LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

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:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.996 | 234 | 237 | 248 | rBV | 610575 | 870737 | 32.39% | 2.476% |
| 2 | 5.419 | 272 | 274 | 277 | rBV | 1841433 | 2194694 | 81.65% | 6.240% |
| 3 | 5.830 | 308 | 310 | 312 | rBV | 54891 | 72432 | 2.69% | 0.206% |
| 4 | 6.459 | 363 | 365 | 368 | rBV | 1748212 | 2207400 | 82.12% | 6.276% |
| 5 | 6.596 | 374 | 377 | 379 | rBV | 2359641 | 2528834 | 94.08% | 7.190% |
| 6 | 6.824 | 394 | 397 | 399 | rBV | 784181 | 682071 | 25.38% | 1.939% |
| 7 | 6.984 | 408 | 411 | 413 | rBV | 1541183 | 1984870 | 73.84% | 5.643% |
| 8 | 7.396 | 444 | 447 | 449 | rBV | 1105568 | 1555510 | 57.87% | 4.423% |
| 9 | 7.499 | 452 | 456 | 462 | rVB | 29353 | 58310 | 2.17% | 0.166% |
| 10 | 8.105 | 507 | 509 | 512 | rBV | 778349 | 839058 | 31.22% | 2.386% |
| 11 | 8.390 | 531 | 534 | 539 | rBV | 13199 | 35426 | 1.32% | 0.101% |
| 12 | 8.813 | 569 | 571 | 577 | rBV | 56224 | 78093 | 2.91% | 0.222% |
| 13 | 9.190 | 601 | 604 | 606 | rBV | 2372220 | 2687938 | 100.00% | 7.642% |
| 14 | 9.579 | 636 | 638 | 642 | rVB | 417257 | 364389 | 13.56% | 1.036% |
| 15 | 9.796 | 655 | 657 | 659 | rVB | 73950 | 59875 | 2.23% | 0.170% |
| 16 | 9.865 | 660 | 663 | 665 | rBV | 821764 | 830144 | 30.88% | 2.360% |
| 17 | 10.299 | 696 | 701 | 702 | rBV2 | 57660 | 105577 | 3.93% | 0.300% |
| 18 | 10.516 | 717 | 720 | 723 | rBV | 34142 | 60635 | 2.26% | 0.172% |
| 19 | 10.653 | 729 | 732 | 734 | rBV | 1217286 | 1335323 | 49.68% | 3.797% |
| 20 | 10.768 | 740 | 742 | 748 | rBV | 102666 | 127746 | 4.75% | 0.363% |
| 21 | 10.962 | 756 | 759 | 762 | rBV4 | 17503 | 43079 | 1.60% | 0.122% |
| 22 | 11.019 | 762 | 764 | 766 | rBV2 | 24853 | 37818 | 1.41% | 0.108% |
| 23 | 11.213 | 778 | 781 | 782 | rBV | 76190 | 74032 | 2.75% | 0.210% |
| 24 | 11.236 | 782 | 783 | 787 | rVB3 | 28054 | 37511 | 1.40% | 0.107% |
| 25 | 11.293 | 787 | 788 | 790 | rBV | 59746 | 79091 | 2.94% | 0.225% |
| 26 | 11.339 | 790 | 792 | 796 | rVV2 | 658298 | 995614 | 37.04% | 2.831% |
| 27 | 11.419 | 796 | 799 | 801 | rVB2 | 54646 | 97646 | 3.63% | 0.278% |
| 28 | 11.568 | 809 | 812 | 817 | rBV2 | 49956 | 97544 | 3.63% | 0.277% |
| 29 | 11.636 | 817 | 818 | 819 | rBV | 39759 | 37466 | 1.39% | 0.107% |
| 30 | 11.728 | 824 | 826 | 830 | rVB2 | 50178 | 78965 | 2.94% | 0.225% |
| 31 | 11.819 | 830 | 834 | 835 | rBV2 | 33910 | 69738 | 2.59% | 0.198% |
| 32 | 11.842 | 835 | 836 | 837 | rVV | 76920 | 72187 | 2.69% | 0.205% |
| 33 | 11.876 | 837 | 839 | 844 | rVV2 | 386081 | 446379 | 16.61% | 1.269% |
| 34 | 11.956 | 844 | 846 | 851 | rVB2 | 86659 | 134515 | 5.00% | 0.382% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

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:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.048 | 851 | 854 | 856 | rBV2 | 54435 | 92655 | 3.45% | 0.263% |
| 36 | 12.082 | 856 | 857 | 860 | rVV2 | 27313 | 37774 | 1.41% | 0.107% |
| 37 | 12.139 | 860 | 862 | 863 | rVV | 44381 | 44435 | 1.65% | 0.126% |
| 38 | 12.162 | 863 | 864 | 866 | rVV | 38593 | 73611 | 2.74% | 0.209% |
| 39 | 12.196 | 866 | 867 | 869 | rVV | 176274 | 136803 | 5.09% | 0.389% |
| 40 | 12.288 | 871 | 875 | 876 | rVV3 | 29394 | 33119 | 1.23% | 0.094% |
| 41 | 12.391 | 882 | 884 | 886 | rBV | 46581 | 54235 | 2.02% | 0.154% |
| 42 | 12.436 | 886 | 888 | 890 | rVB | 112192 | 142515 | 5.30% | 0.405% |
| 43 | 12.482 | 890 | 892 | 895 | rBV2 | 45363 | 57019 | 2.12% | 0.162% |
| 44 | 12.551 | 895 | 898 | 900 | rBV | 518965 | 607297 | 22.59% | 1.727% |
| 45 | 12.596 | 900 | 902 | 905 | rVB3 | 43544 | 72431 | 2.69% | 0.206% |
| 46 | 12.654 | 905 | 907 | 909 | rBV2 | 90933 | 117859 | 4.38% | 0.335% |
| 47 | 12.745 | 914 | 915 | 916 | rBV | 133261 | 161652 | 6.01% | 0.460% |
| 48 | 12.779 | 916 | 918 | 921 | rVB | 455180 | 493619 | 18.36% | 1.403% |
| 49 | 12.928 | 928 | 931 | 933 | rBV | 2064765 | 1868070 | 69.50% | 5.311% |
| 50 | 12.996 | 934 | 937 | 941 | rBV3 | 44197 | 75933 | 2.82% | 0.216% |
| 51 | 13.065 | 941 | 943 | 944 | rBV2 | 25877 | 36904 | 1.37% | 0.105% |
| 52 | 13.111 | 944 | 947 | 948 | rVB | 56208 | 72310 | 2.69% | 0.206% |
| 53 | 13.157 | 949 | 951 | 954 | rVB2 | 411221 | 396611 | 14.76% | 1.128% |
| 54 | 13.214 | 954 | 956 | 957 | rBV | 58638 | 63522 | 2.36% | 0.181% |
| 55 | 13.305 | 962 | 964 | 966 | rBV | 50907 | 39770 | 1.48% | 0.113% |
| 56 | 13.374 | 969 | 970 | 975 | rBV4 | 28743 | 45741 | 1.70% | 0.130% |
| 57 | 13.454 | 975 | 977 | 979 | rVB | 129978 | 102230 | 3.80% | 0.291% |
| 58 | 13.499 | 979 | 981 | 982 | rBV | 85964 | 88568 | 3.30% | 0.252% |
| 59 | 13.614 | 989 | 991 | 996 | rVB2 | 58159 | 84575 | 3.15% | 0.240% |
| 60 | 13.728 | 998 | 1001 | 1002 | rBV | 67242 | 82837 | 3.08% | 0.236% |
| 61 | 13.774 | 1004 | 1005 | 1007 | rVV | 34771 | 52830 | 1.97% | 0.150% |
| 62 | 13.831 | 1007 | 1010 | 1013 | rVV | 403178 | 593983 | 22.10% | 1.689% |
| 63 | 13.979 | 1018 | 1023 | 1029 | rBV2 | 815281 | 1370077 | 50.97% | 3.895% |
| 64 | 14.082 | 1029 | 1032 | 1033 | rBV | 68373 | 77287 | 2.88% | 0.220% |
| 65 | 14.139 | 1035 | 1037 | 1041 | rBV3 | 76830 | 147541 | 5.49% | 0.419% |
| 66 | 14.265 | 1047 | 1048 | 1050 | rBV | 45041 | 37058 | 1.38% | 0.105% |
| 67 | 14.368 | 1052 | 1057 | 1058 | rBV3 | 39801 | 79516 | 2.96% | 0.226% |
| 68 | 14.402 | 1058 | 1060 | 1061 | rBV2 | 23564 | 31537 | 1.17% | 0.090% |
| 69 | 14.460 | 1061 | 1065 | 1068 | rBV | 239570 | 487784 | 18.15% | 1.387% |
| 70 | 14.688 | 1081 | 1085 | 1087 | rBV3 | 61380 | 98446 | 3.66% | 0.280% |
| 71 | 14.745 | 1087 | 1090 | 1091 | rVV | 66762 | 82129 | 3.06% | 0.234% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

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:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.814 | 1094 | 1096 | 1097 | rVV2 | 37367 | 38500 | 1.43% | 0.109% |
| 73 | 14.882 | 1100 | 1102 | 1104 | rVV | 278447 | 284858 | 10.60% | 0.810% |
| 74 | 14.997 | 1109 | 1112 | 1116 | rBV | 217552 | 454765 | 16.92% | 1.293% |
| 75 | 15.065 | 1116 | 1118 | 1119 | rBV | 221593 | 333301 | 12.40% | 0.948% |
| 76 | 15.088 | 1119 | 1120 | 1123 | rVB2 | 430180 | 499695 | 18.59% | 1.421% |
| 77 | 15.282 | 1134 | 1137 | 1140 | rVB | 121150 | 161805 | 6.02% | 0.460% |
| 78 | 15.340 | 1140 | 1142 | 1145 | rBV | 171660 | 221408 | 8.24% | 0.630% |
| 79 | 15.397 | 1145 | 1147 | 1151 | rBV | 448419 | 623022 | 23.18% | 1.771% |
| 80 | 15.602 | 1163 | 1165 | 1169 | rBV | 182340 | 293245 | 10.91% | 0.834% |
| 81 | 15.831 | 1182 | 1185 | 1187 | rBV | 184146 | 299819 | 11.15% | 0.852% |
| 82 | 15.877 | 1187 | 1189 | 1193 | rVV | 287917 | 639304 | 23.78% | 1.818% |
| 83 | 15.980 | 1196 | 1198 | 1202 | rVB2 | 66535 | 110275 | 4.10% | 0.314% |
| 84 | 16.083 | 1202 | 1207 | 1210 | rVB5 | 49164 | 133548 | 4.97% | 0.380% |
| 85 | 16.174 | 1213 | 1215 | 1217 | rBV3 | 18491 | 33775 | 1.26% | 0.096% |
| 86 | 16.300 | 1223 | 1226 | 1228 | rBV | 27437 | 42739 | 1.59% | 0.122% |
| 87 | 16.574 | 1247 | 1250 | 1253 | rBV2 | 56097 | 118019 | 4.39% | 0.336% |
| 88 | 16.780 | 1265 | 1268 | 1271 | rBV | 88087 | 195997 | 7.29% | 0.557% |
| 89 | 16.848 | 1271 | 1274 | 1278 | rVB | 85009 | 189872 | 7.06% | 0.540% |
| 90 | 16.940 | 1279 | 1282 | 1286 | rBV3 | 66290 | 194920 | 7.25% | 0.554% |
| 91 | 17.020 | 1286 | 1289 | 1292 | rVV3 | 47080 | 143687 | 5.35% | 0.409% |
| 92 | 17.077 | 1292 | 1294 | 1300 | rVB4 | 70896 | 178137 | 6.63% | 0.506% |
| 93 | 17.203 | 1301 | 1305 | 1308 | rBV | 45221 | 104621 | 3.89% | 0.297% |
| 94 | 17.317 | 1312 | 1315 | 1319 | rBV5 | 63087 | 185958 | 6.92% | 0.529% |
| 95 | 17.568 | 1334 | 1337 | 1340 | rVB2 | 43067 | 80837 | 3.01% | 0.230% |
| 96 | 17.626 | 1340 | 1342 | 1344 | rVV2 | 22914 | 34549 | 1.29% | 0.098% |
| 97 | 17.683 | 1344 | 1347 | 1350 | rVB4 | 25196 | 65269 | 2.43% | 0.186% |
| 98 | 17.980 | 1371 | 1373 | 1379 | rVB4 | 23714 | 55291 | 2.06% | 0.157% |
| 99 | 18.277 | 1394 | 1399 | 1404 | rVB | 85057 | 242932 | 9.04% | 0.691% |
| 100 | 18.528 | 1417 | 1421 | 1427 | rBV4 | 29935 | 90397 | 3.36% | 0.257% |

Sum of corrected areas: 35171475

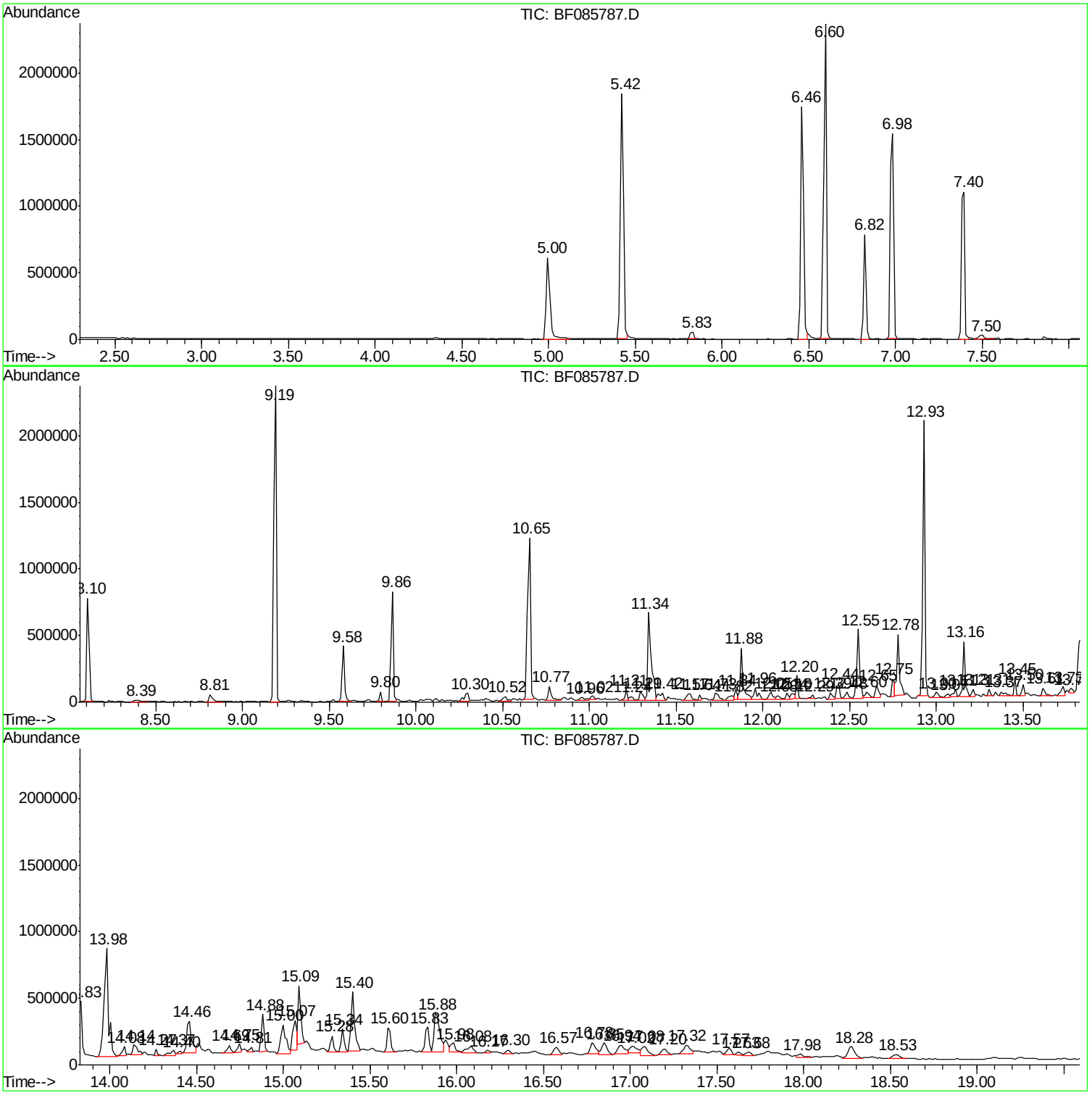
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

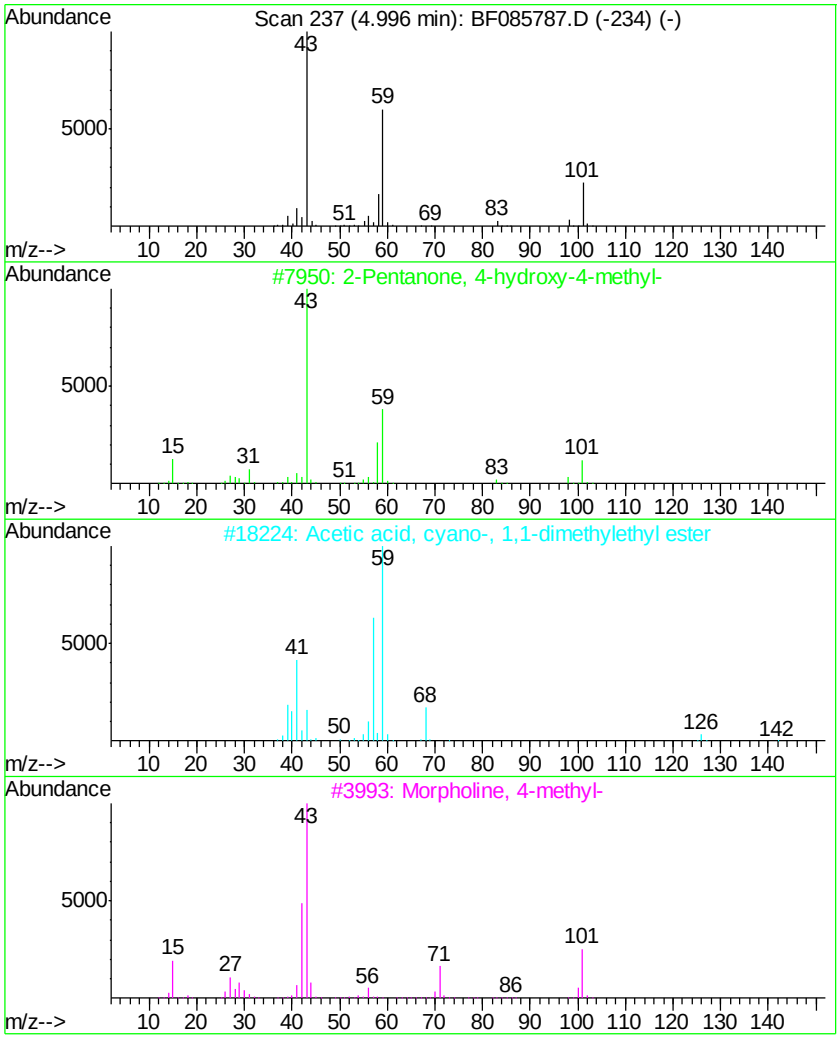
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

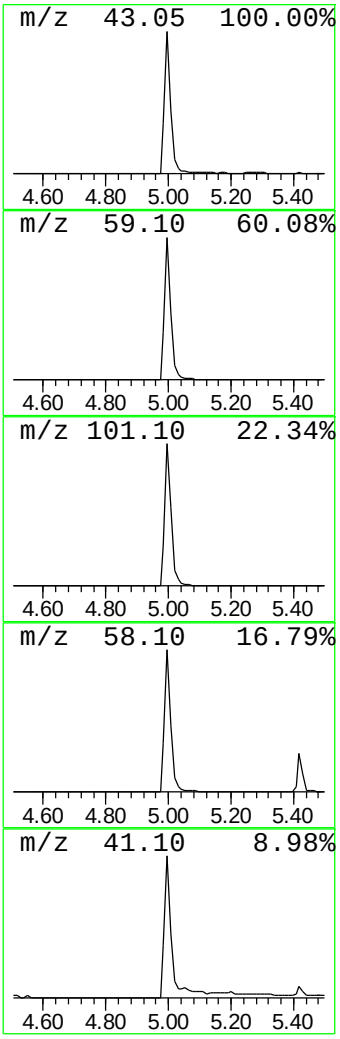
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.00 | 25.53 ng | 870737 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 72 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

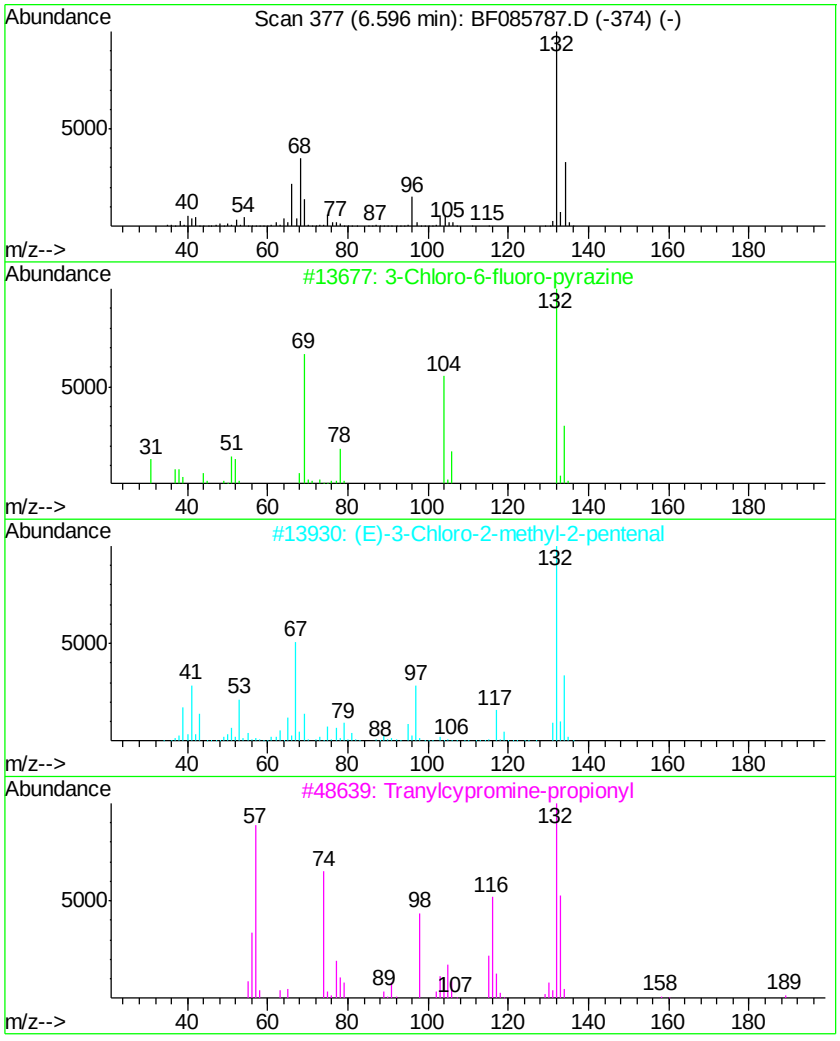
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

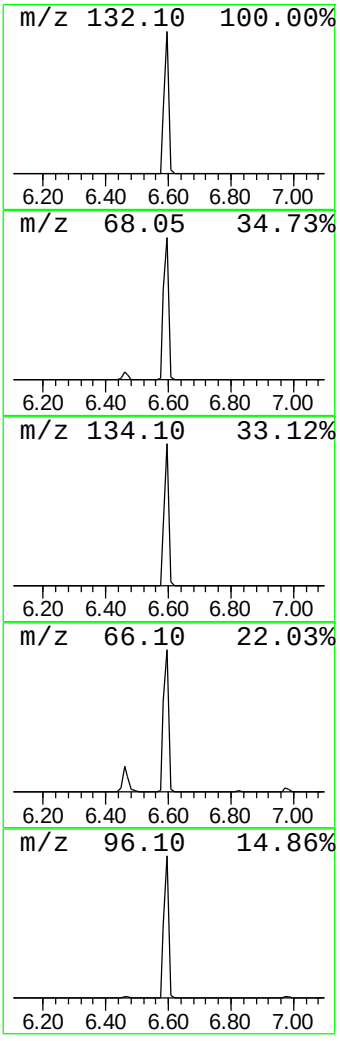
**********

Peak Number 2 unknown6.60 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.60 | 74.15 ng | 2528830 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

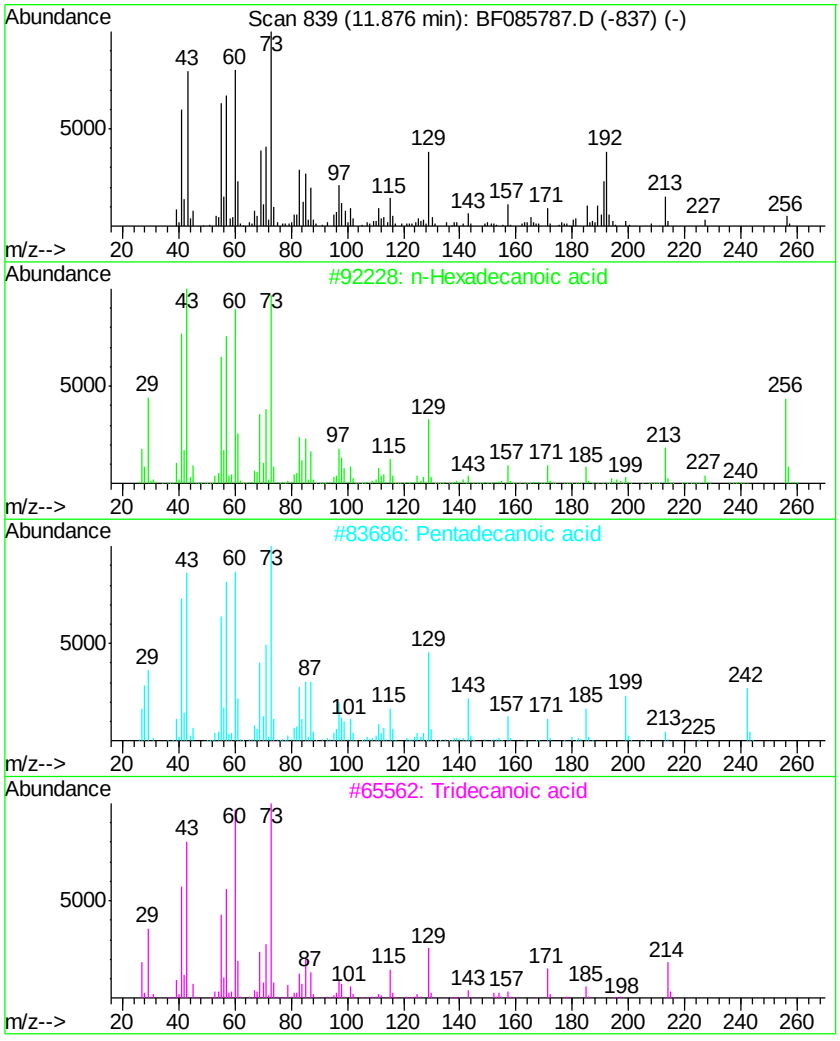
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

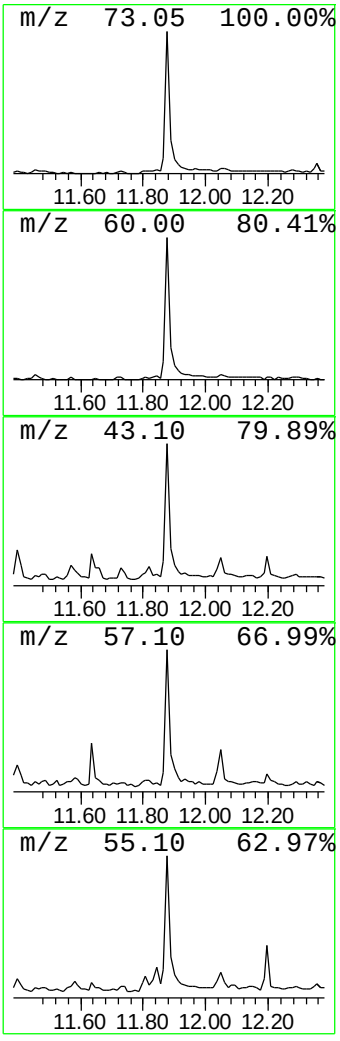
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.88 | 8.97 ng | 446379 | Phenanthrene-d10 | 11.34 |

| 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 | 70 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 62 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 58 |
| 5 | .alpha.-D-Glucopyranoside, .alph... | 342 | C12H22O11 | 000099-20-7 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

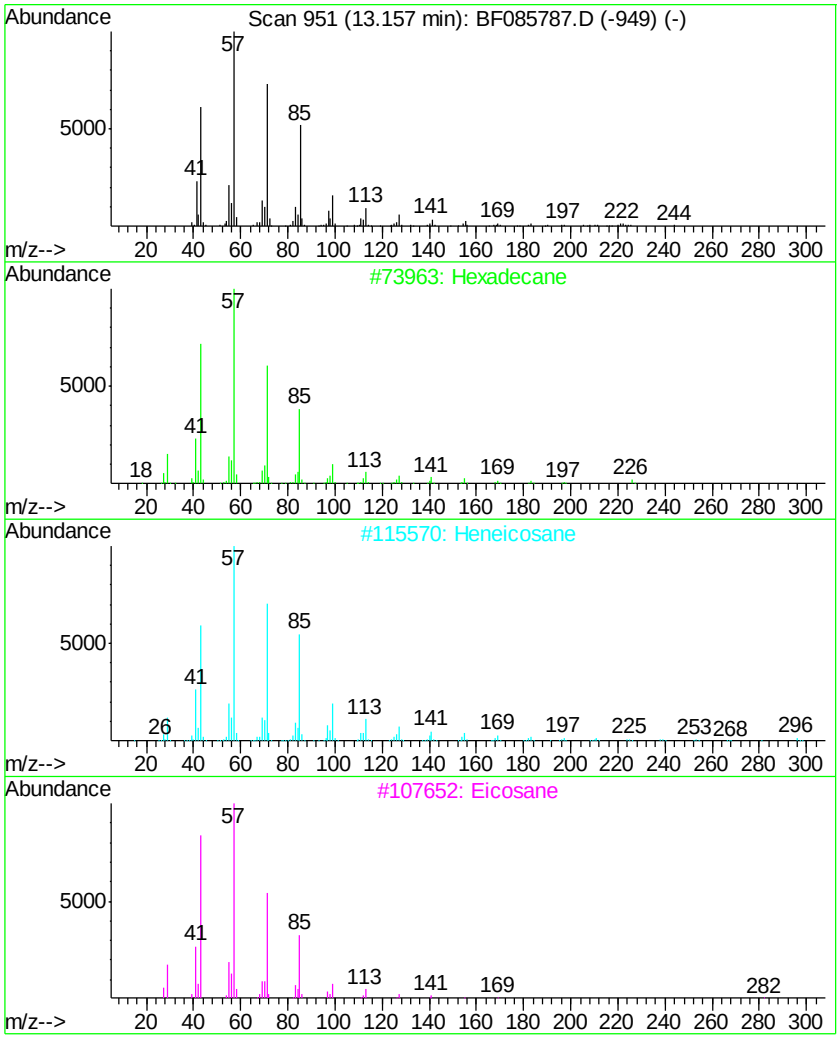
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

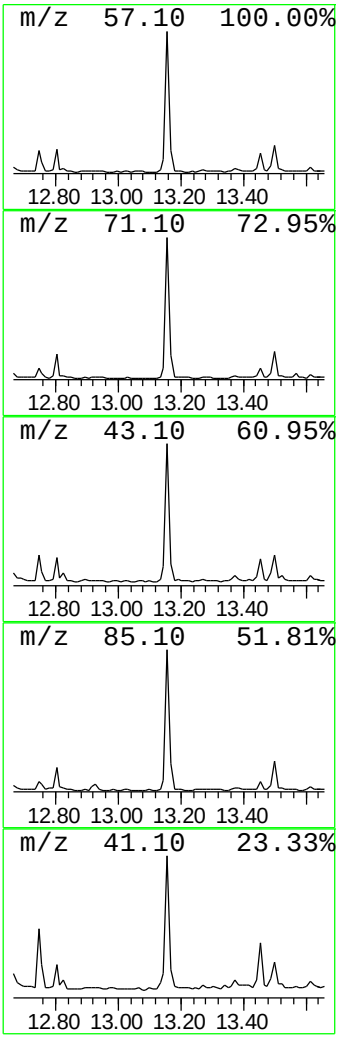
**********

Peak Number 5 Hexadecane Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.16 | 5.79 ng | 396611 | Chrysene-d12 | 13.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 87 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 86 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

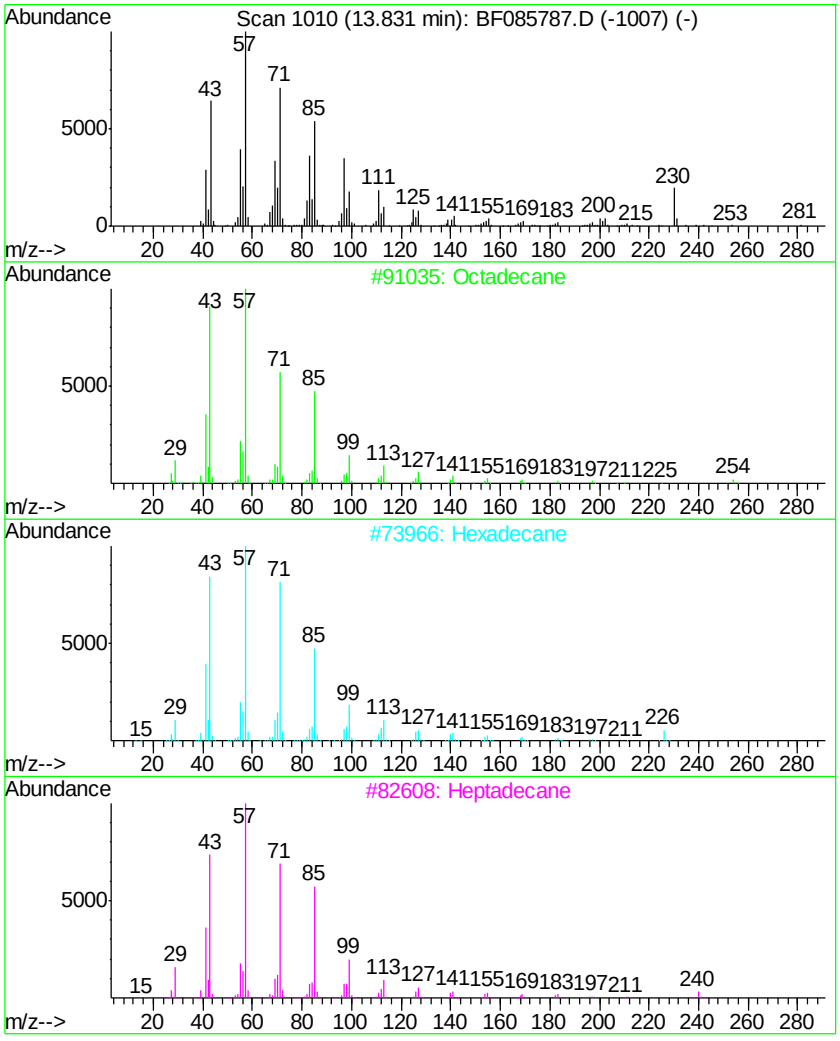
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

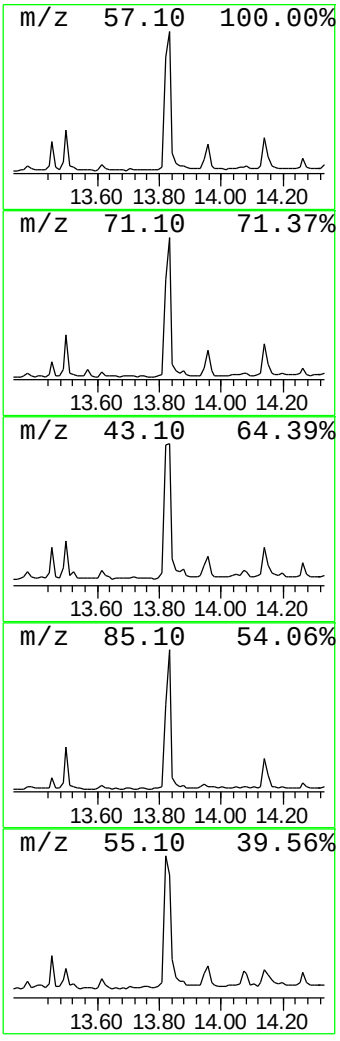
**********

Peak Number 6 Octadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.83 | 8.67 ng | 593983 | Chrysene-d12 | 13.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 58 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 52 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 52 |
| 5 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

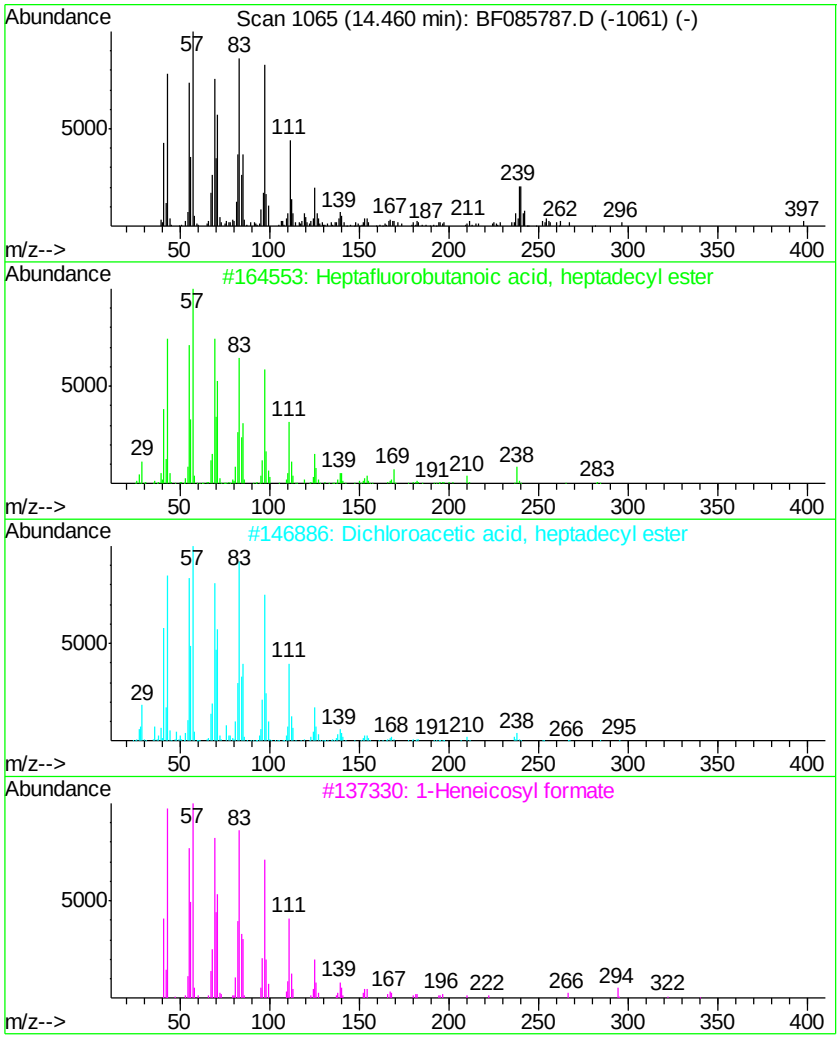
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

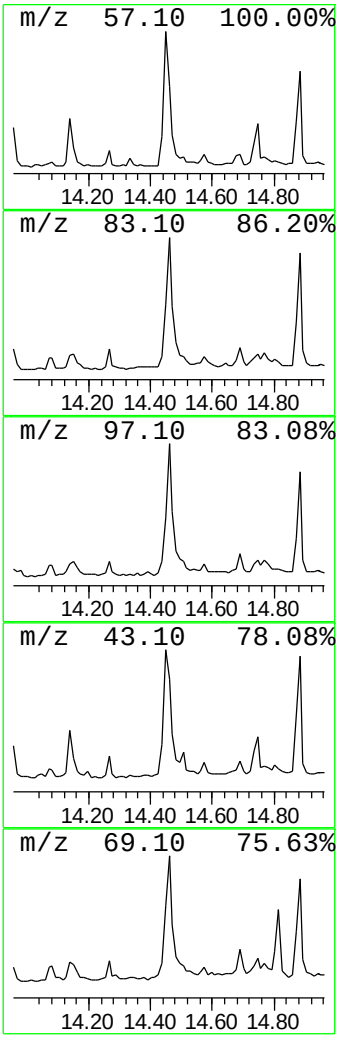
**********

Peak Number 7 Heptafluorobutanoic acid, h... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.46 | 7.12 ng | 487784 | Chrysene-d12 | 13.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 93 |
| 2 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 92 |
| 3 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 90 |
| 4 | 8-Heptadecene | 238 | C17H34 | 054290-12-9 | 86 |
| 5 | 13-Tetradecen-1-ol acetate | 254 | C16H30O2 | 056221-91-1 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

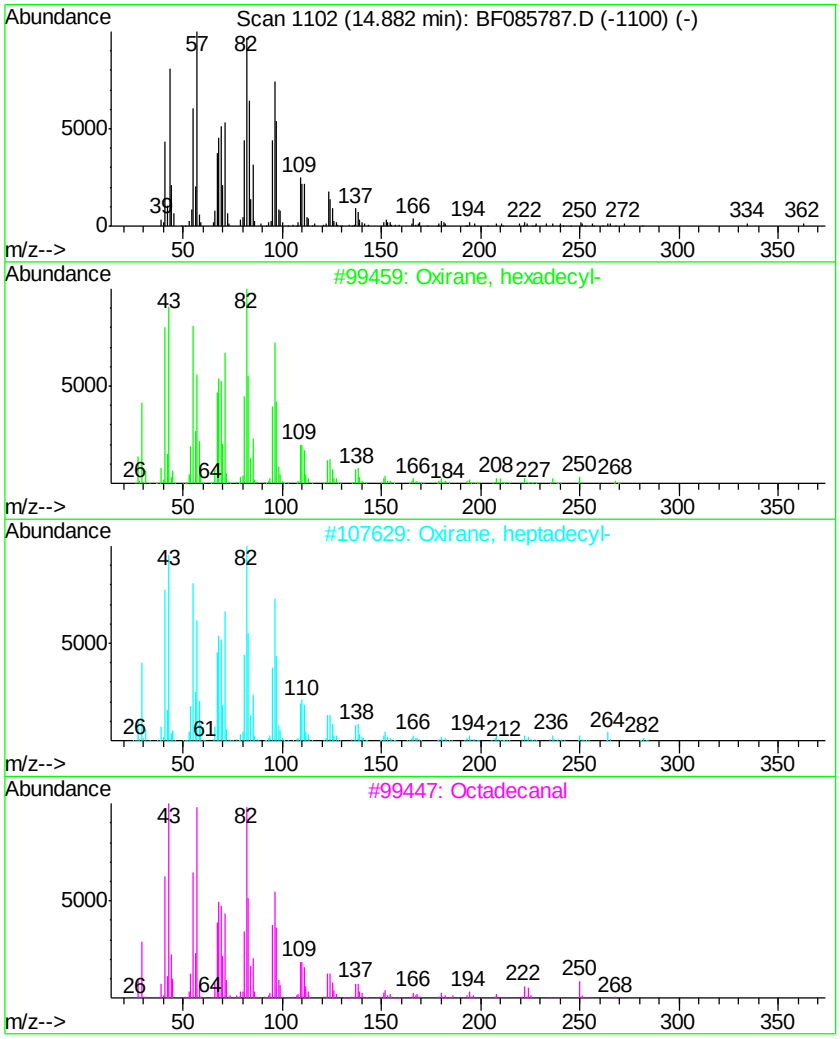
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

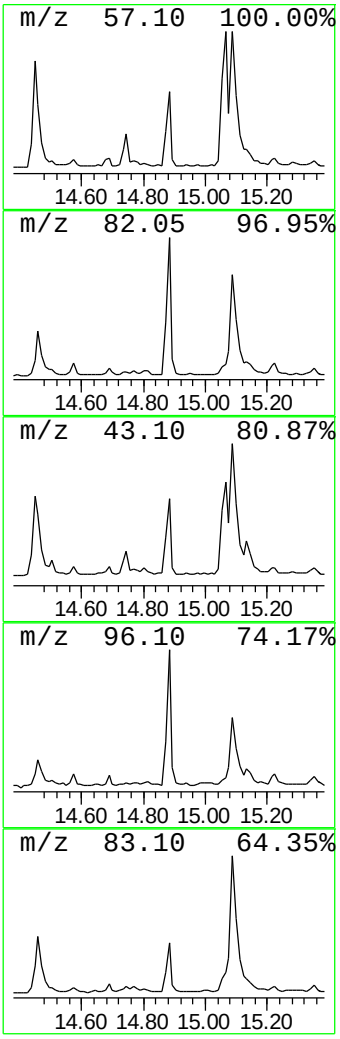
**********

Peak Number 8 Oxirane, hexadecyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.88 | 9.14 ng | 284858 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 91 |
| 2 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 91 |
| 3 | Octadecanal | 268 | C18H36O | 000638-66-4 | 91 |
| 4 | 17-Octadecenal | 266 | C18H34O | 056554-86-0 | 90 |
| 5 | Oleyl Alcohol | 268 | C18H36O | 000143-28-2 | 89 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

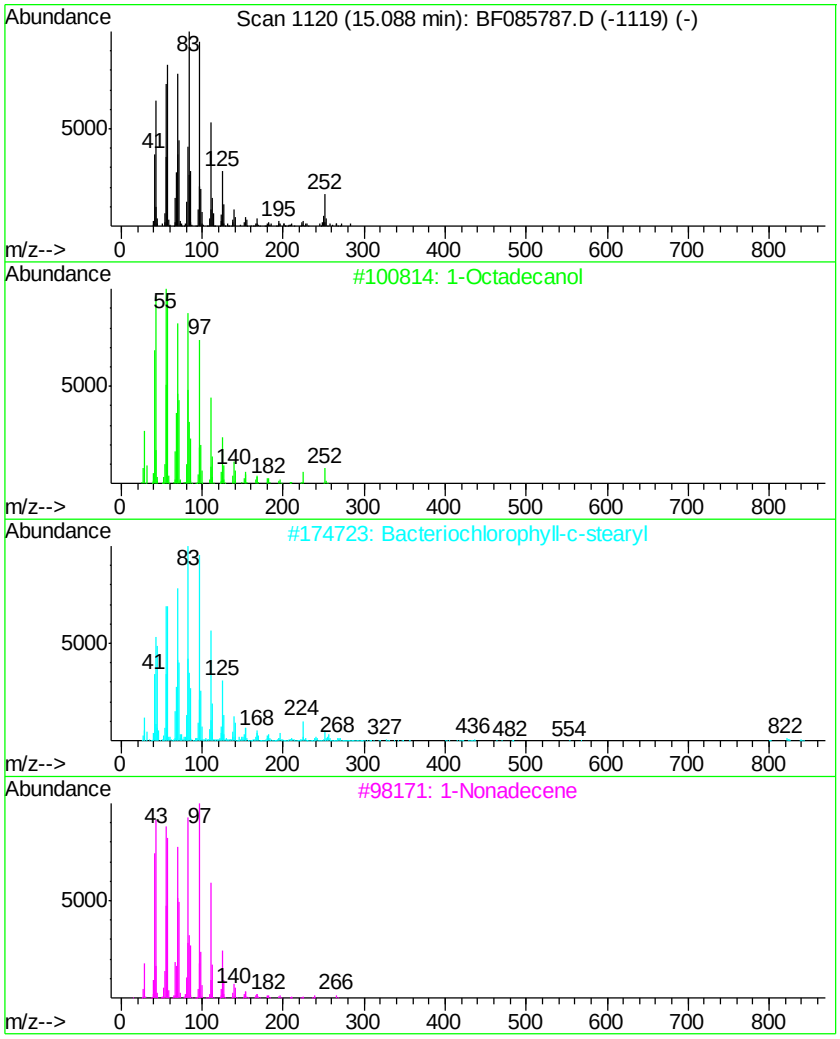
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

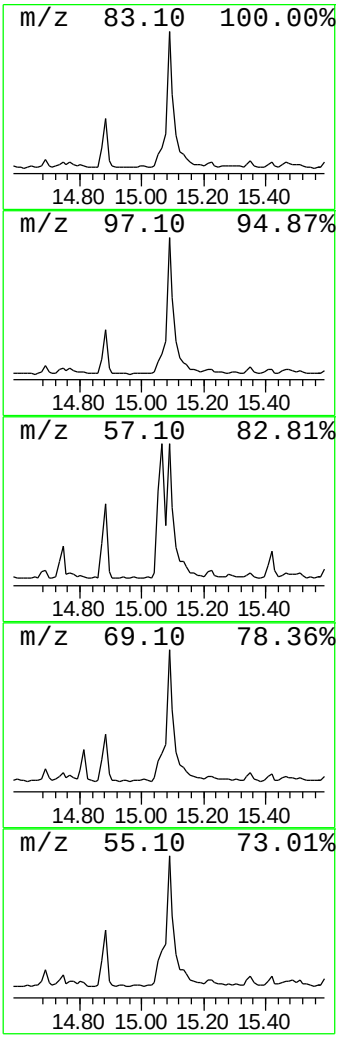
**********

Peak Number 9 1-Octadecanol Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.09 | 16.04 ng | 499695 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Octadecanol | 270 | C18H38O | 000112-92-5 | 91 |
| 2 | Bacteriochlorophyll-c-stearyl | 841 | C52H72MgN4O4 | 1000164-49-7 | 91 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 90 |
| 4 | 9-Octadecene, (E)- | 252 | C18H36 | 007206-25-9 | 89 |
| 5 | E-7-Octadecene | 252 | C18H36 | 1000130-92-0 | 89 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

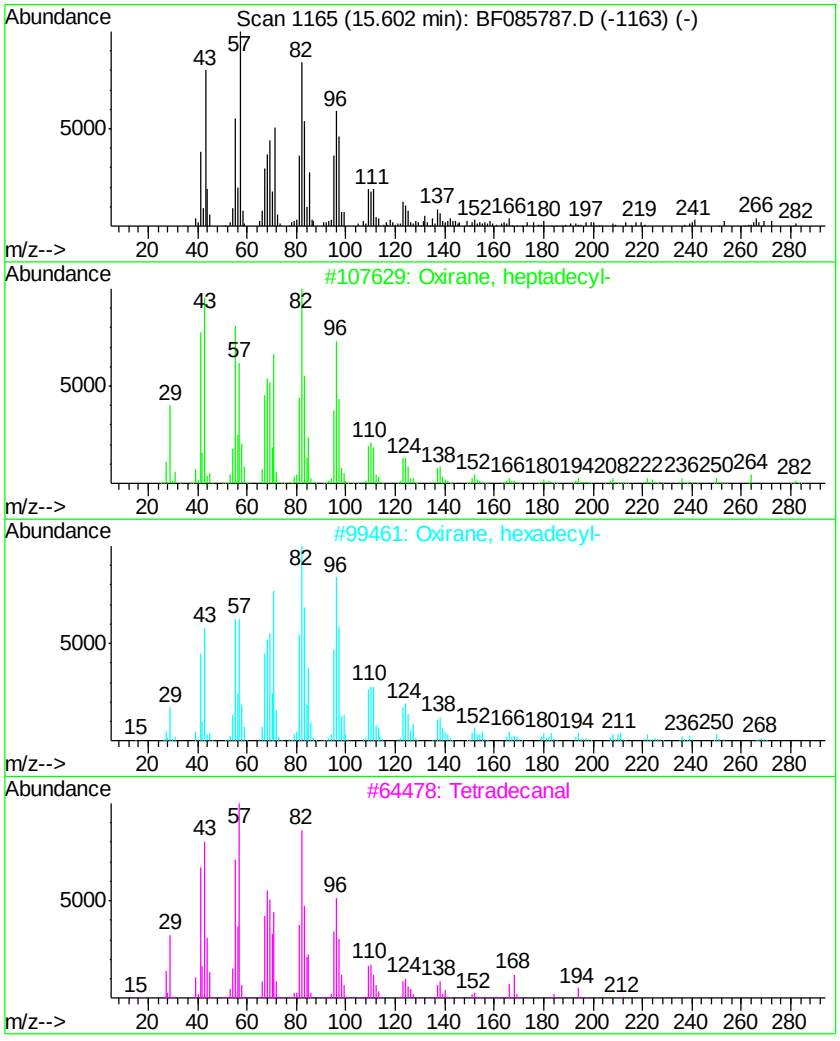
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

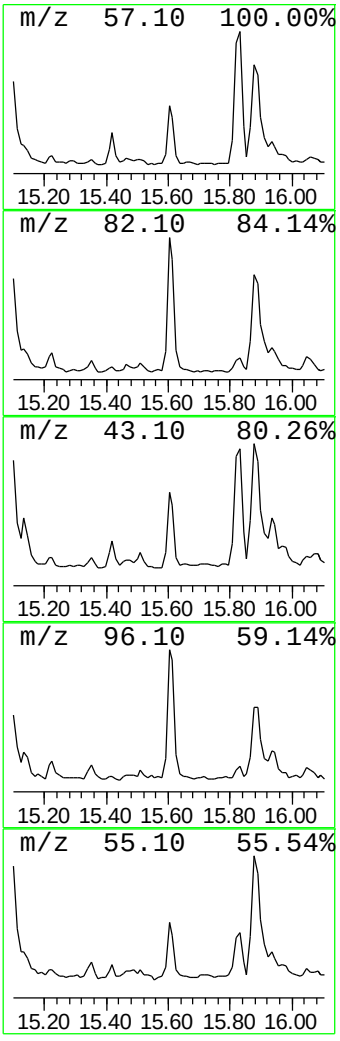
**********

Peak Number 11 Oxirane, heptadecyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.60 | 9.41 ng | 293245 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 93 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 87 |
| 3 | Tetradecanal | 212 | C14H28O | 000124-25-4 | 86 |
| 4 | Oleyl Alcohol | 268 | C18H36O | 000143-28-2 | 86 |
| 5 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 81 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

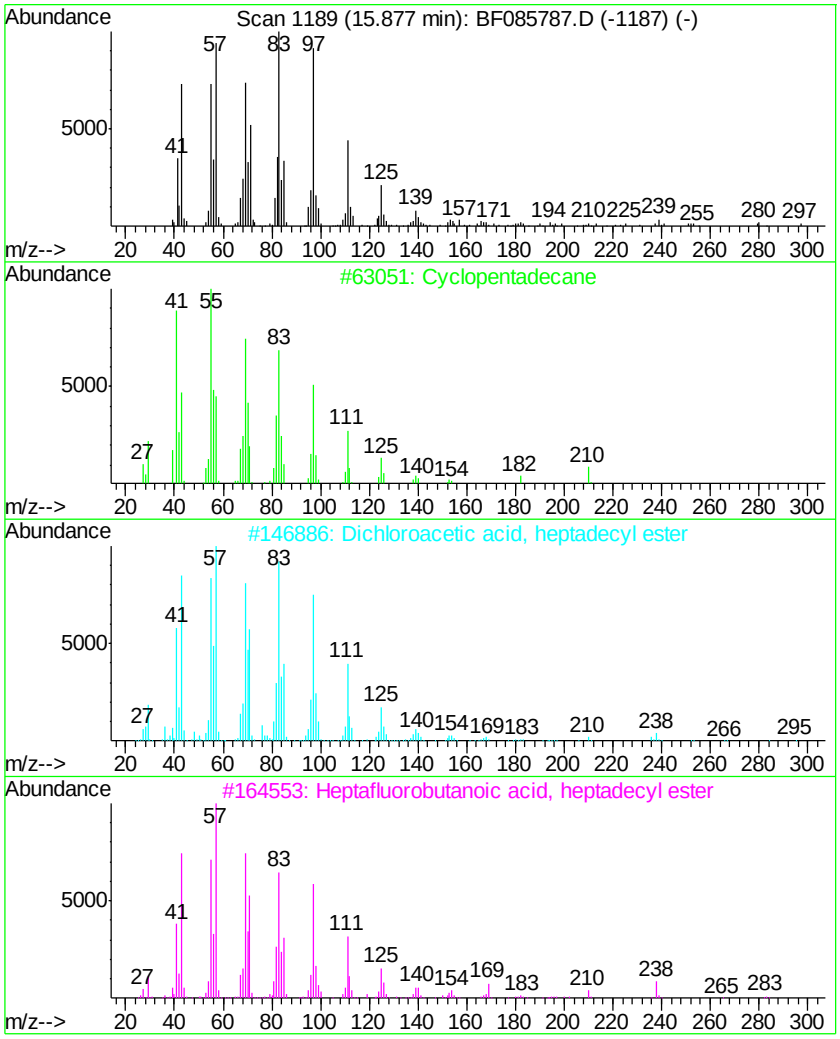
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

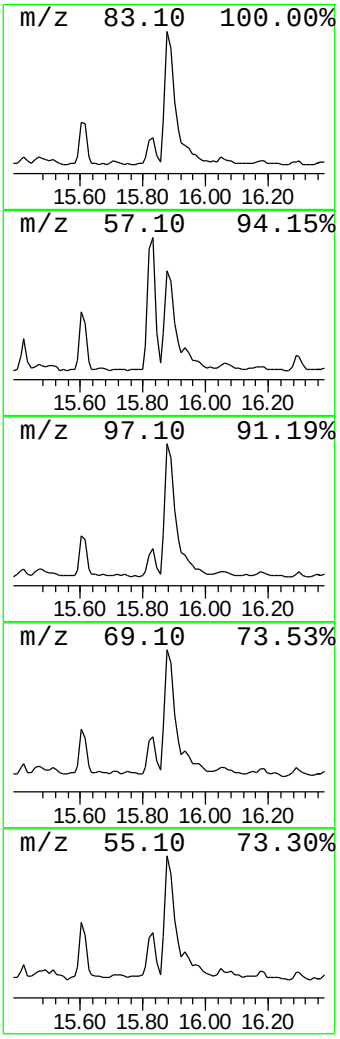
**********

Peak Number 13 Cyclopentadecane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.88 | 20.52 ng | 639304 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 83 |
| 2 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 70 |
| 3 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 70 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 70 |
| 5 | Cyclohexadecane, 1,2-diethyl- | 280 | C20H40 | 1000155-85-3 | 68 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

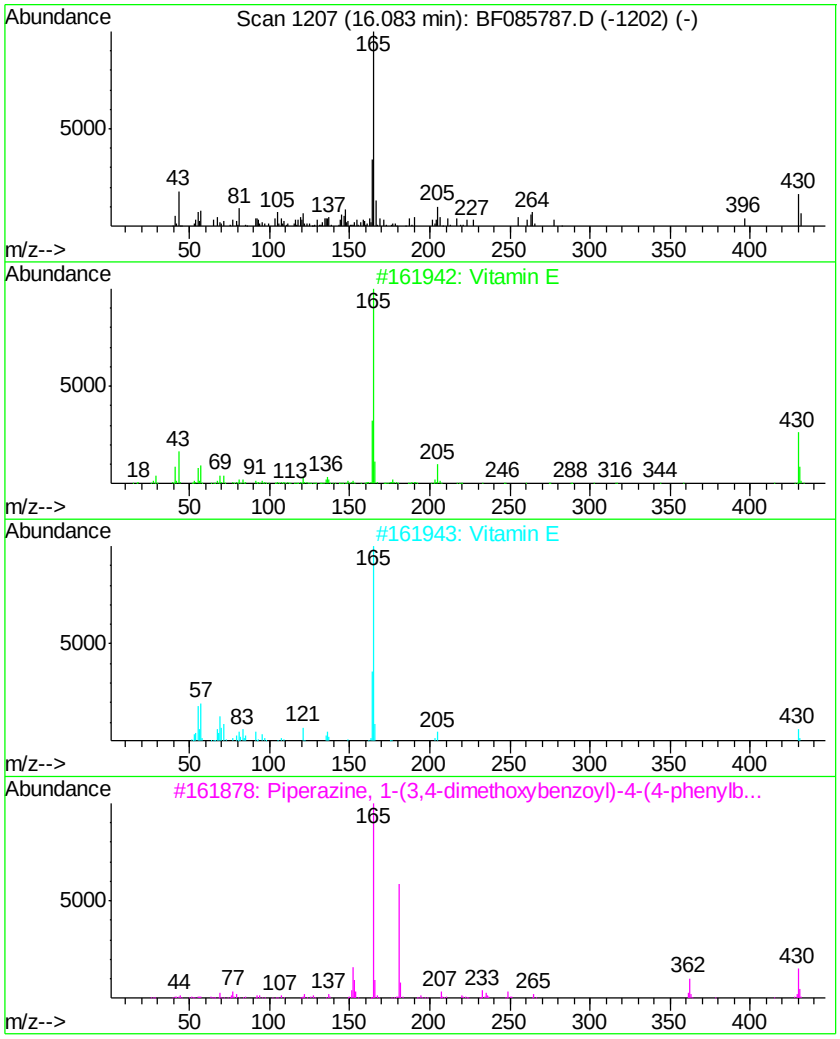
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

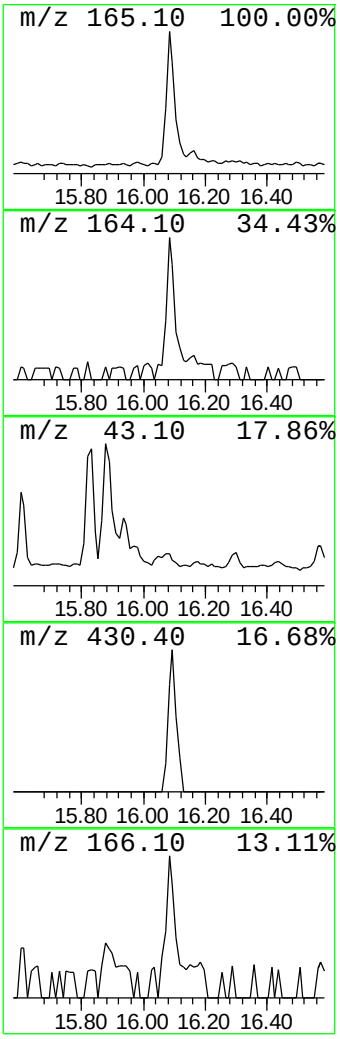
**********

Peak Number 14 Vitamin E Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.08 | 4.29 ng | 133548 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Vitamin E | 430 | C29H50O2 | 010191-41-0 | 87 |
| 2 | Vitamin E | 430 | C29H50O2 | 000059-02-9 | 87 |
| 3 | Piperazine, 1-(3,4-dimethoxybenz... | 430 | C26H26N2O4 | 333756-87-9 | 50 |
| 4 | 6-Methoxy-2-(methylamino)tropone | 165 | C9H11NO2 | 1000241-43-3 | 47 |
| 5 | 3-[(5-Isobutyl-2-methyl-furan-3-... | 301 | C17H19NO4 | 1000295-19-6 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

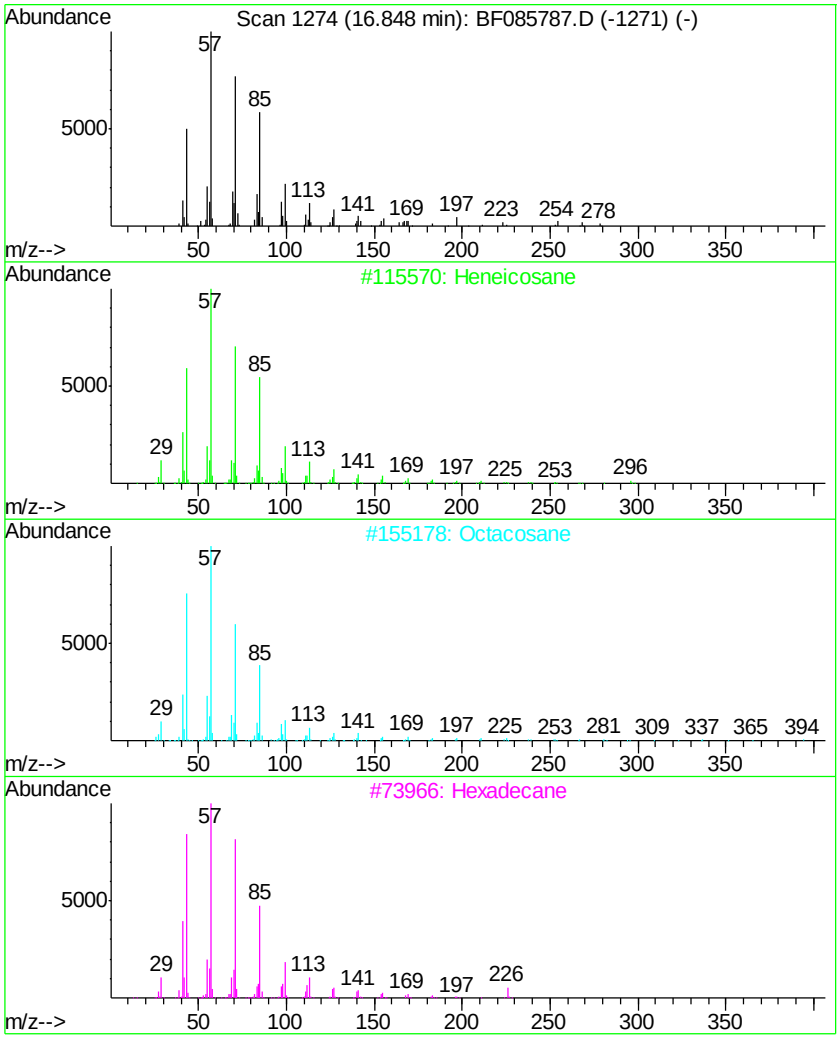
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

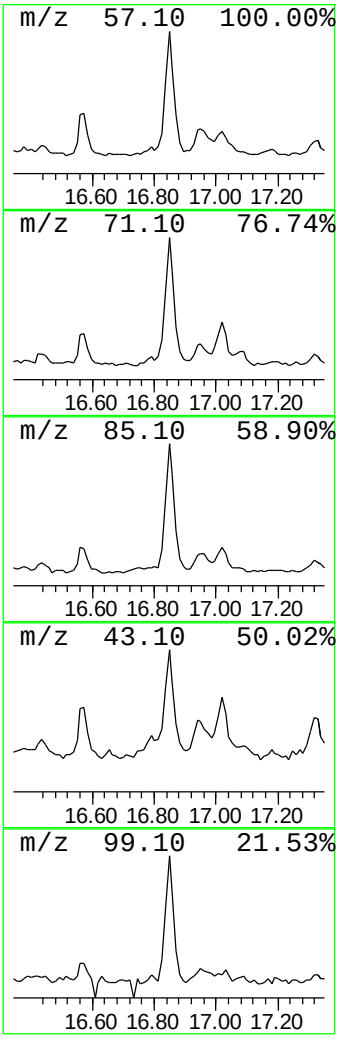
**********

Peak Number 15 Heneicosane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.85 | 6.10 ng | 189872 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 86 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

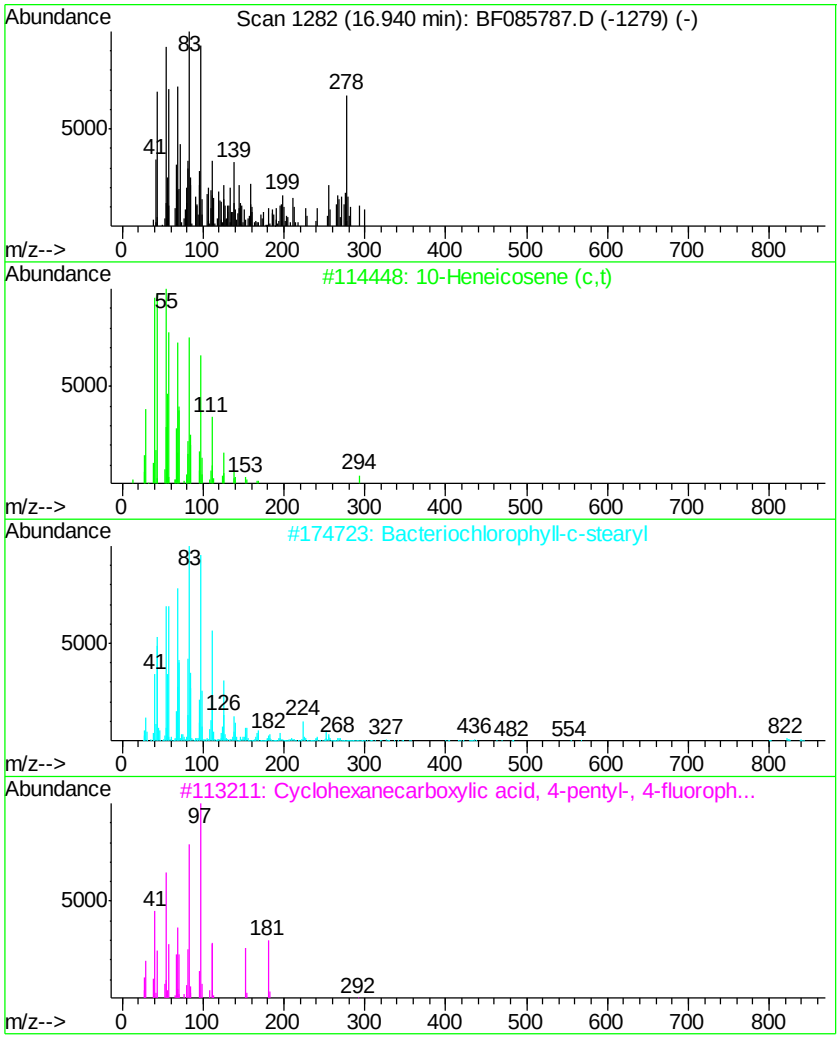
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

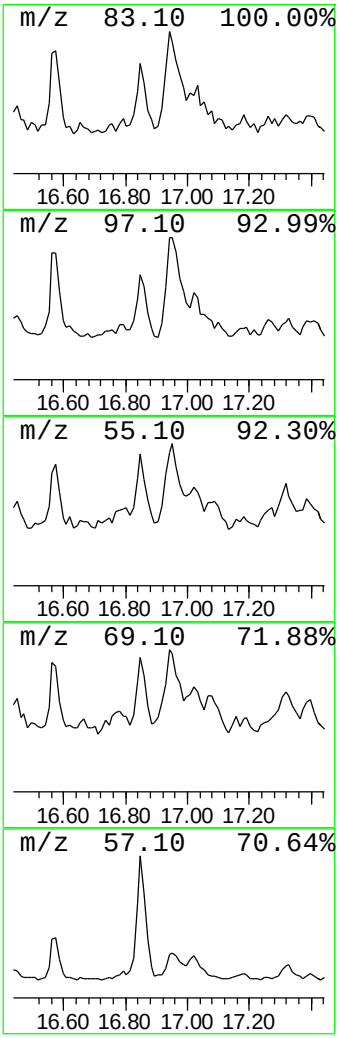
**********

Peak Number 16 unknown16.94 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.94 | 6.26 ng | 194920 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10-Heneicosene (c,t) | 294 | C21H42 | 095008-11-0 | 49 |
| 2 | Bacteriochlorophyll-c-stearyl | 841 | C52H72MgN4O4 | 1000164-49-7 | 46 |
| 3 | Cyclohexanecarboxylic acid, 4-pe... | 292 | C18H25FO2 | 079912-83-7 | 43 |
| 4 | Cyclohexane, 1-(cyclohexylmethyl... | 222 | C16H30 | 054965-61-6 | 43 |
| 5 | Dodecane, 1-cyclopentyl-4-(3-cyc... | 348 | C25H48 | 007225-68-5 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

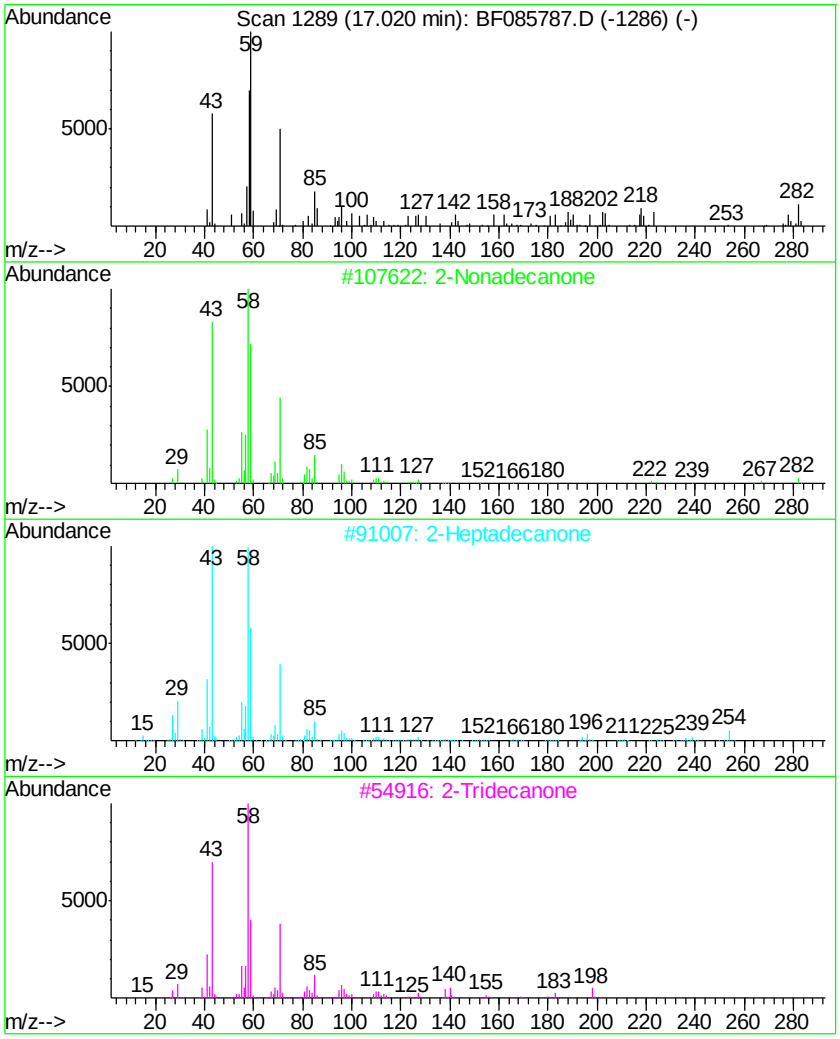
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

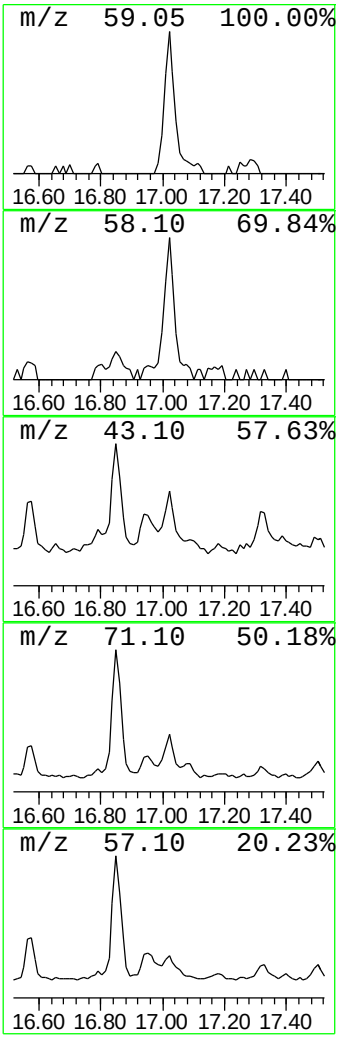
**********

Peak Number 17 unknown17.02 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.02 | 4.61 ng | 143687 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Nonadecanone | 282 | C19H38O | 000629-66-3 | 47 |
| 2 | 2-Heptadecanone | 254 | C17H34O | 002922-51-2 | 47 |
| 3 | 2-Tridecanone | 198 | C13H26O | 000593-08-8 | 43 |
| 4 | Oxirane, tetramethyl- | 100 | C6H12O | 005076-20-0 | 43 |
| 5 | Oxirane, 3-ethyl-2,2-dimethyl- | 100 | C6H12O | 001192-22-9 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

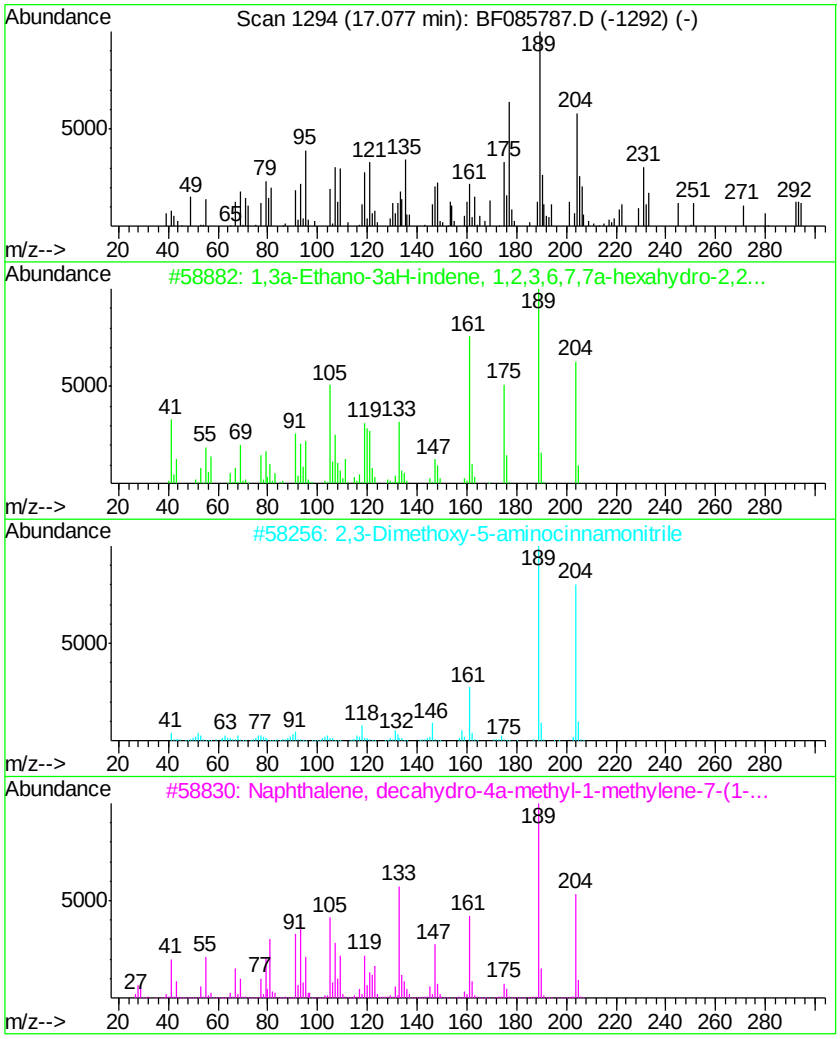
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

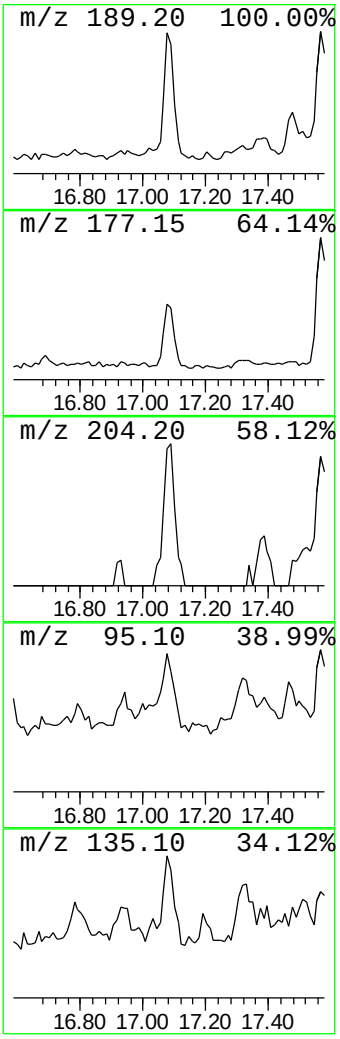
**********

Peak Number 18 unknown17.08 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.08 | 5.72 ng | 178137 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3a-Ethano-3aH-indene, 1,2,3,6,... | 204 | C15H24 | 004545-68-0 | 38 |
| 2 | 2,3-Dimethoxy-5-aminocinnamonitrile | 204 | C11H12N2O2 | 1000214-46-5 | 38 |
| 3 | Naphthalene, decahydro-4a-methyl... | 204 | C15H24 | 000515-17-3 | 38 |
| 4 | Dihydrocoumarin, 4,4,5,7-tetrame... | 204 | C13H16O2 | 040662-14-4 | 38 |
| 5 | 2-Acetyl-3,5-dimethylbenzo(b)thi... | 204 | C12H12OS | 006179-05-1 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

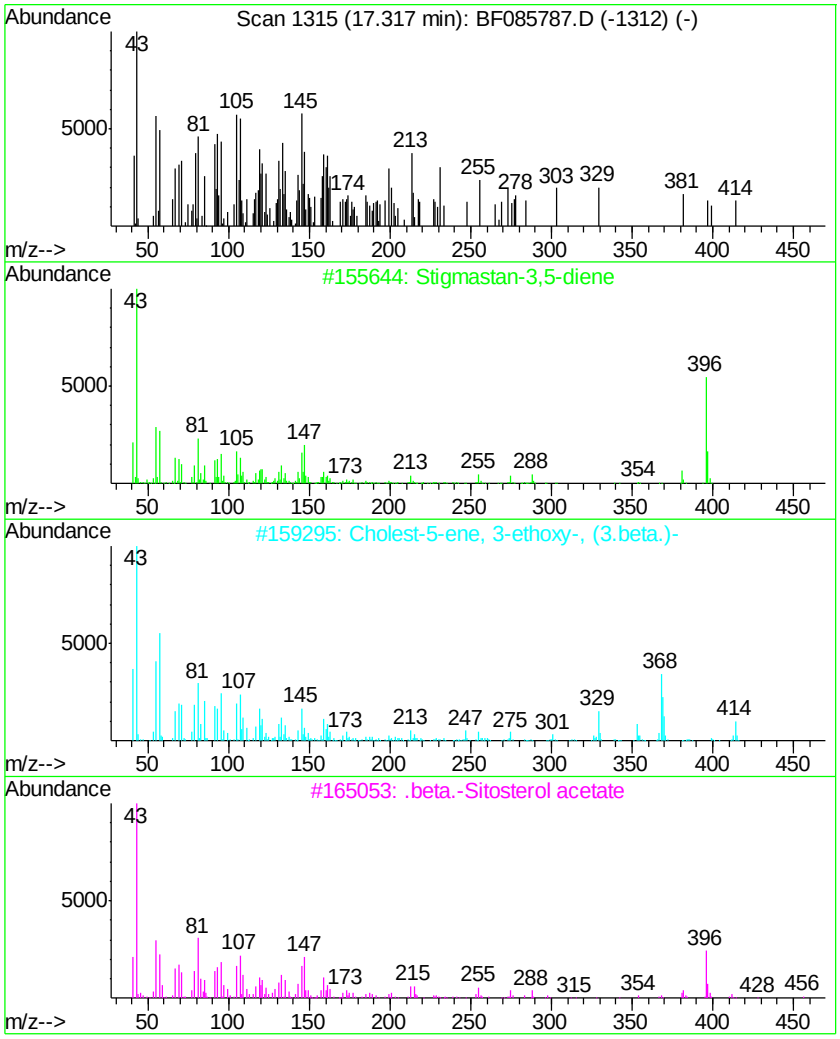
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

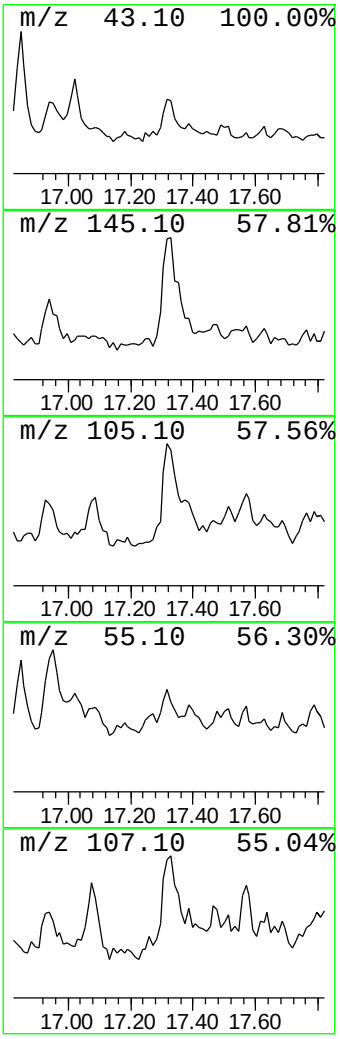
**********

Peak Number 19 unknown17.32 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.32 | 5.97 ng | 185958 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Stigmastan-3,5-diene | 396 | C29H48 | 1000214-16-4 | 45 |
| 2 | Cholest-5-ene, 3-ethoxy-, (3.bet... | 414 | C29H50O | 000986-19-6 | 38 |
| 3 | .beta.-Sitosterol acetate | 456 | C31H52O2 | 000915-05-9 | 38 |
| 4 | Tricyclo[6.3.3.0]tetradec-4-ene,... | 218 | C14H18O2 | 078046-17-0 | 14 |
| 5 | 5-Benzylcarbamoyl-1H-imidazole-4... | 273 | C14H15N3O3 | 312758-83-1 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

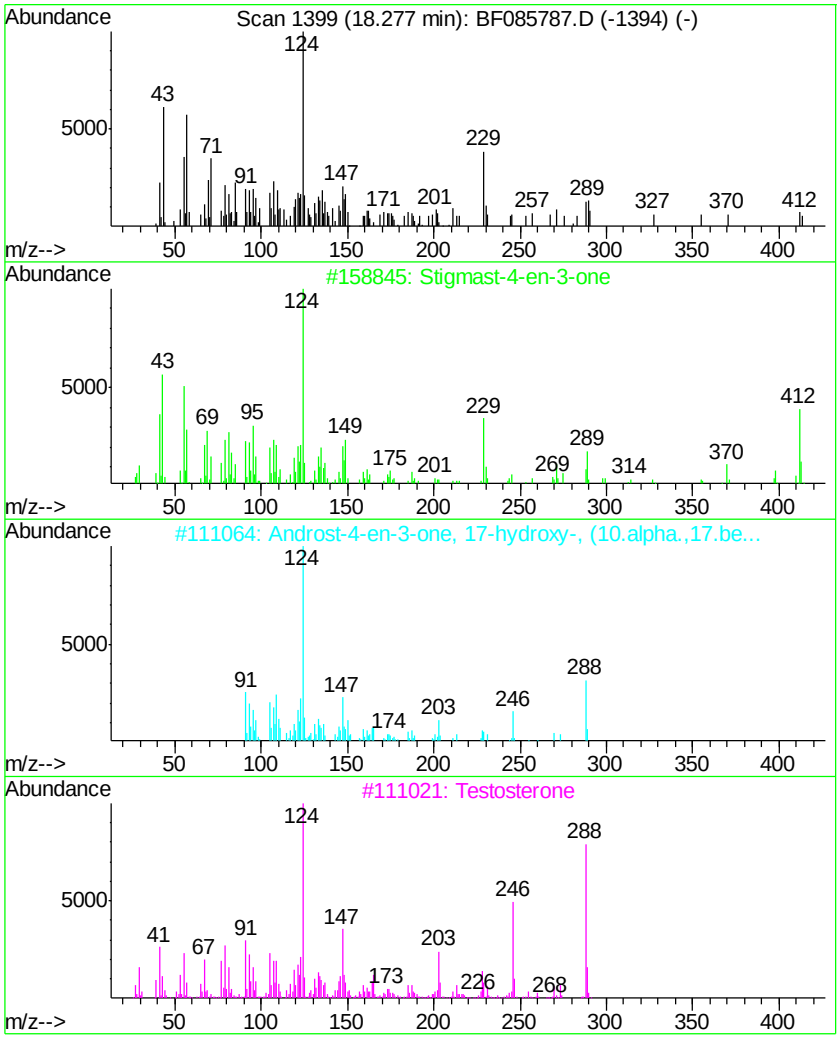
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

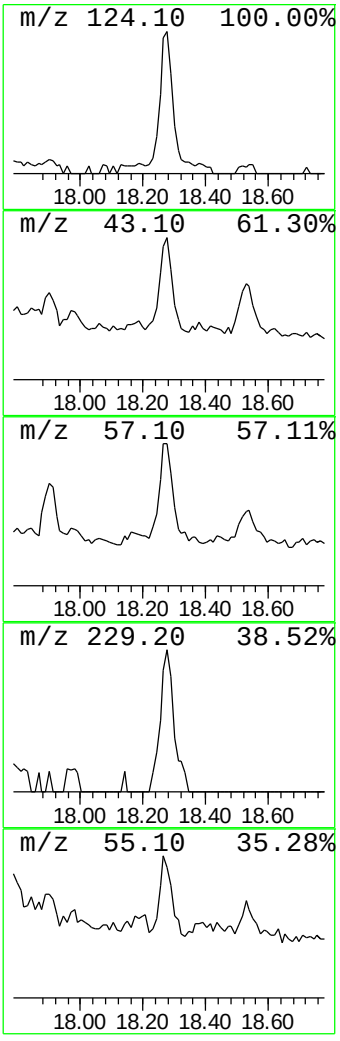
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.28 | 7.80 ng | 242932 | Perylene-d12 | 15.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Stigmast-4-en-3-one | 412 | C29H48O | 001058-61-3 | 83 |
| 2 | Androst-4-en-3-one, 17-hydroxy-,... | 288 | C19H28O2 | 000604-39-7 | 70 |
| 3 | Testosterone | 288 | C19H28O2 | 000058-22-0 | 60 |
| 4 | 2,3-Diaminophenol | 124 | C6H8N2O | 059649-56-8 | 46 |
| 5 | Phenol, 2,6-diamino- | 124 | C6H8N2O | 022440-82-0 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032516\
Data File : BF085787.D
Acq On : 26 Mar 2016 3:25
Operator : UM/SJ
Sample : H1923-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-PG-A(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 5.00 | 25.5 | ng | 870737 | 1 | 6.82 | 682071 | 20.0 |
| unknown6.60 | 6.60 | 74.2 | ng | 2528830 | 1 | 6.82 | 682071 | 20.0 |
| n-Hexadecanoic acid | 11.88 | 9.0 | ng | 446379 | 4 | 11.34 | 995614 | 20.0 |
| Hexadecane | 13.16 | 5.8 | ng | 396611 | 5 | 13.98 | 1370080 | 20.0 |
| Octadecane | 13.83 | 8.7 | ng | 593983 | 5 | 13.98 | 1370080 | 20.0 |
| Heptafluorobutano... | 14.46 | 7.1 | ng | 487784 | 5 | 13.98 | 1370080 | 20.0 |
| Oxirane, hexadecyl- | 14.88 | 9.1 | ng | 284858 | 6 | 15.40 | 623022 | 20.0 |
| 1-Octadecanol | 15.09 | 16.0 | ng | 499695 | 6 | 15.40 | 623022 | 20.0 |
| Oxirane, heptadecyl- | 15.60 | 9.4 | ng | 293245 | 6 | 15.40 | 623022 | 20.0 |
| Cyclopentadecane | 15.88 | 20.5 | ng | 639304 | 6 | 15.40 | 623022 | 20.0 |
| Vitamin E | 16.08 | 4.3 | ng | 133548 | 6 | 15.40 | 623022 | 20.0 |
| Heneicosane | 16.85 | 6.1 | ng | 189872 | 6 | 15.40 | 623022 | 20.0 |
| unknown16.94 | 16.94 | 6.3 | ng | 194920 | 6 | 15.40 | 623022 | 20.0 |
| unknown17.02 | 17.02 | 4.6 | ng | 143687 | 6 | 15.40 | 623022 | 20.0 |
| unknown17.08 | 17.08 | 5.7 | ng | 178137 | 6 | 15.40 | 623022 | 20.0 |
| unknown17.32 | 17.32 | 6.0 | ng | 185958 | 6 | 15.40 | 623022 | 20.0 |
| Stigmast-4-en-3-one | 18.28 | 7.8 | ng | 242932 | 6 | 15.40 | 623022 | 20.0 |