LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-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-BF022719.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 | 5.346 | 549 | 554 | 557 | rBV | 2832414 | 2687028 | 89.97% | 7.173% |
| 2 | 6.375 | 724 | 729 | 732 | rBV | 3089248 | 2805864 | 93.94% | 7.490% |
| 3 | 6.510 | 748 | 752 | 755 | rBV | 3379300 | 2845079 | 95.26% | 7.595% |
| 4 | 6.740 | 788 | 791 | 795 | rBV | 874581 | 761919 | 25.51% | 2.034% |
| 5 | 6.898 | 814 | 818 | 822 | rBV | 2591552 | 2193972 | 73.46% | 5.857% |
| 6 | 7.298 | 882 | 886 | 889 | rBV | 1967386 | 1741723 | 58.32% | 4.650% |
| 7 | 8.022 | 1006 | 1009 | 1031 | rVB | 1062120 | 1019938 | 34.15% | 2.723% |
| 8 | 9.098 | 1188 | 1192 | 1195 | rBV | 3674541 | 2986728 | 100.00% | 7.973% |
| 9 | 9.486 | 1255 | 1258 | 1265 | rVB | 229666 | 207183 | 6.94% | 0.553% |
| 10 | 9.633 | 1279 | 1283 | 1286 | rBV | 37354 | 42638 | 1.43% | 0.114% |
| 11 | 9.769 | 1303 | 1306 | 1310 | rBV | 1122594 | 1050200 | 35.16% | 2.804% |
| 12 | 9.804 | 1310 | 1312 | 1316 | rVB | 56361 | 49616 | 1.66% | 0.132% |
| 13 | 9.975 | 1338 | 1341 | 1346 | rBV2 | 39995 | 41522 | 1.39% | 0.111% |
| 14 | 10.316 | 1396 | 1399 | 1406 | rVB | 51474 | 47917 | 1.60% | 0.128% |
| 15 | 10.551 | 1435 | 1439 | 1451 | rBV | 2094318 | 2014221 | 67.44% | 5.377% |
| 16 | 11.245 | 1554 | 1557 | 1560 | rBV | 1126926 | 1102035 | 36.90% | 2.942% |
| 17 | 11.269 | 1560 | 1561 | 1565 | rVV | 646702 | 456603 | 15.29% | 1.219% |
| 18 | 11.322 | 1565 | 1570 | 1573 | rVB | 157373 | 152503 | 5.11% | 0.407% |
| 19 | 11.475 | 1590 | 1596 | 1599 | rBV2 | 63321 | 73118 | 2.45% | 0.195% |
| 20 | 11.722 | 1631 | 1638 | 1640 | rBV4 | 27220 | 51806 | 1.73% | 0.138% |
| 21 | 11.751 | 1640 | 1643 | 1645 | rVV | 91859 | 97326 | 3.26% | 0.260% |
| 22 | 11.786 | 1645 | 1649 | 1653 | rVV2 | 726964 | 748634 | 25.07% | 1.998% |
| 23 | 11.822 | 1653 | 1655 | 1658 | rVV2 | 87837 | 92806 | 3.11% | 0.248% |
| 24 | 11.857 | 1658 | 1661 | 1664 | rVV | 151290 | 181561 | 6.08% | 0.485% |
| 25 | 11.880 | 1664 | 1665 | 1671 | rVB | 76836 | 56416 | 1.89% | 0.151% |
| 26 | 12.045 | 1690 | 1693 | 1694 | rBV | 66632 | 60703 | 2.03% | 0.162% |
| 27 | 12.063 | 1694 | 1696 | 1699 | rVB2 | 49166 | 42753 | 1.43% | 0.114% |
| 28 | 12.298 | 1732 | 1736 | 1739 | rBV | 111060 | 110752 | 3.71% | 0.296% |
| 29 | 12.333 | 1739 | 1742 | 1744 | rVV2 | 44946 | 46475 | 1.56% | 0.124% |
| 30 | 12.374 | 1747 | 1749 | 1756 | rVB2 | 64234 | 79060 | 2.65% | 0.211% |
| 31 | 12.457 | 1759 | 1763 | 1766 | rBV | 912795 | 877257 | 29.37% | 2.342% |
| 32 | 12.569 | 1779 | 1782 | 1787 | rBV | 362218 | 373776 | 12.51% | 0.998% |
| 33 | 12.680 | 1796 | 1801 | 1804 | rBV | 904990 | 893734 | 29.92% | 2.386% |
| 34 | 12.727 | 1807 | 1809 | 1816 | rVB3 | 44399 | 75453 | 2.53% | 0.201% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-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-BF022719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.804 | 1819 | 1822 | 1823 | rBV | 45297 | 43749 | 1.46% | 0.117% |
| 36 | 12.827 | 1823 | 1826 | 1830 | rVB | 2638684 | 2231882 | 74.73% | 5.958% |
| 37 | 12.904 | 1833 | 1839 | 1841 | rBV3 | 62291 | 102219 | 3.42% | 0.273% |
| 38 | 12.986 | 1850 | 1853 | 1854 | rBV2 | 49904 | 50973 | 1.71% | 0.136% |
| 39 | 13.010 | 1854 | 1857 | 1860 | rVB | 106641 | 110144 | 3.69% | 0.294% |
| 40 | 13.074 | 1865 | 1868 | 1871 | rVB2 | 86564 | 68966 | 2.31% | 0.184% |
| 41 | 13.110 | 1871 | 1874 | 1877 | rBV | 107976 | 107953 | 3.61% | 0.288% |
| 42 | 13.204 | 1887 | 1890 | 1893 | rBV2 | 51772 | 44126 | 1.48% | 0.118% |
| 43 | 13.233 | 1893 | 1895 | 1899 | rVB2 | 52348 | 50441 | 1.69% | 0.135% |
| 44 | 13.310 | 1906 | 1908 | 1916 | rVB8 | 33623 | 49747 | 1.67% | 0.133% |
| 45 | 13.416 | 1924 | 1926 | 1931 | rVB4 | 44986 | 49598 | 1.66% | 0.132% |
| 46 | 13.510 | 1939 | 1942 | 1947 | rVB | 84962 | 94115 | 3.15% | 0.251% |
| 47 | 13.621 | 1957 | 1961 | 1964 | rBV2 | 84051 | 122436 | 4.10% | 0.327% |
| 48 | 13.651 | 1964 | 1966 | 1968 | rVV | 78550 | 69891 | 2.34% | 0.187% |
| 49 | 13.674 | 1968 | 1970 | 1975 | rVV2 | 67804 | 115555 | 3.87% | 0.308% |
| 50 | 13.733 | 1975 | 1980 | 1986 | rVB2 | 356803 | 441884 | 14.79% | 1.180% |
| 51 | 13.869 | 1996 | 2003 | 2006 | rBV2 | 1233980 | 1545391 | 51.74% | 4.125% |
| 52 | 13.898 | 2006 | 2008 | 2010 | rVB | 389774 | 301550 | 10.10% | 0.805% |
| 53 | 13.974 | 2019 | 2021 | 2024 | rVB | 55367 | 46804 | 1.57% | 0.125% |
| 54 | 14.057 | 2032 | 2035 | 2038 | rVB | 100203 | 89810 | 3.01% | 0.240% |
| 55 | 14.092 | 2038 | 2041 | 2045 | rVB3 | 39241 | 47899 | 1.60% | 0.128% |
| 56 | 14.221 | 2061 | 2063 | 2065 | rBV2 | 39040 | 35631 | 1.19% | 0.095% |
| 57 | 14.257 | 2065 | 2069 | 2072 | rVV2 | 111516 | 134044 | 4.49% | 0.358% |
| 58 | 14.292 | 2072 | 2075 | 2078 | rVB2 | 64838 | 64527 | 2.16% | 0.172% |
| 59 | 14.363 | 2083 | 2087 | 2092 | rVV3 | 149572 | 204826 | 6.86% | 0.547% |
| 60 | 14.557 | 2117 | 2120 | 2122 | rBV2 | 41078 | 49226 | 1.65% | 0.131% |
| 61 | 14.657 | 2134 | 2137 | 2143 | rVB2 | 133604 | 158703 | 5.31% | 0.424% |
| 62 | 14.792 | 2157 | 2160 | 2164 | rBV | 327733 | 317979 | 10.65% | 0.849% |
| 63 | 14.880 | 2171 | 2175 | 2178 | rBV | 449860 | 655114 | 21.93% | 1.749% |
| 64 | 14.998 | 2188 | 2195 | 2203 | rVB2 | 618751 | 1000474 | 33.50% | 2.671% |
| 65 | 15.163 | 2220 | 2223 | 2229 | rVB | 268803 | 325435 | 10.90% | 0.869% |
| 66 | 15.221 | 2229 | 2233 | 2238 | rBV | 390536 | 452109 | 15.14% | 1.207% |
| 67 | 15.280 | 2239 | 2243 | 2247 | rVV | 714026 | 870873 | 29.16% | 2.325% |
| 68 | 15.333 | 2250 | 2252 | 2259 | rVB | 159571 | 189618 | 6.35% | 0.506% |
| 69 | 15.745 | 2317 | 2322 | 2325 | rBV | 195889 | 291450 | 9.76% | 0.778% |
| 70 | 15.786 | 2325 | 2329 | 2338 | rVB4 | 122959 | 243163 | 8.14% | 0.649% |
| 71 | 16.215 | 2399 | 2402 | 2408 | rVB4 | 77942 | 117287 | 3.93% | 0.313% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-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-BF022719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.639 | 2469 | 2474 | 2480 | rVB2 | 146266 | 252828 | 8.47% | 0.675% |
| 73 | 17.045 | 2539 | 2543 | 2557 | rVB | 111159 | 243194 | 8.14% | 0.649% |

Sum of corrected areas: 37459933

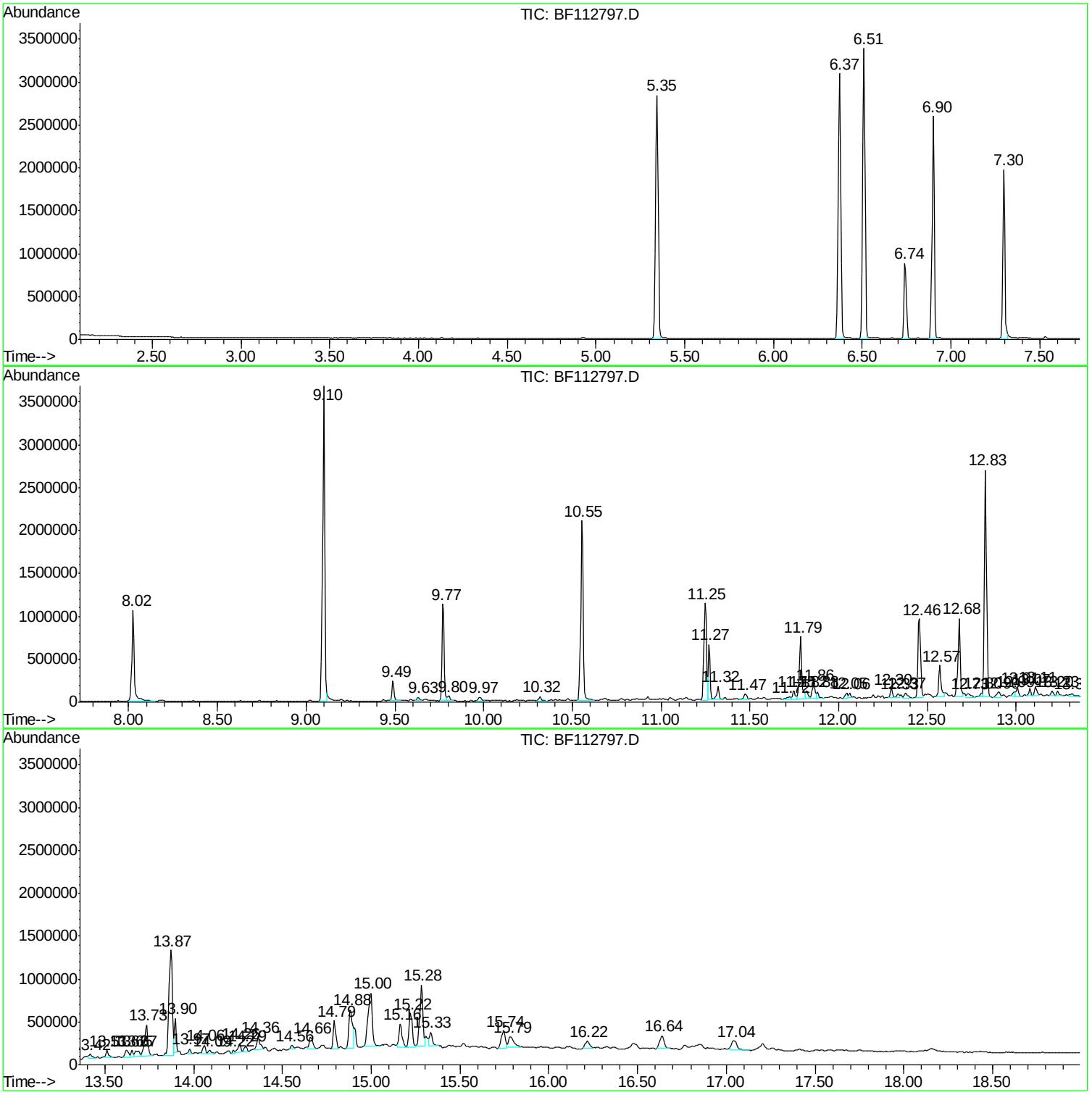
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

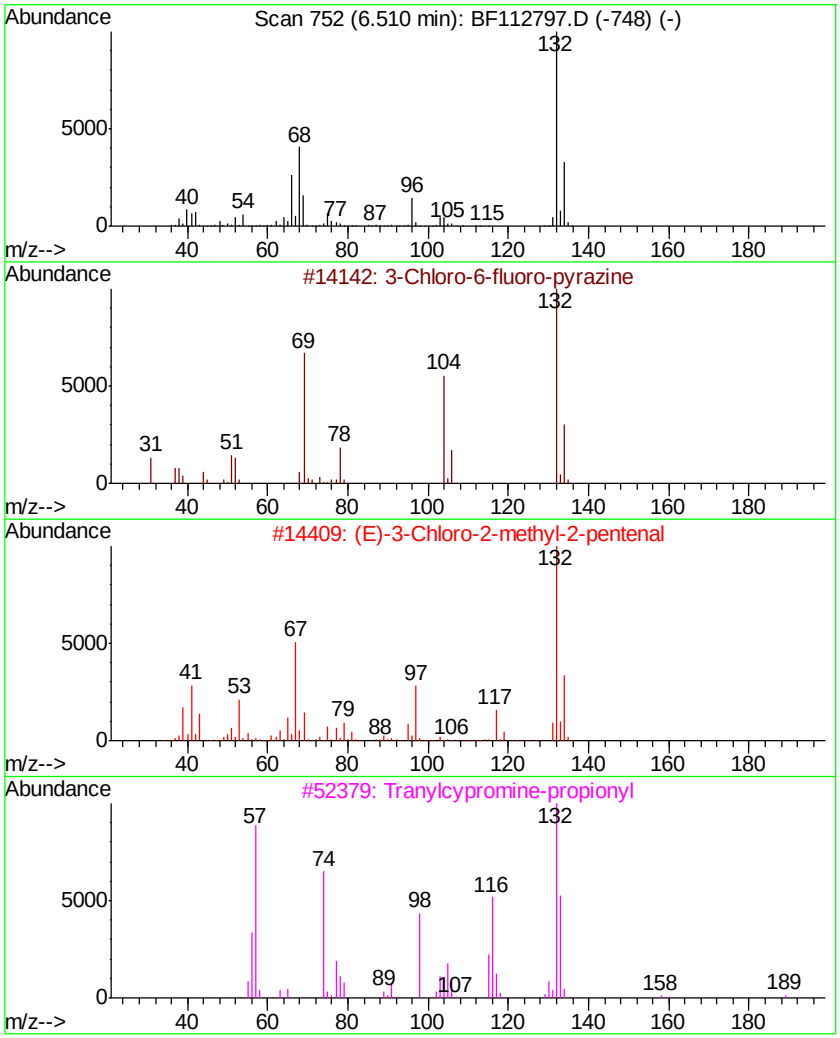
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

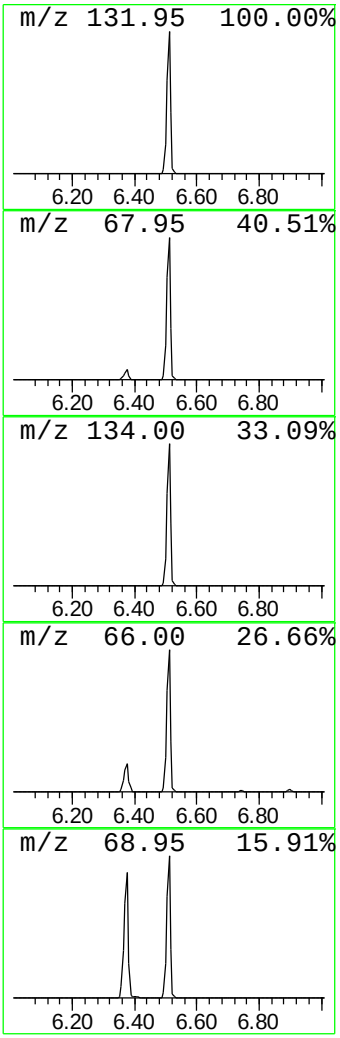
**********

Peak Number 1 unknown6.51 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.51 | 74.68 ng | 2845080 | 1,4-Dichlorobenzene-d4 | 6.74 |

| 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 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

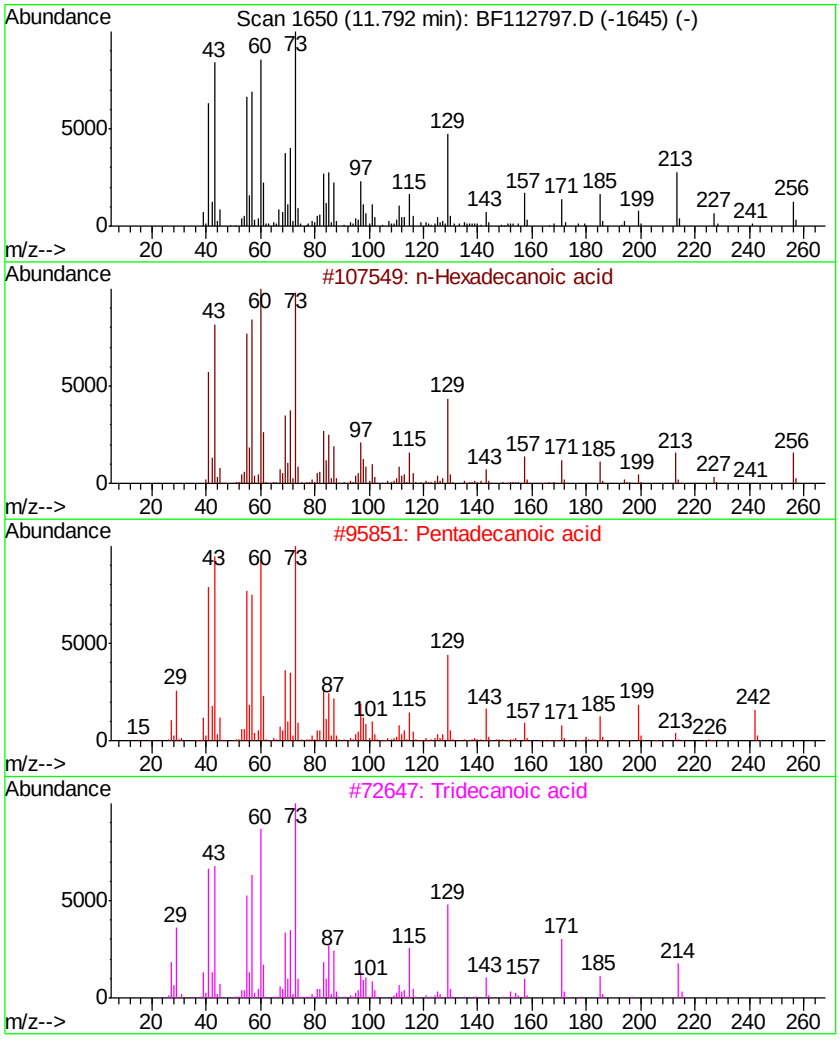
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

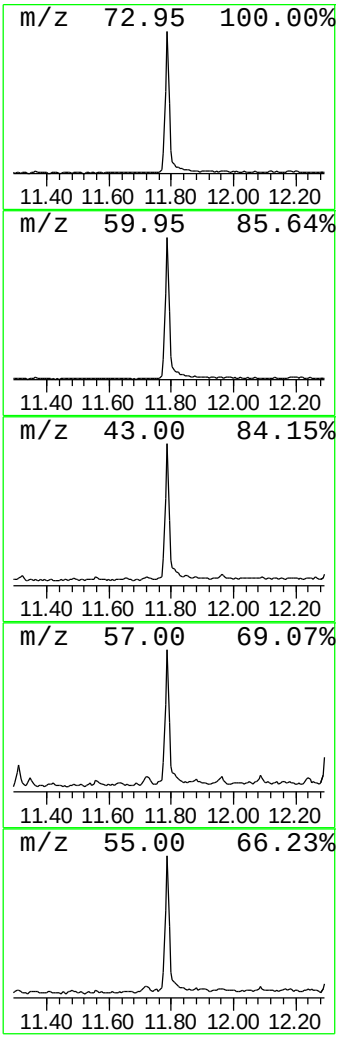
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.79 | 13.59 ng | 748634 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 91 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 89 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 59 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

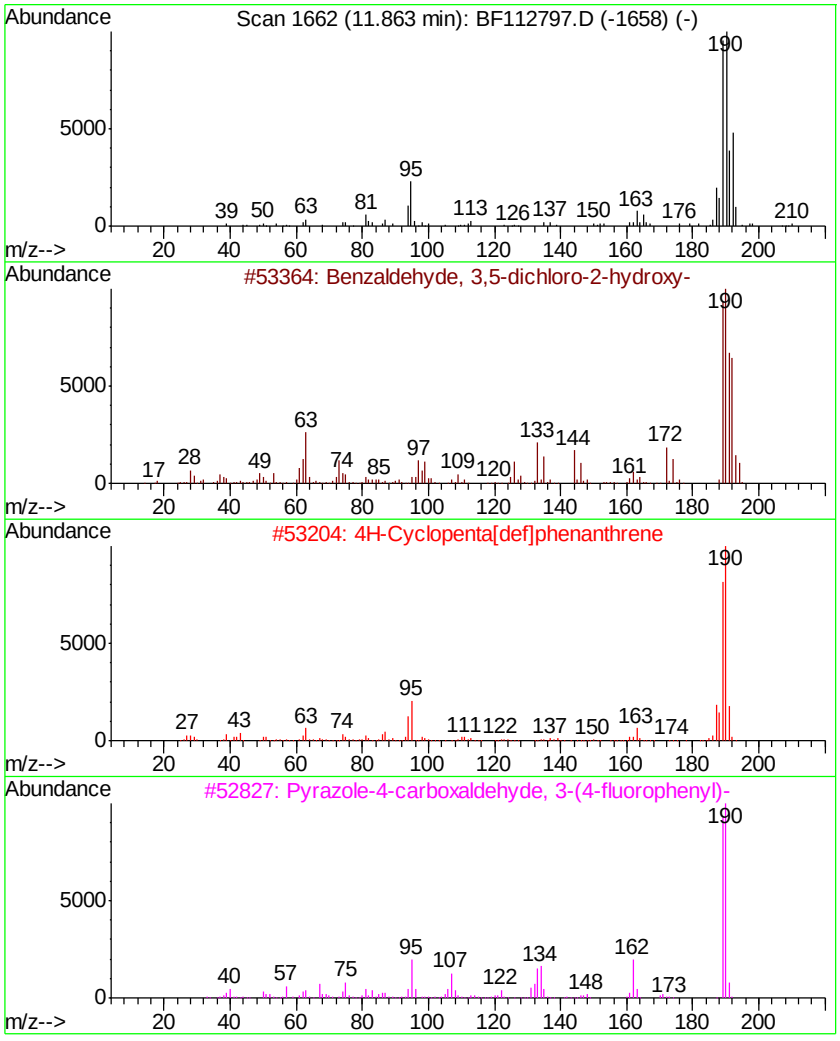
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

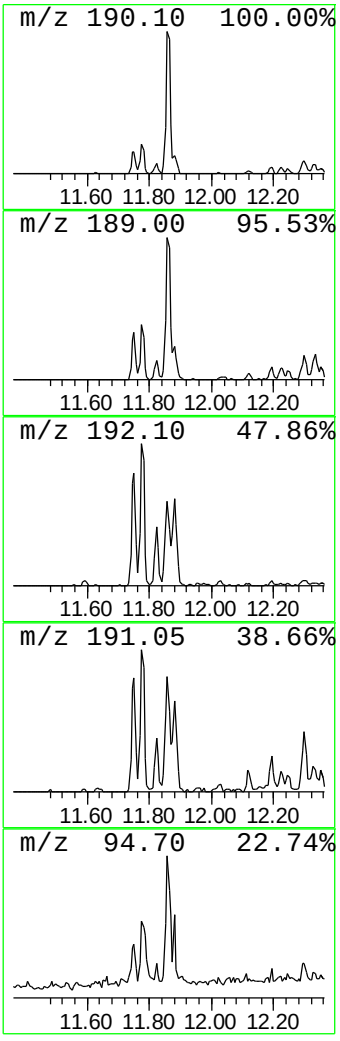
**********

Peak Number 4 Benzaldehyde, 3,5-dichloro-... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 3.30 ng | 181561 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 3 | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O | 306936-57-2 | 46 |
| 4 | Naphtho[1,2-b]norbornadiene | 192 | C15H12 | 1000210-14-8 | 42 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

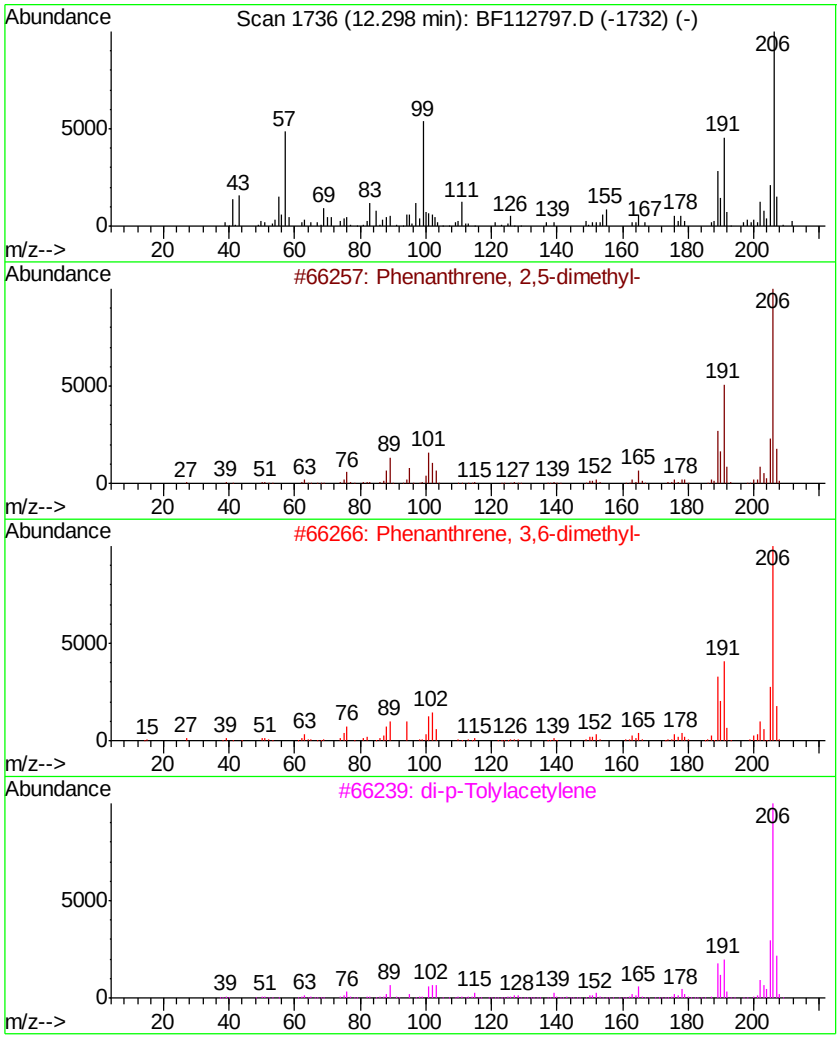
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

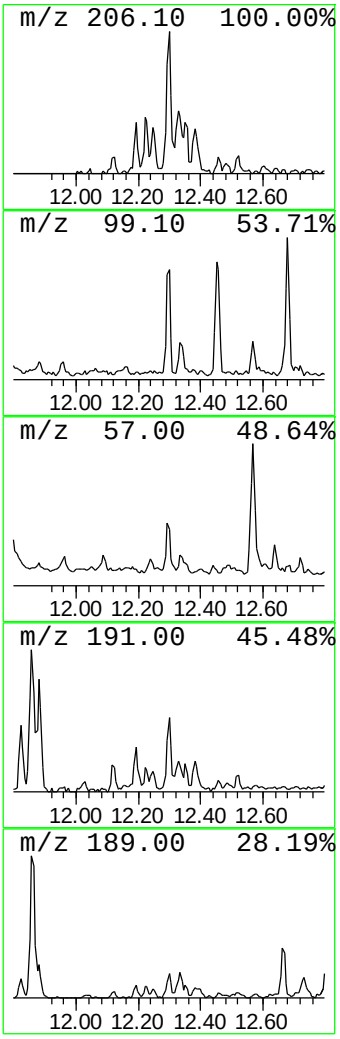
**********

Peak Number 5 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 2.01 ng | 110752 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 3 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 91 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 86 |
| 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

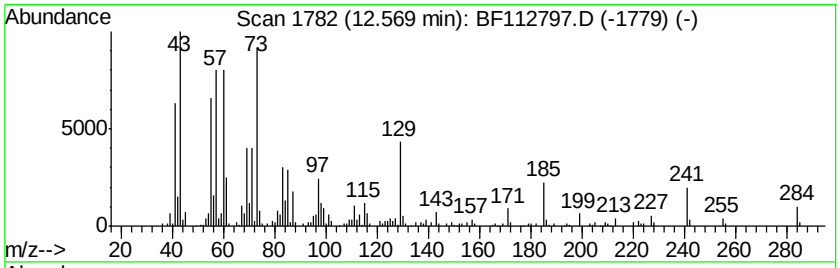
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

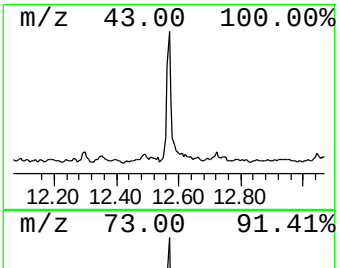
**********

Peak Number 6 Octadecanoic acid Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.57 | 4.84 ng | 373776 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 93 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 87 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 81 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

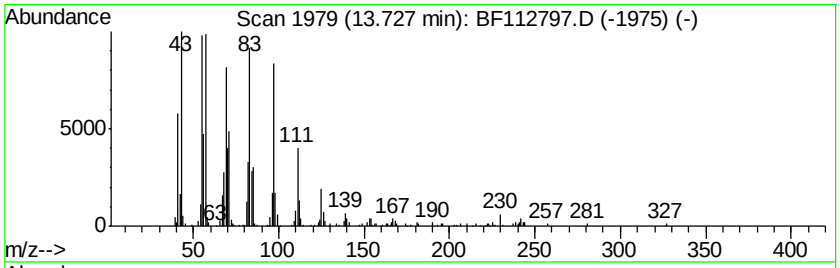
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

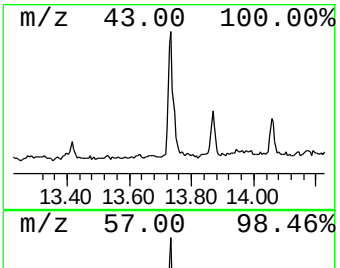
**********

Peak Number 7 1-Heneicosanol Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 5.72 ng | 441884 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 95 |
| 2 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 94 |
| 3 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |
| 4 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 94 |
| 5 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 94 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

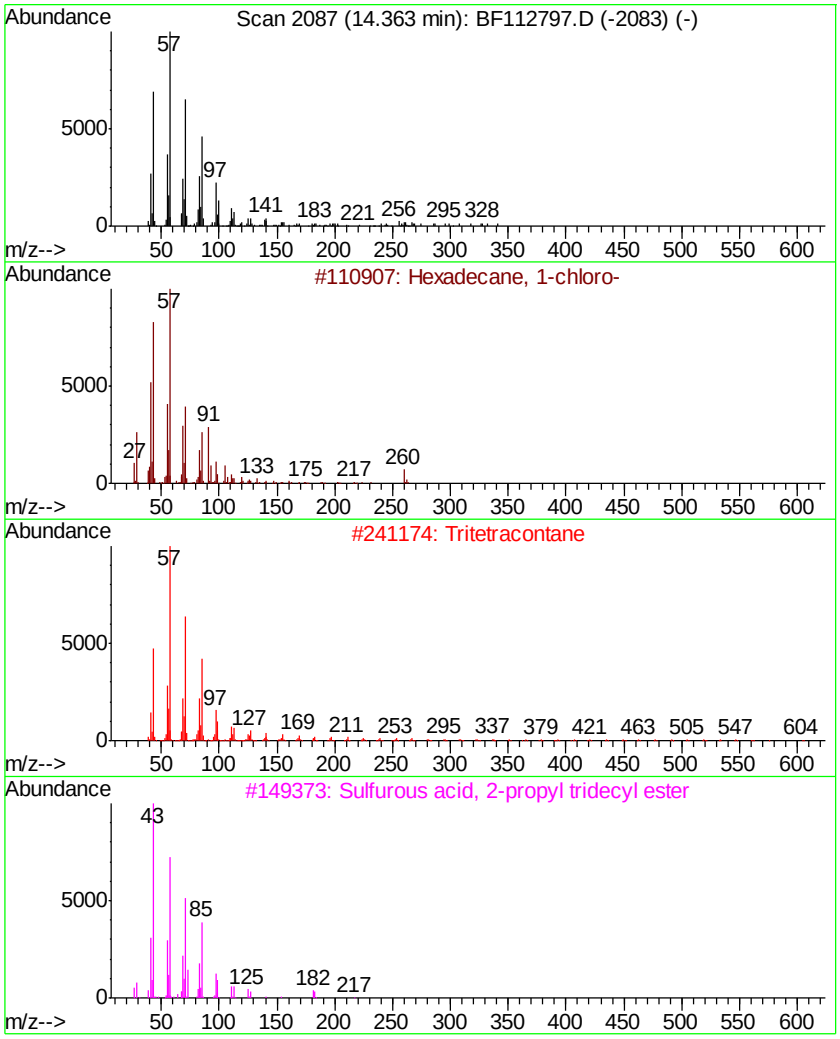
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

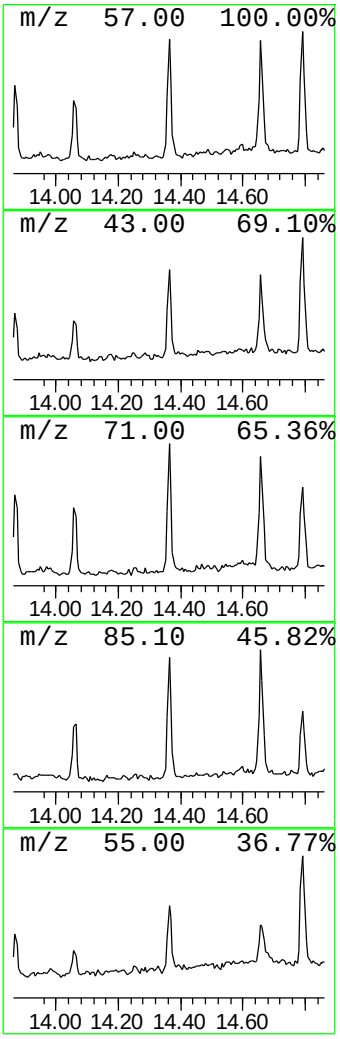
**********

Peak Number 8 Hexadecane, 1-chloro- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.36 | 2.65 ng | 204826 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 1-chloro- | 260 | C16H33Cl | 004860-03-1 | 94 |
| 2 | Tritetracontane | 605 | C43H88 | 007098-21-7 | 91 |
| 3 | Sulfurous acid, 2-propyl tridecy... | 306 | C16H34O3S | 1000309-12-4 | 91 |
| 4 | Octadecane, 1-chloro- | 288 | C18H37Cl | 003386-33-2 | 91 |
| 5 | Sulfurous acid, pentadecyl 2-pro... | 334 | C18H38O3S | 1000309-12-6 | 90 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

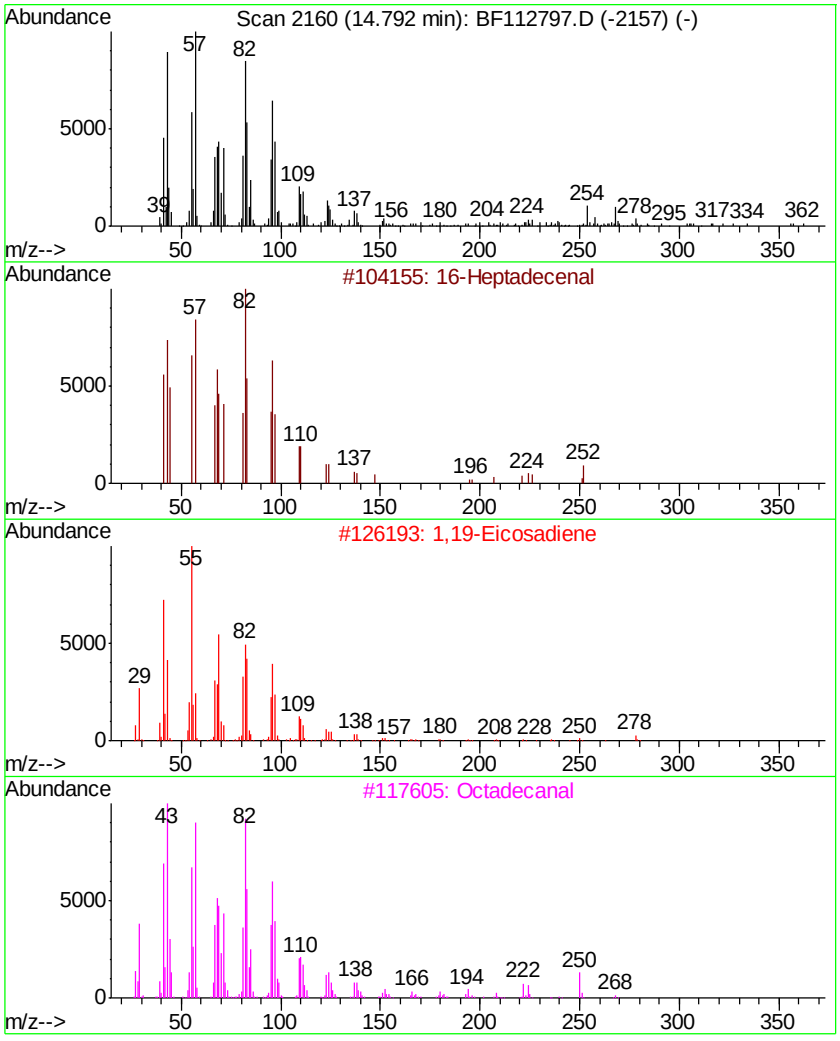
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

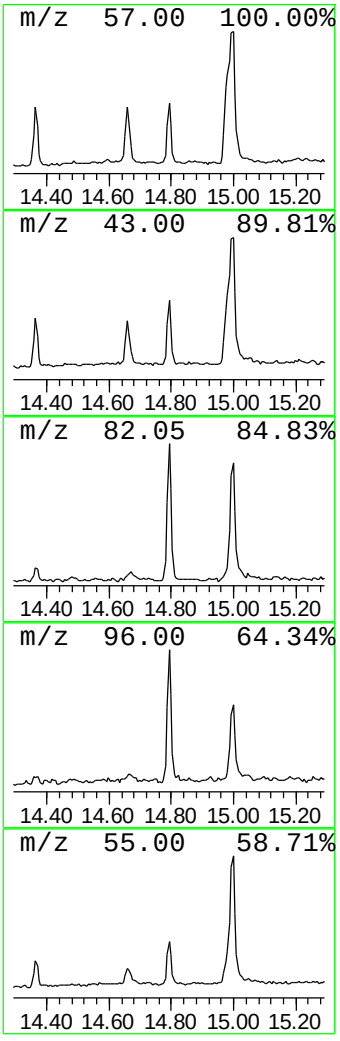
**********

Peak Number 10 16-Heptadecenal Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.79 | 7.30 ng | 317979 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 16-Heptadecenal | 252 | C17H32O | 1000144-57-9 | 95 |
| 2 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 93 |
| 3 | Octadecanal | 268 | C18H36O | 000638-66-4 | 91 |
| 4 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 90 |
| 5 | Tetracosanal | 352 | C24H48O | 057866-08-7 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

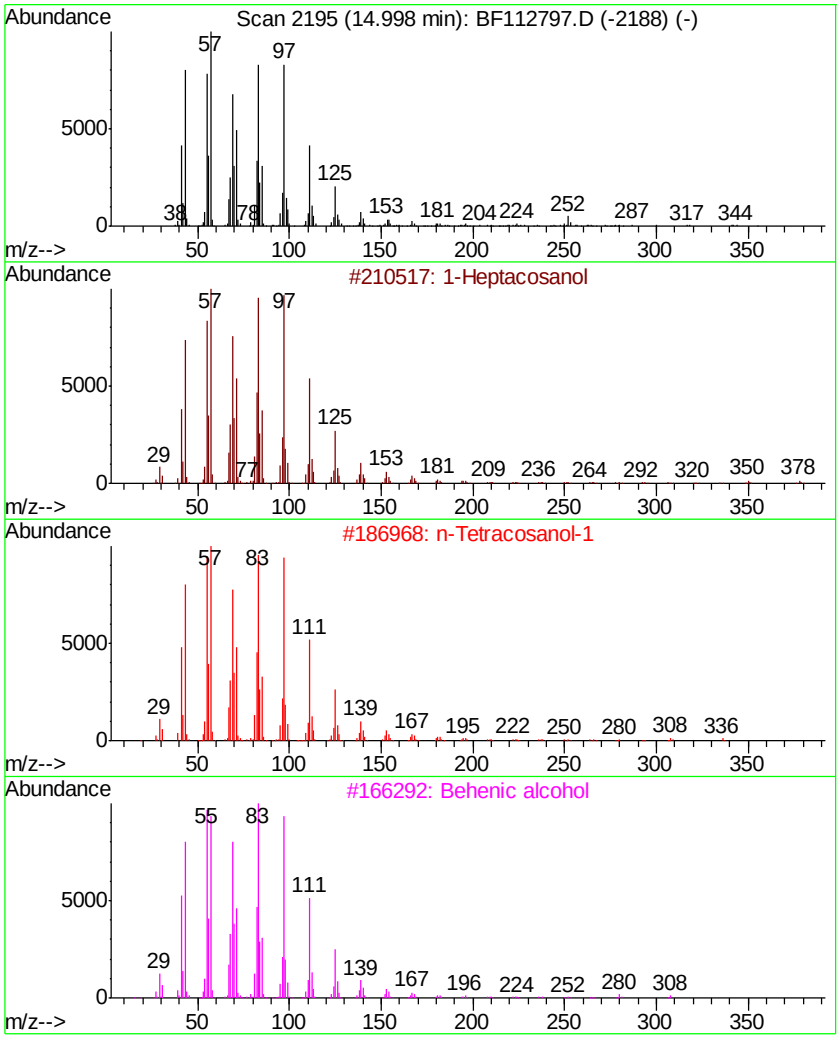
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

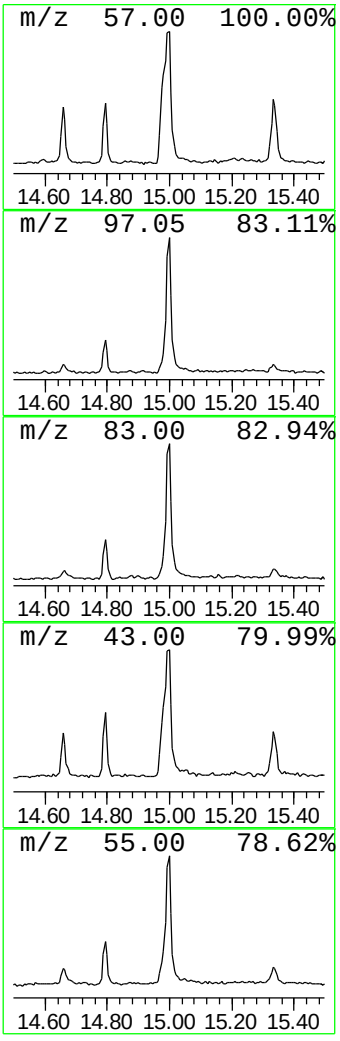
**********

Peak Number 11 1-Heptacosanol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.00 | 22.98 ng | 1000470 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 95 |
| 2 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 95 |
| 3 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 94 |
| 4 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 959218-78-1 | 94 |
| 5 | Octadecyl trifluoroacetate | 366 | C20H37F3O2 | 079392-43-1 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

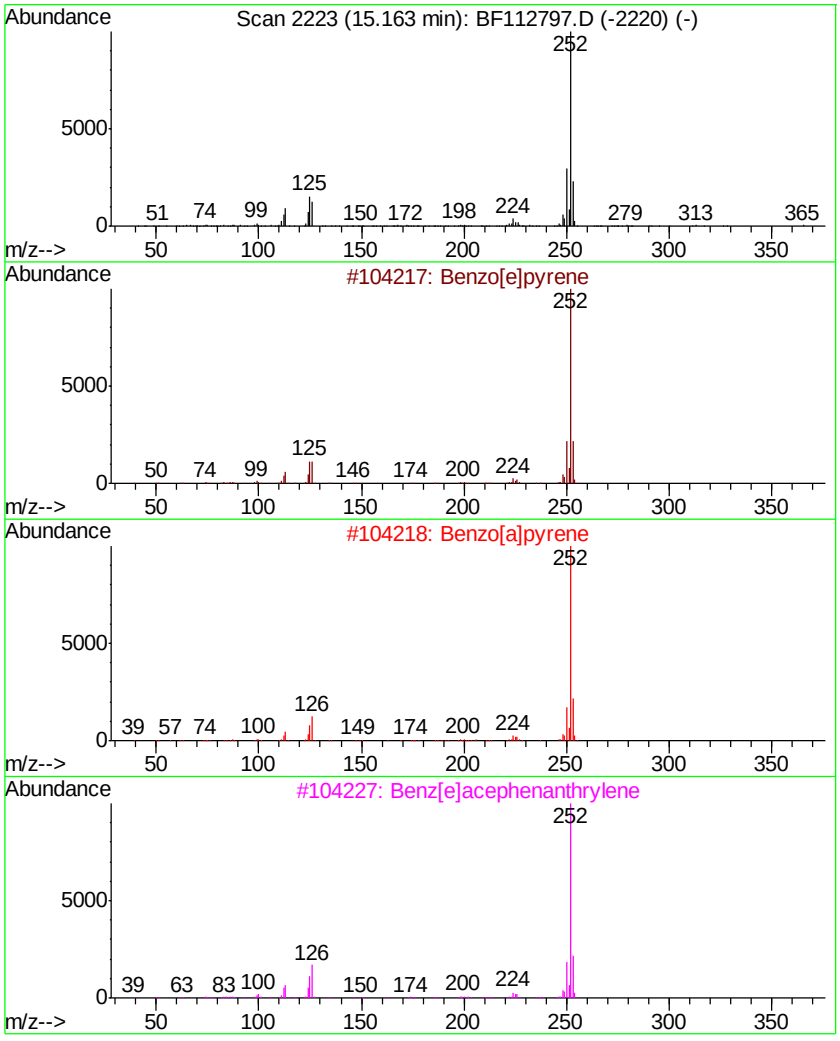
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

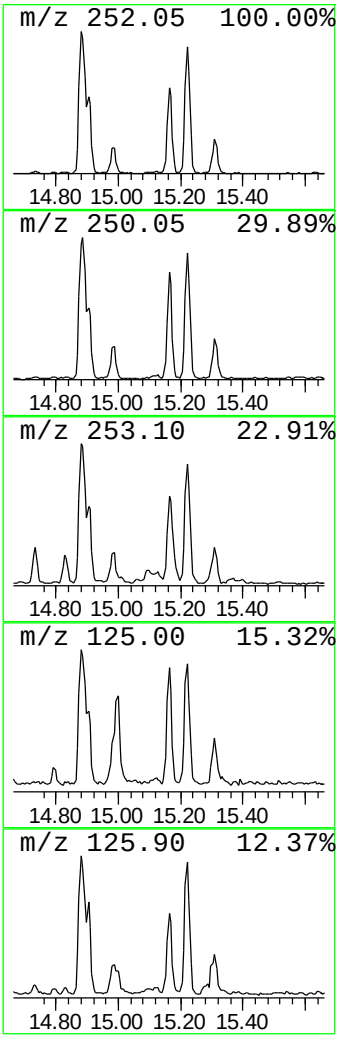
**********

Peak Number 12 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.16 | 7.47 ng | 325435 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 95 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 94 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

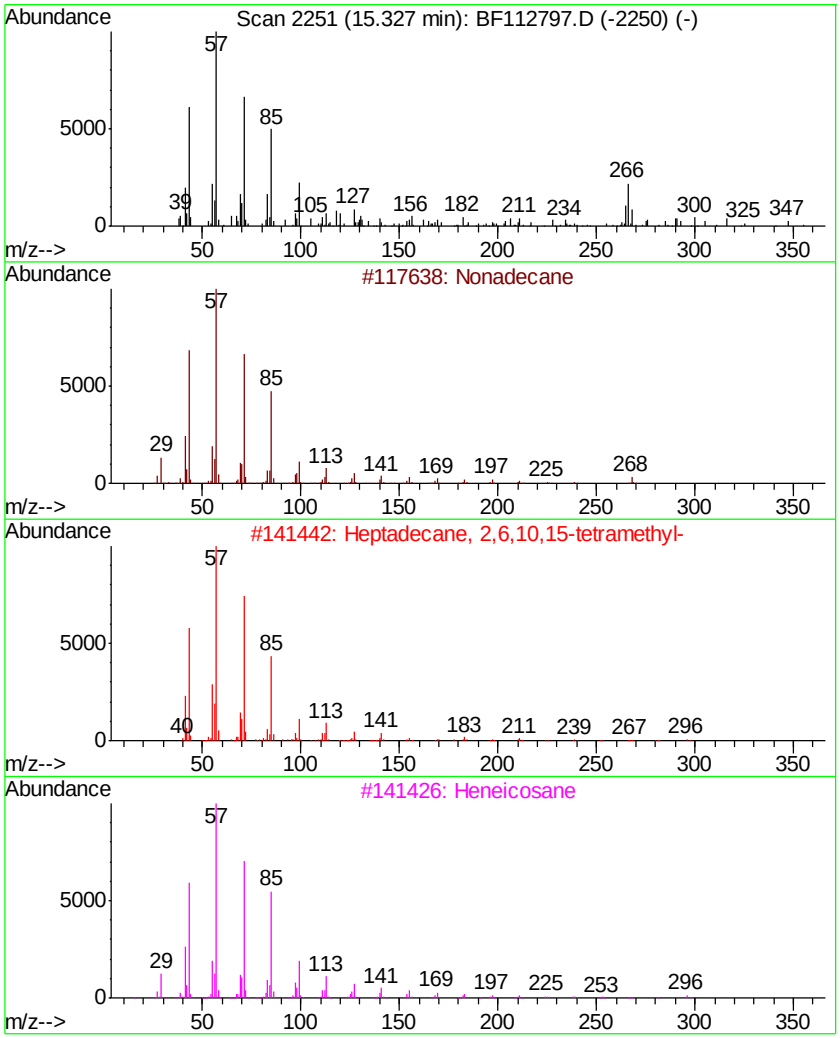
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

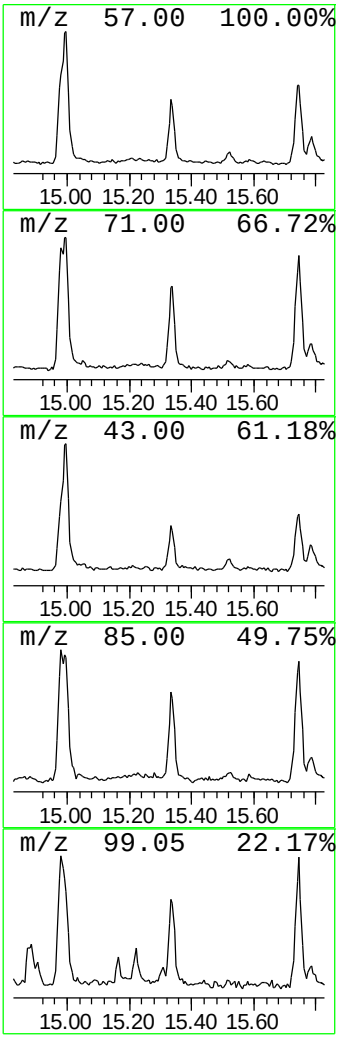
**********

Peak Number 13 Nonadecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.33 | 4.35 ng | 189618 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 93 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 89 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 76 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 68 |
| 5 | Tridecane, 3-methyl- | 198 | C14H30 | 006418-41-3 | 64 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

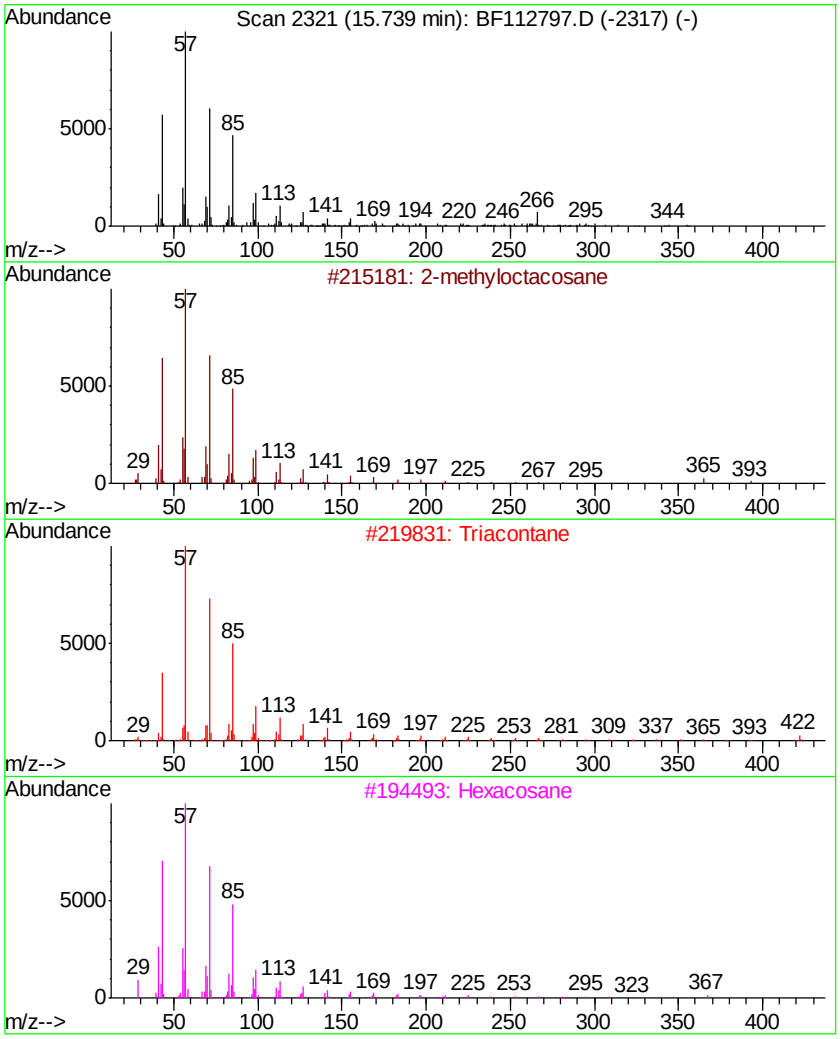
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

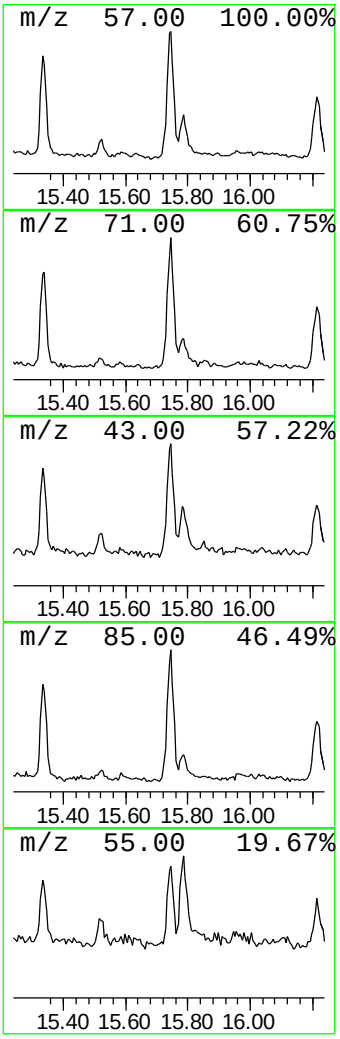
**********

Peak Number 14 2-methyloctacosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.74 | 6.69 ng | 291450 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 90 |
| 2 | Triacontane | 422 | C30H62 | 000638-68-6 | 87 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 4 | Pentacosane | 352 | C25H52 | 000629-99-2 | 87 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

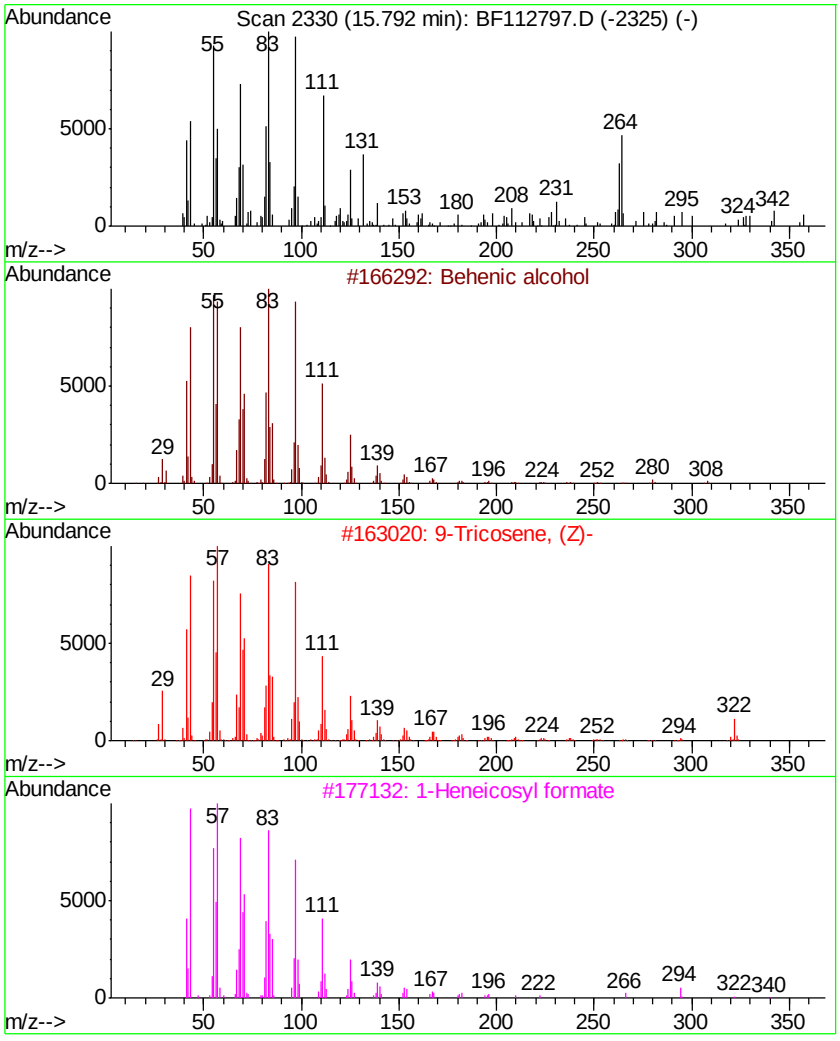
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

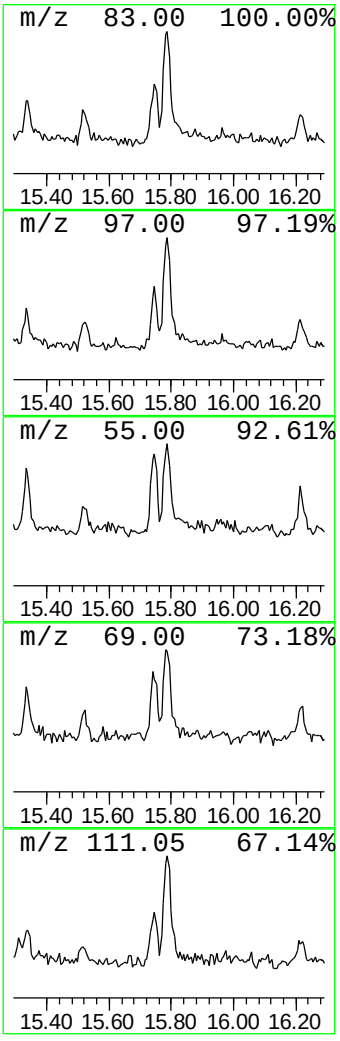
**********

Peak Number 15 Behenic alcohol Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.79 | 5.58 ng | 243163 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 91 |
| 2 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 90 |
| 3 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 90 |
| 4 | Octacosanol | 410 | C28H58O | 000557-61-9 | 90 |
| 5 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 87 |



# Library Search Compound Report

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Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

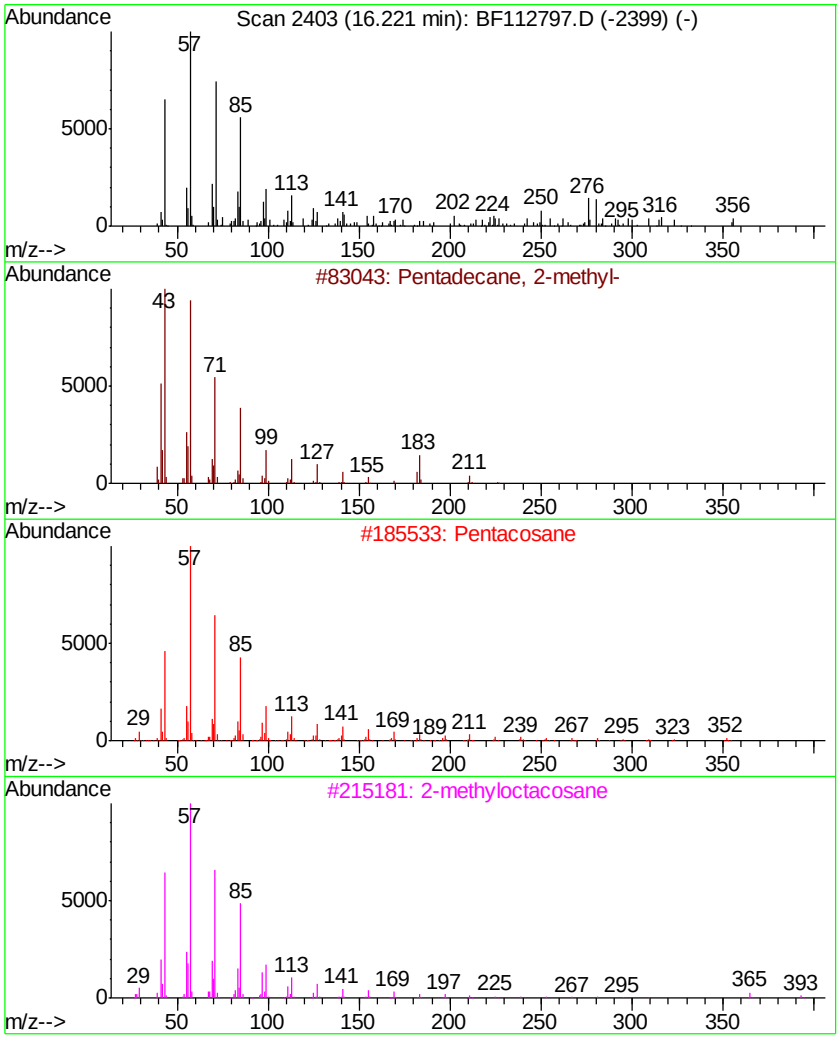
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

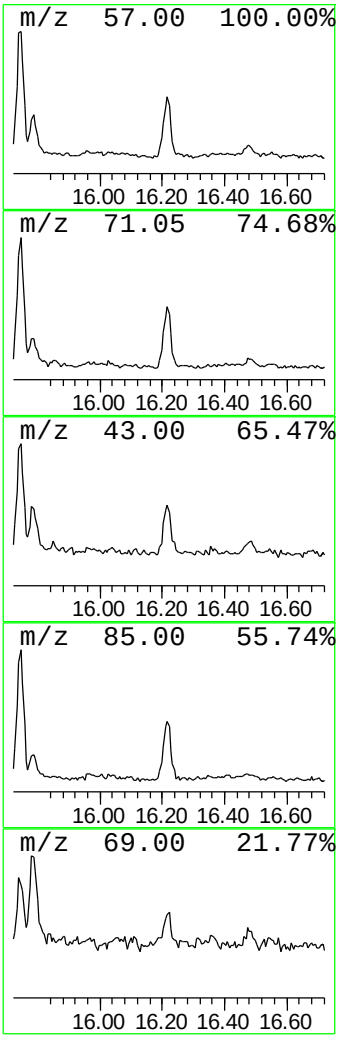
**********

Peak Number 16 Pentadecane, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.22 | 2.69 ng | 117287 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2-methyl- | 226 | C16H34 | 001560-93-6 | 76 |
| 2 | Pentacosane | 352 | C25H52 | 000629-99-2 | 68 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 64 |
| 4 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 64 |
| 5 | Tridecanol, 2-ethyl-2-methyl- | 242 | C16H34O | 1000115-66-1 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030119\
Data File : BF112797.D
Acq On : 1 Mar 2019 14:04
Operator : JU/SJ
Sample : K1652-12
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMP-DAY-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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 |
| unknown6.51 | 6.51 | 74.7 | ng | 2845080 | 1 | 6.74 | 761919 | 20.0 |
| n-Hexadecanoic acid | 11.79 | 13.6 | ng | 748634 | 4 | 11.25 | 1102040 | 20.0 |
| Benzaldehyde, 3,5... | 11.86 | 3.3 | ng | 181561 | 4 | 11.25 | 1102040 | 20.0 |
| Phenanthrene, 2,5... | 12.30 | 2.0 | ng | 110752 | 4 | 11.25 | 1102040 | 20.0 |
| Octadecanoic acid | 12.57 | 4.8 | ng | 373776 | 5 | 13.87 | 1545390 | 20.0 |
| 1-Heneicosanol | 13.73 | 5.7 | ng | 441884 | 5 | 13.87 | 1545390 | 20.0 |
| Hexadecane, 1-chl... | 14.36 | 2.6 | ng | 204826 | 5 | 13.87 | 1545390 | 20.0 |
| 16-Heptadecenal | 14.79 | 7.3 | ng | 317979 | 6 | 15.28 | 870873 | 20.0 |
| 1-Heptacosanol | 15.00 | 23.0 | ng | 1000470 | 6 | 15.28 | 870873 | 20.0 |
| Benzo[e]pyrene | 15.16 | 7.5 | ng | 325435 | 6 | 15.28 | 870873 | 20.0 |
| Nonadecane | 15.33 | 4.3 | ng | 189618 | 6 | 15.28 | 870873 | 20.0 |
| 2-methyloctacosane | 15.74 | 6.7 | ng | 291450 | 6 | 15.28 | 870873 | 20.0 |
| Behenic alcohol | 15.79 | 5.6 | ng | 243163 | 6 | 15.28 | 870873 | 20.0 |
| Pentadecane, 2-me... | 16.22 | 2.7 | ng | 117287 | 6 | 15.28 | 870873 | 20.0 |