LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

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-BF073019.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 | 5.434 | 566 | 569 | 592 | rBV | 1525703 | 1876224 | 66.24% | 4.878% |
| 2 | 6.451 | 739 | 742 | 756 | rBV | 1815764 | 2051913 | 72.44% | 5.335% |
| 3 | 6.581 | 760 | 764 | 773 | rVB | 2174522 | 2080723 | 73.46% | 5.410% |
| 4 | 6.804 | 799 | 802 | 812 | rBV | 681307 | 605466 | 21.37% | 1.574% |
| 5 | 6.957 | 825 | 828 | 846 | rVB | 1747248 | 1584089 | 55.92% | 4.119% |
| 6 | 7.369 | 895 | 898 | 918 | rBV | 1385604 | 1335303 | 47.14% | 3.472% |
| 7 | 8.081 | 1016 | 1019 | 1033 | rBV | 836695 | 817048 | 28.84% | 2.124% |
| 8 | 9.157 | 1198 | 1202 | 1205 | rBV | 2313411 | 2150502 | 75.92% | 5.592% |
| 9 | 9.269 | 1217 | 1221 | 1224 | rBV3 | 42089 | 40136 | 1.42% | 0.104% |
| 10 | 9.463 | 1251 | 1254 | 1256 | rBV | 36456 | 34245 | 1.21% | 0.089% |
| 11 | 9.486 | 1256 | 1258 | 1263 | rVV | 107265 | 95006 | 3.35% | 0.247% |
| 12 | 9.551 | 1263 | 1269 | 1272 | rVV | 444063 | 378117 | 13.35% | 0.983% |
| 13 | 9.586 | 1272 | 1275 | 1279 | rVB4 | 55524 | 52452 | 1.85% | 0.136% |
| 14 | 9.745 | 1297 | 1302 | 1304 | rBV2 | 34876 | 35390 | 1.25% | 0.092% |
| 15 | 9.833 | 1314 | 1317 | 1320 | rBV | 1177512 | 988406 | 34.89% | 2.570% |
| 16 | 9.904 | 1327 | 1329 | 1332 | rVB2 | 40445 | 33961 | 1.20% | 0.088% |
| 17 | 9.951 | 1332 | 1337 | 1341 | rBV | 200714 | 180831 | 6.38% | 0.470% |
| 18 | 9.986 | 1341 | 1343 | 1346 | rVB | 46925 | 38106 | 1.35% | 0.099% |
| 19 | 10.063 | 1350 | 1356 | 1358 | rBV6 | 26074 | 38757 | 1.37% | 0.101% |
| 20 | 10.128 | 1363 | 1367 | 1369 | rVB | 49653 | 53126 | 1.88% | 0.138% |
| 21 | 10.498 | 1428 | 1430 | 1434 | rVB2 | 65617 | 57080 | 2.02% | 0.148% |
| 22 | 10.557 | 1434 | 1440 | 1443 | rBV5 | 51172 | 77567 | 2.74% | 0.202% |
| 23 | 10.604 | 1443 | 1448 | 1449 | rVV3 | 73237 | 102403 | 3.62% | 0.266% |
| 24 | 10.628 | 1449 | 1452 | 1460 | rVV | 1676852 | 1668127 | 58.89% | 4.337% |
| 25 | 10.686 | 1460 | 1462 | 1466 | rVB | 41904 | 41971 | 1.48% | 0.109% |
| 26 | 10.739 | 1468 | 1471 | 1478 | rBV3 | 58983 | 66241 | 2.34% | 0.172% |
| 27 | 10.828 | 1482 | 1486 | 1489 | rBV4 | 21598 | 31445 | 1.11% | 0.082% |
| 28 | 10.928 | 1500 | 1503 | 1511 | rBV | 42054 | 51731 | 1.83% | 0.135% |
| 29 | 10.992 | 1511 | 1514 | 1519 | rBV4 | 50379 | 96116 | 3.39% | 0.250% |
| 30 | 11.033 | 1519 | 1521 | 1525 | rVB | 30143 | 32519 | 1.15% | 0.085% |
| 31 | 11.322 | 1564 | 1570 | 1573 | rVV | 1181899 | 1094764 | 38.65% | 2.846% |
| 32 | 11.369 | 1576 | 1578 | 1580 | rVB | 129680 | 106194 | 3.75% | 0.276% |
| 33 | 11.451 | 1590 | 1592 | 1596 | rVB | 90411 | 84239 | 2.97% | 0.219% |
| 34 | 11.528 | 1602 | 1605 | 1606 | rBV | 33945 | 35159 | 1.24% | 0.091% |

LSC Area Percent Report

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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.698 | 1631 | 1634 | 1638 | rVB2 | 45135 | 56904 | 2.01% | 0.148% |
| 36 | 11.798 | 1644 | 1651 | 1654 | rBV2 | 114722 | 187193 | 6.61% | 0.487% |
| 37 | 11.851 | 1655 | 1660 | 1672 | rVV | 939068 | 1124797 | 39.71% | 2.925% |
| 38 | 12.004 | 1681 | 1686 | 1691 | rBV2 | 213321 | 253243 | 8.94% | 0.658% |
| 39 | 12.098 | 1698 | 1702 | 1704 | rBV4 | 45213 | 52656 | 1.86% | 0.137% |
| 40 | 12.198 | 1716 | 1719 | 1723 | rVB4 | 46261 | 48000 | 1.69% | 0.125% |
| 41 | 12.251 | 1726 | 1728 | 1732 | rVV3 | 55384 | 60234 | 2.13% | 0.157% |
| 42 | 12.386 | 1747 | 1751 | 1752 | rBV2 | 48820 | 54171 | 1.91% | 0.141% |
| 43 | 12.404 | 1752 | 1754 | 1757 | rVB3 | 86913 | 77254 | 2.73% | 0.201% |
| 44 | 12.451 | 1759 | 1762 | 1768 | rBV | 337902 | 390216 | 13.78% | 1.015% |
| 45 | 12.557 | 1773 | 1780 | 1789 | rBV5 | 750726 | 1763423 | 62.25% | 4.585% |
| 46 | 12.627 | 1789 | 1792 | 1797 | rBV | 214975 | 228246 | 8.06% | 0.593% |
| 47 | 12.722 | 1805 | 1808 | 1811 | rBV2 | 104568 | 100460 | 3.55% | 0.261% |
| 48 | 12.769 | 1813 | 1816 | 1821 | rVB | 184506 | 186759 | 6.59% | 0.486% |
| 49 | 12.898 | 1834 | 1838 | 1842 | rBV | 2231383 | 1909992 | 67.43% | 4.966% |
| 50 | 13.098 | 1870 | 1872 | 1874 | rBV2 | 42743 | 36215 | 1.28% | 0.094% |
| 51 | 13.122 | 1874 | 1876 | 1881 | rVB3 | 66837 | 62496 | 2.21% | 0.162% |
| 52 | 13.292 | 1901 | 1905 | 1907 | rBV3 | 106983 | 130013 | 4.59% | 0.338% |
| 53 | 13.327 | 1908 | 1911 | 1912 | rBV | 215942 | 199242 | 7.03% | 0.518% |
| 54 | 13.392 | 1920 | 1922 | 1924 | rBV | 51348 | 46374 | 1.64% | 0.121% |
| 55 | 13.416 | 1924 | 1926 | 1930 | rVB3 | 94685 | 85525 | 3.02% | 0.222% |
| 56 | 13.580 | 1952 | 1954 | 1958 | rBV3 | 40336 | 39124 | 1.38% | 0.102% |
| 57 | 13.786 | 1985 | 1989 | 1995 | rBV | 430907 | 482417 | 17.03% | 1.254% |
| 58 | 13.874 | 2001 | 2004 | 2008 | rBV | 96082 | 103243 | 3.64% | 0.268% |
| 59 | 13.963 | 2016 | 2019 | 2023 | rBV | 768767 | 768594 | 27.13% | 1.998% |
| 60 | 14.104 | 2041 | 2043 | 2045 | rBV | 64509 | 48430 | 1.71% | 0.126% |
| 61 | 14.410 | 2091 | 2095 | 2102 | rBV2 | 550050 | 760273 | 26.84% | 1.977% |
| 62 | 14.704 | 2143 | 2145 | 2148 | rVB | 110977 | 98484 | 3.48% | 0.256% |
| 63 | 14.780 | 2155 | 2158 | 2161 | rVB | 244587 | 237142 | 8.37% | 0.617% |
| 64 | 14.927 | 2180 | 2183 | 2187 | rBV3 | 76714 | 97960 | 3.46% | 0.255% |
| 65 | 15.033 | 2197 | 2201 | 2204 | rBV | 1491959 | 1574783 | 55.59% | 4.095% |
| 66 | 15.063 | 2204 | 2206 | 2212 | rVB | 179251 | 198349 | 7.00% | 0.516% |
| 67 | 15.286 | 2242 | 2244 | 2251 | rVB2 | 87974 | 117607 | 4.15% | 0.306% |
| 68 | 15.392 | 2260 | 2262 | 2264 | rBV | 77937 | 89572 | 3.16% | 0.233% |
| 69 | 15.421 | 2264 | 2267 | 2276 | rVB | 608585 | 782568 | 27.63% | 2.035% |
| 70 | 15.815 | 2329 | 2334 | 2339 | rVB | 1108443 | 1553263 | 54.83% | 4.039% |
| 71 | 15.868 | 2339 | 2343 | 2351 | rVB2 | 165739 | 267883 | 9.46% | 0.697% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.086 | 2376 | 2380 | 2391 | rVB | 297934 | 572182 | 20.20% | 1.488% |
| 73 | 17.304 | 2583 | 2587 | 2592 | rBV3 | 96504 | 193133 | 6.82% | 0.502% |
| 74 | 17.380 | 2593 | 2600 | 2613 | rVV6 | 798674 | 2832618 | 100.00% | 7.365% |
| 75 | 17.821 | 2669 | 2675 | 2685 | rBV | 337384 | 918353 | 32.42% | 2.388% |
| 76 | 18.151 | 2724 | 2731 | 2736 | rBV2 | 436469 | 1188618 | 41.96% | 3.091% |
| 77 | 18.374 | 2765 | 2769 | 2780 | rVB5 | 178291 | 466678 | 16.48% | 1.213% |

Sum of corrected areas: 38460044

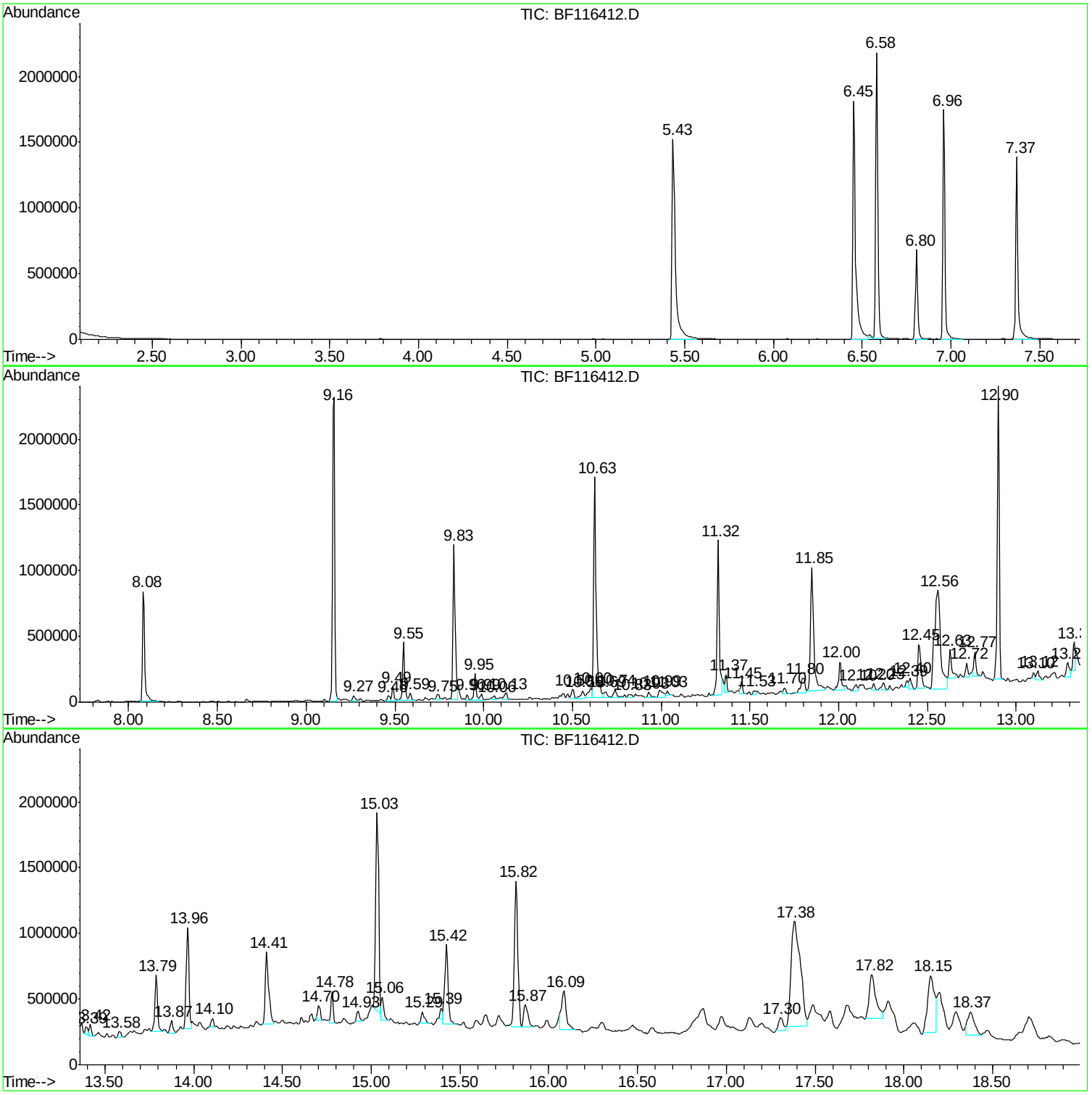
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

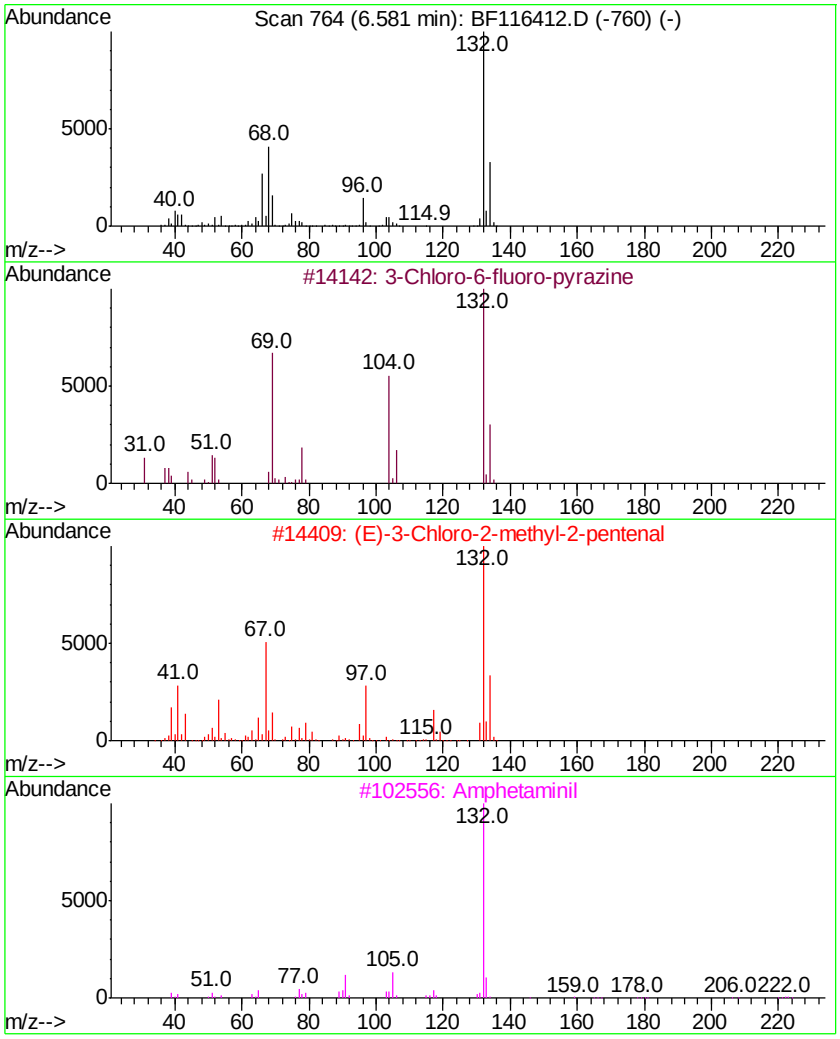
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

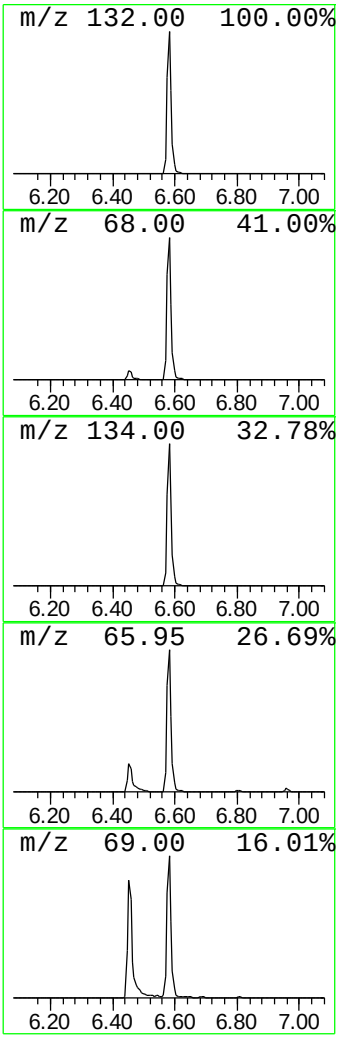
**********

Peak Number 1 unknown6.58 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.58 | 68.73 ng | 2080720 | 1,4-Dichlorobenzene-d4 | 6.80 |

| 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 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

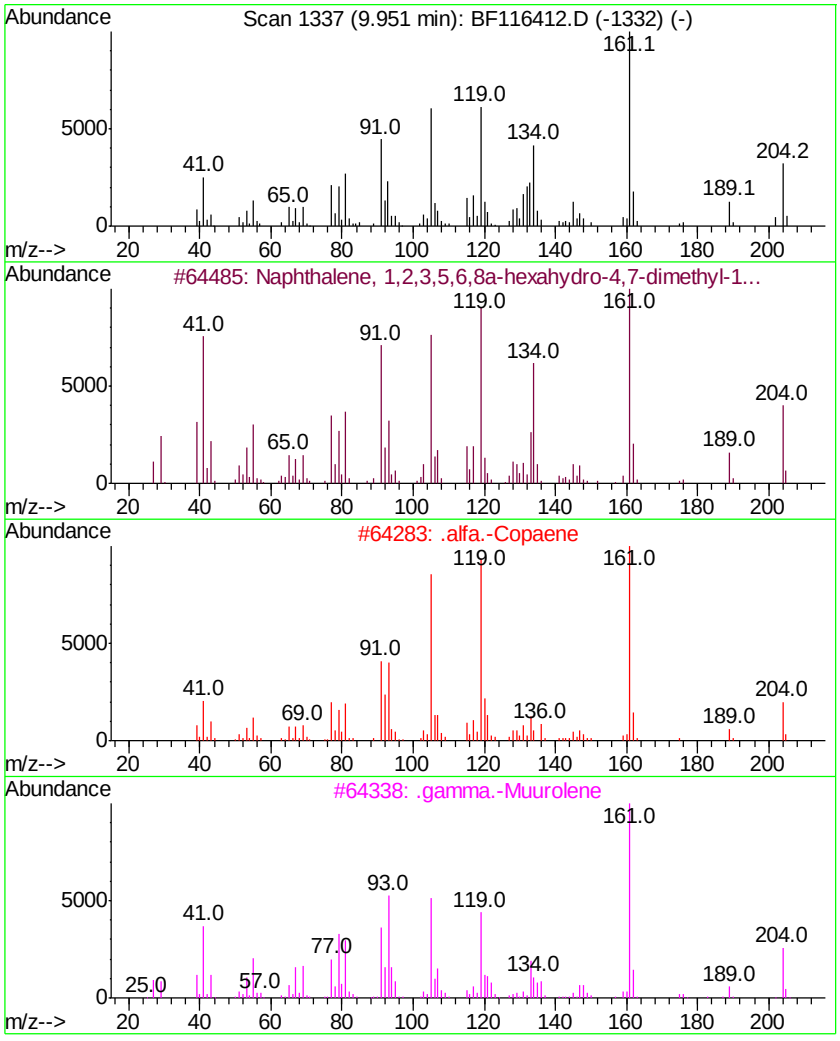
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

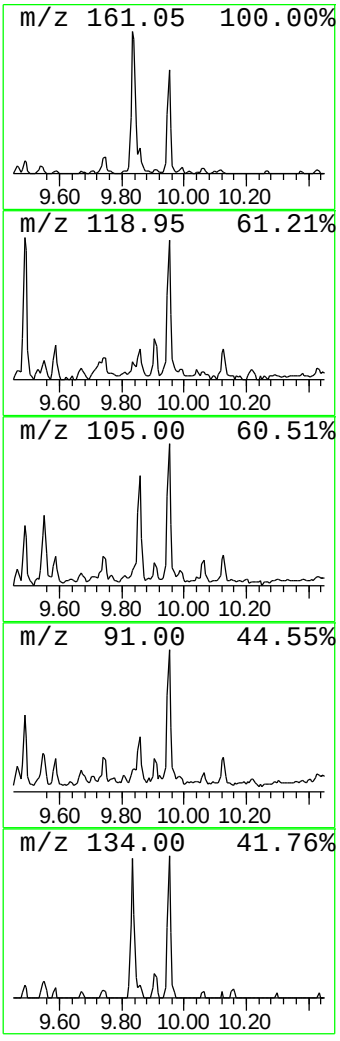
**********

Peak Number 3 Naphthalene, 1,2,3,5,6,8a-h... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.95 | 3.66 ng | 180831 | Acenaphthene-d10 | 9.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,5,6,8a-hexahy... | 204 | C15H24 | 000483-76-1 | 95 |
| 2 | .alfa.-Copaene | 204 | C15H24 | 1000360-33-0 | 91 |
| 3 | .gamma.-Muurolene | 204 | C15H24 | 030021-74-0 | 86 |
| 4 | Copaene | 204 | C15H24 | 003856-25-5 | 83 |
| 5 | Epizonarene | 204 | C15H24 | 041702-63-0 | 76 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
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Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

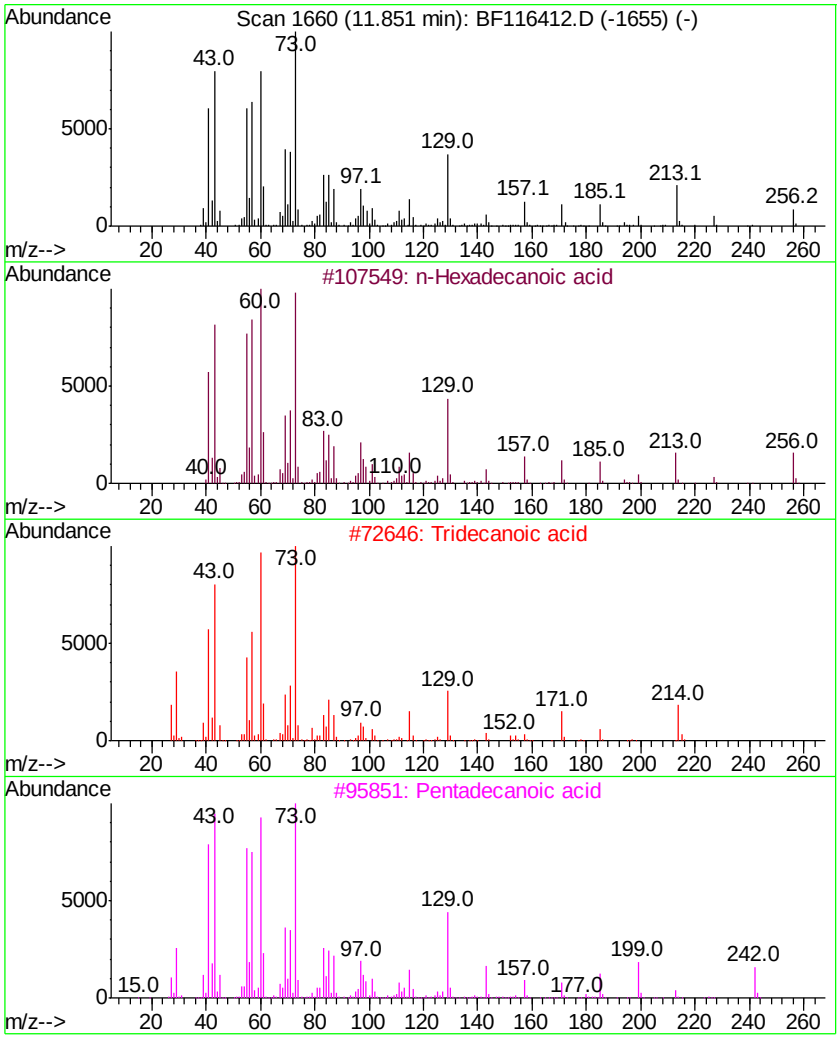
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

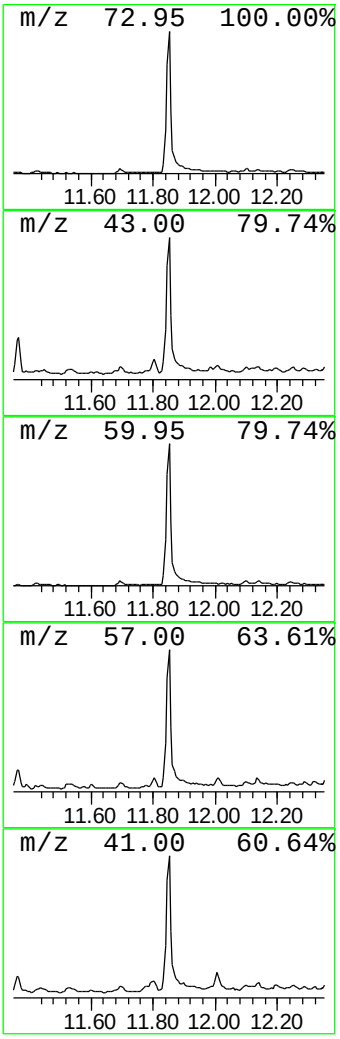
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 20.55 ng | 1124800 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 91 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 5 | Oxalic acid, allyl octadecyl ester | 382 | C23H42O4 | 1000309-24-5 | 18 |



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Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

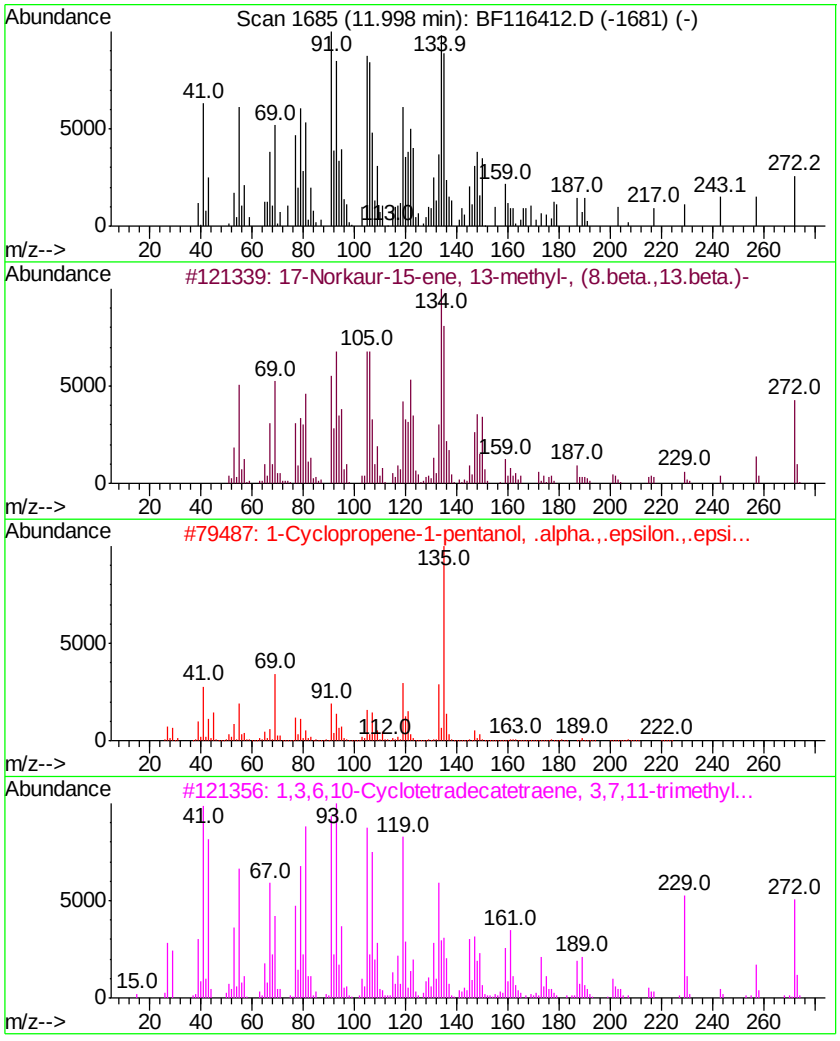
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

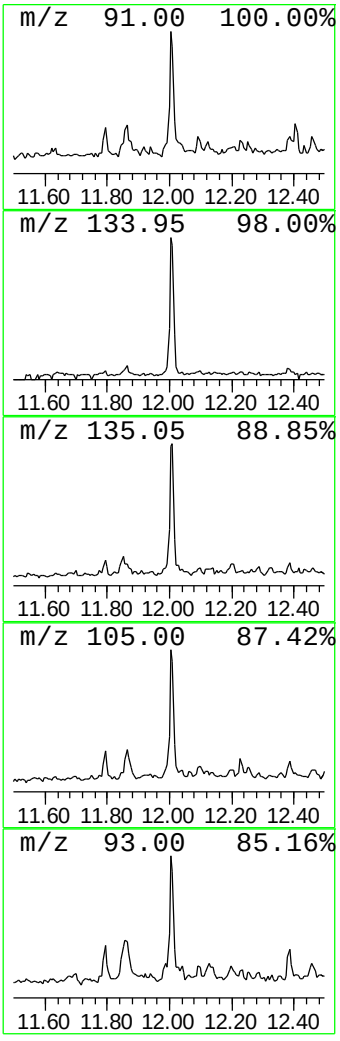
**********

Peak Number 5 17-Norkaur-15-ene, 13-methy... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 4.63 ng | 253243 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 17-Norkaur-15-ene, 13-methyl-, (... | 272 | C20H32 | 003564-54-3 | 99 |
| 2 | 1-Cyclopropene-1-pentanol, .alph... | 222 | C15H26O | 090165-06-3 | 30 |
| 3 | 1,3,6,10-Cyclotetradecatetraene,... | 272 | C20H32 | 001898-13-1 | 25 |
| 4 | 4-Methylformanilide | 135 | C8H9NO | 003085-54-9 | 25 |
| 5 | Benzenamine, N,N,3-trimethyl- | 135 | C9H13N | 000121-72-2 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

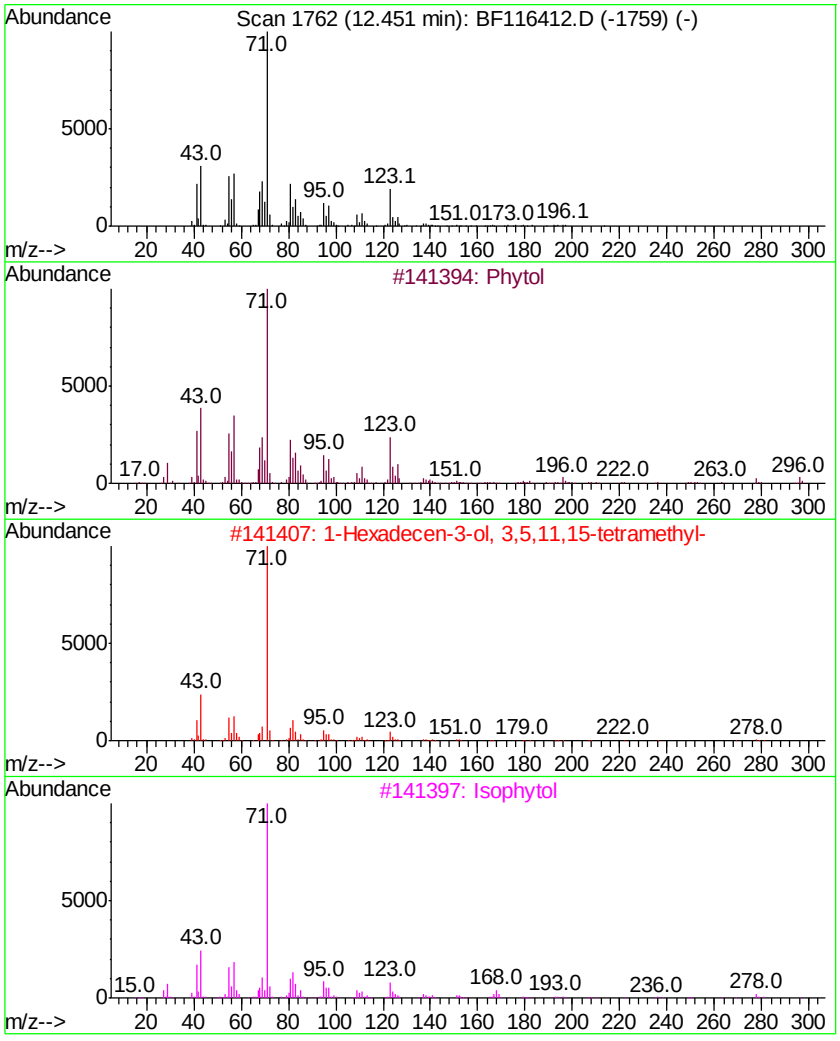
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

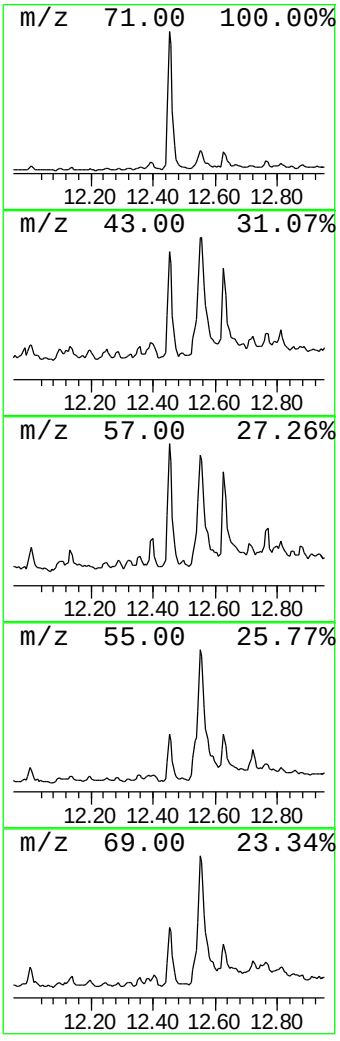
**********

Peak Number 6 Phytol Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.45 | 7.13 ng | 390216 | Phenanthrene-d10 | 11.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phytol | 296 | C20H40O | 000150-86-7 | 86 |
| 2 | 1-Hexadecen-3-ol, 3,5,11,15-tetr... | 296 | C20H40O | 1000262-55-5 | 59 |
| 3 | Isophytol | 296 | C20H40O | 000505-32-8 | 59 |
| 4 | Butyric acid, 3-tetradecyl ester | 284 | C18H36O2 | 1000280-57-1 | 52 |
| 5 | Malonic acid, neopentyl tridecyl... | 356 | C21H40O4 | 1000363-93-6 | 50 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

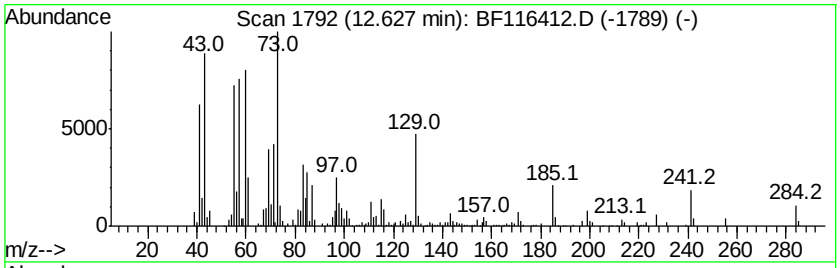
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

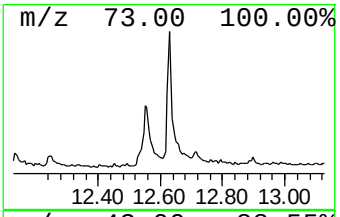
**********

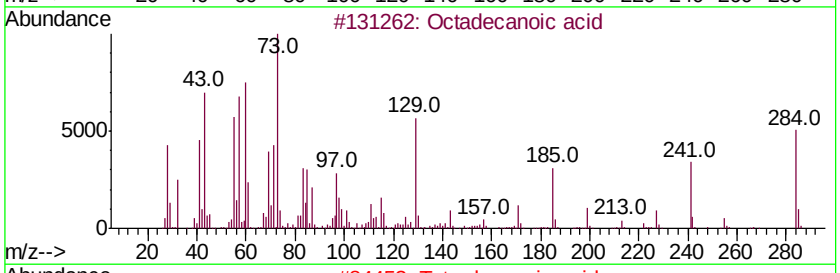
Peak Number 7 Octadecanoic acid Concentration Rank 19

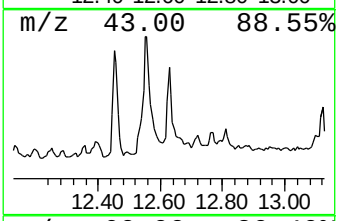
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.63 | 4.17 ng | 228246 | Phenanthrene-d10 | 11.32 |

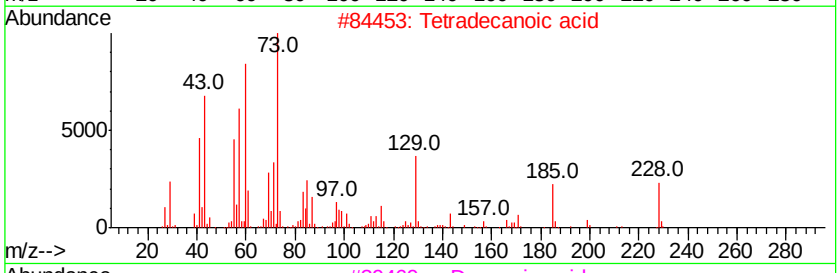
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83 |
| 3 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 76 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 76 |
| 5 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 72 |

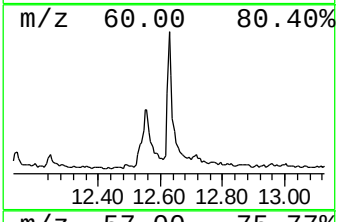


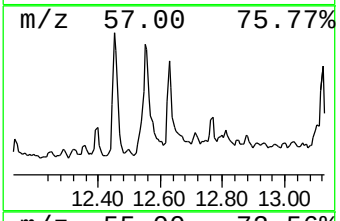



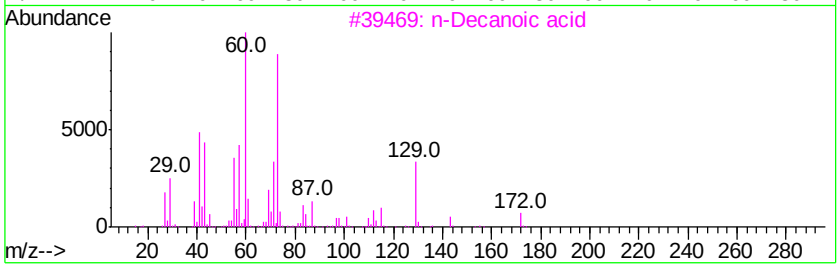



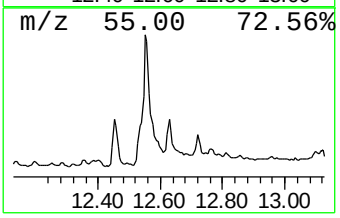



# Library Search Compound Report

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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

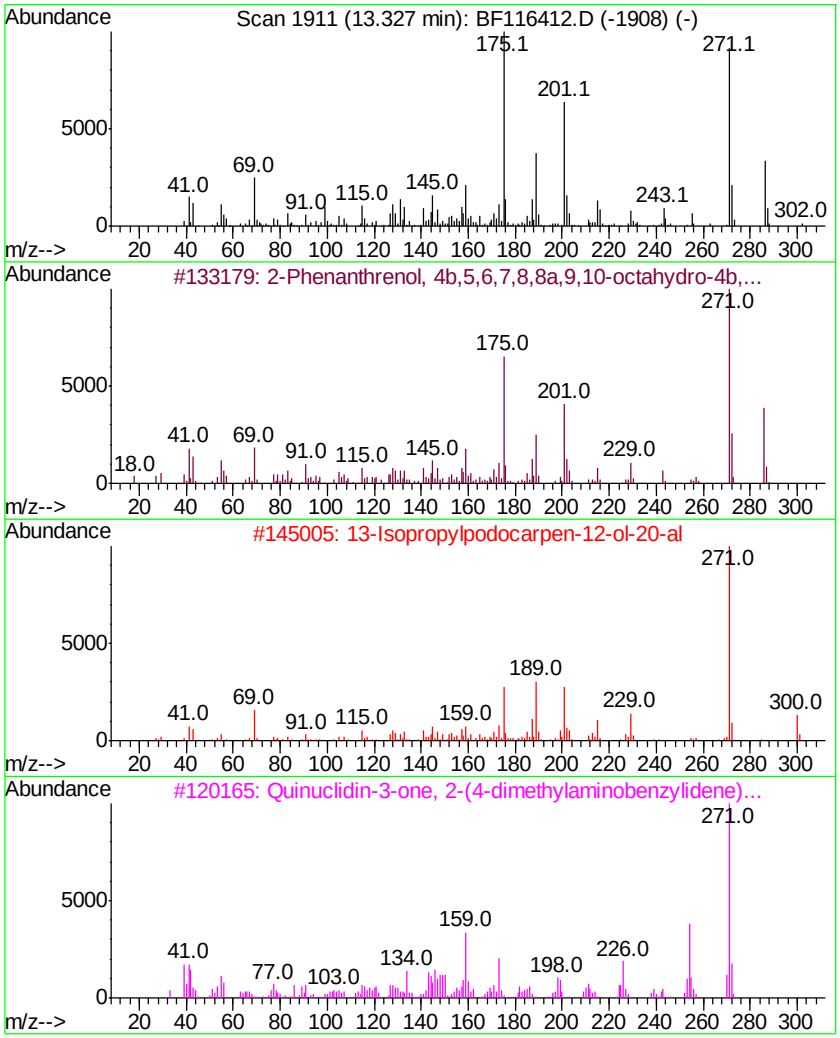
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

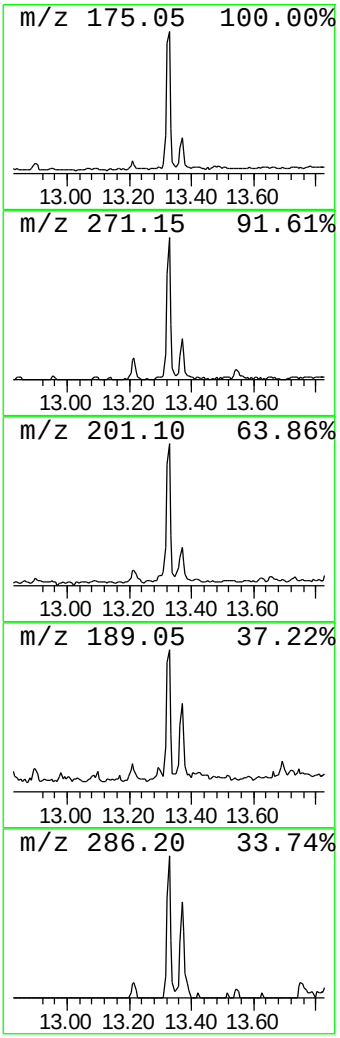
**********

Peak Number 8 2-Phenanthrenol, 4b,5,6,7,8... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.33 | 5.18 ng | 199242 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Phenanthrenol, 4b,5,6,7,8,8a,9... | 286 | C20H30O | 000511-15-9 | 93 |
| 2 | 13-Isopropylpodocarpen-12-ol-20-al | 300 | C20H28O2 | 024035-37-8 | 35 |
| 3 | Quinuclidin-3-one, 2-(4-dimethyl... | 271 | C16H21N3O | 1000266-14-6 | 27 |
| 4 | 1-Methyl-3-phenyl-4-azafluorenone | 271 | C19H13NO | 069751-55-9 | 22 |
| 5 | Methanone, (2-chloro-4,5-difluor... | 287 | C14H16ClF2NO | 1000277-48-2 | 22 |



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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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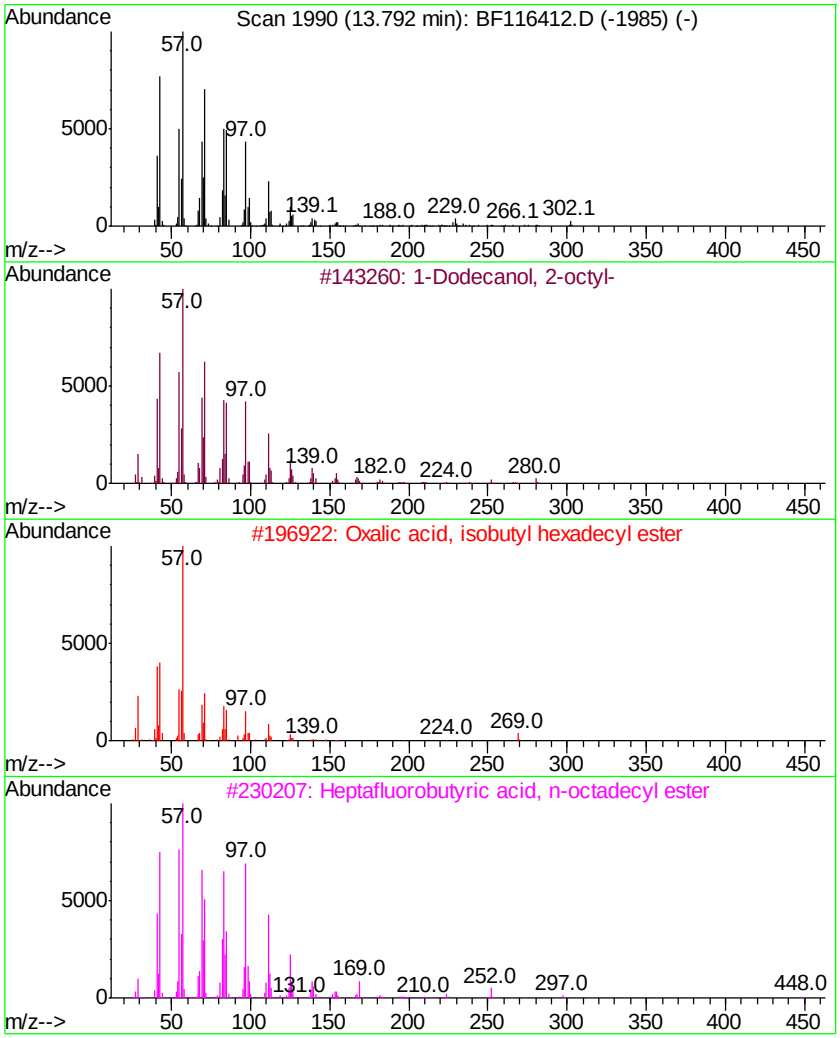
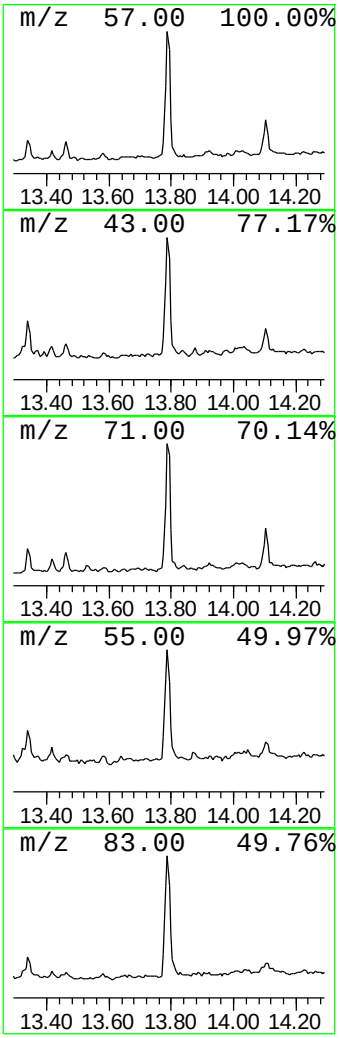
Peak Number 9 1-Dodecanol, 2-octyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.79 | 12.55 ng | 482417 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Dodecanol, 2-octyl- | 298 | C20H42O | 005333-42-6 | 91 |
| 2 | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4 | 1000309-38-1 | 91 |
| 3 | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7 | 76 |
| 4 | Octadecyl trifluoroacetate | 366 | C20H37F3O2 | 079392-43-1 | 76 |
| 5 | 1-Decanol, 2-hexyl- | 242 | C16H34O | 002425-77-6 | 74 |



# Library Search Compound Report

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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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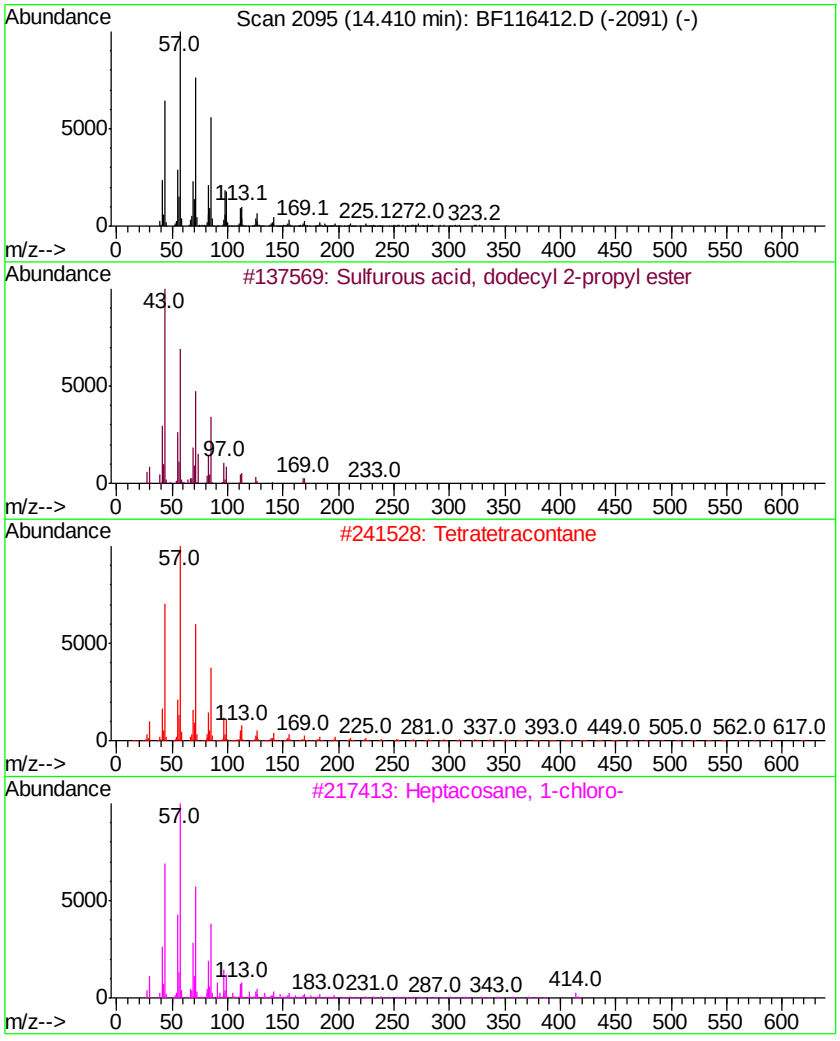
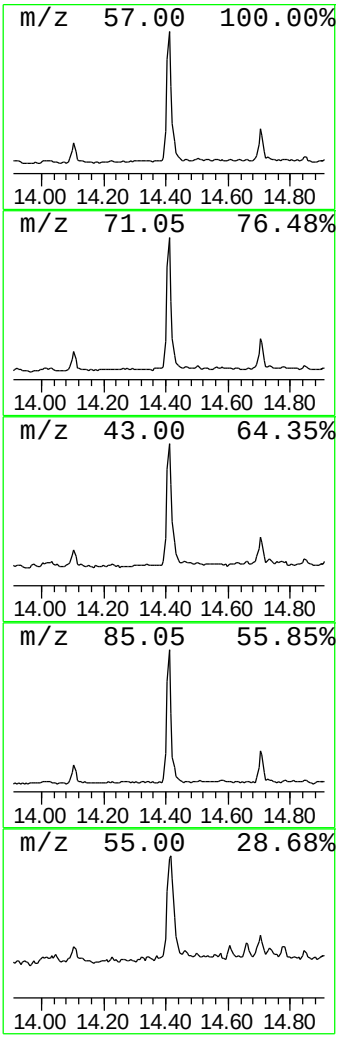
Peak Number 10 Sulfurous acid, dodecyl 2-p... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.41 | 19.78 ng | 760273 | Chrysene-d12 | 13.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfurous acid, dodecyl 2-propyl... | 292 | C15H32O3S | 1000309-12-3 | 91 |
| 2 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 91 |
| 3 | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 91 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |



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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

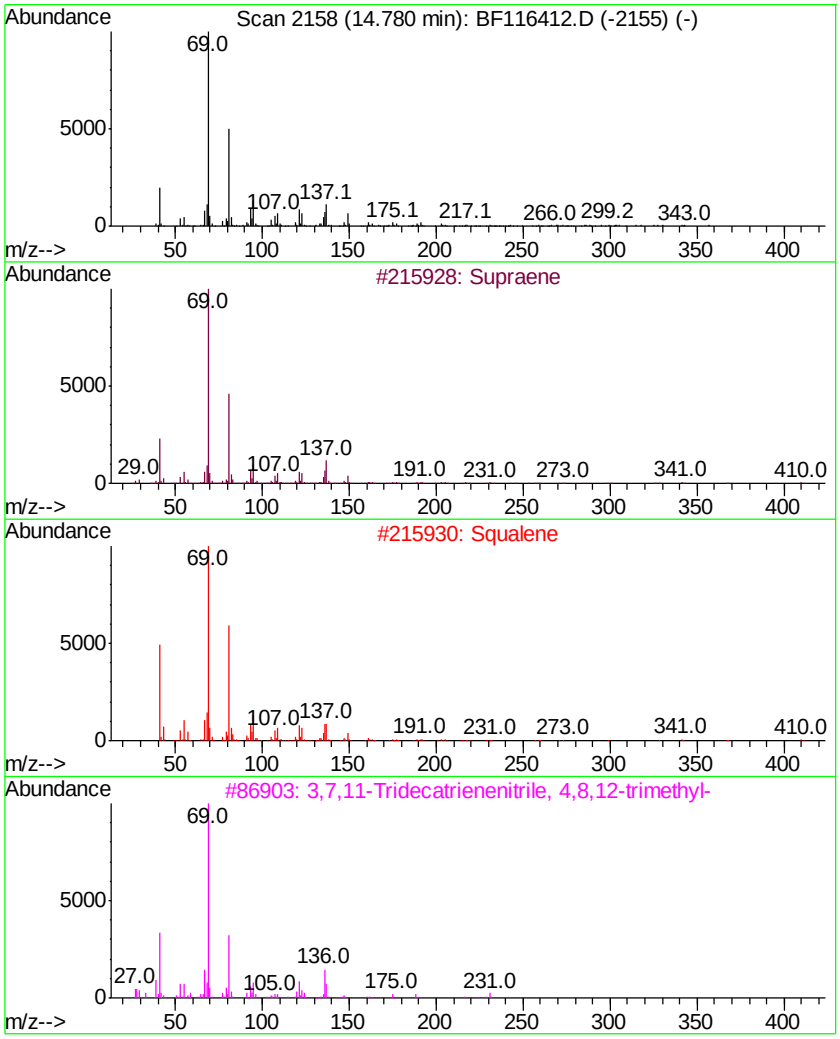
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

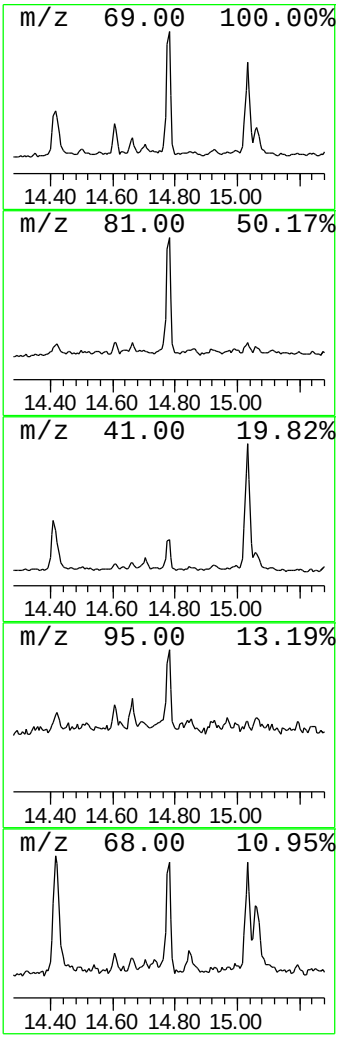
**********

Peak Number 11 Squalene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.78 | 6.06 ng | 237142 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 91 |
| 2 | Squalene | 410 | C30H50 | 000111-02-4 | 91 |
| 3 | 3,7,11-Tridecatrienenitrile, 4,8... | 231 | C16H25N | 006006-01-5 | 72 |
| 4 | 2,6-Octadiene, 4-methyl- | 124 | C9H16 | 074498-94-5 | 50 |
| 5 | Butanoic acid, 4-cyano-2-ethyl-2... | 290 | C15H18N2O4 | 203808-68-8 | 49 |



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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

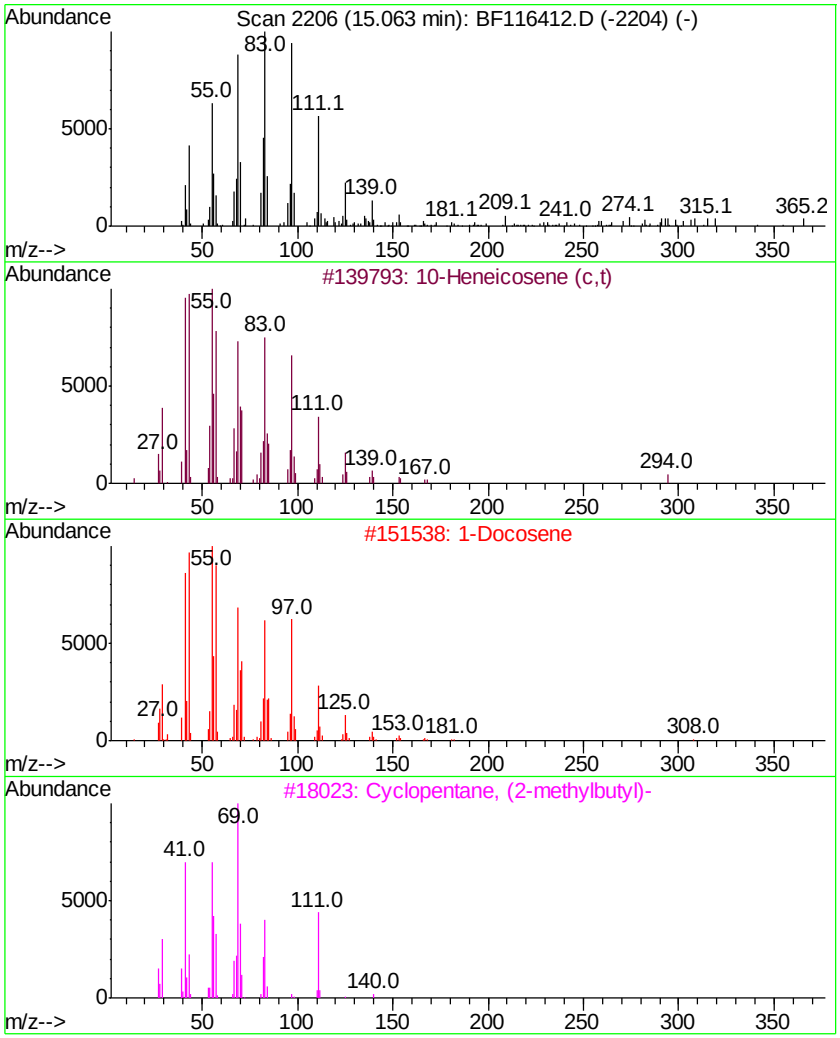
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

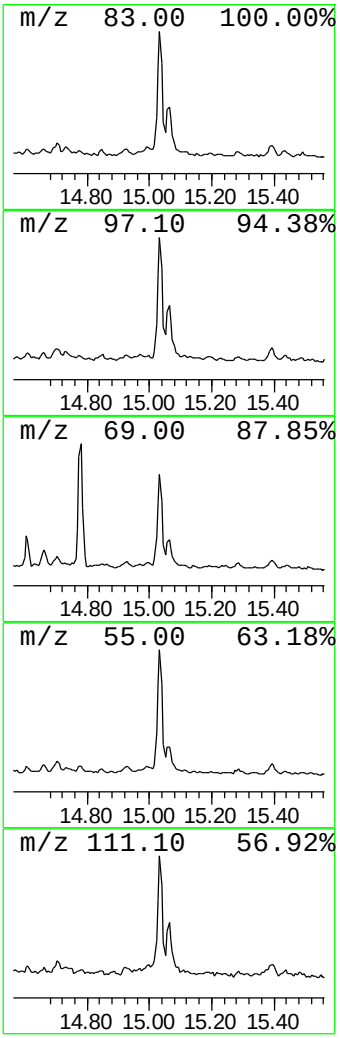
**********

Peak Number 12 10-Heneicosene (c,t) Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.06 | 5.07 ng | 198349 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10-Heneicosene (c,t) | 294 | C21H42 | 095008-11-0 | 70 |
| 2 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 49 |
| 3 | Cyclopentane, (2-methylbutyl)- | 140 | C10H20 | 053366-38-4 | 42 |
| 4 | Cyclooctane, cyclohexyl- | 194 | C14H26 | 092369-78-3 | 41 |
| 5 | Cyclohexane, (1,2-dimethylbutyl)- | 168 | C12H24 | 061142-37-8 | 30 |



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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

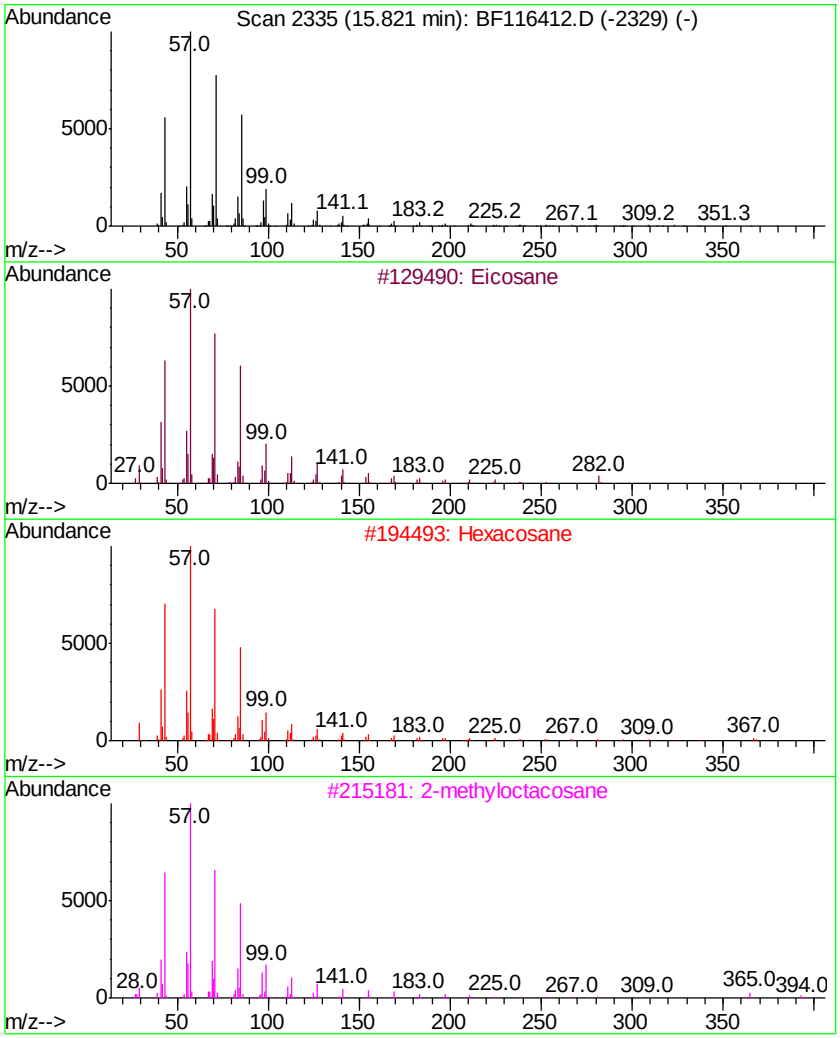
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

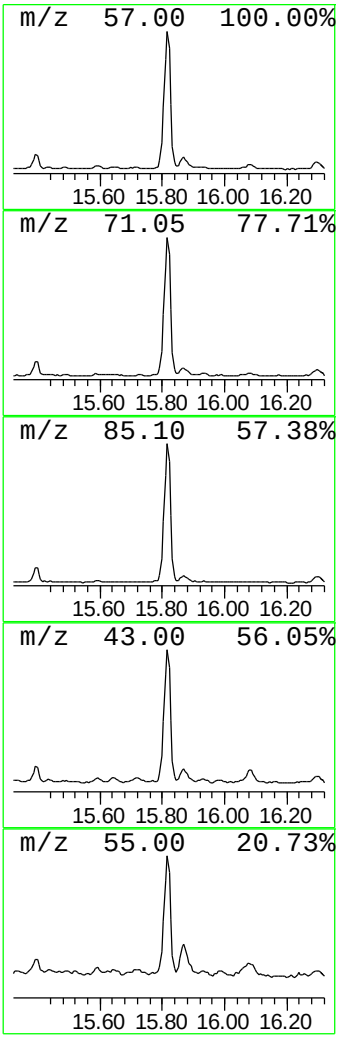
**********

Peak Number 13 Eicosane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.82 | 39.70 ng | 1553260 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 95 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

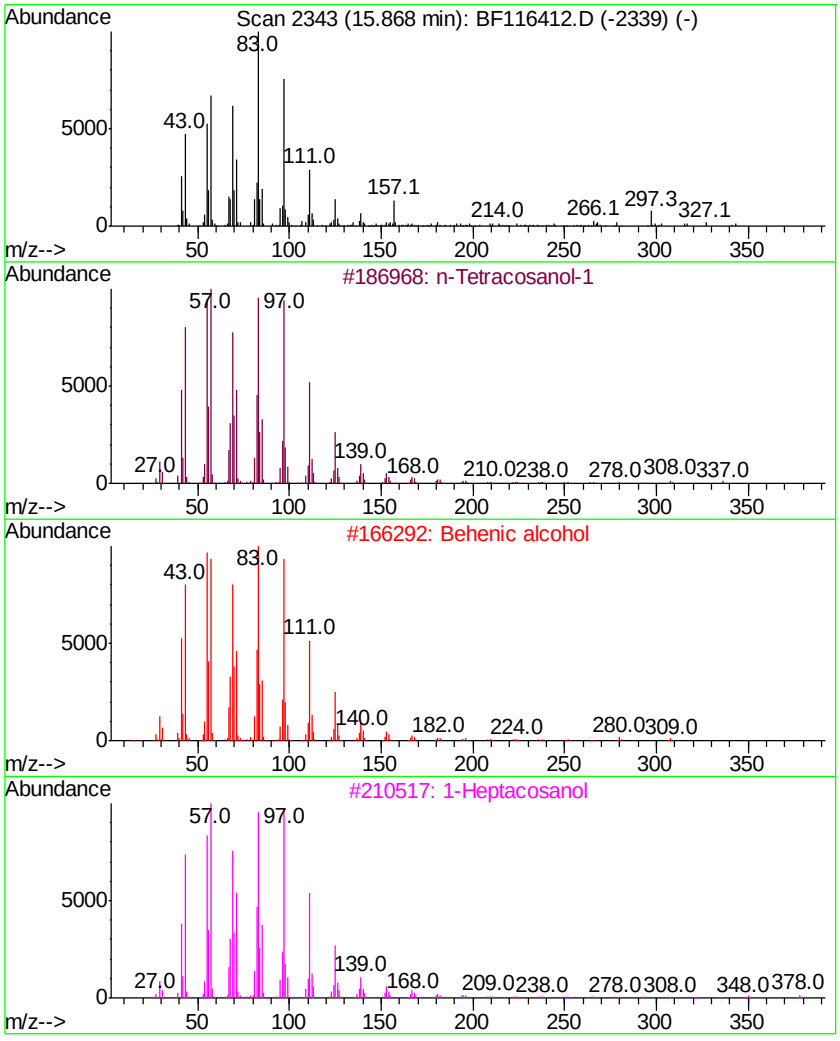
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

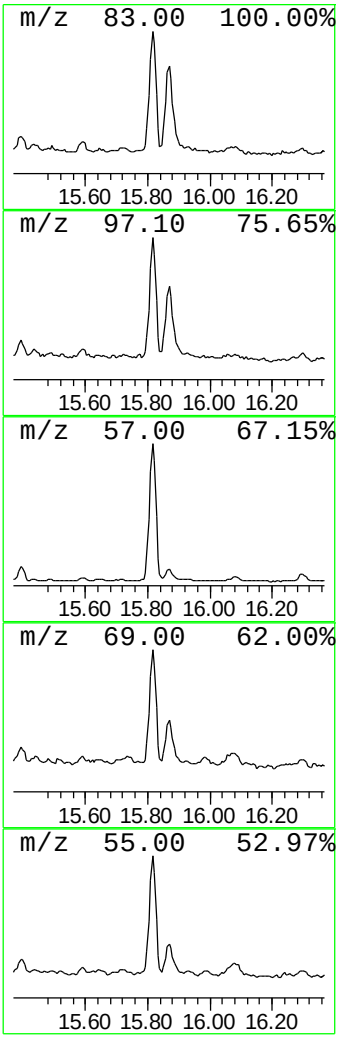
**********

Peak Number 14 n-Tetracosanol-1 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.87 | 6.85 ng | 267883 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 60 |
| 2 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 53 |
| 3 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 53 |
| 4 | Cycloheptane, methyl- | 112 | C8H16 | 004126-78-7 | 50 |
| 5 | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7 | 41 |



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Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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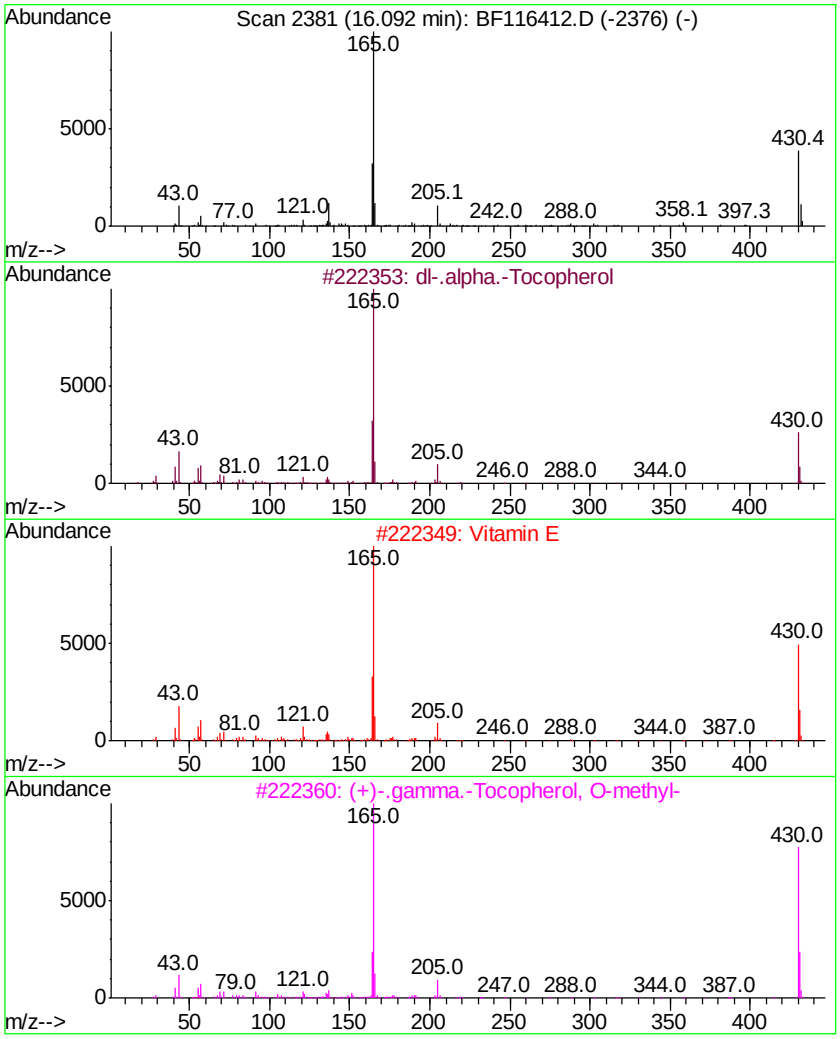
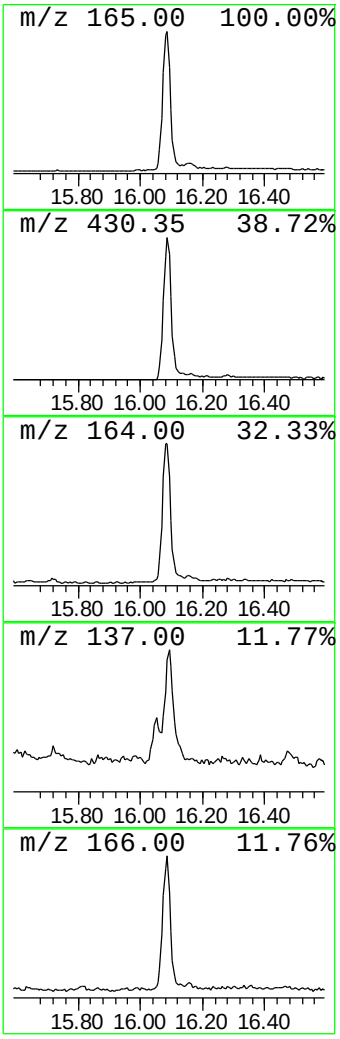
Peak Number 15 dl-.alpha.-Tocopherol Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.09 | 14.62 ng | 572182 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | dl-.alpha.-Tocopherol | 430 | C29H50O2 | 010191-41-0 | 94 |
| 2 | Vitamin E | 430 | C29H50O2 | 000059-02-9 | 92 |
| 3 | (+)-.gamma.-Tocopherol, O-methyl- | 430 | C29H50O2 | 1000374-72-2 | 91 |
| 4 | Propanenitrile, 3-[methyl(4-nitr... | 205 | C10H11N3O2 | 097473-81-9 | 47 |
| 5 | 1H-Purin-2-amine, 6-methoxy- | 165 | C6H7N5O | 020535-83-5 | 42 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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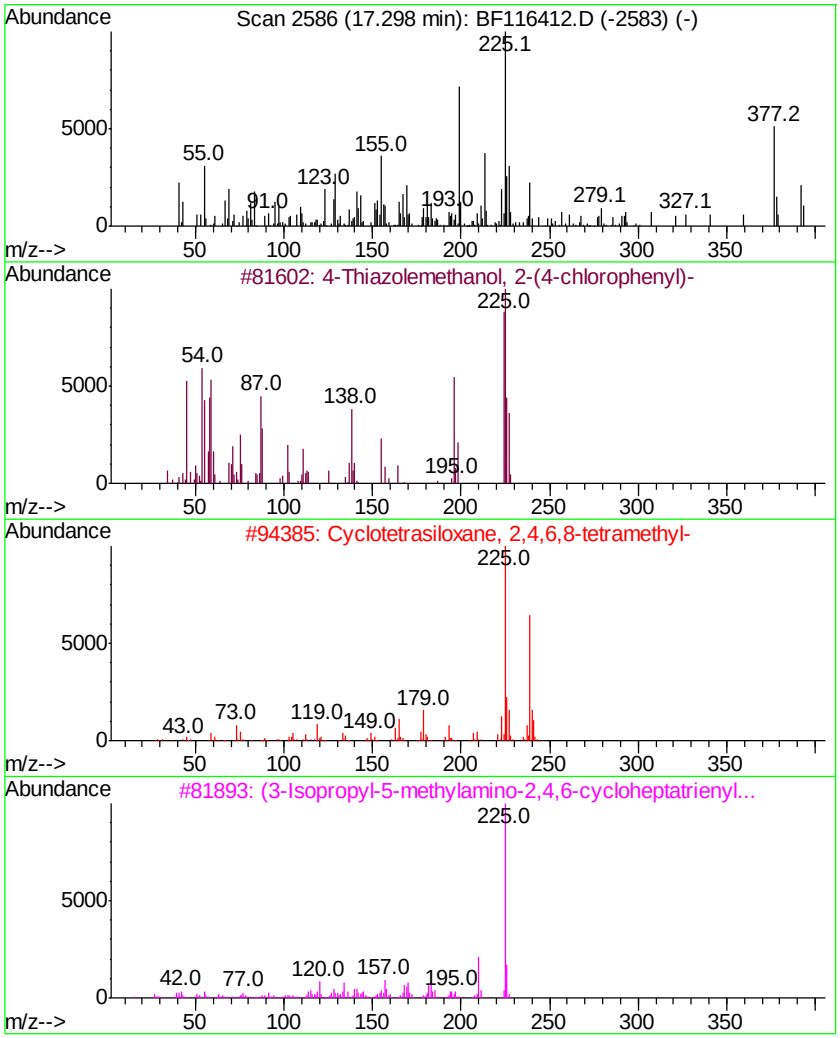
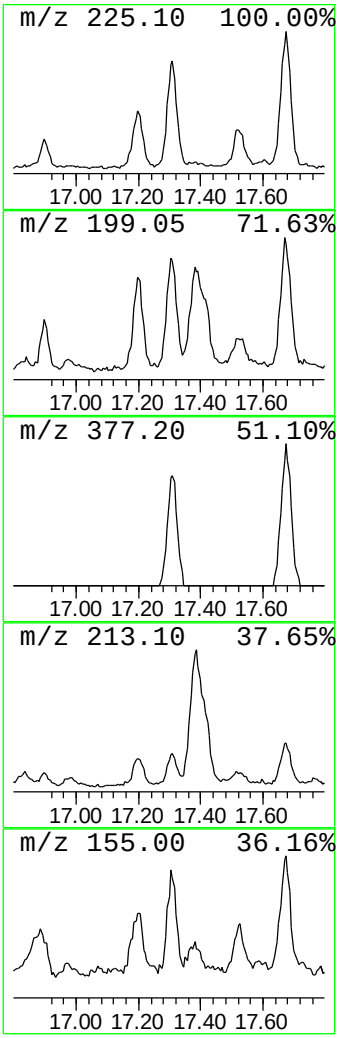
Peak Number 16 unknown17.30 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.30 | 4.94 ng | 193133 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Thiazolemethanol, 2-(4-chlorop... | 225 | C10H8ClNOS | 036093-99-9 | 35 |
| 2 | Cyclotetrasiloxane, 2,4,6,8-tetr... | 240 | C4H16O4Si4 | 002370-88-9 | 25 |
| 3 | (3-Isopropyl-5-methylamino-2,4,6... | 225 | C14H15N3 | 014204-00-3 | 18 |
| 4 | [1,2,4]Triazolo[1,5-a]pyrimidine... | 225 | C12H11N5 | 1000320-01-2 | 18 |
| 5 | 4-Chloro-1,3-dimethyl-1H-pyrazol... | 225 | C9H8ClN3O2 | 1000293-90-4 | 18 |



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Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

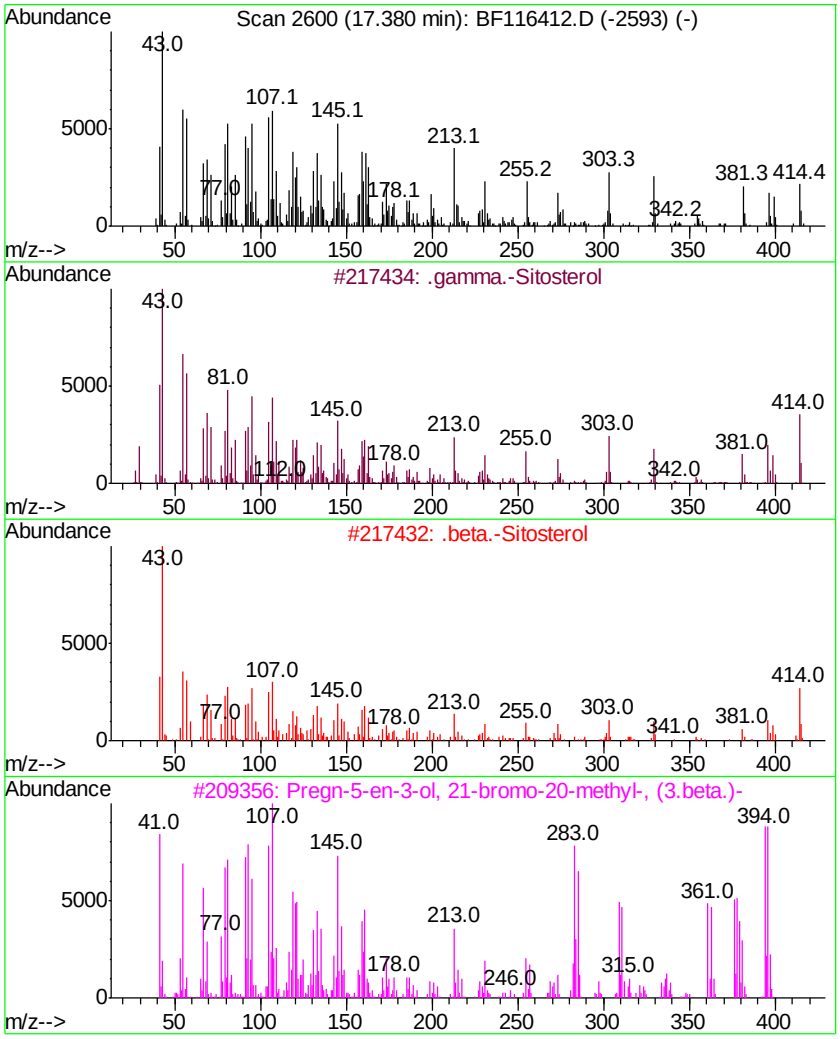
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

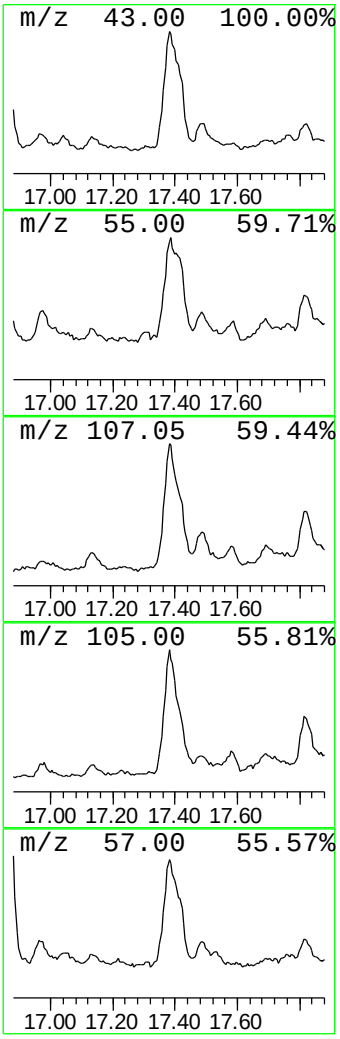
**********

Peak Number 17 .gamma.-Sitosterol Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.38 | 72.39 ng | 2832620 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .gamma.-Sitosterol | 414 | C29H50O | 000083-47-6 | 99 |
| 2 | .beta.-Sitosterol | 414 | C29H50O | 000083-46-5 | 99 |
| 3 | Pregn-5-en-3-ol, 21-bromo-20-met... | 394 | C22H35BrO | 055103-80-5 | 64 |
| 4 | Ergost-5-en-3-ol, (3.beta.)- | 400 | C28H48O | 004651-51-8 | 52 |
| 5 | Isocholesteryl methyl ether | 400 | C28H48O | 029944-53-4 | 47 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

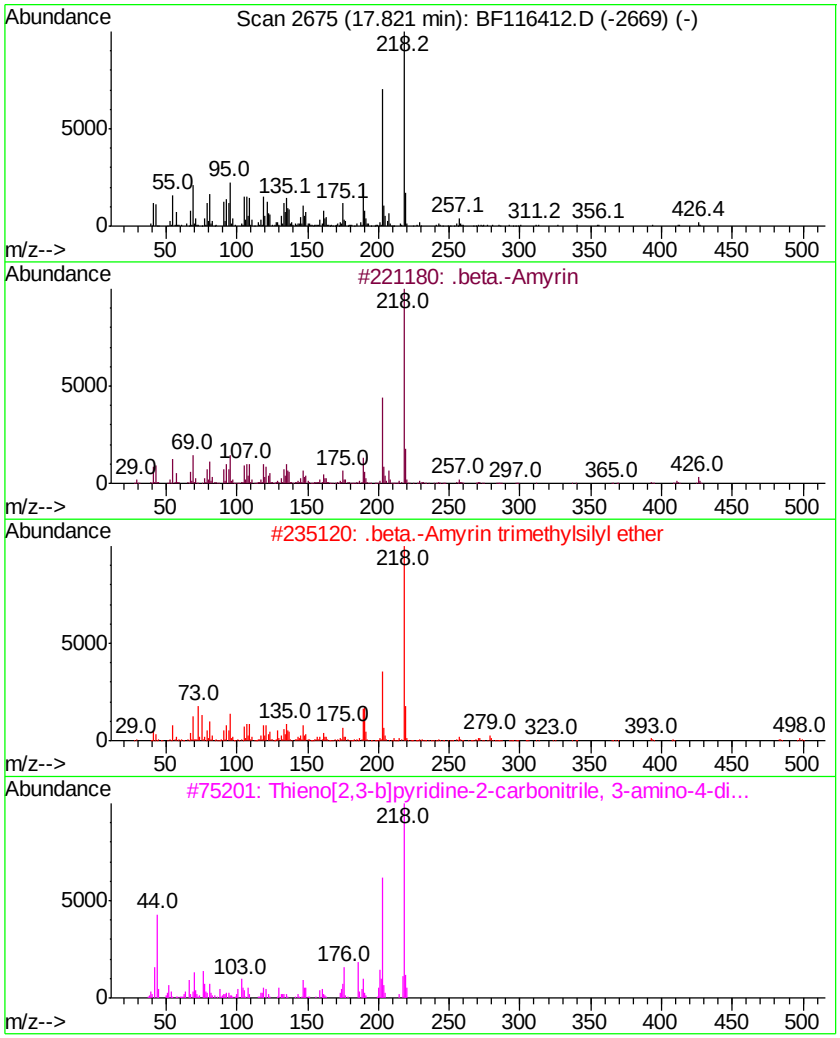
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

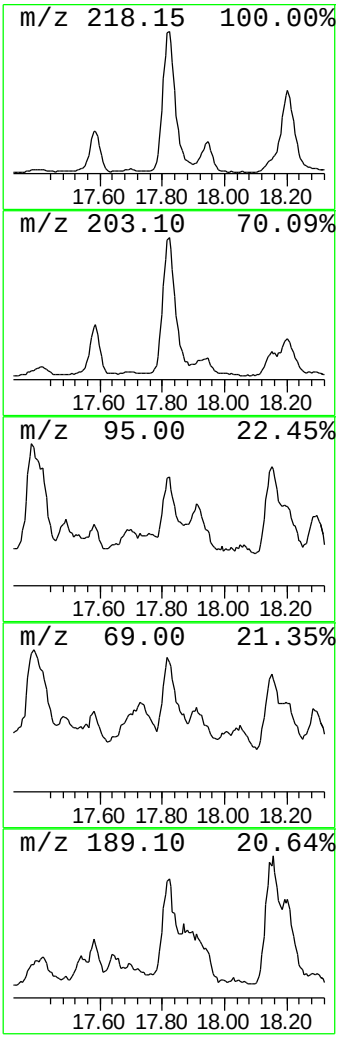
**********

Peak Number 18 .beta.-Amyrin Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.82 | 23.47 ng | 918353 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-Amyrin | 426 | C30H50O | 000559-70-6 | 98 |
| 2 | .beta.-Amyrin trimethylsilyl ether | 498 | C33H58OSi | 001721-67-1 | 80 |
| 3 | Thieno[2,3-b]pyridine-2-carbonit... | 218 | C10H10N4S | 147992-88-9 | 64 |
| 4 | 2(1H)Naphthalenone, 3,5,6,7,8,8a... | 218 | C15H22O | 1000188-66-5 | 64 |
| 5 | 6,7,8,9-Tetrahydrodibenzo[b,d]fu... | 260 | C15H16O4 | 1000196-34-3 | 62 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

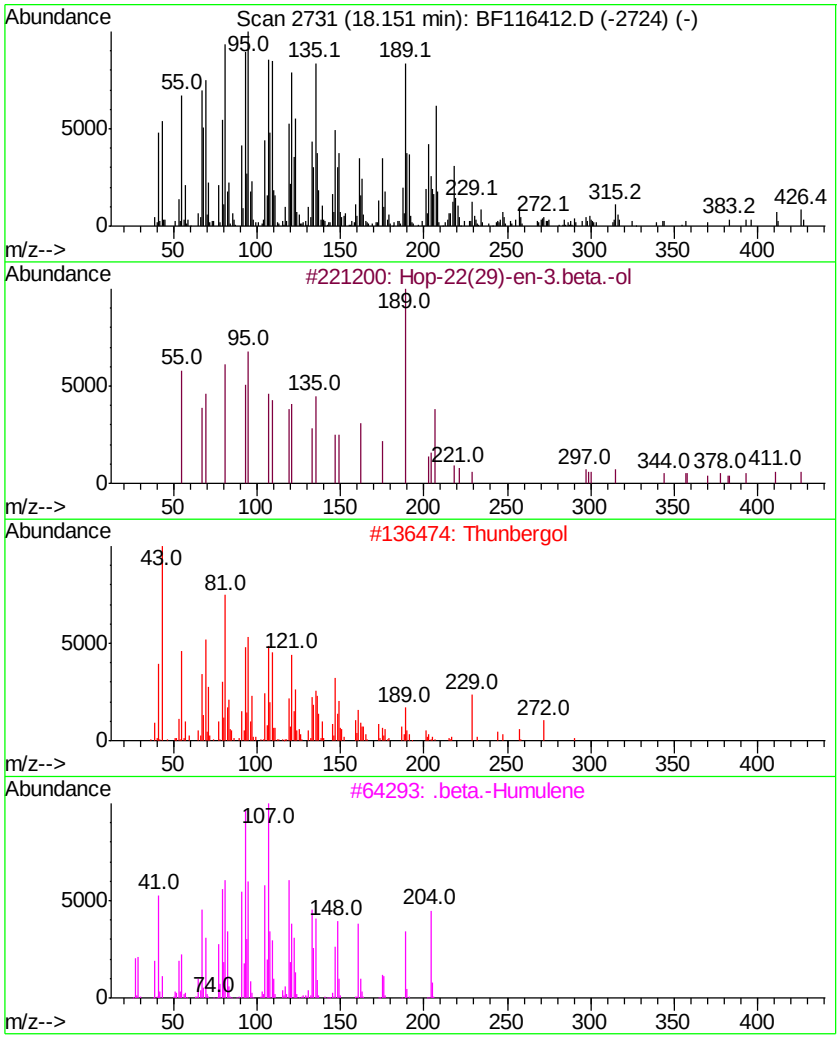
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

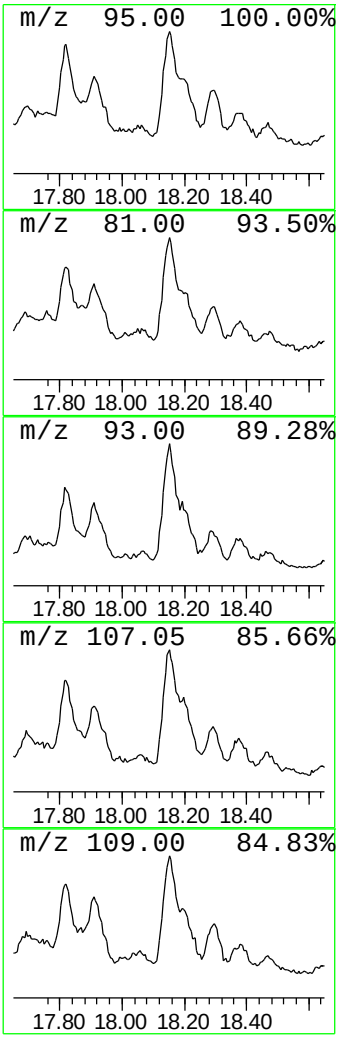
**********

Peak Number 19 Hop-22(29)-en-3.beta.-ol Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.15 | 30.38 ng | 1188620 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hop-22(29)-en-3.beta.-ol | 426 | C30H50O | 058801-23-3 | 92 |
| 2 | Thunbergol | 290 | C20H34O | 025269-17-4 | 90 |
| 3 | .beta.-Humulene | 204 | C15H24 | 000116-04-1 | 78 |
| 4 | Longifolenaldehyde | 220 | C15H24O | 019890-84-7 | 64 |
| 5 | Guaia-9,11-diene | 204 | C15H24 | 1000374-19-8 | 52 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

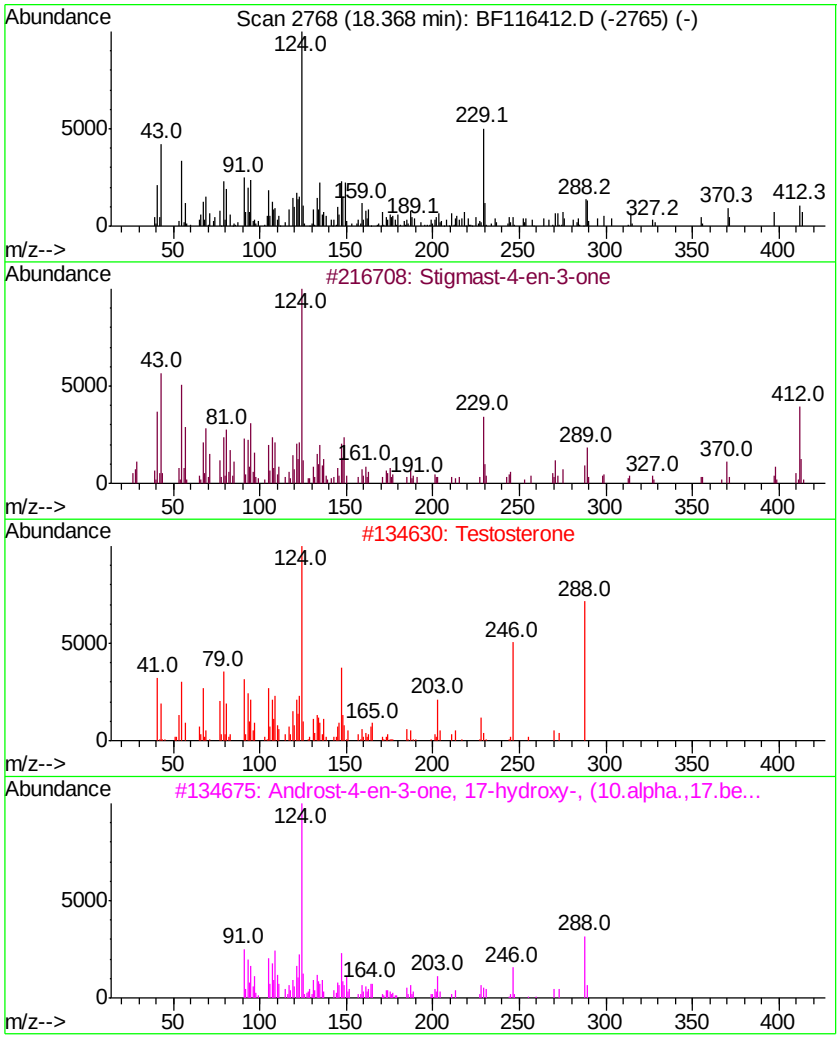
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

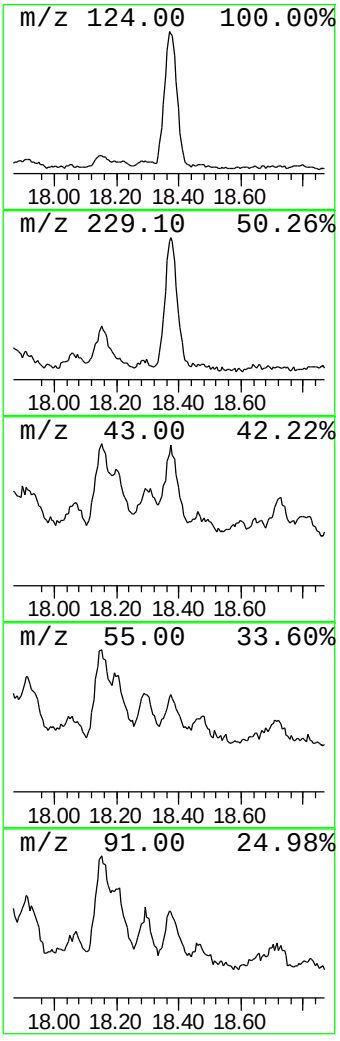
**********

Peak Number 20 Stigmast-4-en-3-one Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.37 | 11.93 ng | 466678 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Stigmast-4-en-3-one | 412 | C29H48O | 001058-61-3 | 89 |
| 2 | Testosterone | 288 | C19H28O2 | 000058-22-0 | 58 |
| 3 | Androst-4-en-3-one, 17-hydroxy-,... | 288 | C19H28O2 | 000604-39-7 | 41 |
| 4 | Cholest-5-en-3-one, 4,4-dimethyl- | 412 | C29H48O | 002220-42-0 | 38 |
| 5 | Orcinol | 124 | C7H8O2 | 000504-15-4 | 30 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081919\
Data File : BF116412.D
Acq On : 20 Aug 2019 2:26
Operator : HP/JU
Sample : K4223-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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 |
| unknown6.58 | 6.58 | 68.7 | ng | 2080720 | 1 | 6.80 | 605466 | 20.0 |
| Naphthalene, 1,2,... | 9.95 | 3.7 | ng | 180831 | 3 | 9.83 | 988406 | 20.0 |
| n-Hexadecanoic acid | 11.85 | 20.6 | ng | 1124800 | 4 | 11.32 | 1094760 | 20.0 |
| 17-Norkaur-15-ene... | 12.00 | 4.6 | ng | 253243 | 4 | 11.32 | 1094760 | 20.0 |
| Phytol | 12.45 | 7.1 | ng | 390216 | 4 | 11.32 | 1094760 | 20.0 |
| Octadecanoic acid | 12.63 | 4.2 | ng | 228246 | 4 | 11.32 | 1094760 | 20.0 |
| 2-Phenanthrenol, ... | 13.33 | 5.2 | ng | 199242 | 5 | 13.96 | 768594 | 20.0 |
| 1-Dodecanol, 2-oc... | 13.79 | 12.6 | ng | 482417 | 5 | 13.96 | 768594 | 20.0 |
| Sulfurous acid, d... | 14.41 | 19.8 | ng | 760273 | 5 | 13.96 | 768594 | 20.0 |
| Squalene | 14.78 | 6.1 | ng | 237142 | 6 | 15.42 | 782568 | 20.0 |
| 10-Heneicosene (c,t) | 15.06 | 5.1 | ng | 198349 | 6 | 15.42 | 782568 | 20.0 |
| Eicosane | 15.82 | 39.7 | ng | 1553260 | 6 | 15.42 | 782568 | 20.0 |
| n-Tetracosanol-1 | 15.87 | 6.8 | ng | 267883 | 6 | 15.42 | 782568 | 20.0 |
| dl-.alpha.-Tocoph... | 16.09 | 14.6 | ng | 572182 | 6 | 15.42 | 782568 | 20.0 |
| unknown17.30 | 17.30 | 4.9 | ng | 193133 | 6 | 15.42 | 782568 | 20.0 |
| .gamma.-Sitosterol | 17.38 | 72.4 | ng | 2832620 | 6 | 15.42 | 782568 | 20.0 |
| .beta.-Amyrin | 17.82 | 23.5 | ng | 918353 | 6 | 15.42 | 782568 | 20.0 |
| Hop-22(29)-en-3.b... | 18.15 | 30.4 | ng | 1188620 | 6 | 15.42 | 782568 | 20.0 |
| Stigmast-4-en-3-one | 18.37 | 11.9 | ng | 466678 | 6 | 15.42 | 782568 | 20.0 |