LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

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-BF070117.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 | 4.916 | 473 | 481 | 487 | rBV | 653939 | 843920 | 19.72% | 2.565% |
| 2 | 5.104 | 510 | 513 | 519 | rBV | 66497 | 76688 | 1.79% | 0.233% |
| 3 | 5.181 | 522 | 526 | 529 | rBV | 53343 | 52513 | 1.23% | 0.160% |
| 4 | 5.287 | 540 | 544 | 546 | rBV | 75015 | 79311 | 1.85% | 0.241% |
| 5 | 5.322 | 546 | 550 | 558 | rVB | 1387160 | 1338892 | 31.29% | 4.070% |
| 6 | 5.551 | 586 | 589 | 595 | rVB | 84492 | 75098 | 1.76% | 0.228% |
| 7 | 5.881 | 641 | 645 | 649 | rVB | 62857 | 62457 | 1.46% | 0.190% |
| 8 | 6.175 | 689 | 695 | 698 | rBV | 103793 | 94932 | 2.22% | 0.289% |
| 9 | 6.240 | 701 | 706 | 709 | rVV | 126417 | 125379 | 2.93% | 0.381% |
| 10 | 6.275 | 709 | 712 | 715 | rVB | 84130 | 76948 | 1.80% | 0.234% |
| 11 | 6.316 | 715 | 719 | 721 | rBV | 123542 | 118135 | 2.76% | 0.359% |
| 12 | 6.345 | 721 | 724 | 730 | rVV | 1017282 | 858415 | 20.06% | 2.609% |
| 13 | 6.404 | 730 | 734 | 737 | rVB | 122850 | 107399 | 2.51% | 0.326% |
| 14 | 6.481 | 743 | 747 | 751 | rVB | 2169581 | 2024385 | 47.32% | 6.153% |
| 15 | 6.540 | 755 | 757 | 760 | rBV | 319542 | 292116 | 6.83% | 0.888% |
| 16 | 6.675 | 772 | 780 | 783 | rBV4 | 76228 | 106081 | 2.48% | 0.322% |
| 17 | 6.710 | 783 | 786 | 790 | rVV | 748303 | 696834 | 16.29% | 2.118% |
| 18 | 6.775 | 794 | 797 | 800 | rBV | 196582 | 153910 | 3.60% | 0.468% |
| 19 | 6.869 | 809 | 813 | 816 | rBV | 1871386 | 1714812 | 40.08% | 5.212% |
| 20 | 6.898 | 816 | 818 | 822 | rVB | 219455 | 172254 | 4.03% | 0.524% |
| 21 | 6.969 | 827 | 830 | 832 | rBV | 79374 | 62305 | 1.46% | 0.189% |
| 22 | 6.998 | 832 | 835 | 838 | rVB | 76880 | 69821 | 1.63% | 0.212% |
| 23 | 7.040 | 838 | 842 | 844 | rBV | 195260 | 168189 | 3.93% | 0.511% |
| 24 | 7.116 | 851 | 855 | 860 | rBV2 | 99291 | 107828 | 2.52% | 0.328% |
| 25 | 7.187 | 863 | 867 | 869 | rBV | 74891 | 65177 | 1.52% | 0.198% |
| 26 | 7.275 | 873 | 882 | 888 | rBV2 | 1677420 | 1907892 | 44.59% | 5.799% |
| 27 | 7.328 | 888 | 891 | 893 | rVB | 59424 | 57007 | 1.33% | 0.173% |
| 28 | 7.369 | 893 | 898 | 901 | rBV3 | 62869 | 84324 | 1.97% | 0.256% |
| 29 | 7.404 | 901 | 904 | 907 | rBV2 | 67483 | 68796 | 1.61% | 0.209% |
| 30 | 7.434 | 907 | 909 | 913 | rVB2 | 138951 | 117167 | 2.74% | 0.356% |
| 31 | 7.492 | 913 | 919 | 921 | rBV | 110145 | 105670 | 2.47% | 0.321% |
| 32 | 7.516 | 921 | 923 | 925 | rVV | 210554 | 255191 | 5.96% | 0.776% |
| 33 | 7.640 | 925 | 944 | 946 | rVV | 1086477 | 4278512 | 100.00% | 13.005% |
| 34 | 7.675 | 946 | 950 | 955 | rVB2 | 162388 | 248936 | 5.82% | 0.757% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

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-BF070117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.739 | 955 | 961 | 964 | rBV2 | 464288 | 497991 | 11.64% | 1.514% |
| 36 | 7.775 | 964 | 967 | 969 | rVV2 | 93862 | 93634 | 2.19% | 0.285% |
| 37 | 7.810 | 971 | 973 | 974 | rVV | 64846 | 49318 | 1.15% | 0.150% |
| 38 | 7.840 | 975 | 978 | 982 | rVB | 303014 | 244133 | 5.71% | 0.742% |
| 39 | 7.951 | 992 | 997 | 1000 | rVV6 | 79150 | 129724 | 3.03% | 0.394% |
| 40 | 7.992 | 1000 | 1004 | 1007 | rVV | 1068235 | 1116049 | 26.08% | 3.392% |
| 41 | 8.016 | 1007 | 1008 | 1011 | rVV2 | 168439 | 153049 | 3.58% | 0.465% |
| 42 | 8.045 | 1011 | 1013 | 1016 | rVV | 120104 | 104291 | 2.44% | 0.317% |
| 43 | 8.098 | 1019 | 1022 | 1024 | rVV2 | 72788 | 57657 | 1.35% | 0.175% |
| 44 | 8.198 | 1033 | 1039 | 1041 | rBV3 | 92026 | 103981 | 2.43% | 0.316% |
| 45 | 8.245 | 1044 | 1047 | 1049 | rBV | 69897 | 55973 | 1.31% | 0.170% |
| 46 | 8.275 | 1049 | 1052 | 1058 | rVB7 | 79264 | 117808 | 2.75% | 0.358% |
| 47 | 8.339 | 1058 | 1063 | 1065 | rBV | 151117 | 147836 | 3.46% | 0.449% |
| 48 | 8.387 | 1069 | 1071 | 1074 | rVB2 | 138704 | 113385 | 2.65% | 0.345% |
| 49 | 8.439 | 1077 | 1080 | 1083 | rBV3 | 54647 | 63605 | 1.49% | 0.193% |
| 50 | 8.469 | 1083 | 1085 | 1088 | rBV | 86772 | 70465 | 1.65% | 0.214% |
| 51 | 8.504 | 1088 | 1091 | 1094 | rBV2 | 247011 | 232245 | 5.43% | 0.706% |
| 52 | 8.569 | 1099 | 1102 | 1104 | rBV2 | 132666 | 116781 | 2.73% | 0.355% |
| 53 | 8.592 | 1104 | 1106 | 1111 | rVB5 | 82892 | 92500 | 2.16% | 0.281% |
| 54 | 8.657 | 1115 | 1117 | 1120 | rVB | 135551 | 118975 | 2.78% | 0.362% |
| 55 | 8.710 | 1120 | 1126 | 1130 | rVB4 | 139706 | 212324 | 4.96% | 0.645% |
| 56 | 8.751 | 1130 | 1133 | 1136 | rBV5 | 40821 | 56141 | 1.31% | 0.171% |
| 57 | 8.786 | 1136 | 1139 | 1140 | rBV | 68261 | 67510 | 1.58% | 0.205% |
| 58 | 8.804 | 1140 | 1142 | 1144 | rVV2 | 67348 | 70957 | 1.66% | 0.216% |
| 59 | 8.822 | 1144 | 1145 | 1148 | rVV2 | 92752 | 75855 | 1.77% | 0.231% |
| 60 | 8.857 | 1148 | 1151 | 1153 | rVV3 | 68436 | 79954 | 1.87% | 0.243% |
| 61 | 8.892 | 1155 | 1157 | 1161 | rVB4 | 68202 | 88918 | 2.08% | 0.270% |
| 62 | 8.939 | 1162 | 1165 | 1169 | rBV5 | 66325 | 98676 | 2.31% | 0.300% |
| 63 | 9.039 | 1179 | 1182 | 1184 | rVB2 | 86792 | 80449 | 1.88% | 0.245% |
| 64 | 9.075 | 1184 | 1188 | 1191 | rBV | 2832813 | 2569951 | 60.07% | 7.812% |
| 65 | 9.175 | 1202 | 1205 | 1209 | rVB4 | 89210 | 106118 | 2.48% | 0.323% |
| 66 | 9.269 | 1219 | 1221 | 1227 | rVB4 | 63755 | 84551 | 1.98% | 0.257% |
| 67 | 9.328 | 1228 | 1231 | 1233 | rBV4 | 66881 | 72335 | 1.69% | 0.220% |
| 68 | 9.381 | 1238 | 1240 | 1241 | rBV | 65268 | 50683 | 1.18% | 0.154% |
| 69 | 9.434 | 1246 | 1249 | 1252 | rVV | 378500 | 428505 | 10.02% | 1.303% |
| 70 | 9.469 | 1252 | 1255 | 1258 | rVB | 368846 | 291285 | 6.81% | 0.885% |
| 71 | 9.657 | 1284 | 1287 | 1292 | rVV2 | 131405 | 178317 | 4.17% | 0.542% |

LSC Area Percent Report

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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

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-BF070117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.751 | 1296 | 1303 | 1306 | rBV | 1068609 | 970115 | 22.67% | 2.949% |
| 73 | 9.833 | 1314 | 1317 | 1319 | rBV2 | 71374 | 65871 | 1.54% | 0.200% |
| 74 | 9.869 | 1319 | 1323 | 1326 | rVB6 | 58769 | 88082 | 2.06% | 0.268% |
| 75 | 9.957 | 1335 | 1338 | 1340 | rBV2 | 59625 | 62246 | 1.45% | 0.189% |
| 76 | 9.986 | 1340 | 1343 | 1346 | rVV | 284246 | 260969 | 6.10% | 0.793% |
| 77 | 10.022 | 1346 | 1349 | 1352 | rVV2 | 97737 | 115544 | 2.70% | 0.351% |
| 78 | 10.069 | 1353 | 1357 | 1359 | rVV | 125500 | 133115 | 3.11% | 0.405% |
| 79 | 10.198 | 1376 | 1379 | 1381 | rVB | 76832 | 61371 | 1.43% | 0.187% |
| 80 | 10.222 | 1381 | 1383 | 1386 | rBV | 60188 | 52878 | 1.24% | 0.161% |
| 81 | 10.333 | 1399 | 1402 | 1405 | rVB2 | 67847 | 72620 | 1.70% | 0.221% |
| 82 | 10.398 | 1409 | 1413 | 1415 | rBV | 55207 | 66807 | 1.56% | 0.203% |
| 83 | 10.539 | 1432 | 1437 | 1440 | rVV | 1239018 | 1182424 | 27.64% | 3.594% |
| 84 | 10.669 | 1456 | 1459 | 1465 | rVB2 | 73578 | 106786 | 2.50% | 0.325% |
| 85 | 10.822 | 1482 | 1485 | 1487 | rBV | 75047 | 59778 | 1.40% | 0.182% |
| 86 | 11.116 | 1532 | 1535 | 1538 | rBV2 | 54767 | 52360 | 1.22% | 0.159% |
| 87 | 11.145 | 1538 | 1540 | 1546 | rVB3 | 43228 | 52387 | 1.22% | 0.159% |
| 88 | 11.228 | 1551 | 1554 | 1557 | rBV | 701758 | 625494 | 14.62% | 1.901% |
| 89 | 11.775 | 1643 | 1647 | 1650 | rBV | 258754 | 253445 | 5.92% | 0.770% |
| 90 | 11.880 | 1662 | 1665 | 1670 | rBV2 | 77948 | 85112 | 1.99% | 0.259% |
| 91 | 11.980 | 1679 | 1682 | 1690 | rVB4 | 113841 | 152595 | 3.57% | 0.464% |
| 92 | 12.092 | 1698 | 1701 | 1707 | rVB | 104890 | 101086 | 2.36% | 0.307% |
| 93 | 12.563 | 1778 | 1781 | 1789 | rVB | 219582 | 211868 | 4.95% | 0.644% |
| 94 | 12.663 | 1796 | 1798 | 1800 | rVB | 70277 | 50400 | 1.18% | 0.153% |
| 95 | 12.816 | 1820 | 1824 | 1828 | rBV | 1631115 | 1593807 | 37.25% | 4.845% |
| 96 | 12.957 | 1845 | 1848 | 1852 | rVB | 84530 | 81015 | 1.89% | 0.246% |
| 97 | 13.427 | 1926 | 1928 | 1933 | rVB | 52802 | 50226 | 1.17% | 0.153% |
| 98 | 13.721 | 1975 | 1978 | 1985 | rVB | 126761 | 154941 | 3.62% | 0.471% |
| 99 | 13.863 | 1998 | 2002 | 2005 | rBV | 723791 | 645554 | 15.09% | 1.962% |
| 100 | 15.274 | 2238 | 2242 | 2248 | rVB | 424616 | 530263 | 12.39% | 1.612% |

Sum of corrected areas: 32898382

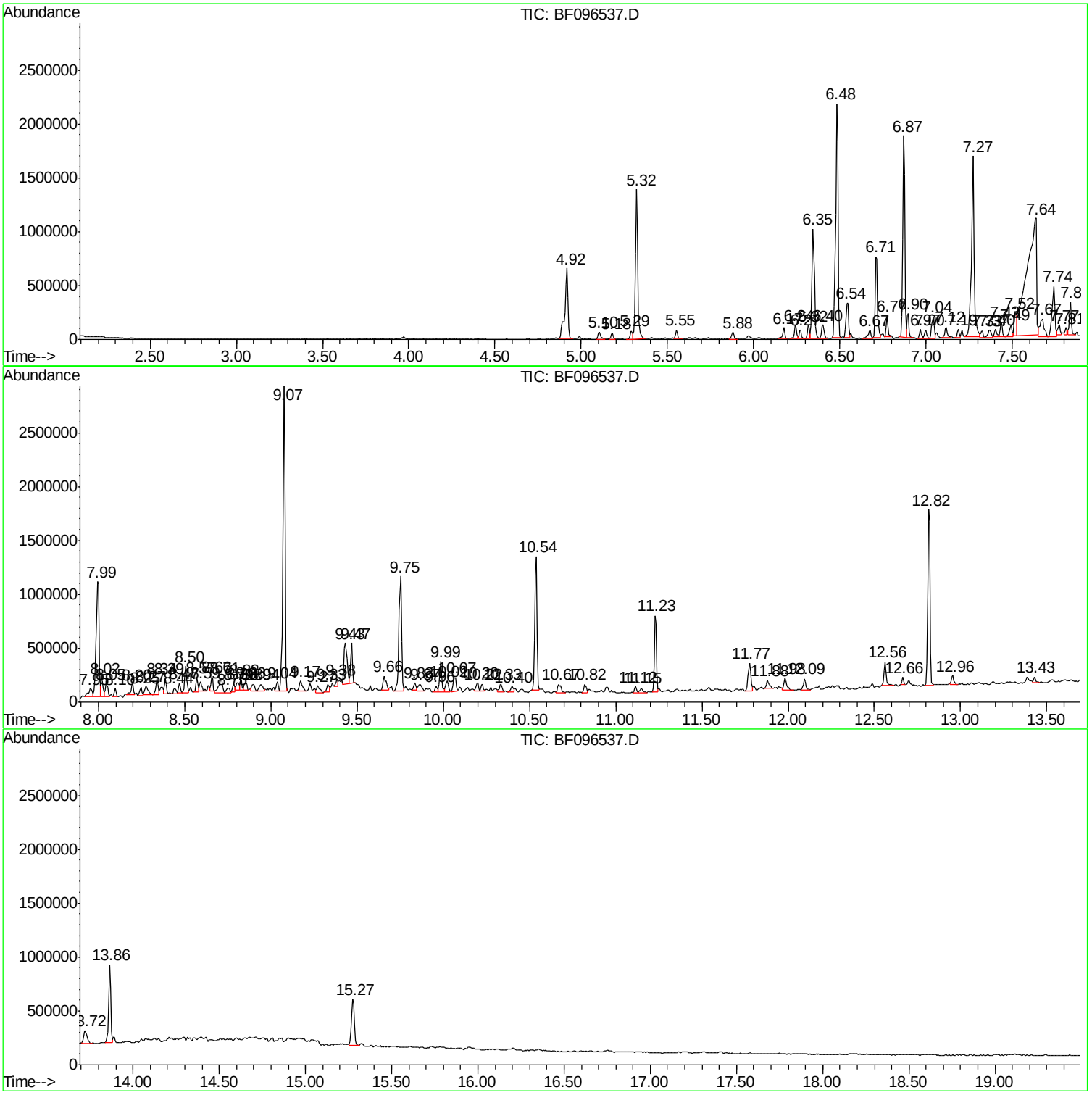
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

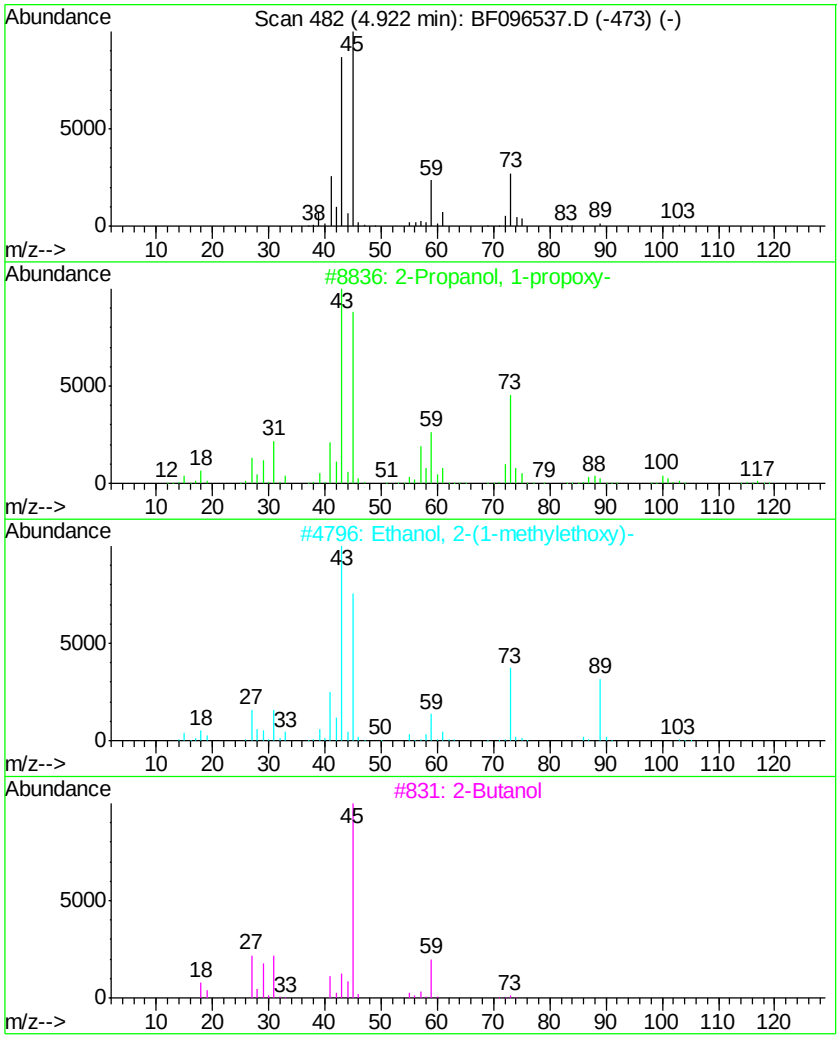
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

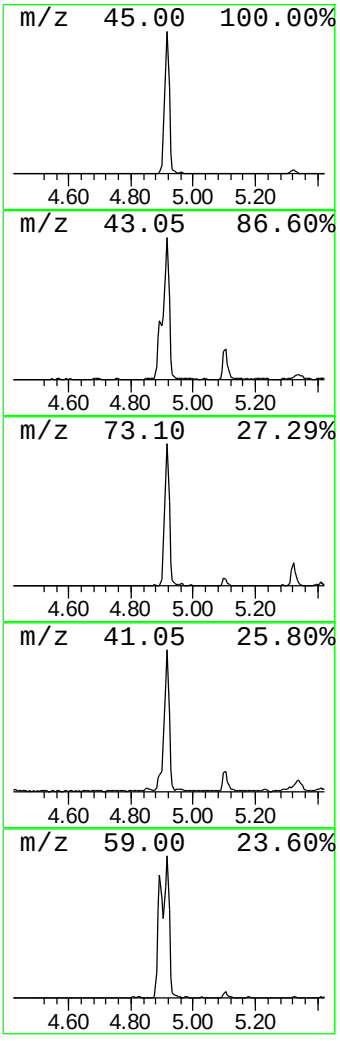
**********

Peak Number 1 2-Propanol, 1-propoxy- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 24.22 ng | 843920 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-propoxy- | 118 | C6H14O2 | 001569-01-3 | 53 |
| 2 | Ethanol, 2-(1-methylethoxy)- | 104 | C5H12O2 | 000109-59-1 | 53 |
| 3 | 2-Butanol | 74 | C4H10O | 000078-92-2 | 40 |
| 4 | 2-O-Mesyl arabinose | 228 | C6H12O7S | 1000130-06-0 | 39 |
| 5 | 2-Butanol, (R)- | 74 | C4H10O | 014898-79-4 | 38 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

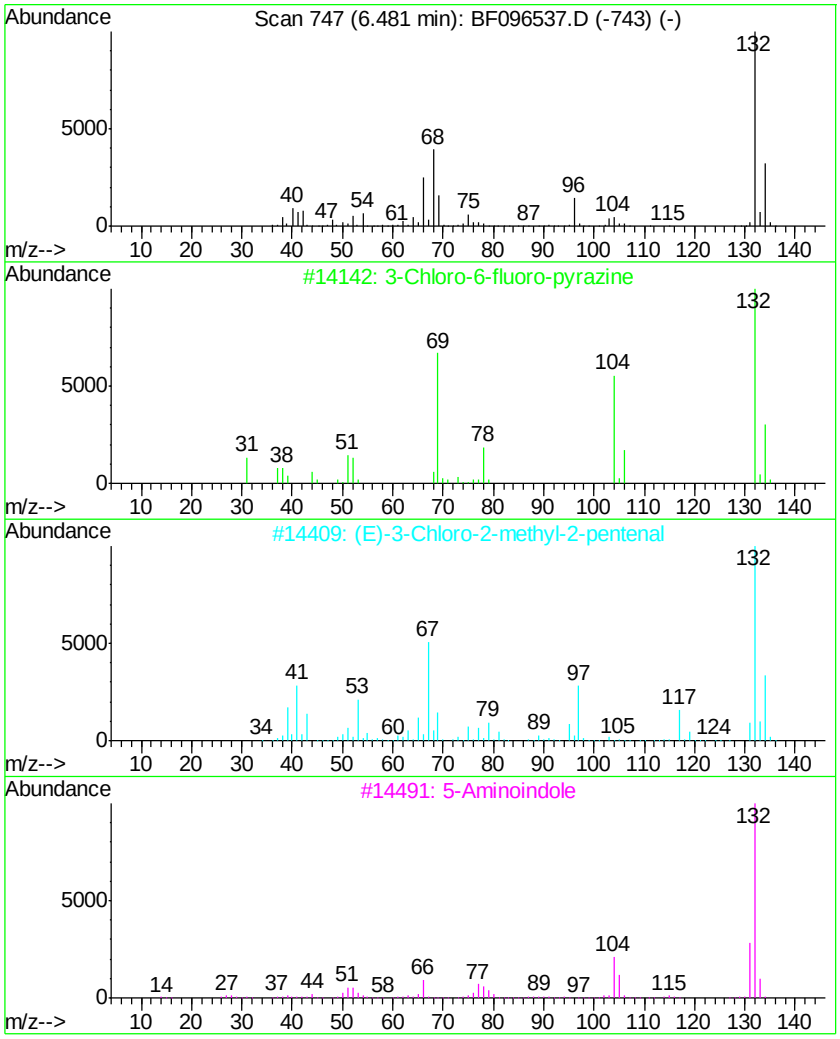
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

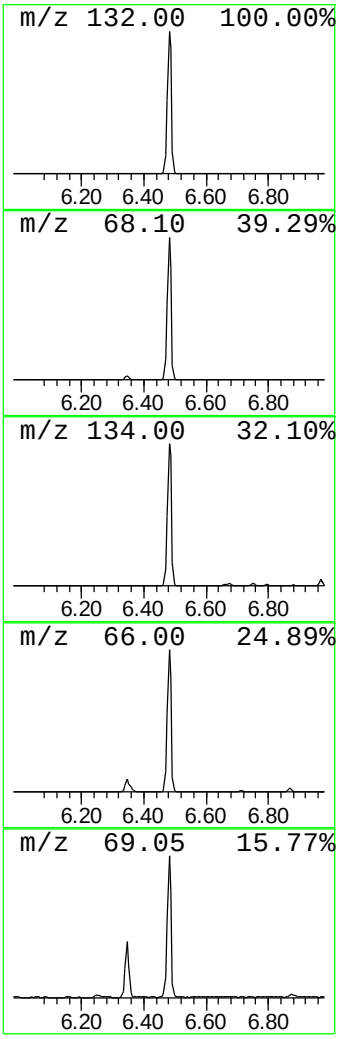
**********

Peak Number 2 unknown6.48 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.48 | 58.10 ng | 2024390 | 1,4-Dichlorobenzene-d4 | 6.72 |

| 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 | 27 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

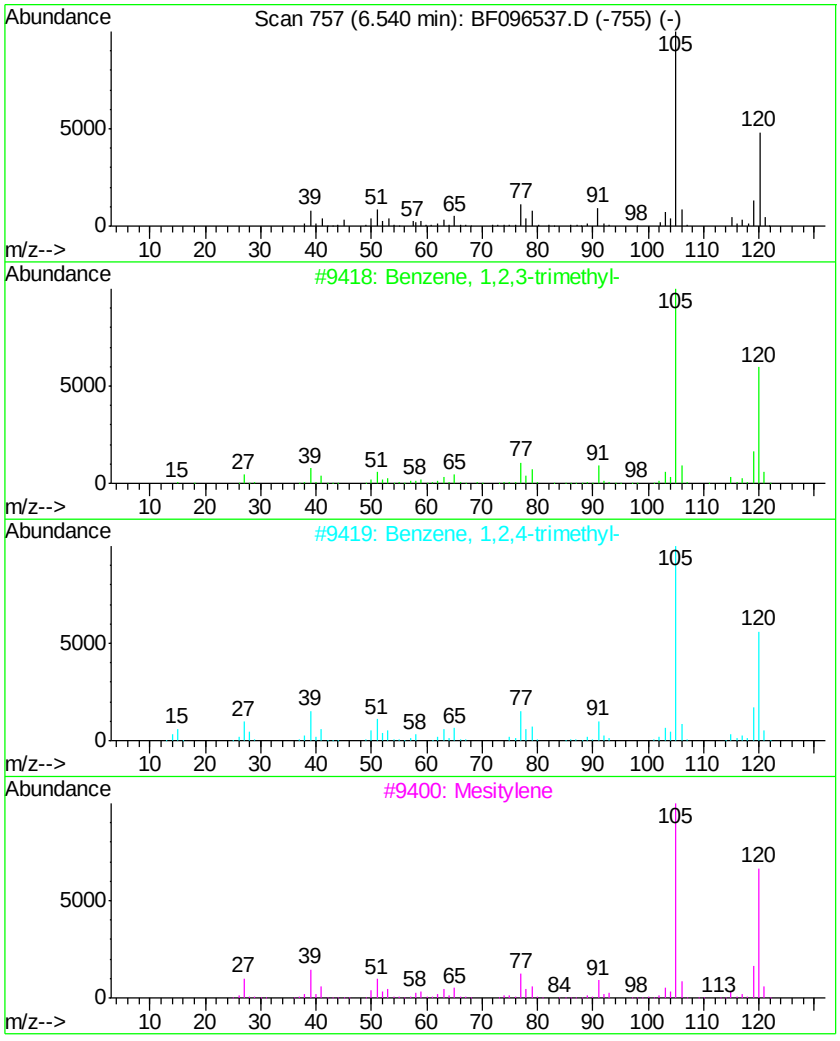
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

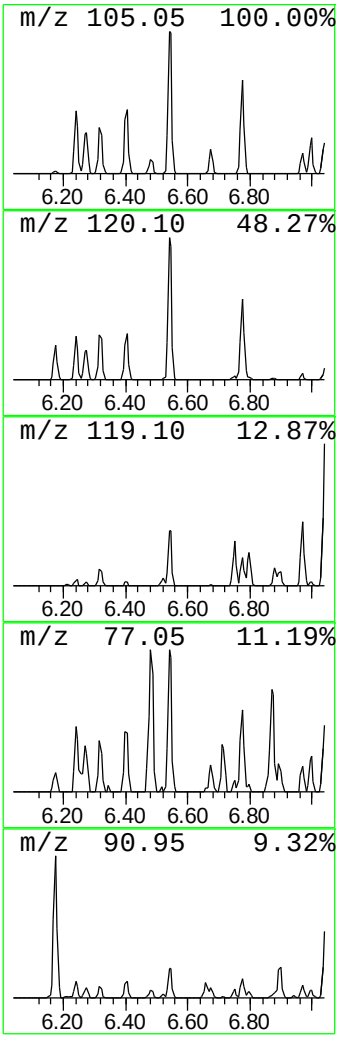
**********

Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.54 | 8.38 ng | 292116 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 95 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 94 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

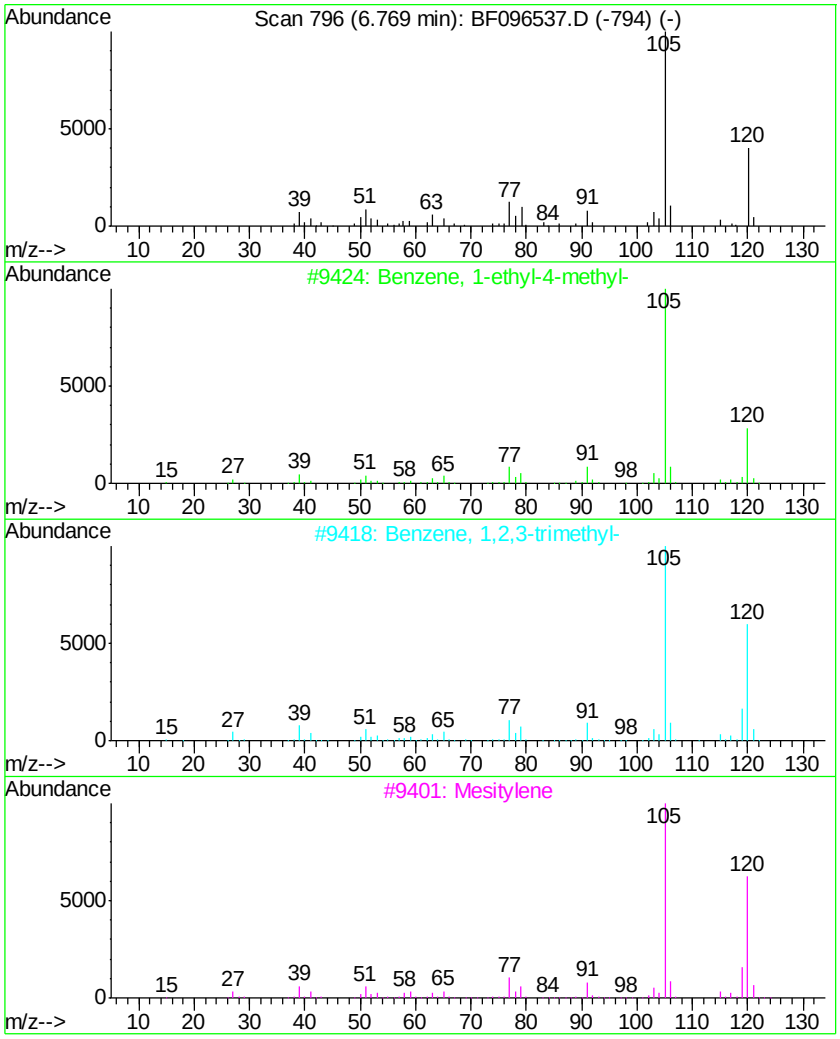
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

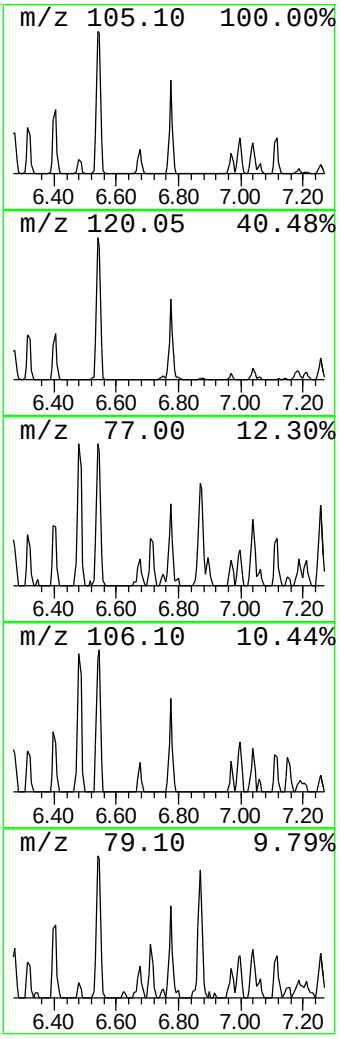
**********

Peak Number 4 Benzene, 1-ethyl-4-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.77 | 4.42 ng | 153910 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 95 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

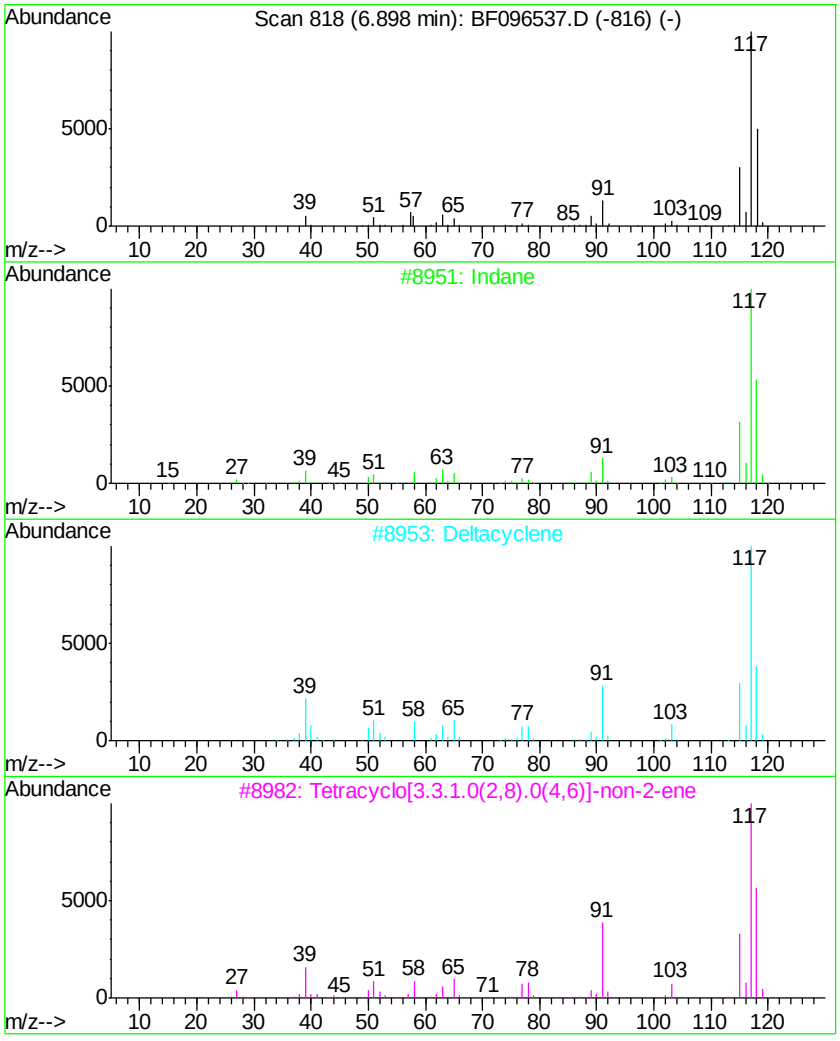
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

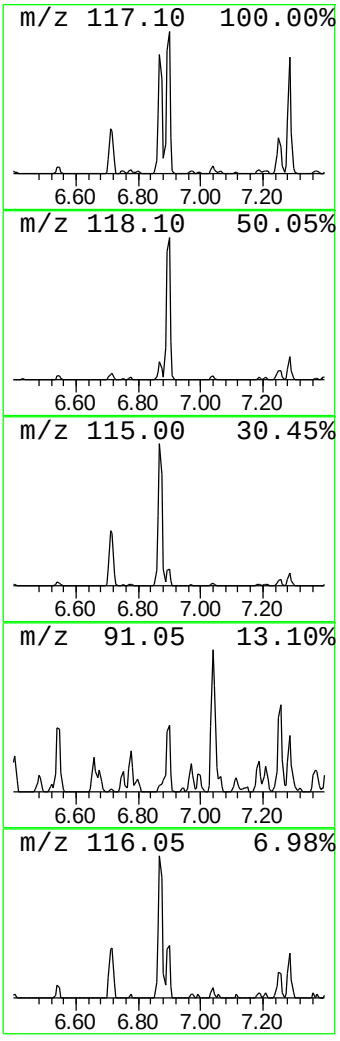
**********

Peak Number 6 Indane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.90 | 4.94 ng | 172254 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 91 |
| 2 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 64 |
| 3 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 64 |
| 4 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 59 |
| 5 | (Z)-1-Phenylpropene | 118 | C9H10 | 000766-90-5 | 50 |



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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

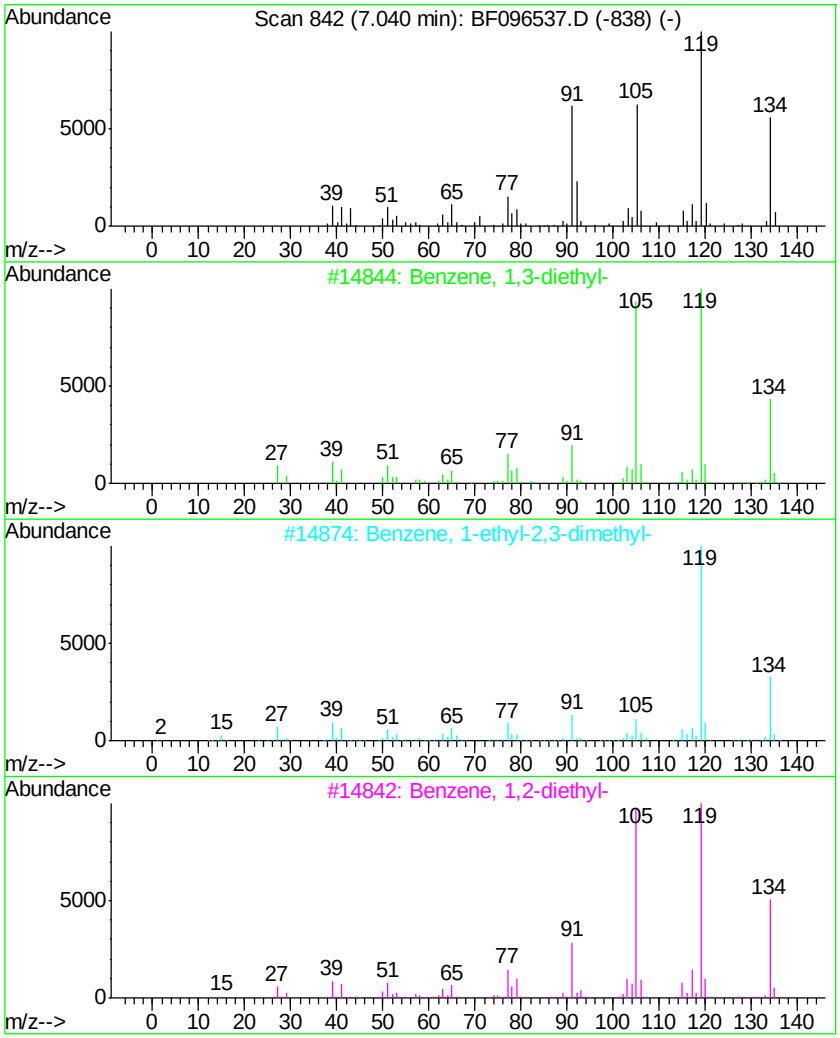
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

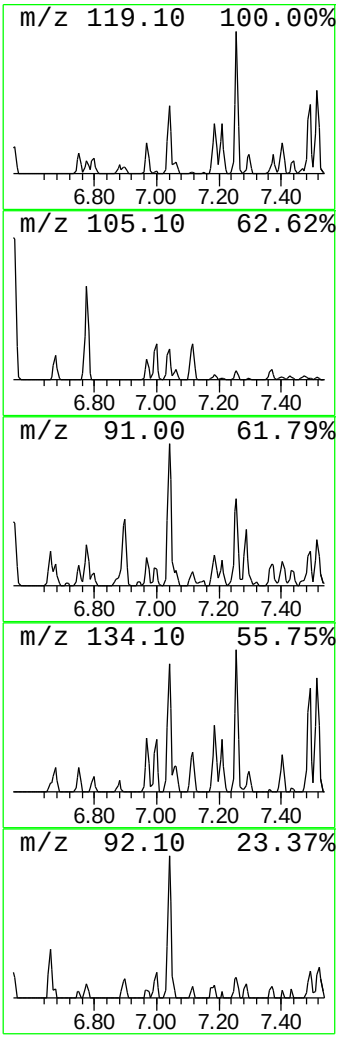
**********

Peak Number 7 Benzene, 1,3-diethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.04 | 4.83 ng | 168189 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 94 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 93 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 93 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 90 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 87 |



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Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

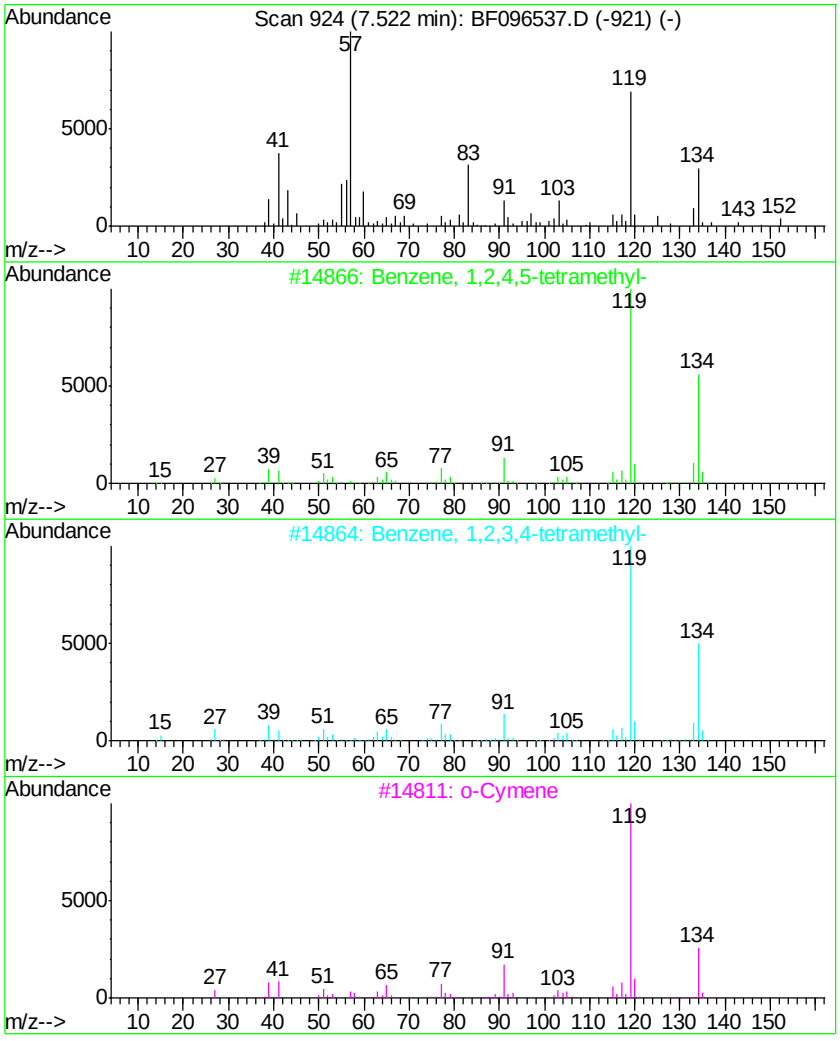
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

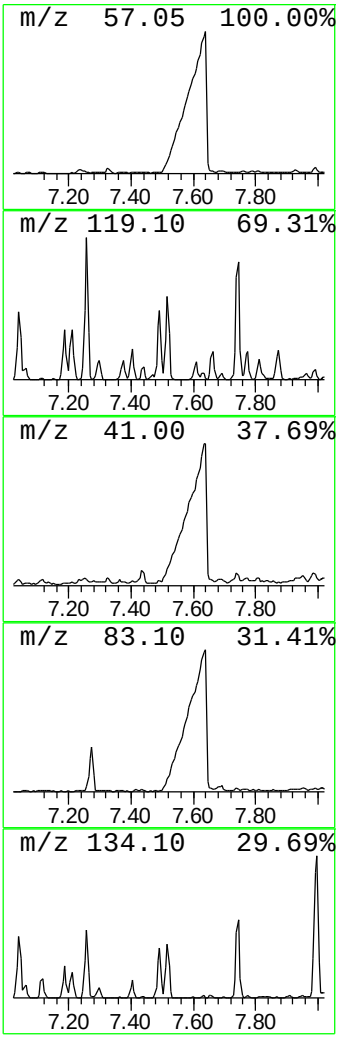
**********

Peak Number 8 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.52 | 4.57 ng | 255191 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 93 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 87 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 87 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 87 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 87 |



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Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

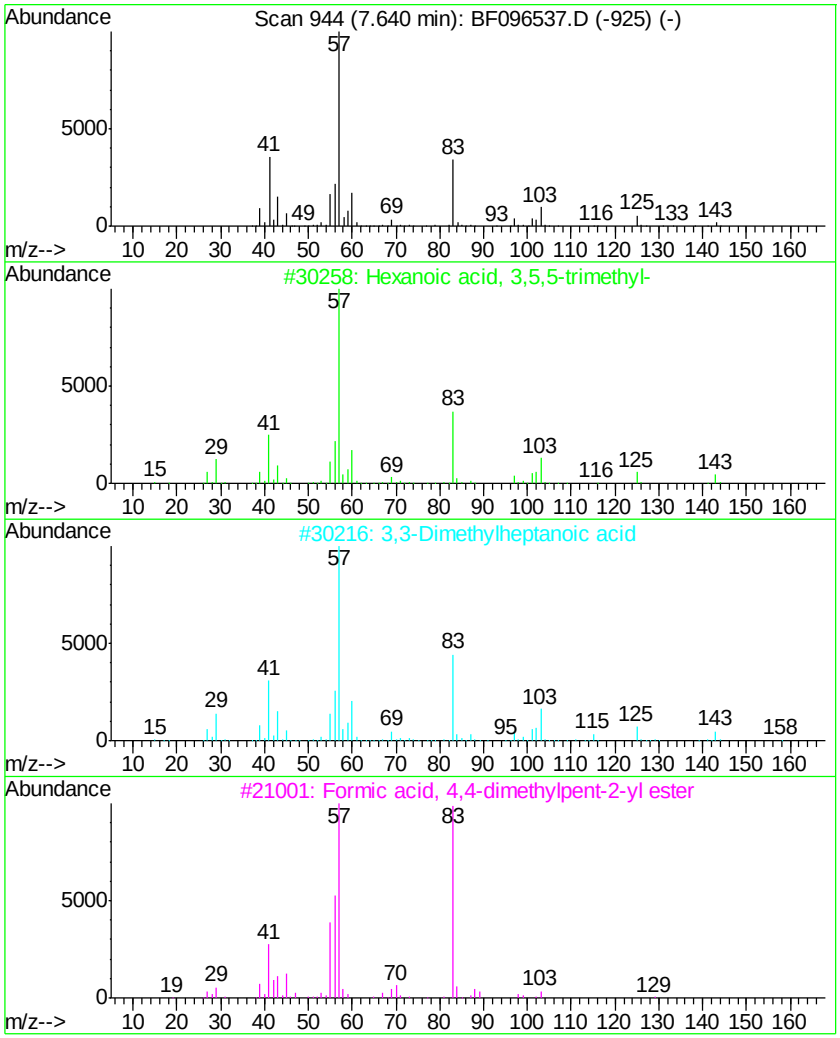
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

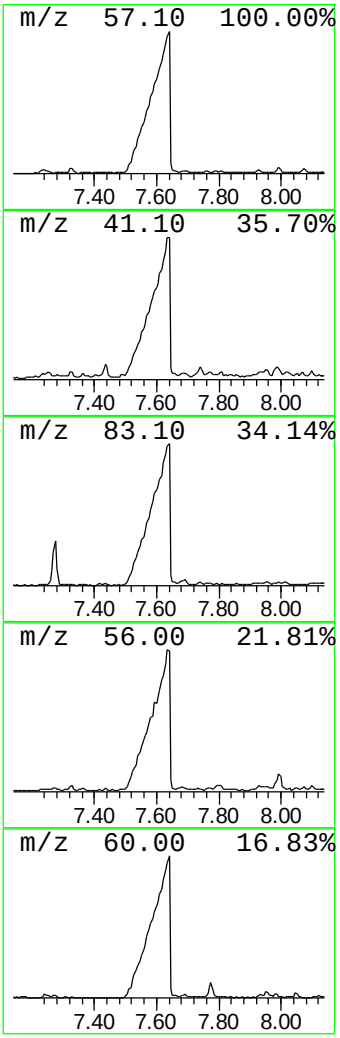
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Hexanoic acid, 3,5,5-trimet... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.64 | 76.67 ng | 4278510 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 3,5,5-trimethyl- | 158 | C9H18O2 | 003302-10-1 | 90 |
| 2 | 3,3-Dimethylheptanoic acid | 158 | C9H18O2 | 067061-30-7 | 83 |
| 3 | Formic acid, 4,4-dimethylpent-2-... | 144 | C8H16O2 | 1000368-69-9 | 35 |
| 4 | Propanoic acid, 2,2-dimethyl-, m... | 116 | C6H12O2 | 000598-98-1 | 35 |
| 5 | Pivalic acid, 2-methylpropyl ester | 158 | C9H18O2 | 005129-38-4 | 23 |



Library Search Compound Report

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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

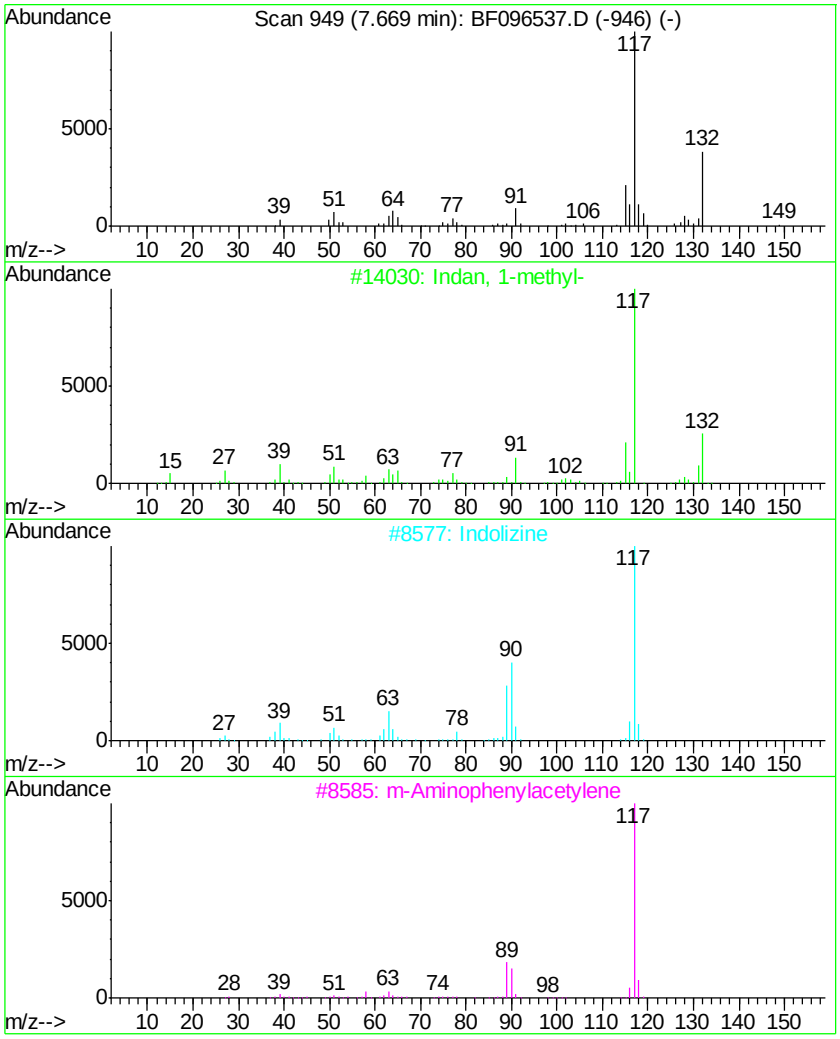
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

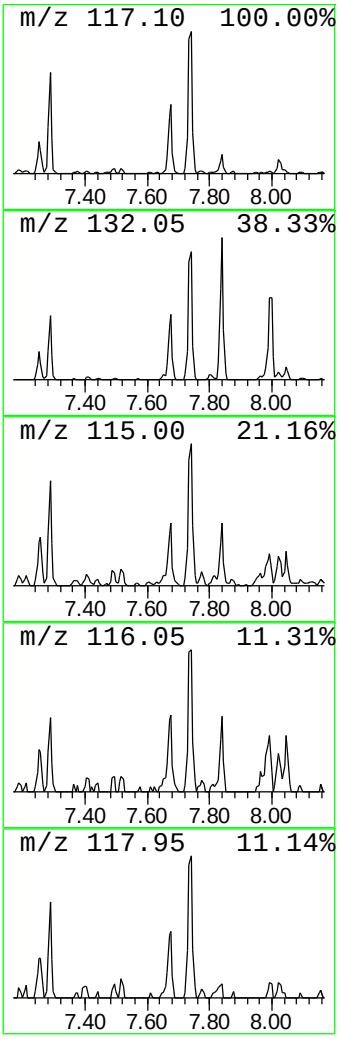
**********

Peak Number 10 Indan, 1-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.67 | 4.46 ng | 248936 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 72 |
| 2 | Indolizine | 117 | C8H7N | 000274-40-8 | 46 |
| 3 | m-Aminophenylacetylene | 117 | C8H7N | 054060-30-9 | 43 |
| 4 | 5H-1-Pyrindine | 117 | C8H7N | 000270-91-7 | 43 |
| 5 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 40 |



# Library Search Compound Report

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Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

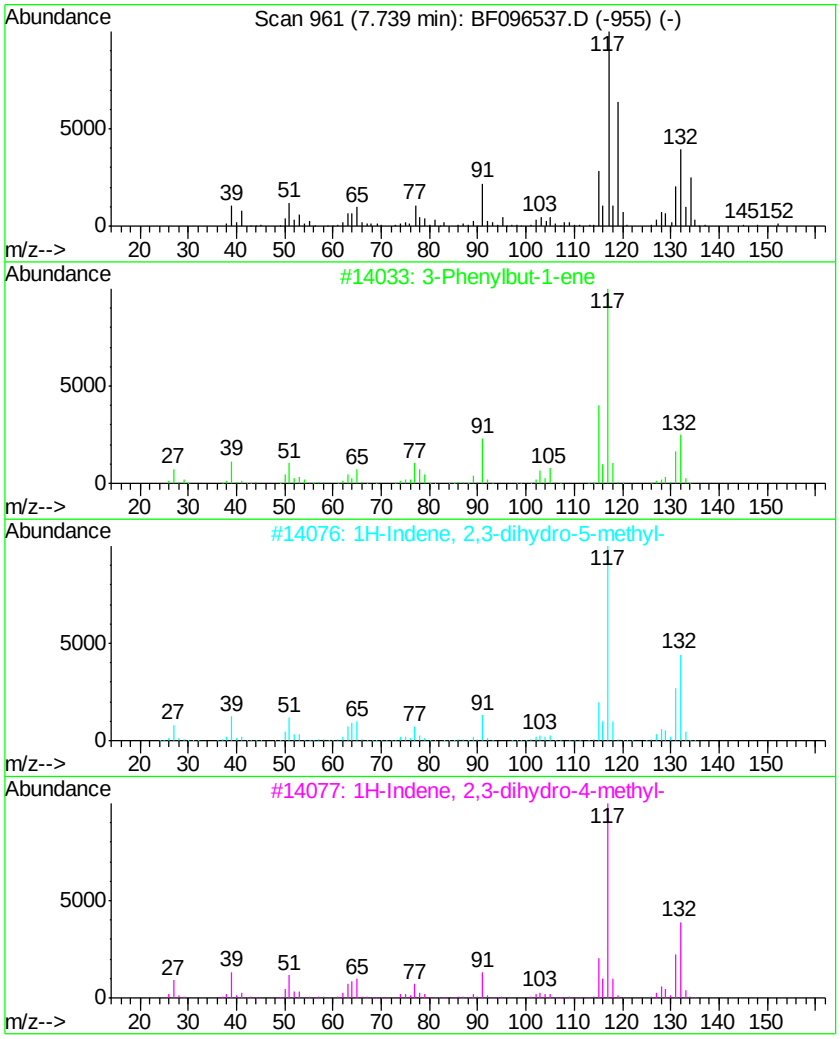
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

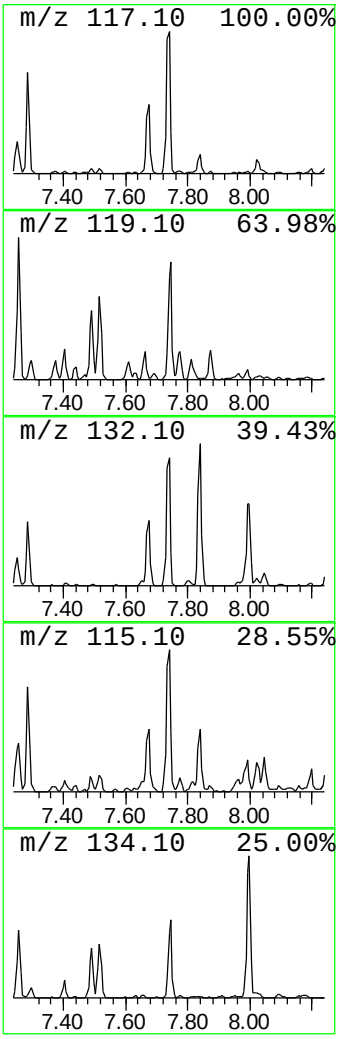
**********

Peak Number 11 3-Phenylbut-1-ene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.74 | 8.92 ng | 497991 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 76 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 70 |
| 3 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 70 |
| 4 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 64 |
| 5 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 62 |



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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

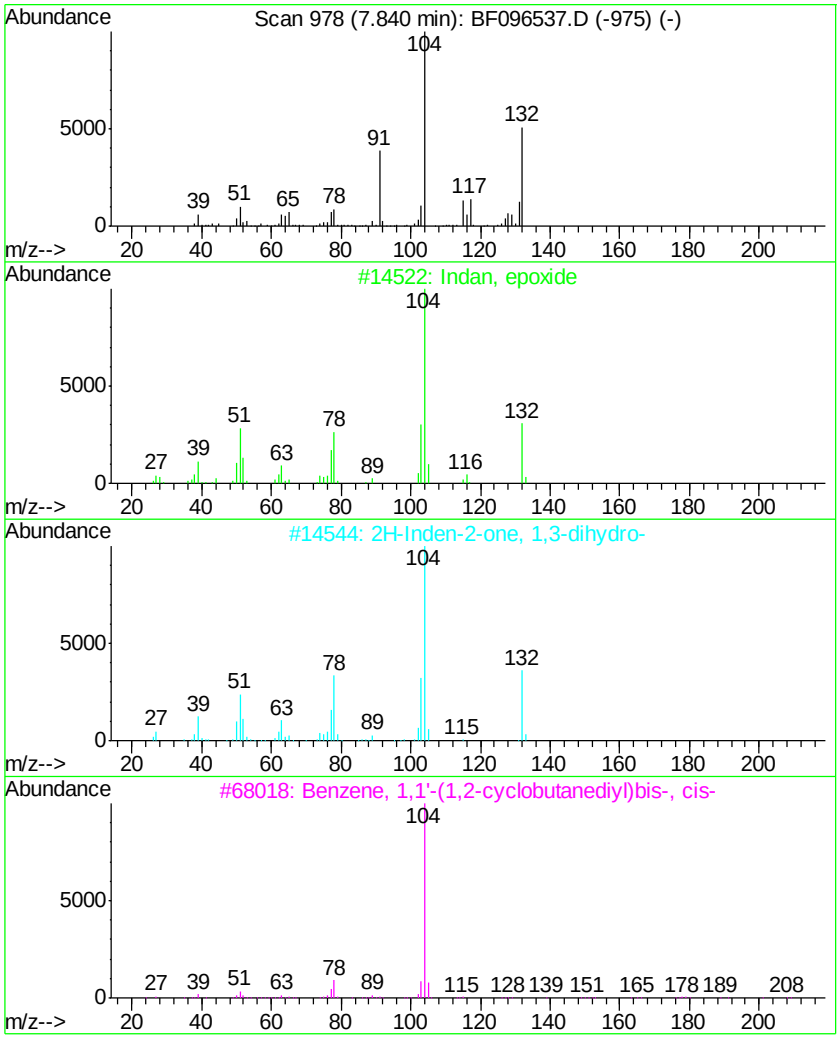
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

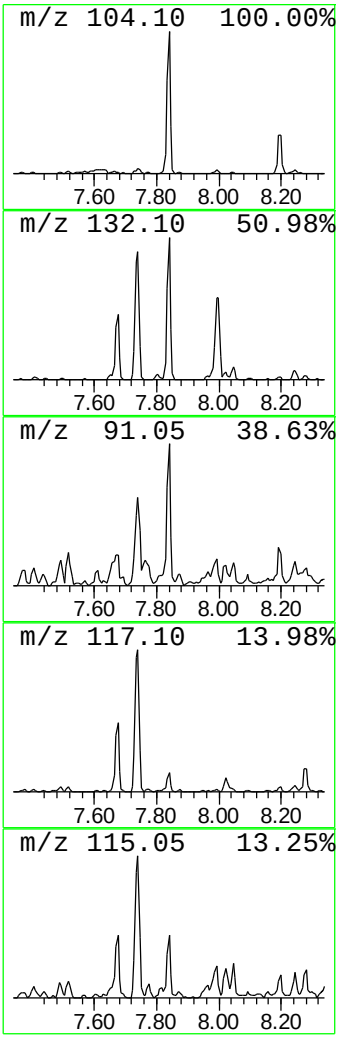
**********

Peak Number 12 unknown7.84 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.84 | 4.37 ng | 244133 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indan, epoxide | 132 | C9H8O | 000768-22-9 | 42 |
| 2 | 2H-Inden-2-one, 1,3-dihydro- | 132 | C9H8O | 000615-13-4 | 40 |
| 3 | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16 | 007694-30-6 | 38 |
| 4 | 2-Phehylethylamine, N,N-di(trifl... | 313 | C12H9F6NO2 | 1000328-32-5 | 38 |
| 5 | 2-Furancarboxylic acid, 2-phenyl... | 216 | C13H12O3 | 007149-32-8 | 38 |



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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

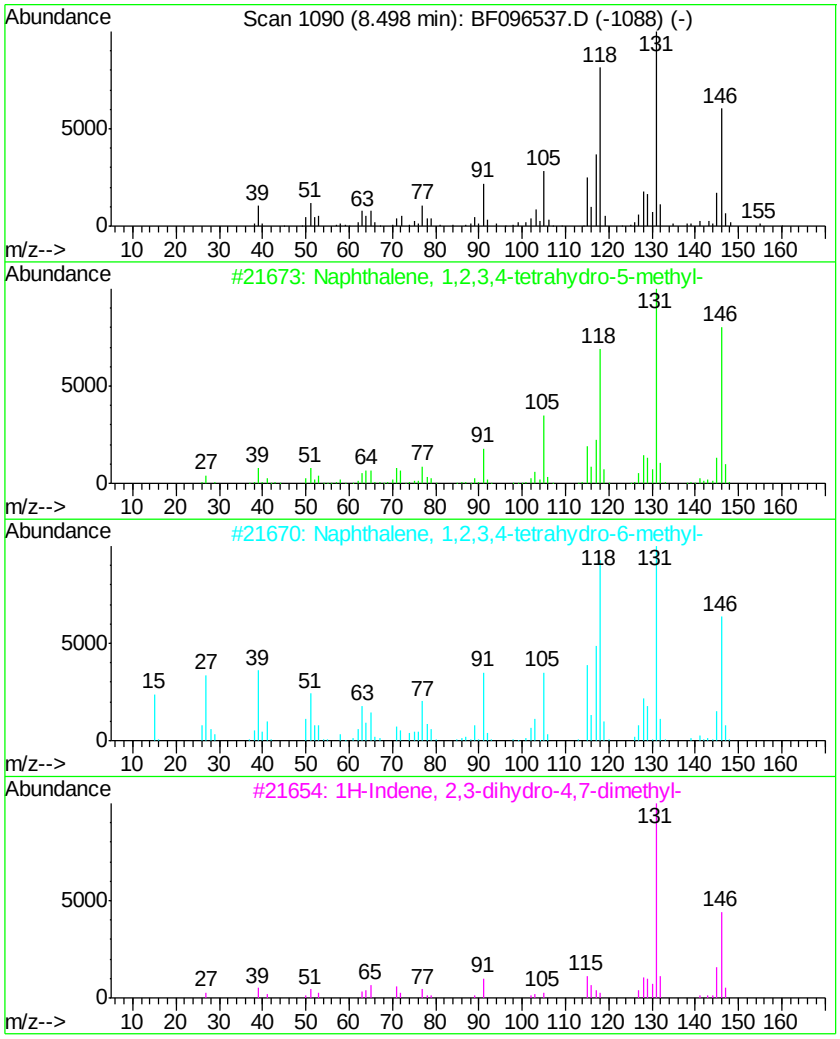
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

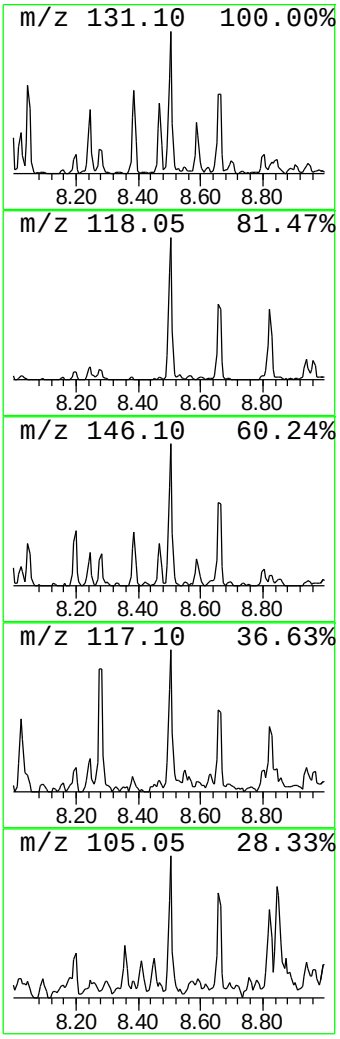
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.50 | 4.16 ng | 232245 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 96 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001680-51-9 | 95 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 83 |
| 4 | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14 | 097664-18-1 | 70 |
| 5 | 1H-Inden-1-one, 2,3-dihydro-2-me... | 146 | C10H10O | 017496-14-9 | 70 |



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Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.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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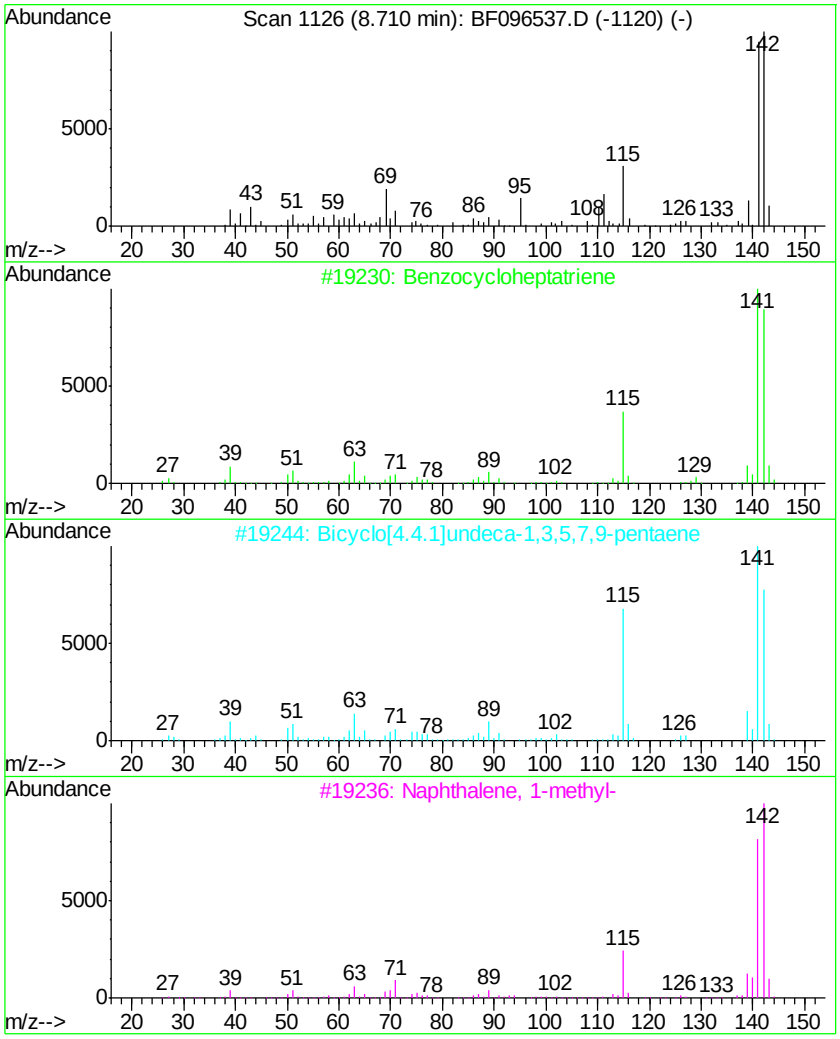
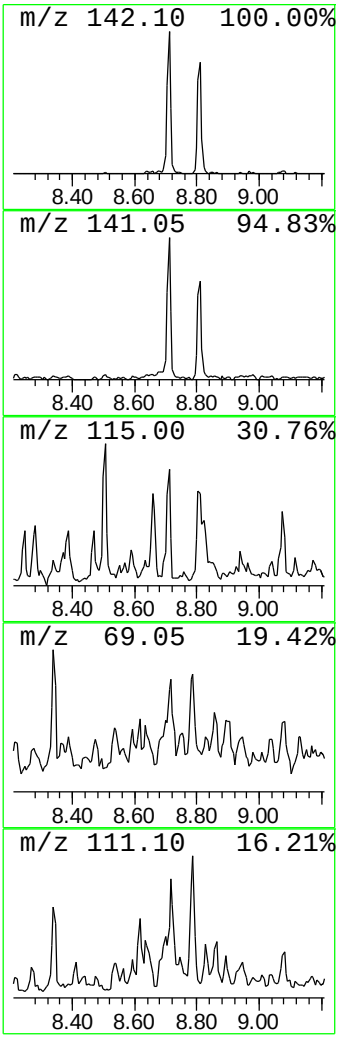
Peak Number 14 Benzocycloheptatriene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.71 | 3.80 ng | 212324 | Naphthalene-d8 | 8.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 87 |
| 2 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 87 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 87 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 87 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 83 |



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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.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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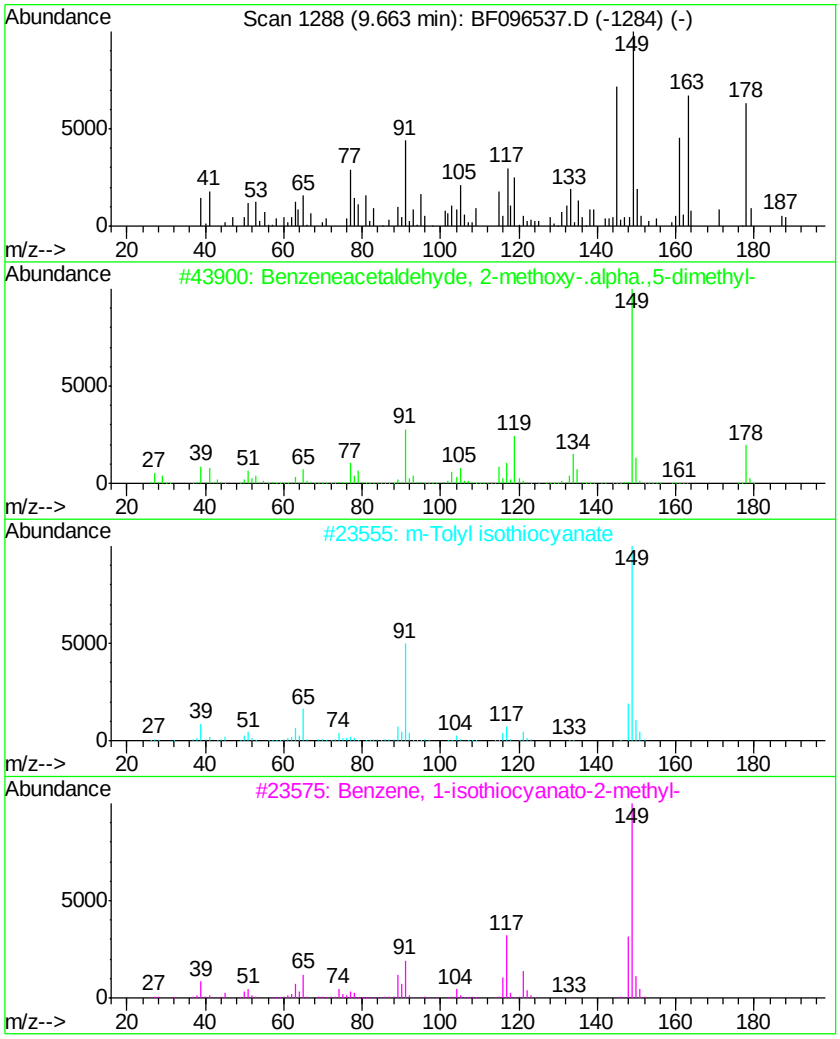
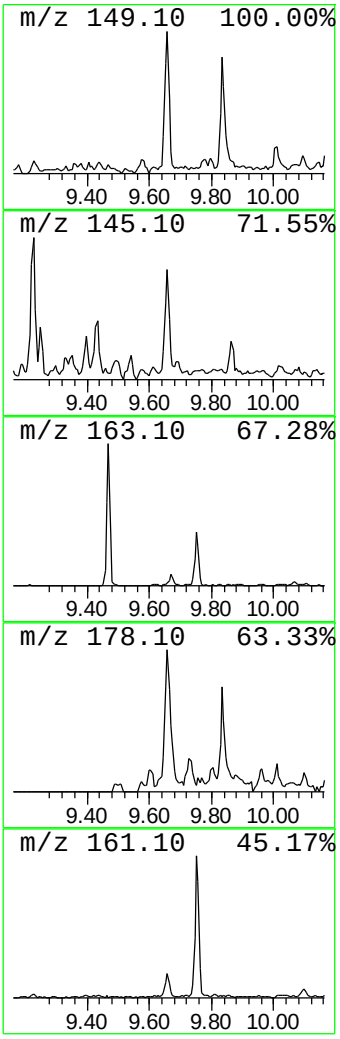
Peak Number 15 unknown9.66 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.66 | 3.68 ng | 178317 | Acenaphthene-d10 | 9.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetaldehyde, 2-methoxy-.... | 178 | C11H14O2 | 053155-90-1 | 43 |
| 2 | m-Tolyl isothiocyanate | 149 | C8H7NS | 000621-30-7 | 25 |
| 3 | Benzene, 1-isothiocyanato-2-methyl- | 149 | C8H7NS | 000614-69-7 | 22 |
| 4 | Benzene, 1-isothiocyanato-4-methyl- | 149 | C8H7NS | 000622-59-3 | 22 |
| 5 | Phthalic acid, ethyl 2-methylall... | 248 | C14H16O4 | 1000315-19-8 | 22 |



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Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

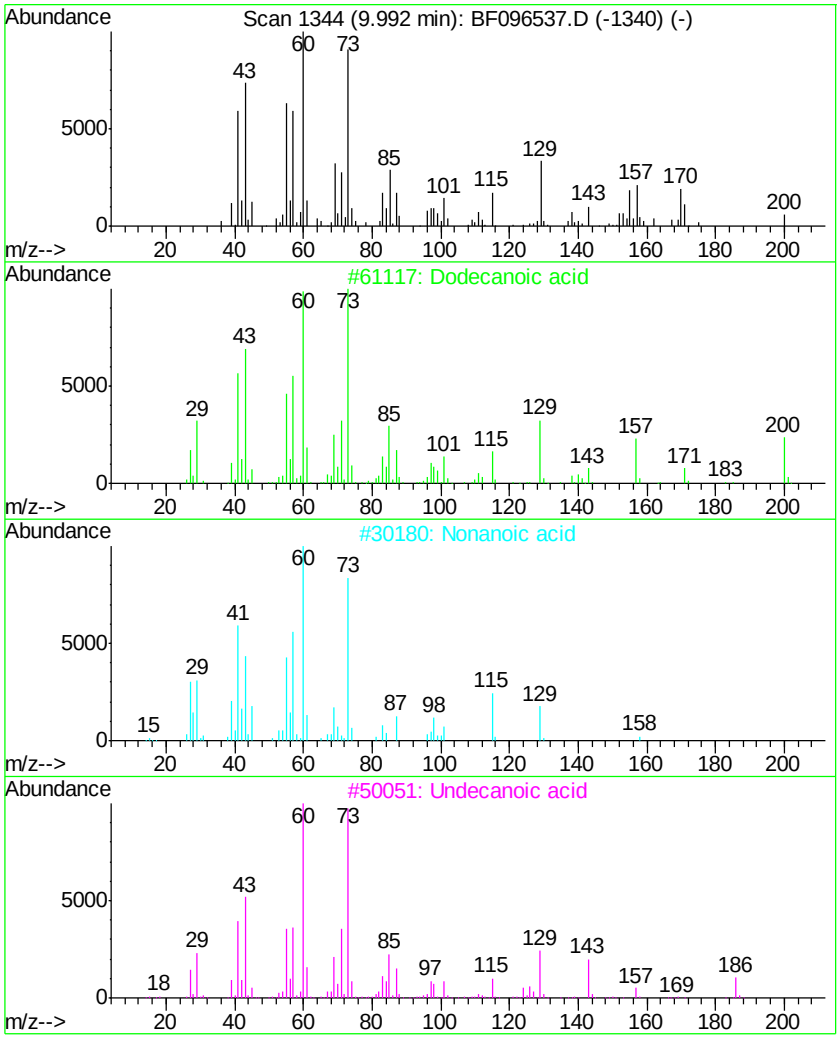
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

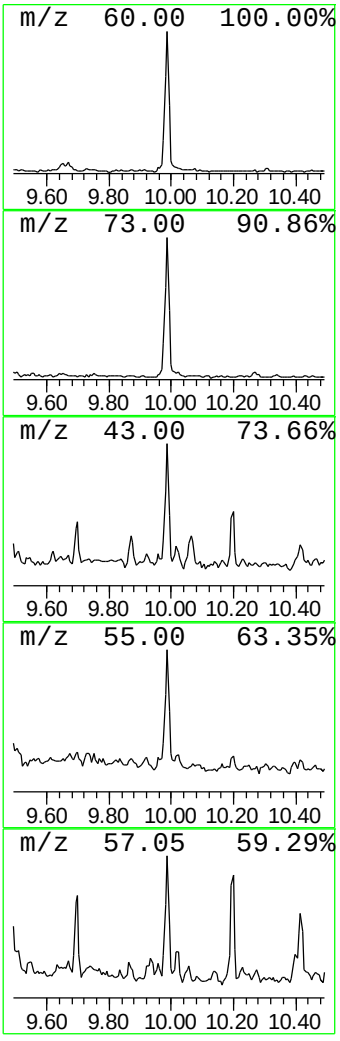
**********

Peak Number 16 Dodecanoic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.99 | 5.38 ng | 260969 | Acenaphthene-d10 | 9.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 91 |
| 2 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 70 |
| 3 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 64 |
| 4 | Octanoic acid, silver(1+) salt | 250 | C8H15AgO2 | 024927-67-1 | 47 |
| 5 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\Data\BF070617\
Data File : BF096537.D
Acq On : 6 Jul 2017 17:04
Operator : SJ/MA
Sample : I4030-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** D1-TWP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.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 |
| 2-Propanol, 1-pro... | 4.92 | 24.2 | ng | 843920 | 1 | 6.72 | 696834 | 20.0 |
| unknown6.48 | 6.48 | 58.1 | ng | 2024390 | 1 | 6.72 | 696834 | 20.0 |
| Benzene, 1,2,3-tr... | 6.54 | 8.4 | ng | 292116 | 1 | 6.72 | 696834 | 20.0 |
| Benzene, 1-ethyl-... | 6.77 | 4.4 | ng | 153910 | 1 | 6.72 | 696834 | 20.0 |
| Indane | 6.90 | 4.9 | ng | 172254 | 1 | 6.72 | 696834 | 20.0 |
| Benzene, 1,3-diet... | 7.04 | 4.8 | ng | 168189 | 1 | 6.72 | 696834 | 20.0 |
| Benzene, 1,2,4,5-... | 7.52 | 4.6 | ng | 255191 | 2 | 8.00 | 1116050 | 20.0 |
| Hexanoic acid, 3,... | 7.64 | 76.7 | ng | 4278510 | 2 | 8.00 | 1116050 | 20.0 |
| Indan, 1-methyl- | 7.67 | 4.5 | ng | 248936 | 2 | 8.00 | 1116050 | 20.0 |
| 3-Phenylbut-1-ene | 7.74 | 8.9 | ng | 497991 | 2 | 8.00 | 1116050 | 20.0 |
| unknown7.84 | 7.84 | 4.4 | ng | 244133 | 2 | 8.00 | 1116050 | 20.0 |
| Naphthalene, 1,2,... | 8.50 | 4.2 | ng | 232245 | 2 | 8.00 | 1116050 | 20.0 |
| Benzocycloheptatr... | 8.71 | 3.8 | ng | 212324 | 2 | 8.00 | 1116050 | 20.0 |
| unknown9.66 | 9.66 | 3.7 | ng | 178317 | 3 | 9.75 | 970115 | 20.0 |
| Dodecanoic acid | 9.99 | 5.4 | ng | 260969 | 3 | 9.75 | 970115 | 20.0 |