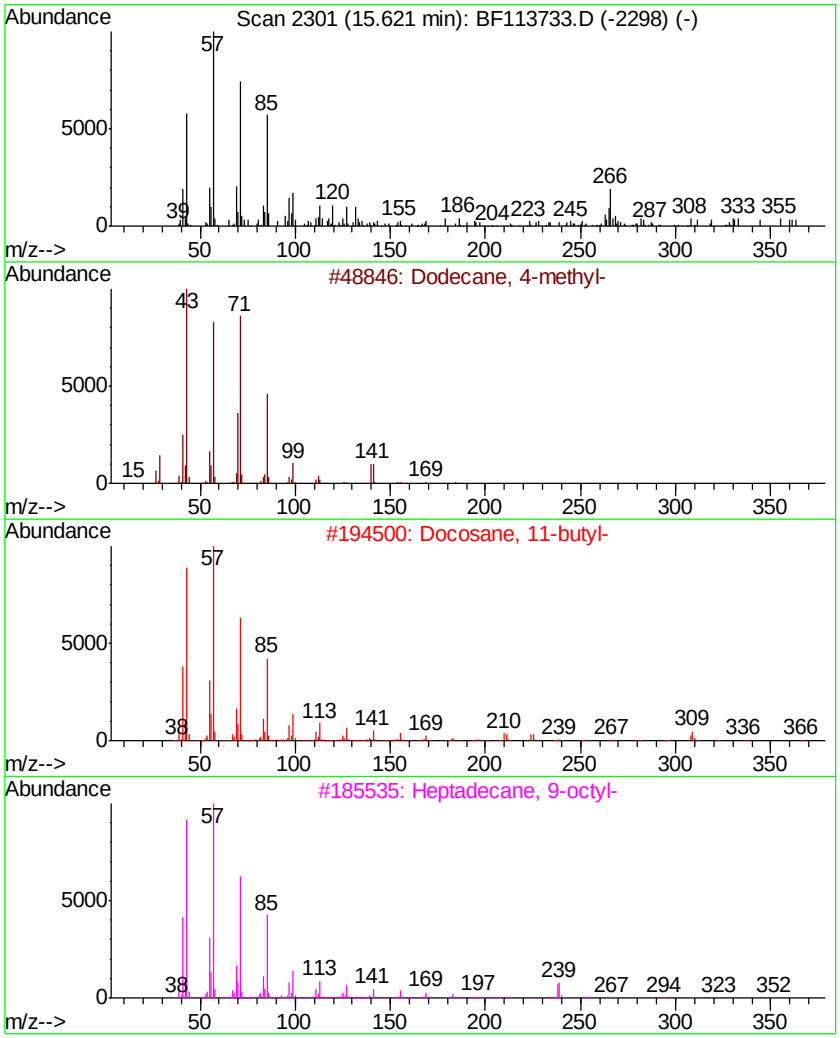
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

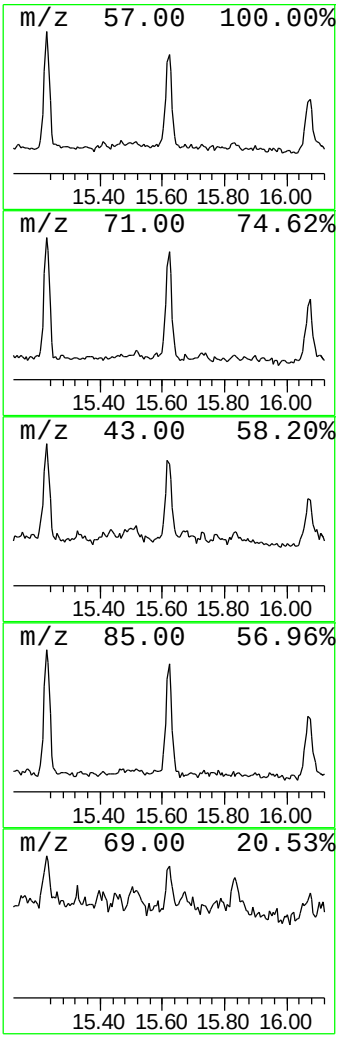
**********

Peak Number 8 Dodecane, 4-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.62 | 2.43 ng | 111347 | Perylene-d12 | 15.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 58 |
| 2 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 58 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 52 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 52 |
| 5 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 52 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

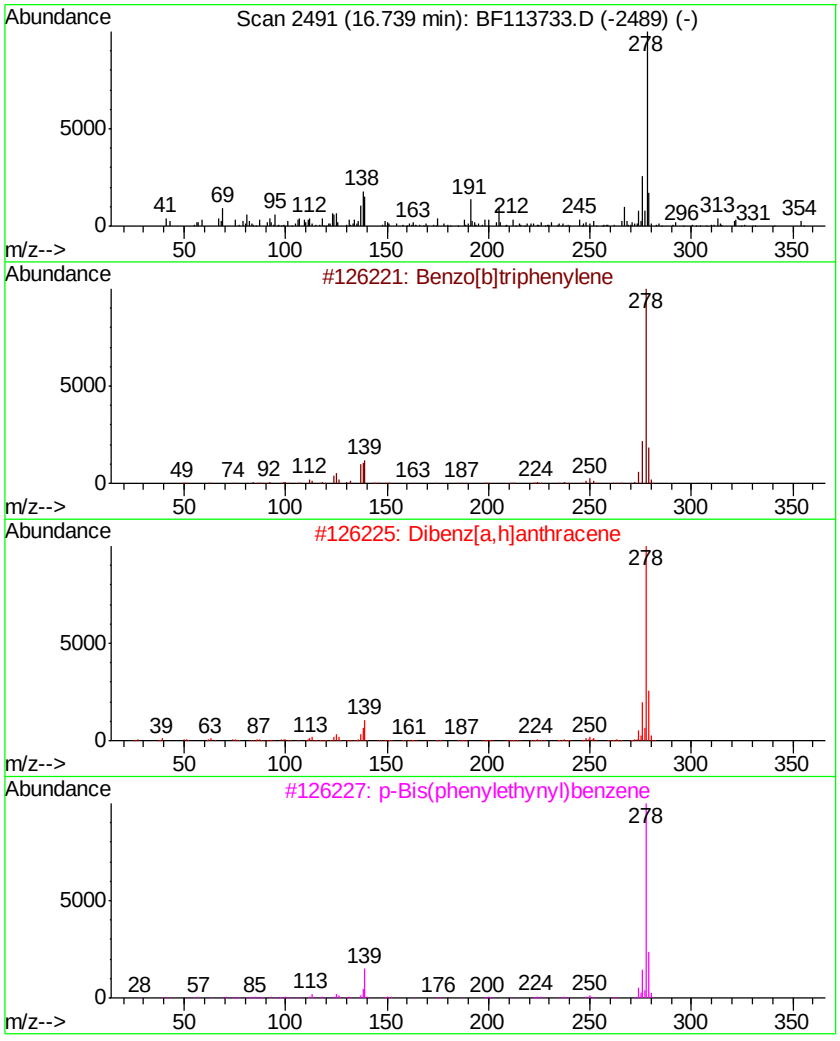
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

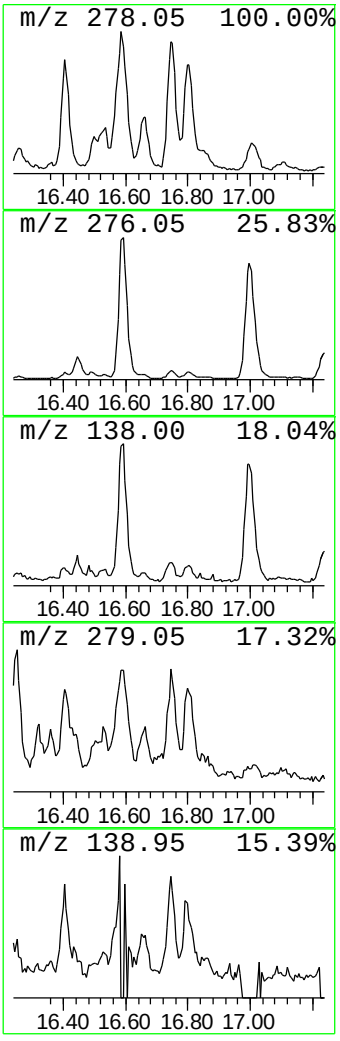
**********

Peak Number 9 Benzo[b]triphenylene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.74 | 2.03 ng | 93098 | Perylene-d12 | 15.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 90 |
| 2 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 83 |
| 3 | p-Bis(phenylethynyl)benzene | 278 | C22H14 | 001849-27-0 | 64 |
| 4 | Naphtho[1,2-a]anthracene | 278 | C22H14 | 000195-06-2 | 64 |
| 5 | Pentaphene | 278 | C22H14 | 000222-93-5 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041119\
Data File : BF113733.D
Acq On : 11 Apr 2019 21:25
Operator : JU/SJ
Sample : K2358-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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 |
| unknown6.45 | 6.45 | 78.1 | ng | 2828280 | 1 | 6.67 | 723922 | 20.0 |
| Anthracene, 2-met... | 11.72 | 7.1 | ng | 344325 | 4 | 11.19 | 964666 | 20.0 |
| Squalene | 14.64 | 2.1 | ng | 97442 | 6 | 15.23 | 915179 | 20.0 |
| Pyrido[2,3-g]indo... | 14.69 | 2.0 | ng | 92034 | 6 | 15.23 | 915179 | 20.0 |
| Benzo[e]pyrene | 14.93 | 3.5 | ng | 158849 | 6 | 15.23 | 915179 | 20.0 |
| Dodecane, 4-methyl- | 15.62 | 2.4 | ng | 111347 | 6 | 15.23 | 915179 | 20.0 |
| Benzo[b]triphenylene | 16.74 | 2.0 | ng | 93098 | 6 | 15.23 | 915179 | 20.0 |