LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

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-BF020320.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 | 564 | 569 | 572 | rBV | 4384519 | 4155261 | 56.02% | 5.593% |
| 2 | 6.445 | 736 | 741 | 744 | rBV | 4050538 | 4104371 | 55.34% | 5.524% |
| 3 | 6.810 | 800 | 803 | 807 | rBV | 1547021 | 1369436 | 18.46% | 1.843% |
| 4 | 6.969 | 826 | 830 | 834 | rBV | 4279641 | 3760821 | 50.70% | 5.062% |
| 5 | 7.134 | 854 | 858 | 861 | rBV | 107222 | 92193 | 1.24% | 0.124% |
| 6 | 7.375 | 890 | 899 | 902 | rBV | 2801473 | 3002590 | 40.48% | 4.041% |
| 7 | 7.586 | 930 | 935 | 937 | rBV | 156171 | 150842 | 2.03% | 0.203% |
| 8 | 7.610 | 937 | 939 | 943 | rVB | 134360 | 112162 | 1.51% | 0.151% |
| 9 | 7.769 | 960 | 966 | 968 | rBV3 | 73665 | 111773 | 1.51% | 0.150% |
| 10 | 7.833 | 972 | 977 | 980 | rBV3 | 184233 | 222811 | 3.00% | 0.300% |
| 11 | 7.869 | 980 | 983 | 986 | rVB2 | 81123 | 84689 | 1.14% | 0.114% |
| 12 | 8.092 | 1017 | 1021 | 1023 | rBV | 2043691 | 1875039 | 25.28% | 2.524% |
| 13 | 8.116 | 1023 | 1025 | 1028 | rVB | 659584 | 541356 | 7.30% | 0.729% |
| 14 | 8.480 | 1084 | 1087 | 1090 | rBV | 119952 | 108276 | 1.46% | 0.146% |
| 15 | 8.804 | 1137 | 1142 | 1146 | rBV | 1072700 | 961243 | 12.96% | 1.294% |
| 16 | 8.904 | 1154 | 1159 | 1163 | rBV | 713944 | 631105 | 8.51% | 0.849% |
| 17 | 9.169 | 1199 | 1204 | 1208 | rBV | 5907934 | 5767230 | 77.75% | 7.762% |
| 18 | 9.269 | 1217 | 1221 | 1224 | rBV | 280771 | 230308 | 3.11% | 0.310% |
| 19 | 9.363 | 1232 | 1237 | 1243 | rVB | 135386 | 169392 | 2.28% | 0.228% |
| 20 | 9.433 | 1243 | 1249 | 1254 | rBV2 | 208627 | 295139 | 3.98% | 0.397% |
| 21 | 9.510 | 1257 | 1262 | 1264 | rBV | 265079 | 279195 | 3.76% | 0.376% |
| 22 | 9.533 | 1264 | 1266 | 1268 | rVV | 182505 | 146885 | 1.98% | 0.198% |
| 23 | 9.563 | 1268 | 1271 | 1278 | rVB | 260848 | 241731 | 3.26% | 0.325% |
| 24 | 9.627 | 1278 | 1282 | 1286 | rBV | 103753 | 128119 | 1.73% | 0.172% |
| 25 | 9.710 | 1292 | 1296 | 1301 | rVB | 76328 | 77963 | 1.05% | 0.105% |
| 26 | 9.851 | 1313 | 1320 | 1322 | rBV | 2476467 | 2404157 | 32.41% | 3.236% |
| 27 | 9.880 | 1322 | 1325 | 1329 | rVB | 2121726 | 1781504 | 24.02% | 2.398% |
| 28 | 10.004 | 1342 | 1346 | 1350 | rBV2 | 73358 | 78236 | 1.05% | 0.105% |
| 29 | 10.051 | 1350 | 1354 | 1358 | rBV | 1232415 | 1068613 | 14.41% | 1.438% |
| 30 | 10.392 | 1408 | 1412 | 1418 | rBV | 1500365 | 1477664 | 19.92% | 1.989% |
| 31 | 10.480 | 1425 | 1427 | 1430 | rVB | 178501 | 136735 | 1.84% | 0.184% |
| 32 | 10.551 | 1437 | 1439 | 1444 | rVB | 209389 | 186105 | 2.51% | 0.250% |
| 33 | 10.639 | 1449 | 1454 | 1460 | rBV | 4375244 | 4555602 | 61.42% | 6.132% |
| 34 | 10.757 | 1470 | 1474 | 1479 | rVB4 | 83741 | 99766 | 1.35% | 0.134% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.827 | 1481 | 1486 | 1491 | rBV | 76532 | 95336 | 1.29% | 0.128% |
| 36 | 10.945 | 1498 | 1506 | 1508 | rBV2 | 127866 | 179342 | 2.42% | 0.241% |
| 37 | 11.186 | 1543 | 1547 | 1549 | rBV2 | 57335 | 83950 | 1.13% | 0.113% |
| 38 | 11.227 | 1551 | 1554 | 1561 | rVB | 416245 | 374049 | 5.04% | 0.503% |
| 39 | 11.333 | 1567 | 1572 | 1574 | rBV | 2787120 | 2761558 | 37.23% | 3.717% |
| 40 | 11.357 | 1574 | 1576 | 1580 | rVV | 4417387 | 4052841 | 54.64% | 5.455% |
| 41 | 11.404 | 1580 | 1584 | 1588 | rVB | 480991 | 495626 | 6.68% | 0.667% |
| 42 | 11.563 | 1607 | 1611 | 1620 | rBV2 | 139201 | 184660 | 2.49% | 0.249% |
| 43 | 11.786 | 1646 | 1649 | 1653 | rBV3 | 96995 | 113030 | 1.52% | 0.152% |
| 44 | 11.833 | 1653 | 1657 | 1659 | rBV | 241344 | 211161 | 2.85% | 0.284% |
| 45 | 11.863 | 1659 | 1662 | 1668 | rVV | 1129738 | 1197307 | 16.14% | 1.612% |
| 46 | 11.910 | 1668 | 1670 | 1673 | rVB | 110557 | 93275 | 1.26% | 0.126% |
| 47 | 11.945 | 1673 | 1676 | 1679 | rBV | 517492 | 521569 | 7.03% | 0.702% |
| 48 | 12.127 | 1702 | 1707 | 1710 | rBV2 | 200411 | 277020 | 3.73% | 0.373% |
| 49 | 12.545 | 1774 | 1778 | 1781 | rBV | 2527804 | 2235322 | 30.14% | 3.009% |
| 50 | 12.645 | 1791 | 1795 | 1801 | rBV | 289070 | 344346 | 4.64% | 0.463% |
| 51 | 12.692 | 1801 | 1803 | 1808 | rVV | 94764 | 104610 | 1.41% | 0.141% |
| 52 | 12.774 | 1810 | 1817 | 1819 | rVV | 1506724 | 1807749 | 24.37% | 2.433% |
| 53 | 12.821 | 1823 | 1825 | 1831 | rVB3 | 89481 | 92426 | 1.25% | 0.124% |
| 54 | 12.921 | 1837 | 1842 | 1845 | rVV | 7477304 | 7417283 | 100.00% | 9.983% |
| 55 | 12.992 | 1849 | 1854 | 1857 | rBV2 | 56079 | 86773 | 1.17% | 0.117% |
| 56 | 13.098 | 1870 | 1872 | 1876 | rVB | 214162 | 193715 | 2.61% | 0.261% |
| 57 | 13.168 | 1880 | 1884 | 1886 | rVB | 216697 | 210168 | 2.83% | 0.283% |
| 58 | 13.204 | 1886 | 1890 | 1892 | rBV2 | 83233 | 81297 | 1.10% | 0.109% |
| 59 | 13.715 | 1973 | 1977 | 1980 | rBV | 66990 | 88256 | 1.19% | 0.119% |
| 60 | 13.815 | 1991 | 1994 | 2004 | rVB2 | 554251 | 692911 | 9.34% | 0.933% |
| 61 | 13.968 | 2012 | 2020 | 2023 | rBV | 3118706 | 3439152 | 46.37% | 4.629% |
| 62 | 14.133 | 2045 | 2048 | 2054 | rVB2 | 123497 | 145064 | 1.96% | 0.195% |
| 63 | 14.439 | 2096 | 2100 | 2105 | rBV2 | 226295 | 316965 | 4.27% | 0.427% |
| 64 | 14.745 | 2149 | 2152 | 2155 | rVB | 242477 | 235906 | 3.18% | 0.318% |
| 65 | 14.815 | 2160 | 2164 | 2171 | rVB | 1227720 | 1237863 | 16.69% | 1.666% |
| 66 | 14.998 | 2191 | 2195 | 2198 | rBV | 147389 | 222906 | 3.01% | 0.300% |
| 67 | 15.074 | 2204 | 2208 | 2211 | rBV | 273359 | 315490 | 4.25% | 0.425% |
| 68 | 15.351 | 2252 | 2255 | 2261 | rVB | 92771 | 116289 | 1.57% | 0.157% |
| 69 | 15.415 | 2261 | 2266 | 2270 | rBV | 1859739 | 2675635 | 36.07% | 3.601% |
| 70 | 15.868 | 2339 | 2343 | 2348 | rBV | 185800 | 279834 | 3.77% | 0.377% |
| 71 | 15.933 | 2350 | 2354 | 2362 | rVB5 | 55006 | 114847 | 1.55% | 0.155% |

LSC Area Percent Report

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Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.292 | 2409 | 2415 | 2422 | rBV5 | 84706 | 178498 | 2.41% | 0.240% |
| 73 | 16.362 | 2423 | 2427 | 2433 | rVB | 102355 | 171173 | 2.31% | 0.230% |
| 74 | 16.851 | 2506 | 2510 | 2519 | rVV2 | 47999 | 109025 | 1.47% | 0.147% |
| 75 | 16.939 | 2523 | 2525 | 2531 | rVB2 | 59032 | 103419 | 1.39% | 0.139% |
| 76 | 17.274 | 2576 | 2582 | 2590 | rVB | 51714 | 155628 | 2.10% | 0.209% |
| 77 | 17.386 | 2596 | 2601 | 2606 | rBV7 | 37334 | 76015 | 1.02% | 0.102% |

Sum of corrected areas: 74297601

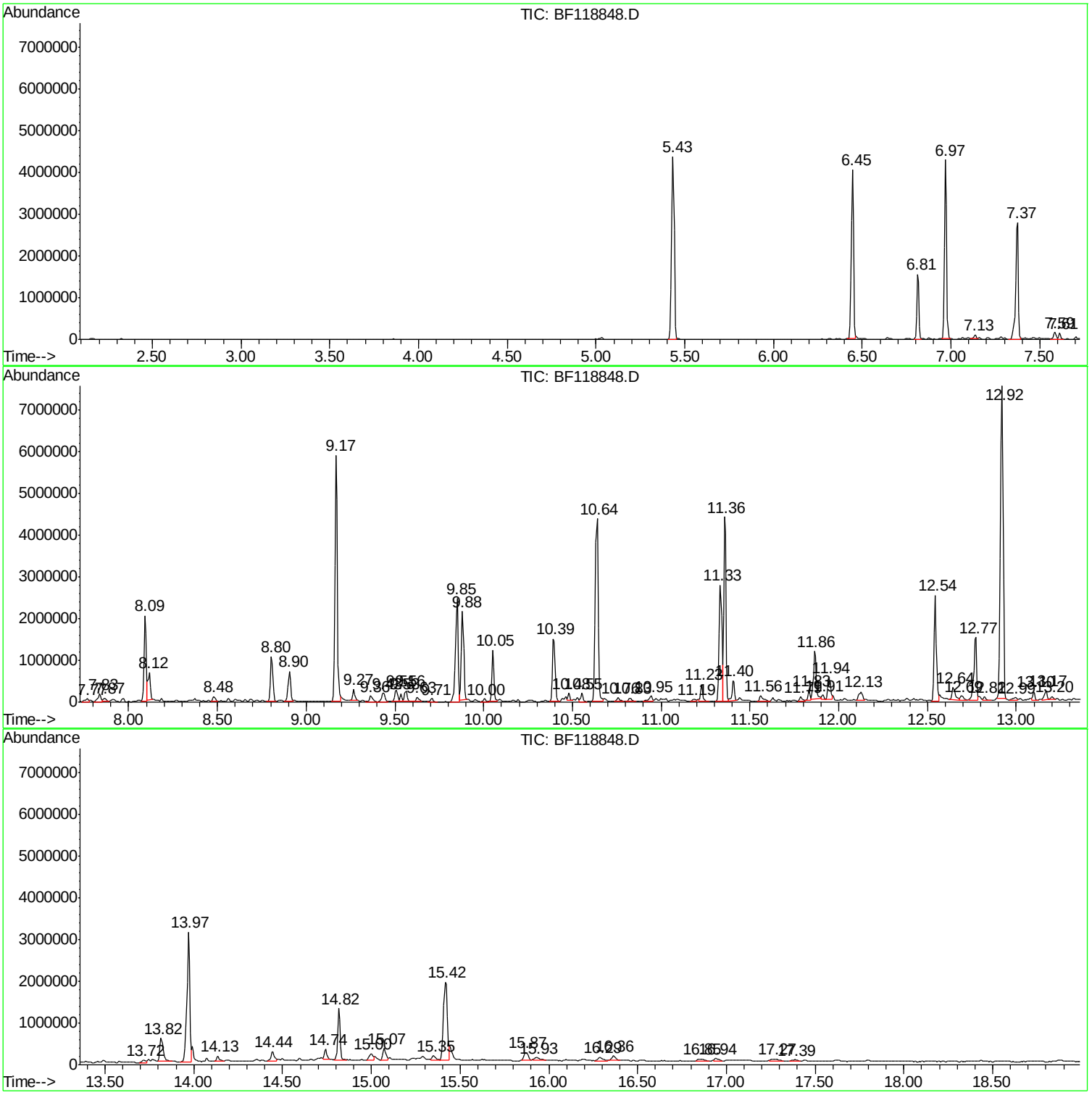
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

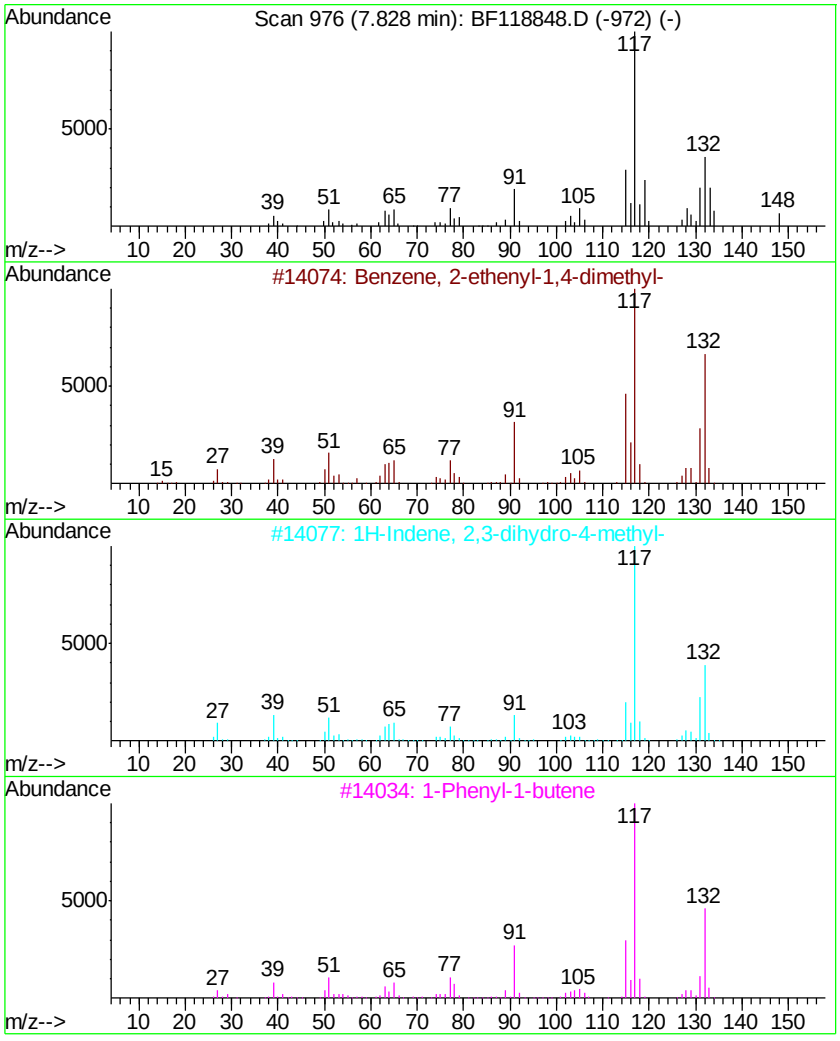
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

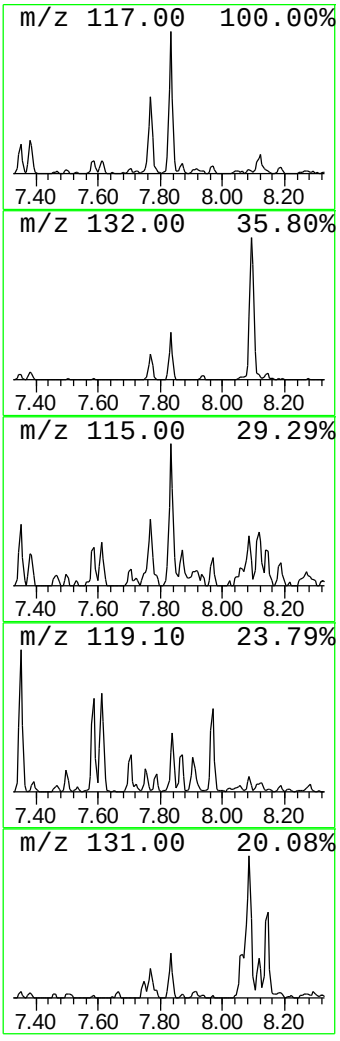
**********

Peak Number 2 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.83 | 2.38 ng | 222811 | Naphthalene-d8 | 8.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 91 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 64 |
| 3 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 64 |
| 4 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 64 |
| 5 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 60 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

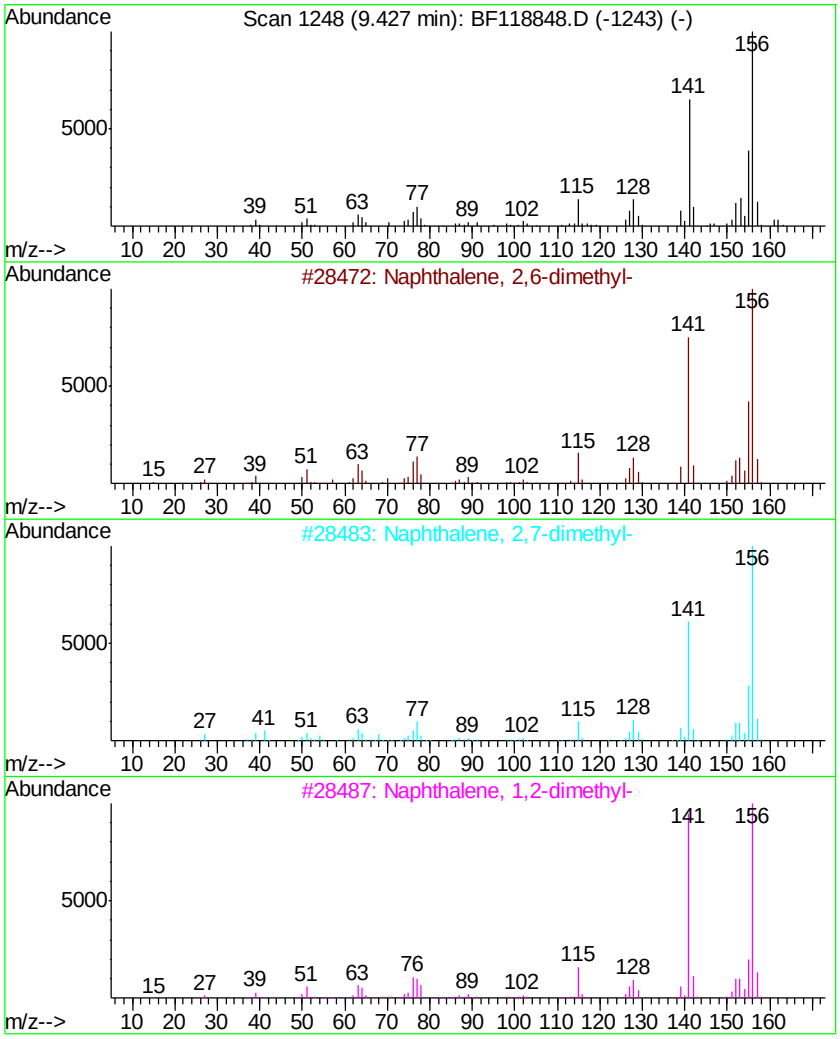
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

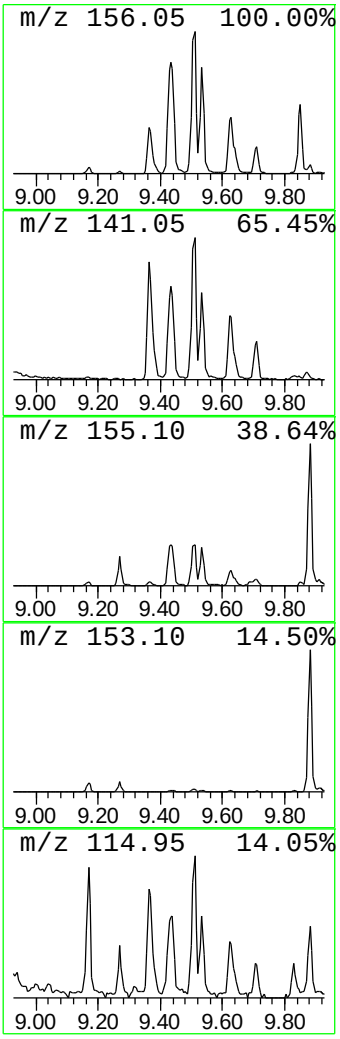
**********

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.43 | 2.46 ng | 295139 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 96 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

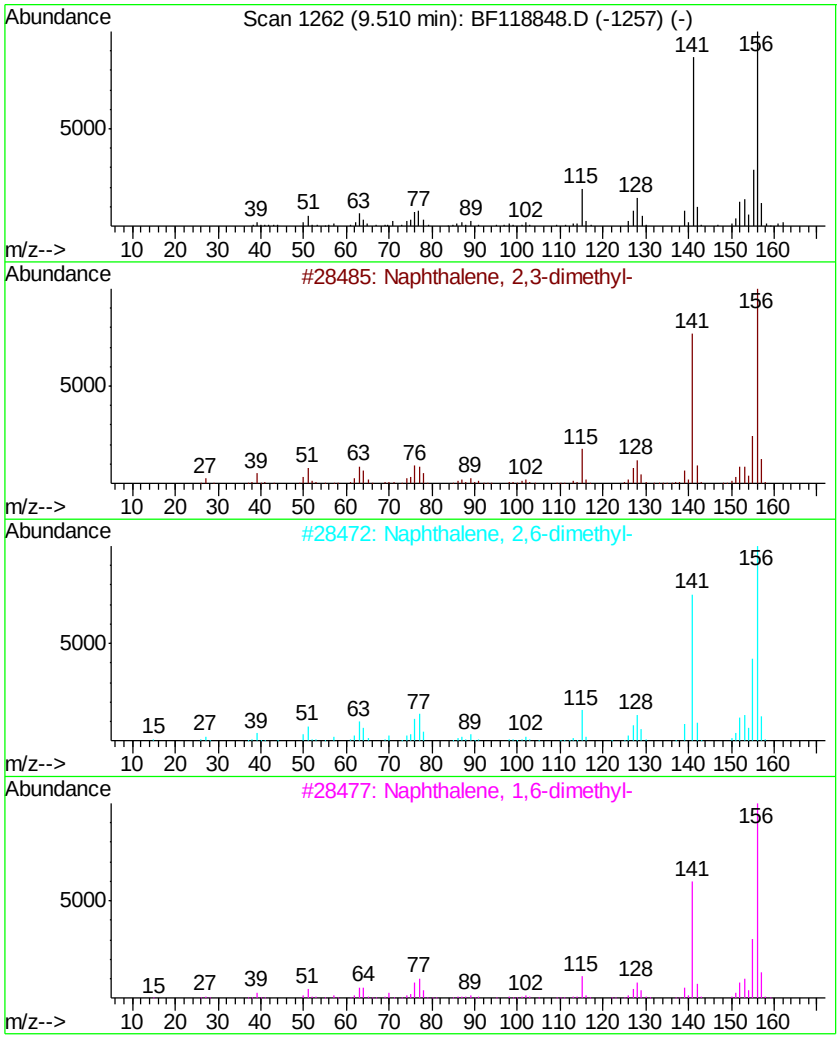
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

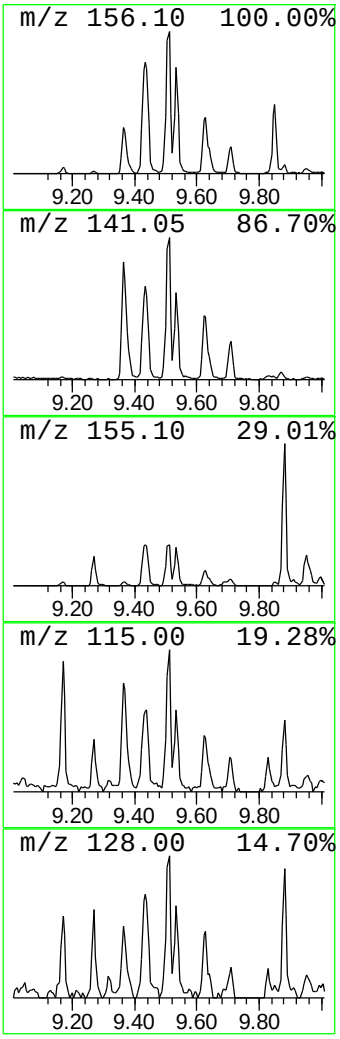
**********

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.51 | 2.32 ng | 279195 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

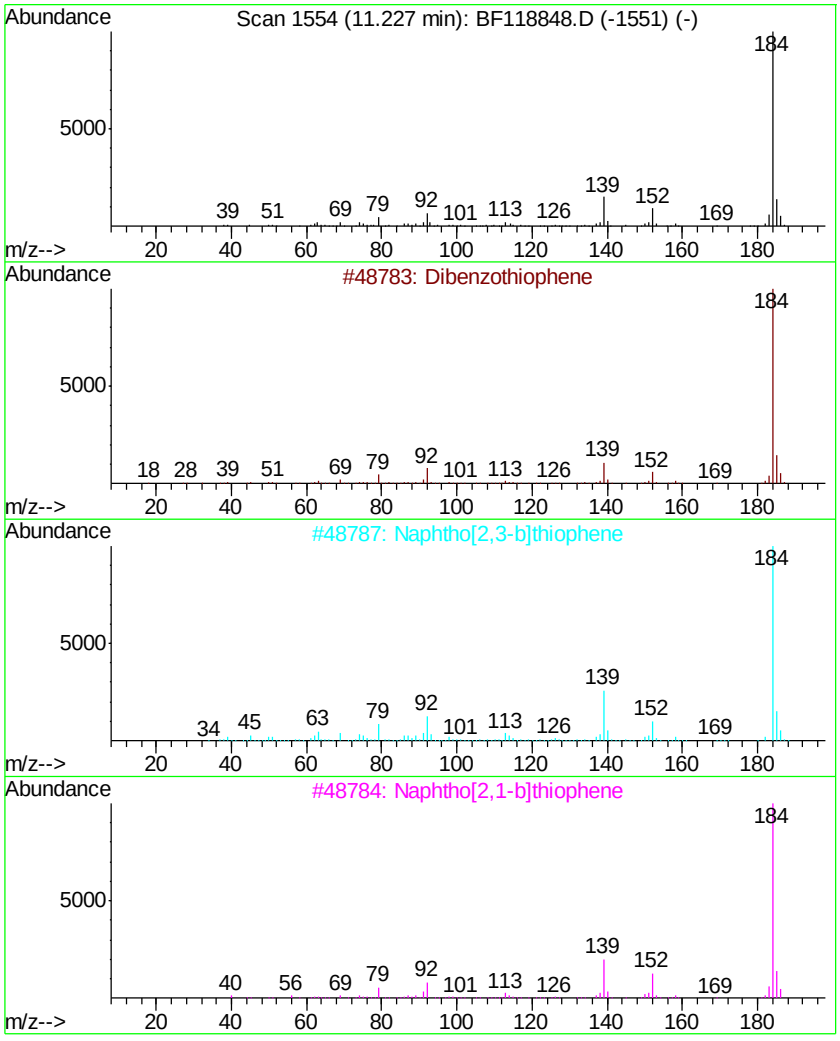
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

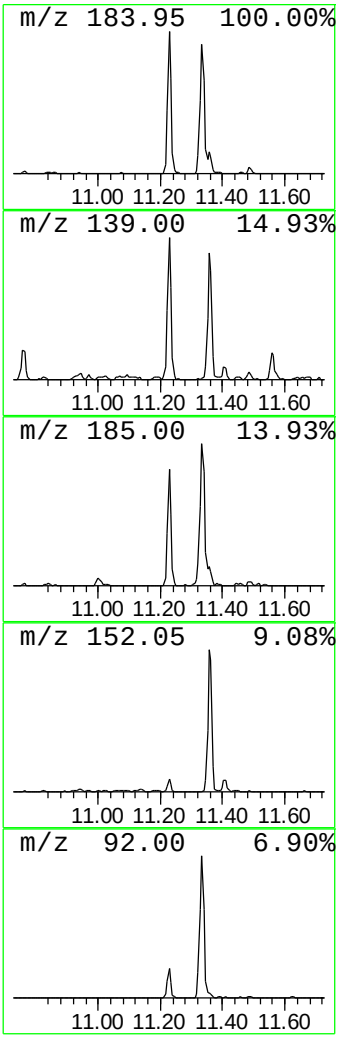
**********

Peak Number 5 Dibenzothiophene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.23 | 2.71 ng | 374049 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 3 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 4 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 95 |
| 5 | 1,1'-Biphenyl, 2-methoxy- | 184 | C13H12O | 000086-26-0 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

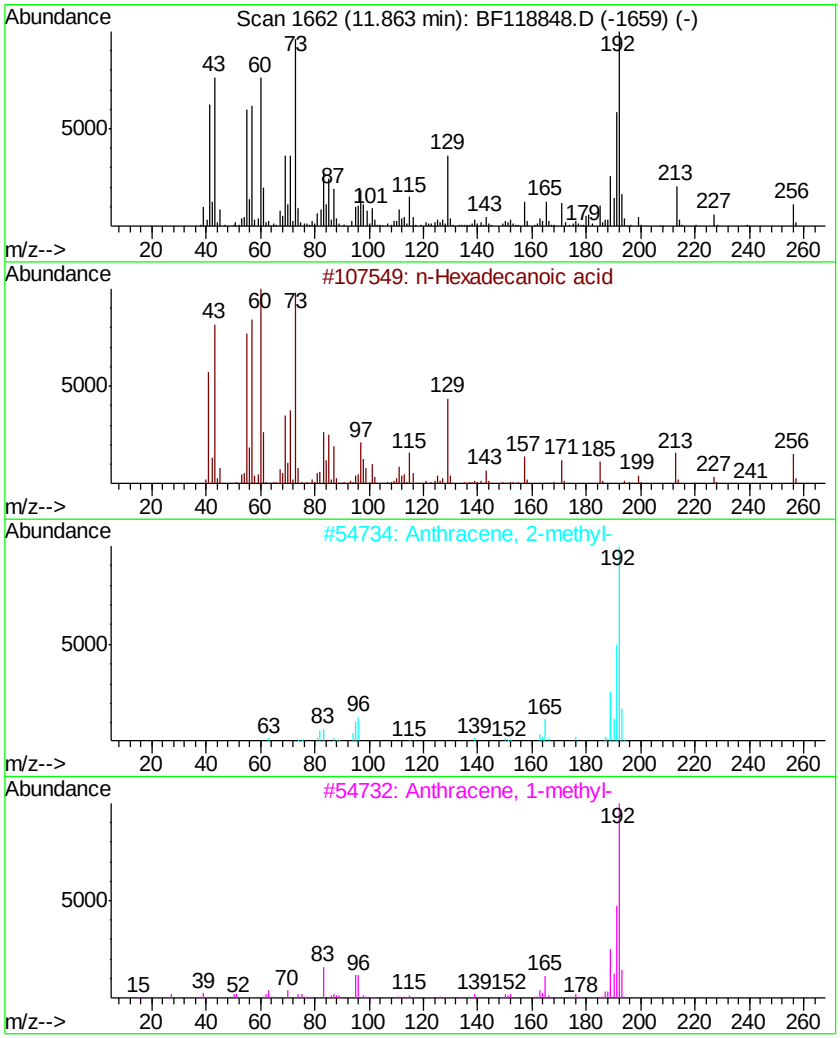
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

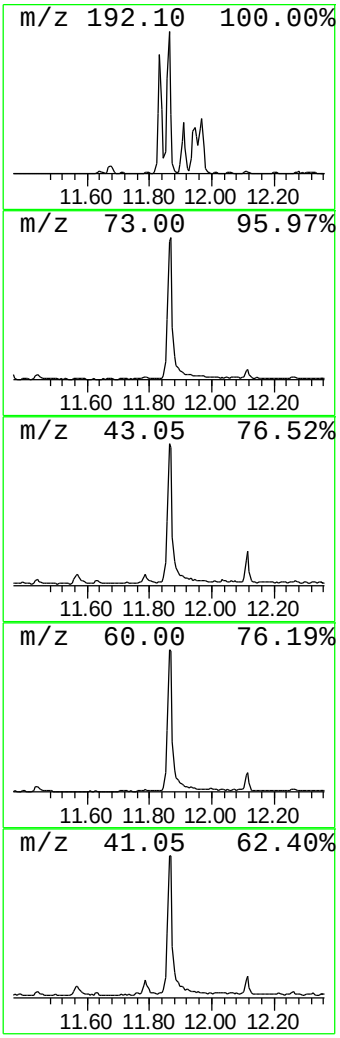
**********

Peak Number 6 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 8.67 ng | 1197310 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 92 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 92 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

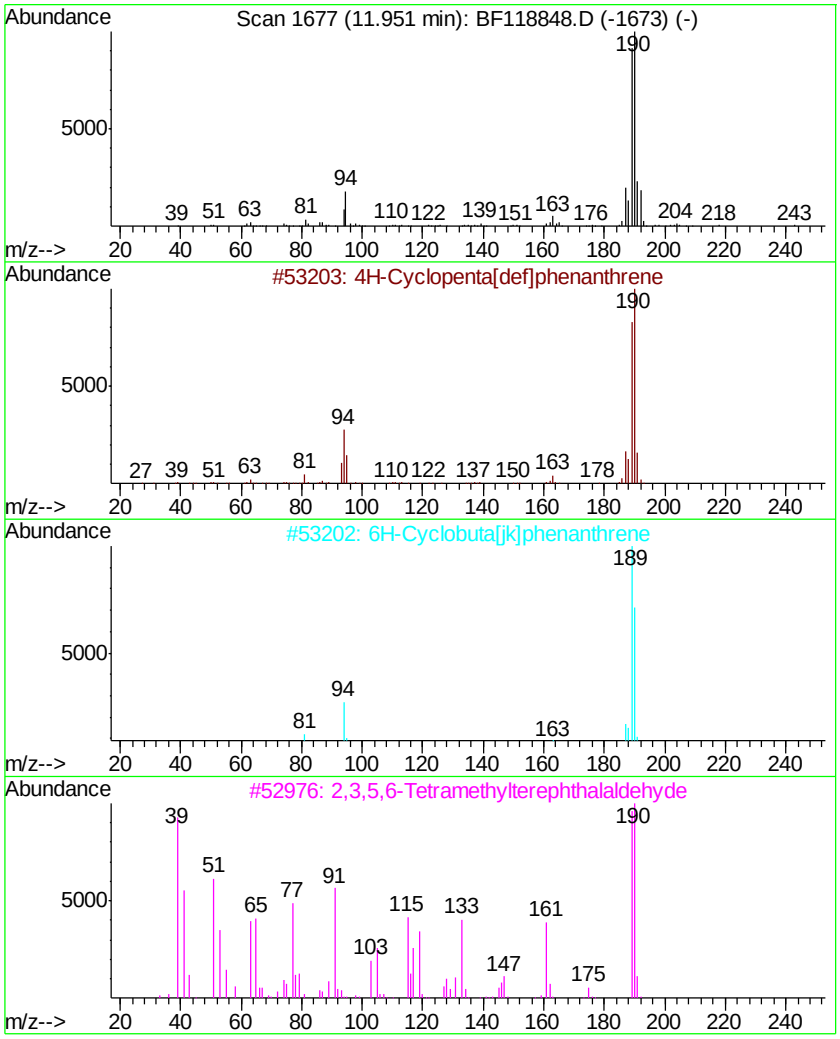
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

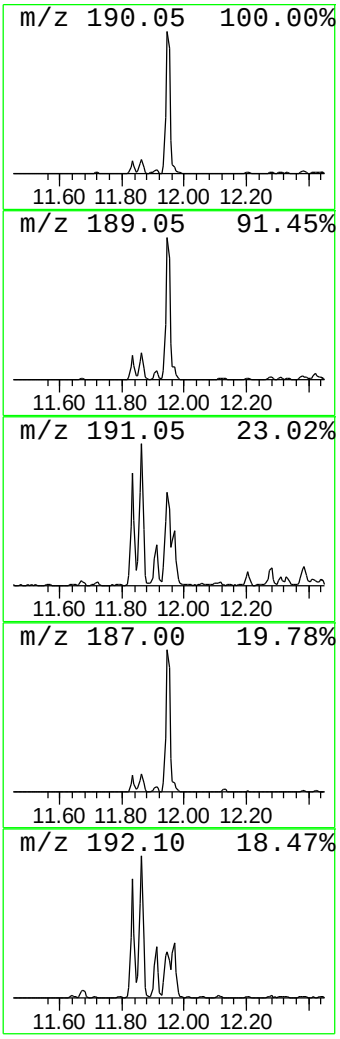
**********

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.95 | 3.78 ng | 521569 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 72 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |
| 5 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 40 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

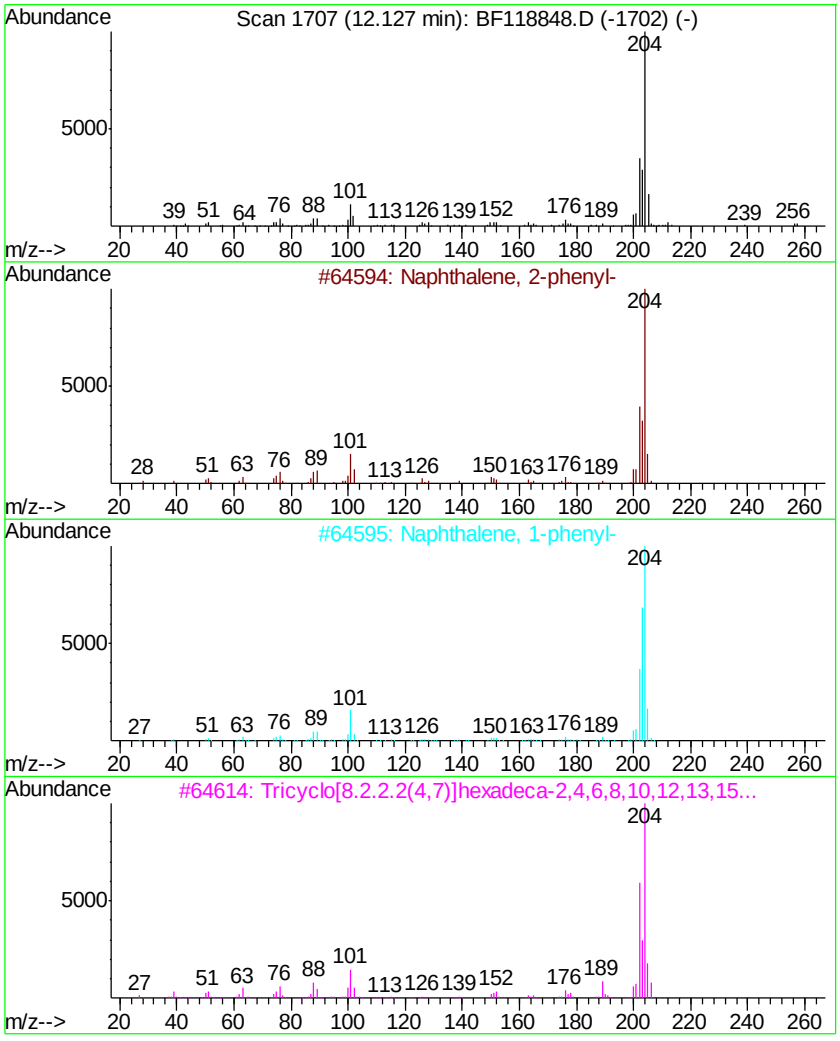
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

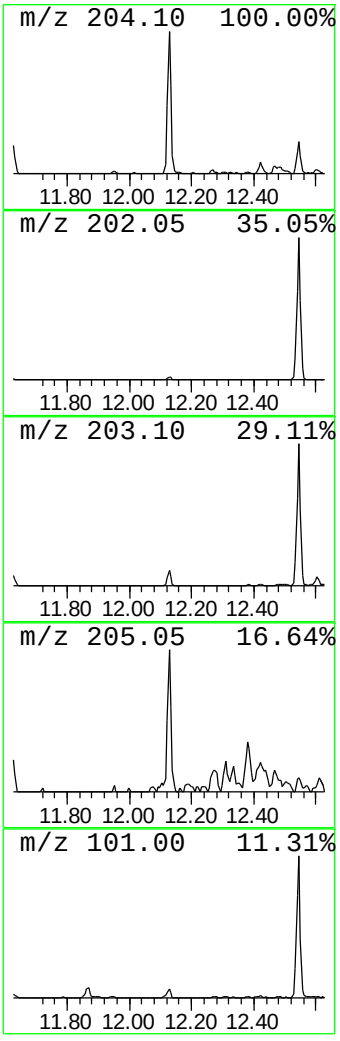
**********

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.13 | 2.01 ng | 277020 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 96 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 93 |
| 3 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 91 |
| 4 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 90 |
| 5 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 86 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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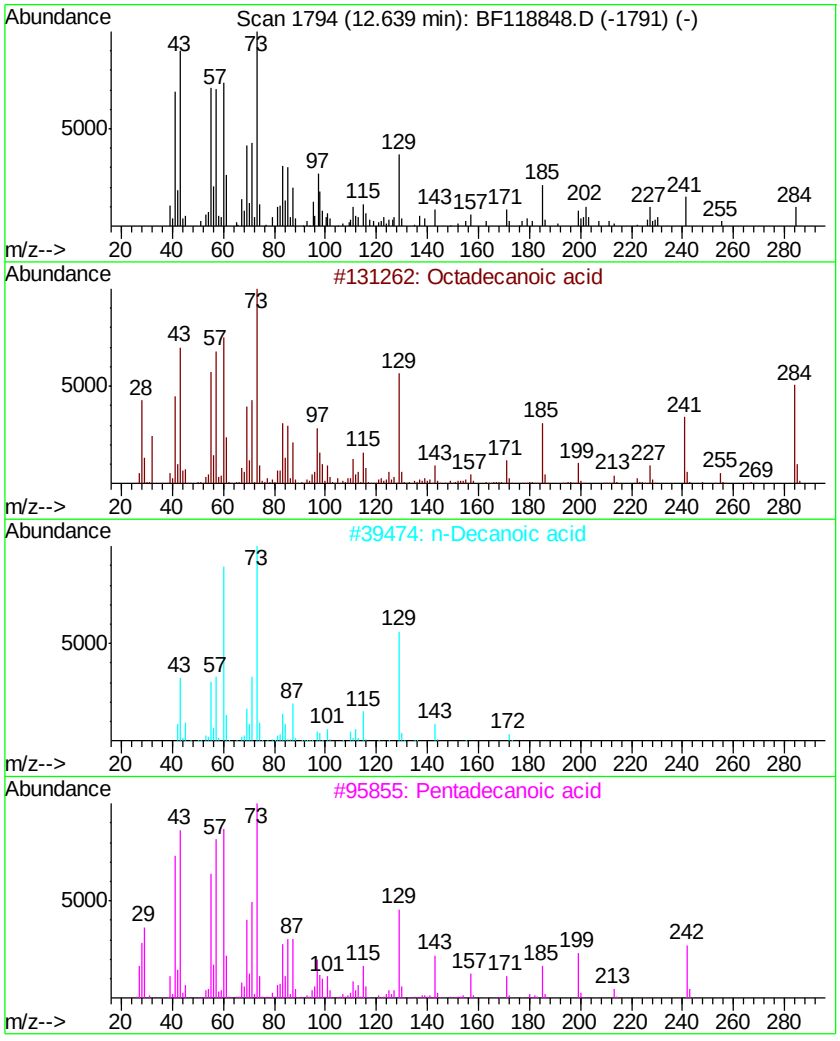
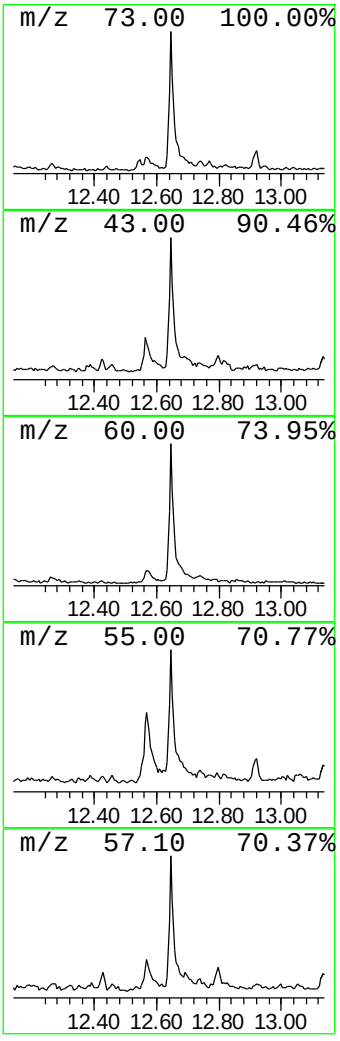
Peak Number 9 Octadecanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.64 | 2.49 ng | 344346 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 90 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 4 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 64 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64 |



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Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

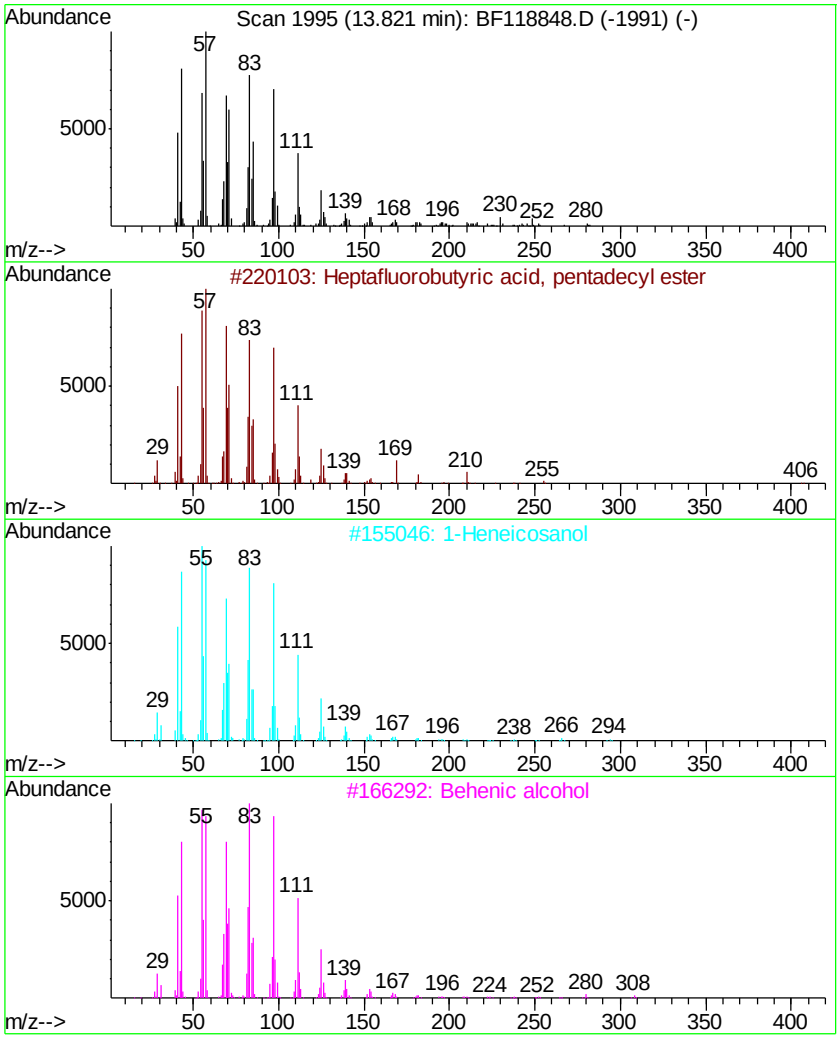
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

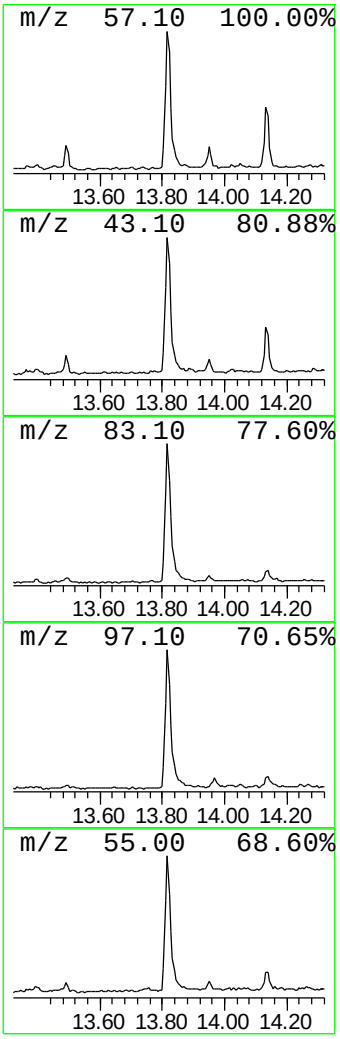
**********

Peak Number 10 Heptafluorobutyric acid, pe... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.82 | 4.03 ng | 692911 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 93 |
| 3 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |
| 4 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91 |
| 5 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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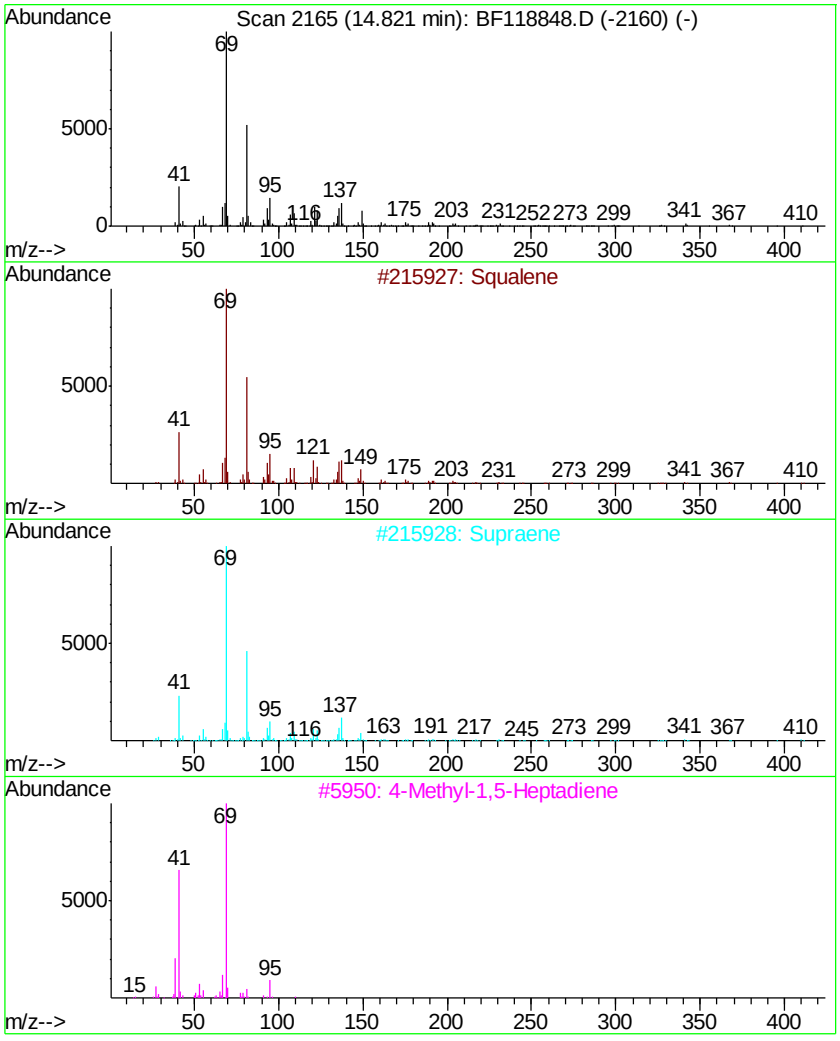
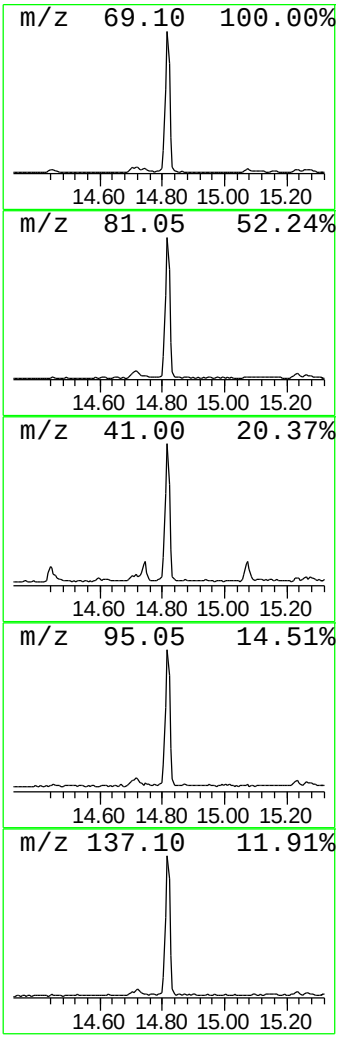
Peak Number 11 Squalene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.82 | 9.25 ng | 1237860 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 000111-02-4 | 96 |
| 2 | Supraene | 410 | C30H50 | 007683-64-9 | 91 |
| 3 | 4-Methyl-1,5-Heptadiene | 110 | C8H14 | 000998-94-7 | 52 |
| 4 | 2,6-Octadiene, 4-methyl- | 124 | C9H16 | 074498-94-5 | 50 |
| 5 | 1,5-Heptadiene, 2,6-dimethyl- | 124 | C9H16 | 006709-39-3 | 47 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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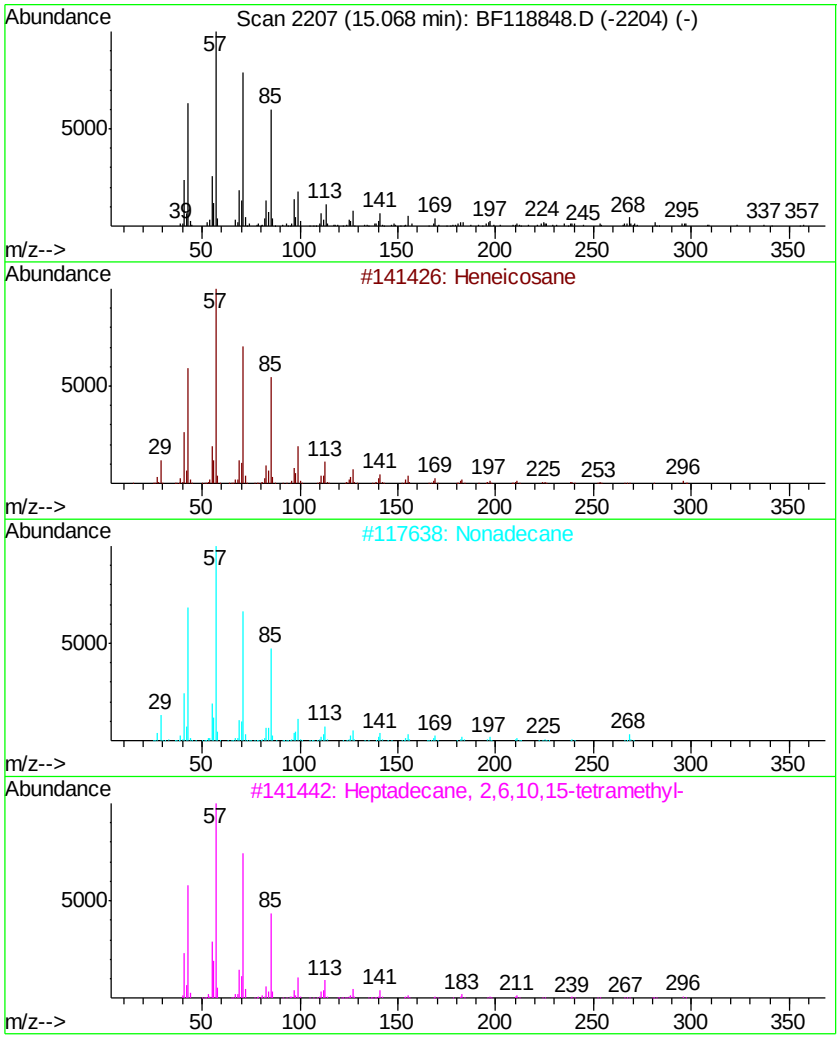
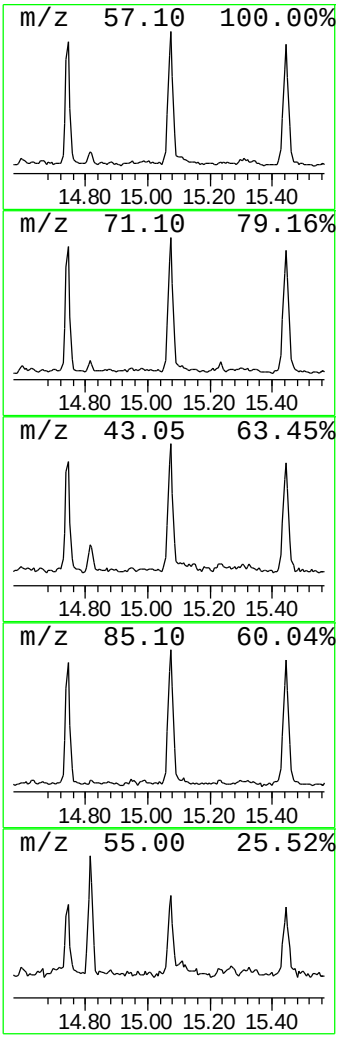
Peak Number 12 Heneicosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.07 | 2.36 ng | 315490 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 99 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 96 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 93 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 90 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

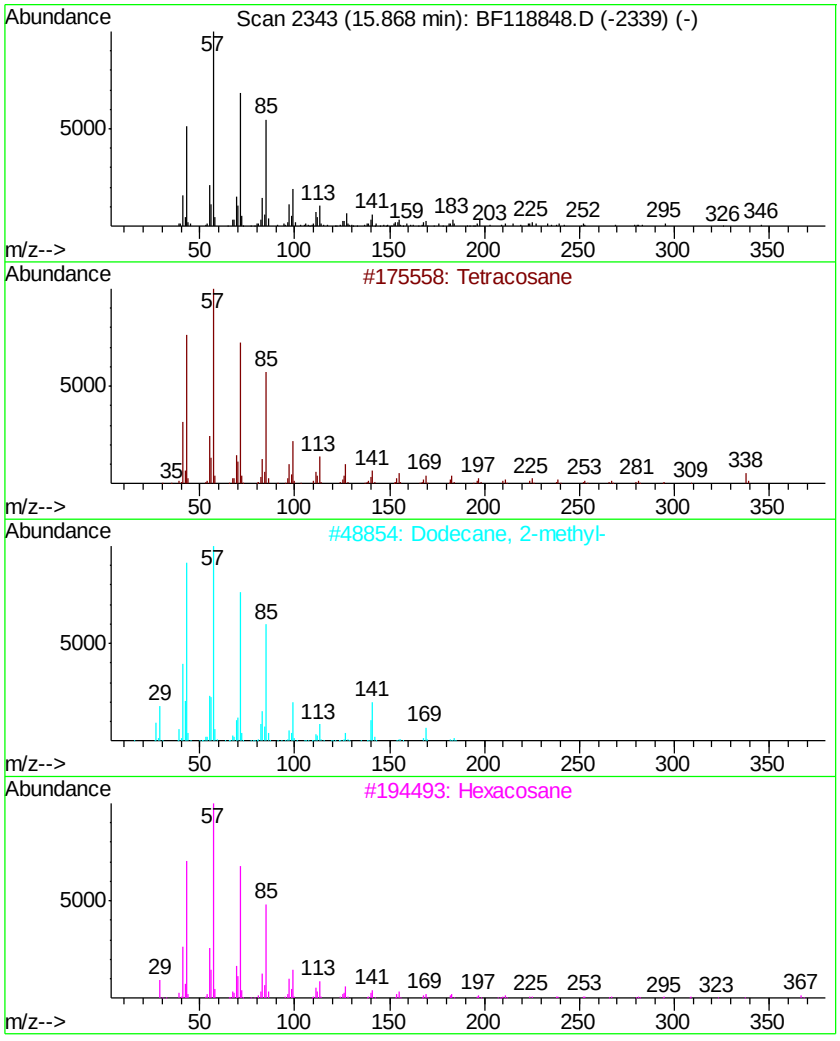
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

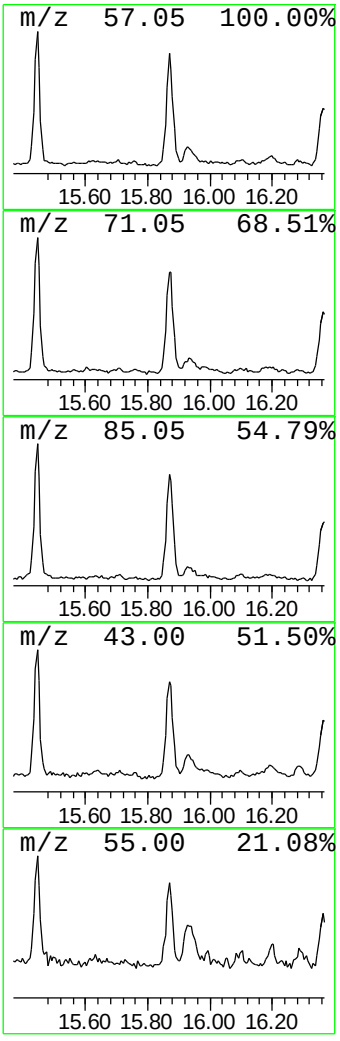
**********

Peak Number 13 Tetracosane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.87 | 2.09 ng | 279834 | Perylene-d12 | 15.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 2 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 90 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF020720\
Data File : BF118848.D
Acq On : 7 Feb 2020 14:08
Operator : CG/JU
Sample : L1431-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 350

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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 |
| Benzene, 2-etheny... | 7.83 | 2.4 | ng | 222811 | 2 | 8.09 | 1875040 | 20.0 |
| Naphthalene, 2,6-... | 9.43 | 2.5 | ng | 295139 | 3 | 9.85 | 2404160 | 20.0 |
| Naphthalene, 2,3-... | 9.51 | 2.3 | ng | 279195 | 3 | 9.85 | 2404160 | 20.0 |
| Dibenzothiophene | 11.23 | 2.7 | ng | 374049 | 4 | 11.33 | 2761560 | 20.0 |
| n-Hexadecanoic acid | 11.86 | 8.7 | ng | 1197310 | 4 | 11.33 | 2761560 | 20.0 |
| 4H-Cyclopenta[def... | 11.95 | 3.8 | ng | 521569 | 4 | 11.33 | 2761560 | 20.0 |
| Naphthalene, 2-ph... | 12.13 | 2.0 | ng | 277020 | 4 | 11.33 | 2761560 | 20.0 |
| Octadecanoic acid | 12.64 | 2.5 | ng | 344346 | 4 | 11.33 | 2761560 | 20.0 |
| Heptafluorobutyri... | 13.82 | 4.0 | ng | 692911 | 5 | 13.97 | 3439150 | 20.0 |
| Squalene | 14.82 | 9.3 | ng | 1237860 | 6 | 15.42 | 2675640 | 20.0 |
| Heneicosane | 15.07 | 2.4 | ng | 315490 | 6 | 15.42 | 2675640 | 20.0 |
| Tetracosane | 15.87 | 2.1 | ng | 279834 | 6 | 15.42 | 2675640 | 20.0 |