LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

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-BF051019.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 | 5.057 | 502 | 505 | 521 | rVB2 | 88745 | 128469 | 2.83% | 0.147% |
| 2 | 5.475 | 572 | 576 | 597 | rVB | 3979724 | 4035314 | 88.87% | 4.603% |
| 3 | 6.098 | 676 | 682 | 685 | rBV2 | 155930 | 199702 | 4.40% | 0.228% |
| 4 | 6.286 | 709 | 714 | 717 | rBV2 | 79080 | 94922 | 2.09% | 0.108% |
| 5 | 6.381 | 727 | 730 | 733 | rBV2 | 191121 | 195729 | 4.31% | 0.223% |
| 6 | 6.492 | 744 | 749 | 756 | rBV | 4418185 | 4458315 | 98.18% | 5.085% |
| 7 | 6.586 | 761 | 765 | 767 | rBV2 | 70944 | 104178 | 2.29% | 0.119% |
| 8 | 6.622 | 767 | 771 | 774 | rVV | 4638191 | 4162529 | 91.67% | 4.748% |
| 9 | 6.845 | 805 | 809 | 816 | rVB2 | 1532077 | 1492929 | 32.88% | 1.703% |
| 10 | 7.004 | 831 | 836 | 839 | rVV | 3524605 | 3237116 | 71.29% | 3.692% |
| 11 | 7.122 | 853 | 856 | 859 | rVB | 252197 | 252502 | 5.56% | 0.288% |
| 12 | 7.151 | 859 | 861 | 864 | rBV | 117363 | 108488 | 2.39% | 0.124% |
| 13 | 7.186 | 864 | 867 | 870 | rVV2 | 109764 | 119680 | 2.64% | 0.137% |
| 14 | 7.233 | 870 | 875 | 879 | rVV3 | 196742 | 273905 | 6.03% | 0.312% |
| 15 | 7.269 | 879 | 881 | 886 | rVB5 | 73381 | 98741 | 2.17% | 0.113% |
| 16 | 7.381 | 893 | 900 | 901 | rBV3 | 202547 | 320868 | 7.07% | 0.366% |
| 17 | 7.410 | 901 | 905 | 914 | rVB | 2716176 | 2998654 | 66.04% | 3.420% |
| 18 | 7.486 | 914 | 918 | 922 | rVB5 | 192472 | 304604 | 6.71% | 0.347% |
| 19 | 7.551 | 922 | 929 | 932 | rBV3 | 153090 | 349039 | 7.69% | 0.398% |
| 20 | 7.598 | 934 | 937 | 939 | rVV2 | 109790 | 124580 | 2.74% | 0.142% |
| 21 | 7.622 | 939 | 941 | 944 | rVV2 | 199098 | 209155 | 4.61% | 0.239% |
| 22 | 7.651 | 944 | 946 | 949 | rVB | 225660 | 164269 | 3.62% | 0.187% |
| 23 | 7.745 | 954 | 962 | 964 | rBV4 | 253181 | 347537 | 7.65% | 0.396% |
| 24 | 7.769 | 964 | 966 | 969 | rVB3 | 325549 | 273812 | 6.03% | 0.312% |
| 25 | 7.804 | 969 | 972 | 975 | rBV3 | 222414 | 277350 | 6.11% | 0.316% |
| 26 | 7.839 | 975 | 978 | 981 | rBV2 | 164875 | 147205 | 3.24% | 0.168% |
| 27 | 7.875 | 981 | 984 | 989 | rBV6 | 252007 | 336591 | 7.41% | 0.384% |
| 28 | 7.922 | 989 | 992 | 994 | rVB | 169888 | 122459 | 2.70% | 0.140% |
| 29 | 7.945 | 994 | 996 | 1002 | rVB5 | 133819 | 160607 | 3.54% | 0.183% |
| 30 | 7.998 | 1002 | 1005 | 1008 | rBV3 | 141198 | 204354 | 4.50% | 0.233% |
| 31 | 8.033 | 1008 | 1011 | 1014 | rBV | 104008 | 88446 | 1.95% | 0.101% |
| 32 | 8.063 | 1014 | 1016 | 1017 | rBV2 | 116200 | 78898 | 1.74% | 0.090% |
| 33 | 8.080 | 1017 | 1019 | 1021 | rVV3 | 68313 | 83027 | 1.83% | 0.095% |
| 34 | 8.128 | 1021 | 1027 | 1033 | rVV | 1799945 | 2036079 | 44.84% | 2.322% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

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-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.186 | 1033 | 1037 | 1040 | rVB | 997715 | 946503 | 20.84% | 1.080% |
| 36 | 8.216 | 1040 | 1042 | 1045 | rBV3 | 260017 | 233110 | 5.13% | 0.266% |
| 37 | 8.280 | 1050 | 1053 | 1055 | rBV4 | 152489 | 173968 | 3.83% | 0.198% |
| 38 | 8.304 | 1055 | 1057 | 1059 | rVV2 | 107862 | 101239 | 2.23% | 0.115% |
| 39 | 8.333 | 1059 | 1062 | 1064 | rVB | 352910 | 282587 | 6.22% | 0.322% |
| 40 | 8.416 | 1069 | 1076 | 1083 | rBV5 | 646096 | 1159323 | 25.53% | 1.322% |
| 41 | 8.469 | 1083 | 1085 | 1088 | rVB2 | 253901 | 228598 | 5.03% | 0.261% |
| 42 | 8.510 | 1088 | 1092 | 1095 | rVB4 | 285728 | 330570 | 7.28% | 0.377% |
| 43 | 8.551 | 1095 | 1099 | 1101 | rBV | 1164133 | 1121335 | 24.69% | 1.279% |
| 44 | 8.569 | 1101 | 1102 | 1104 | rVB | 235720 | 134025 | 2.95% | 0.153% |
| 45 | 8.592 | 1104 | 1106 | 1109 | rVB3 | 238906 | 193118 | 4.25% | 0.220% |
| 46 | 8.633 | 1110 | 1113 | 1115 | rBV | 352307 | 278179 | 6.13% | 0.317% |
| 47 | 8.669 | 1115 | 1119 | 1121 | rBV4 | 433089 | 458609 | 10.10% | 0.523% |
| 48 | 8.716 | 1125 | 1127 | 1131 | rBV4 | 301631 | 355579 | 7.83% | 0.406% |
| 49 | 8.757 | 1131 | 1134 | 1136 | rBV3 | 150239 | 163673 | 3.60% | 0.187% |
| 50 | 8.816 | 1141 | 1144 | 1147 | rVB4 | 627609 | 626976 | 13.81% | 0.715% |
| 51 | 8.875 | 1151 | 1154 | 1156 | rBV4 | 308993 | 266747 | 5.87% | 0.304% |
| 52 | 8.910 | 1156 | 1160 | 1162 | rBV4 | 248666 | 402133 | 8.86% | 0.459% |
| 53 | 9.004 | 1173 | 1176 | 1178 | rBV4 | 312151 | 388107 | 8.55% | 0.443% |
| 54 | 9.033 | 1178 | 1181 | 1185 | rVB4 | 570551 | 665806 | 14.66% | 0.759% |
| 55 | 9.075 | 1185 | 1188 | 1192 | rBV4 | 169322 | 266765 | 5.87% | 0.304% |
| 56 | 9.122 | 1193 | 1196 | 1198 | rVV2 | 310373 | 234646 | 5.17% | 0.268% |
| 57 | 9.151 | 1198 | 1201 | 1205 | rBV | 1546791 | 1466367 | 32.29% | 1.673% |
| 58 | 9.198 | 1206 | 1209 | 1214 | rVB | 3962611 | 3877185 | 85.38% | 4.422% |
| 59 | 9.239 | 1214 | 1216 | 1218 | rBV2 | 125351 | 97504 | 2.15% | 0.111% |
| 60 | 9.286 | 1220 | 1224 | 1228 | rBV2 | 762716 | 1117366 | 24.61% | 1.274% |
| 61 | 9.398 | 1241 | 1243 | 1247 | rVB | 409117 | 404588 | 8.91% | 0.461% |
| 62 | 9.469 | 1251 | 1255 | 1258 | rVV2 | 524989 | 692015 | 15.24% | 0.789% |
| 63 | 9.539 | 1264 | 1267 | 1269 | rBV | 851836 | 702271 | 15.47% | 0.801% |
| 64 | 9.604 | 1273 | 1278 | 1281 | rBV2 | 2259102 | 2623885 | 57.78% | 2.993% |
| 65 | 9.627 | 1281 | 1282 | 1284 | rVB | 136863 | 79882 | 1.76% | 0.091% |
| 66 | 9.657 | 1285 | 1287 | 1289 | rBV | 389483 | 285224 | 6.28% | 0.325% |
| 67 | 9.751 | 1299 | 1303 | 1306 | rBV3 | 498418 | 634385 | 13.97% | 0.724% |
| 68 | 9.792 | 1307 | 1310 | 1312 | rBV | 625547 | 524300 | 11.55% | 0.598% |
| 69 | 9.880 | 1318 | 1325 | 1328 | rBV2 | 1918105 | 2561036 | 56.40% | 2.921% |
| 70 | 9.916 | 1329 | 1331 | 1334 | rVB3 | 409212 | 338418 | 7.45% | 0.386% |
| 71 | 9.986 | 1340 | 1343 | 1347 | rBV | 673256 | 793791 | 17.48% | 0.905% |

LSC Area Percent Report

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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

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-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 10.039 | 1348 | 1352 | 1354 | rBV5 | 282454 | 462750 | 10.19% | 0.528% |
| 73 | 10.074 | 1355 | 1358 | 1363 | rBV2 | 710774 | 1009253 | 22.23% | 1.151% |
| 74 | 10.139 | 1365 | 1369 | 1376 | rVB7 | 788425 | 1440210 | 31.72% | 1.643% |
| 75 | 10.198 | 1376 | 1379 | 1382 | rBV2 | 816125 | 934045 | 20.57% | 1.065% |
| 76 | 10.227 | 1382 | 1384 | 1386 | rBV | 437833 | 337109 | 7.42% | 0.385% |
| 77 | 10.251 | 1386 | 1388 | 1391 | rVB2 | 400192 | 382463 | 8.42% | 0.436% |
| 78 | 10.292 | 1391 | 1395 | 1396 | rBV3 | 812405 | 845261 | 18.61% | 0.964% |
| 79 | 10.427 | 1415 | 1418 | 1424 | rBV5 | 556359 | 974957 | 21.47% | 1.112% |
| 80 | 10.533 | 1431 | 1436 | 1440 | rVB | 2245918 | 2466435 | 54.32% | 2.813% |
| 81 | 10.580 | 1442 | 1444 | 1449 | rVB4 | 449805 | 592067 | 13.04% | 0.675% |
| 82 | 10.627 | 1449 | 1452 | 1453 | rBV2 | 265859 | 292022 | 6.43% | 0.333% |
| 83 | 10.651 | 1453 | 1456 | 1457 | rBV | 398138 | 295145 | 6.50% | 0.337% |
| 84 | 10.674 | 1457 | 1460 | 1463 | rBV | 2258437 | 2000911 | 44.06% | 2.282% |
| 85 | 10.798 | 1476 | 1481 | 1484 | rBV | 4159745 | 4540855 | 100.00% | 5.179% |
| 86 | 11.010 | 1515 | 1517 | 1520 | rVB2 | 679669 | 548062 | 12.07% | 0.625% |
| 87 | 11.263 | 1557 | 1560 | 1566 | rVB | 3139666 | 3518874 | 77.49% | 4.014% |
| 88 | 11.374 | 1575 | 1579 | 1581 | rBV | 1948083 | 2004506 | 44.14% | 2.286% |
| 89 | 11.398 | 1581 | 1583 | 1586 | rVB | 824322 | 718744 | 15.83% | 0.820% |
| 90 | 11.616 | 1617 | 1620 | 1623 | rBV2 | 1186904 | 1139039 | 25.08% | 1.299% |
| 91 | 11.874 | 1662 | 1664 | 1666 | rBV | 629854 | 596515 | 13.14% | 0.680% |
| 92 | 11.986 | 1680 | 1683 | 1685 | rVB2 | 955193 | 852823 | 18.78% | 0.973% |
| 93 | 12.351 | 1742 | 1745 | 1753 | rVB3 | 901585 | 1180003 | 25.99% | 1.346% |
| 94 | 12.427 | 1756 | 1758 | 1761 | rVB | 888527 | 741758 | 16.34% | 0.846% |
| 95 | 12.592 | 1783 | 1786 | 1789 | rBV | 1022366 | 948301 | 20.88% | 1.082% |
| 96 | 12.821 | 1822 | 1825 | 1826 | rBV | 686057 | 589394 | 12.98% | 0.672% |
| 97 | 12.874 | 1832 | 1834 | 1838 | rVB | 600743 | 636175 | 14.01% | 0.726% |
| 98 | 12.957 | 1845 | 1848 | 1851 | rVB | 2654920 | 2434215 | 53.61% | 2.776% |
| 99 | 14.033 | 2028 | 2031 | 2033 | rVB2 | 1022447 | 1047568 | 23.07% | 1.195% |
| 100 | 15.539 | 2285 | 2287 | 2294 | rVB | 1046321 | 1345141 | 29.62% | 1.534% |

Sum of corrected areas: 87674467

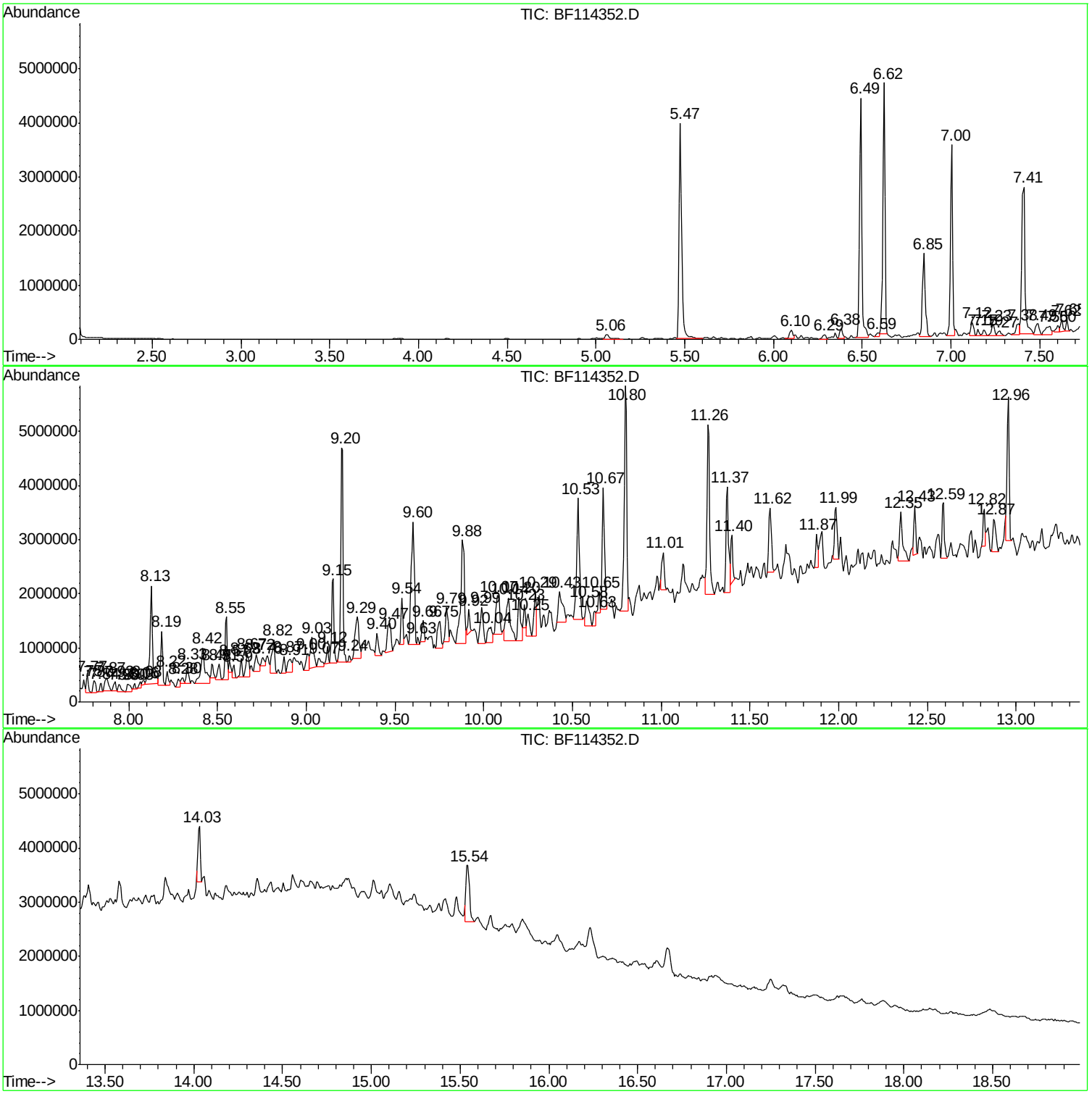
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

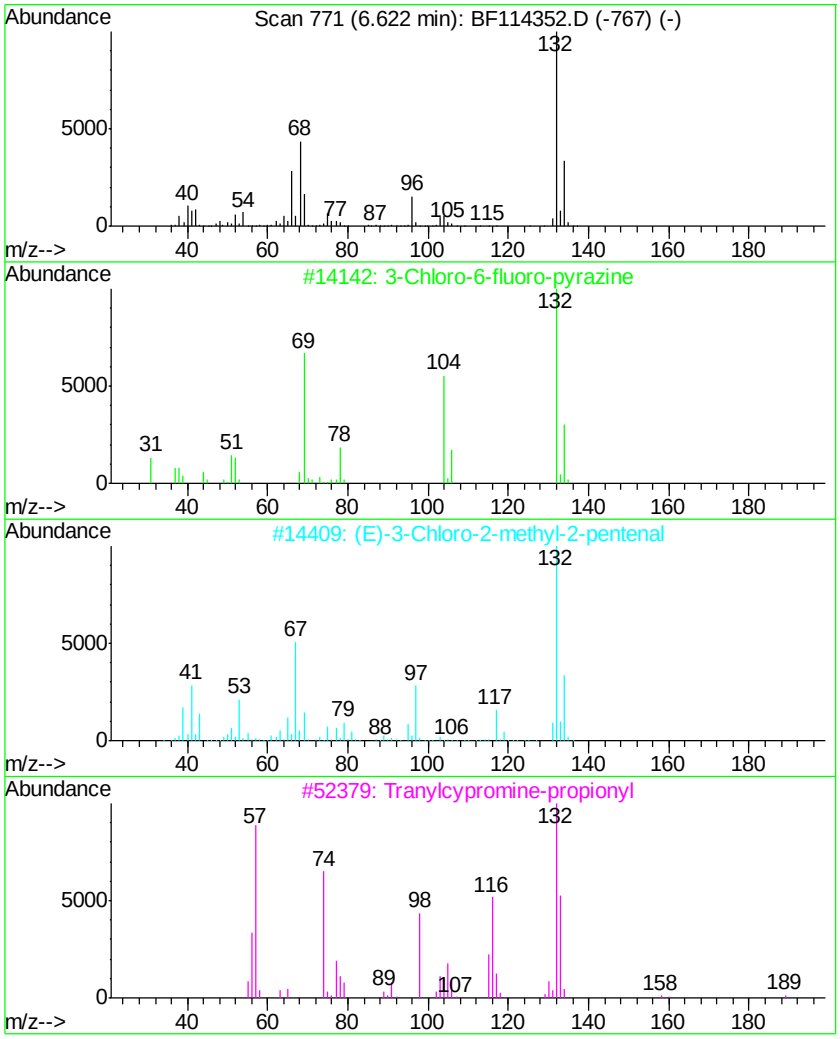
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

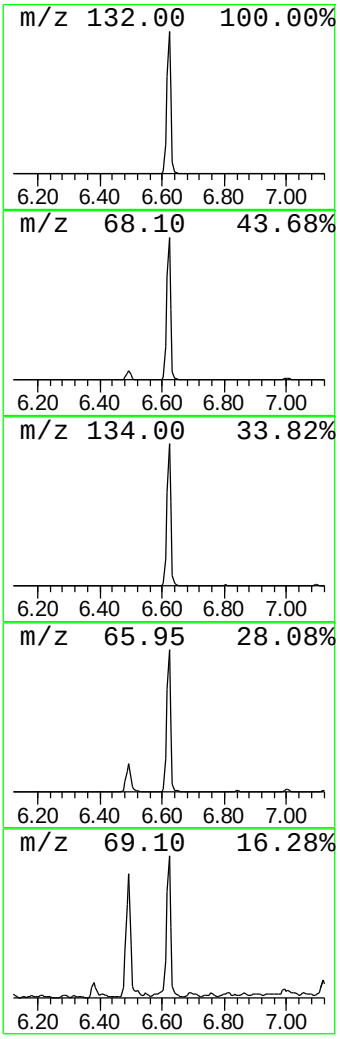
**********

Peak Number 1 unknown6.62 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.62 | 55.76 ng | 4162530 | 1,4-Dichlorobenzene-d4 | 6.85 |

| 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 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
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Operator : JU/SJ
Sample : K2871-02
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

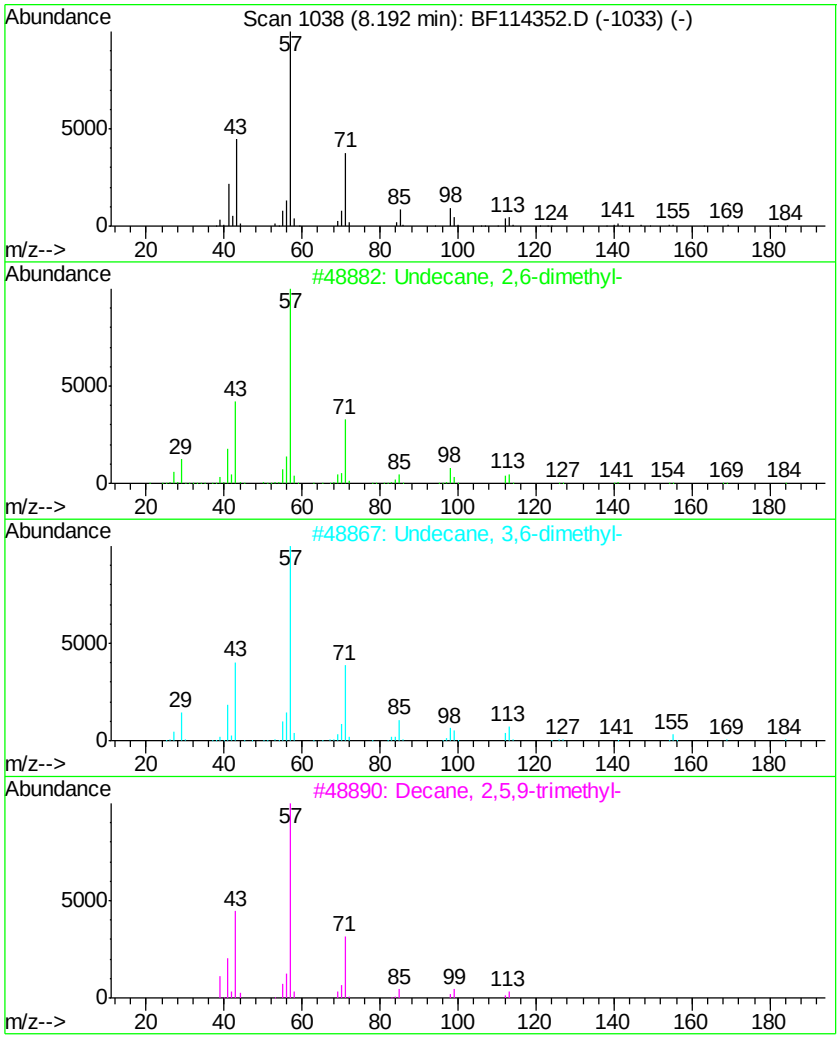
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

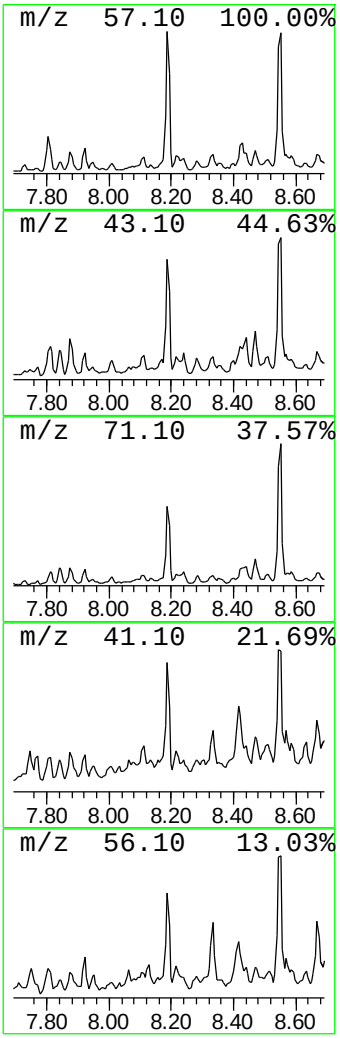
**********

Peak Number 3 Undecane, 2,6-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.19 | 9.30 ng | 946503 | Naphthalene-d8 | 8.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2,6-dimethyl- | 184 | C13H28 | 017301-23-4 | 97 |
| 2 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 78 |
| 3 | Decane, 2,5,9-trimethyl- | 184 | C13H28 | 062108-22-9 | 72 |
| 4 | Sulfurous acid, butyl 2-ethylhex... | 250 | C12H26O3S | 1000309-18-8 | 59 |
| 5 | Undecane, 2,5-dimethyl- | 184 | C13H28 | 017301-22-3 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

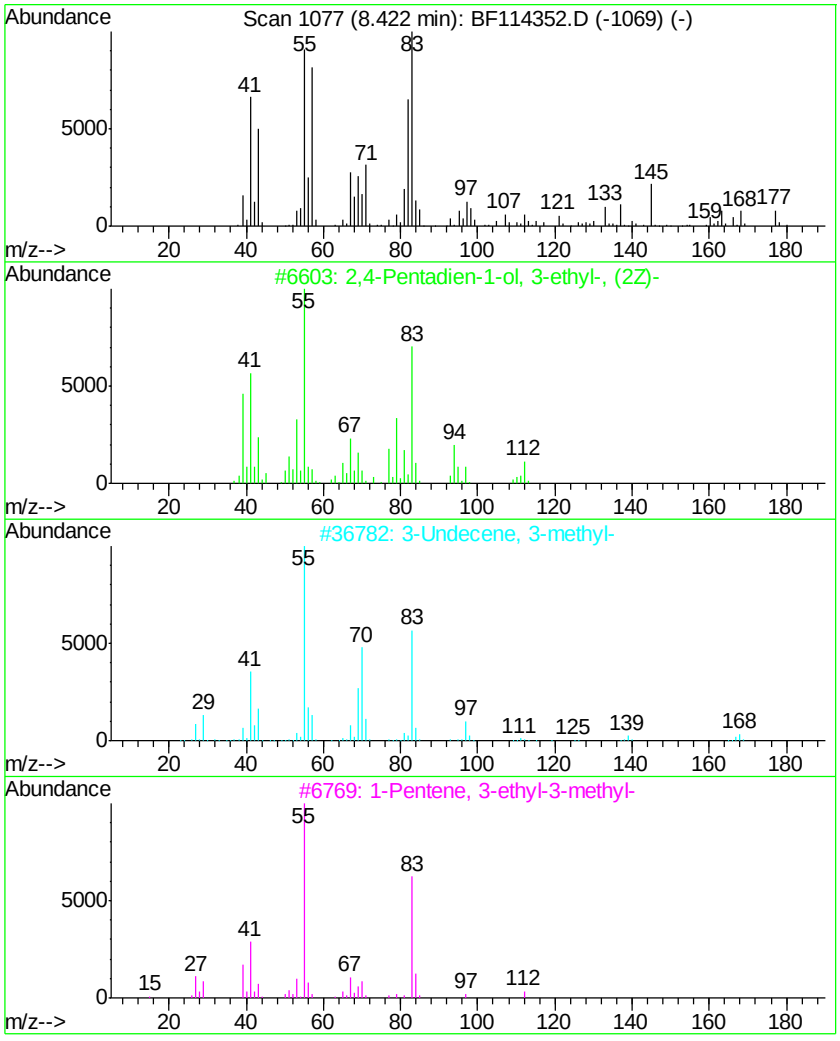
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

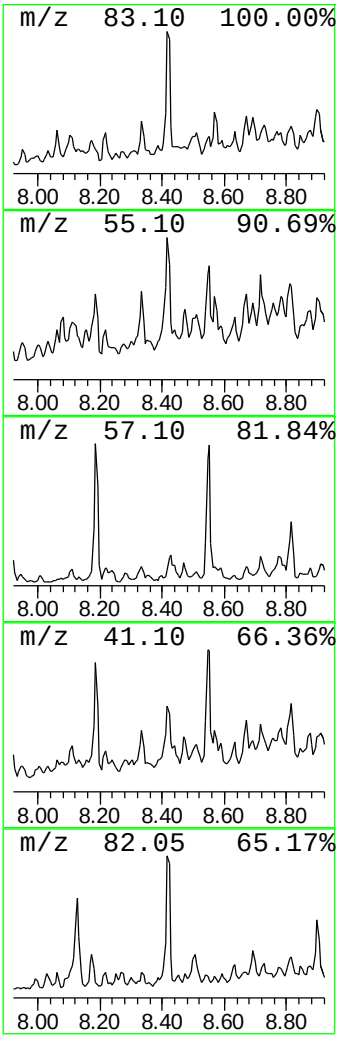
**********

Peak Number 4 unknown8.42 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.42 | 11.39 ng | 1159320 | Naphthalene-d8 | 8.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Pentadien-1-ol, 3-ethyl-, (2Z)- | 112 | C7H12O | 1000142-17-6 | 46 |
| 2 | 3-Undecene, 3-methyl- | 168 | C12H24 | 023381-94-4 | 43 |
| 3 | 1-Pentene, 3-ethyl-3-methyl- | 112 | C8H16 | 006196-60-7 | 38 |
| 4 | 3-Ethyl-4-methyl-2-pentene | 112 | C8H16 | 019780-68-8 | 38 |
| 5 | 2-Pentene, 3-ethyl-2-methyl- | 112 | C8H16 | 019780-67-7 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

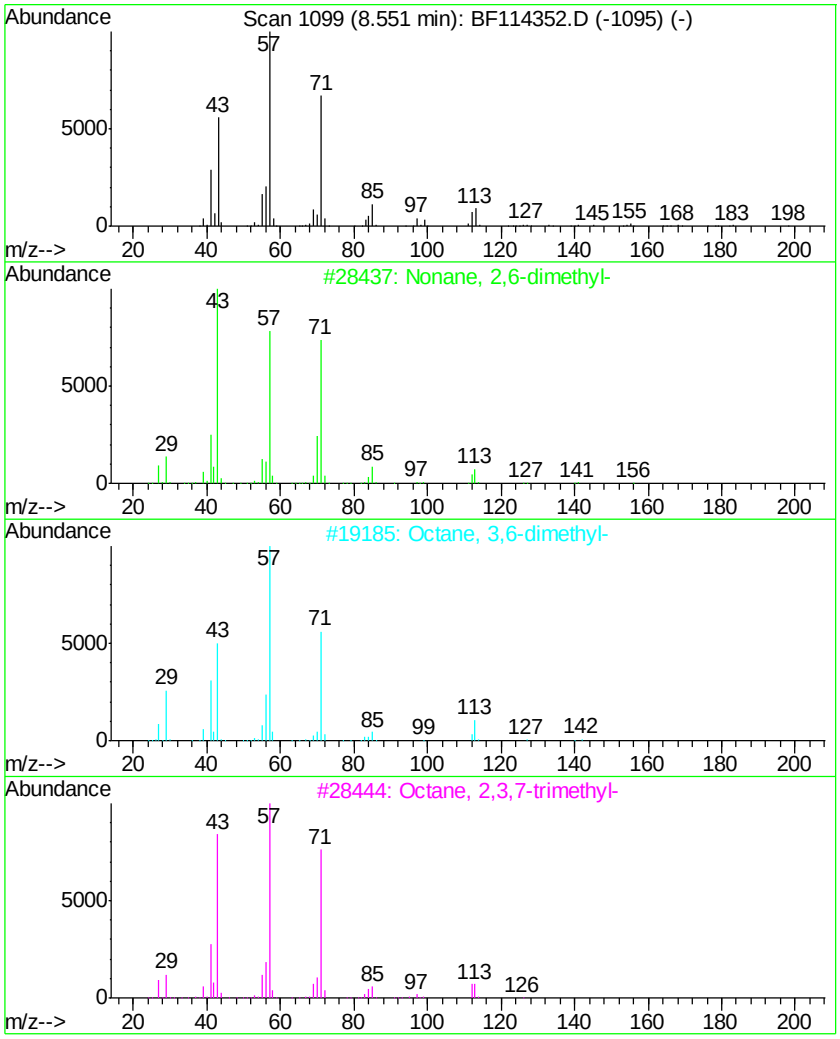
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

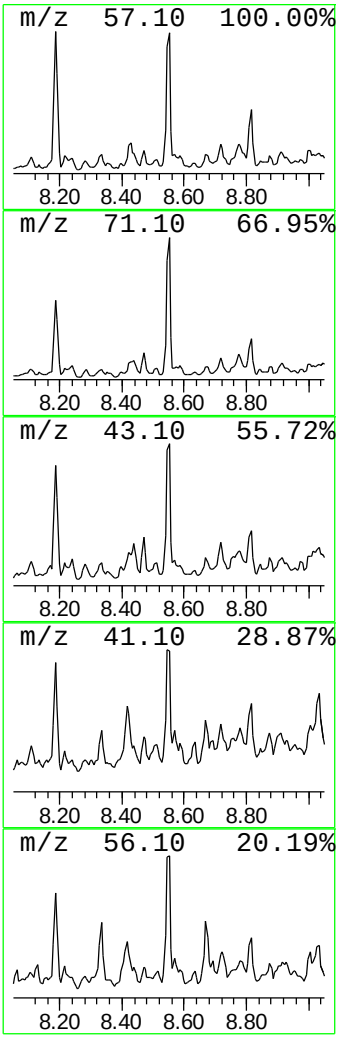
**********

Peak Number 5 Nonane, 2,6-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.55 | 11.01 ng | 1121340 | Naphthalene-d8 | 8.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2,6-dimethyl- | 156 | C11H24 | 017302-28-2 | 80 |
| 2 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 72 |
| 3 | Octane, 2,3,7-trimethyl- | 156 | C11H24 | 062016-34-6 | 72 |
| 4 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 72 |
| 5 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 70 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

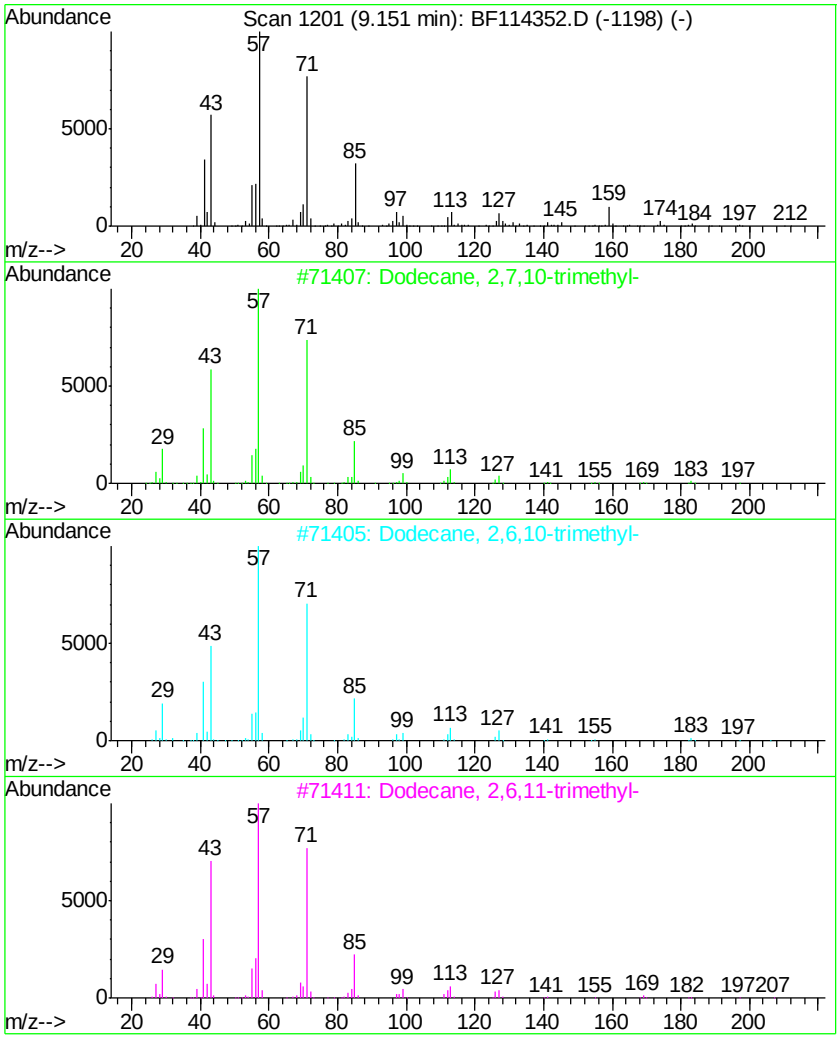
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

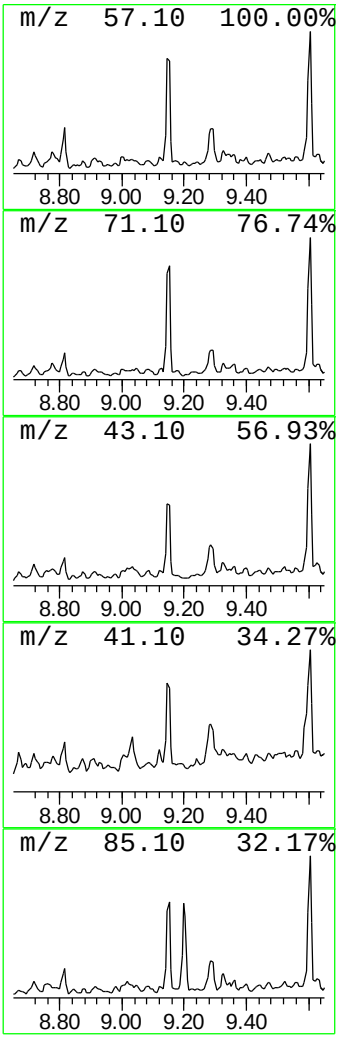
**********

Peak Number 6 Dodecane, 2,7,10-trimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.15 | 11.45 ng | 1466370 | Acenaphthene-d10 | 9.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 87 |
| 2 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 80 |
| 3 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 80 |
| 4 | Nonane, 3-methyl-5-propyl- | 184 | C13H28 | 031081-18-2 | 72 |
| 5 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 72 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

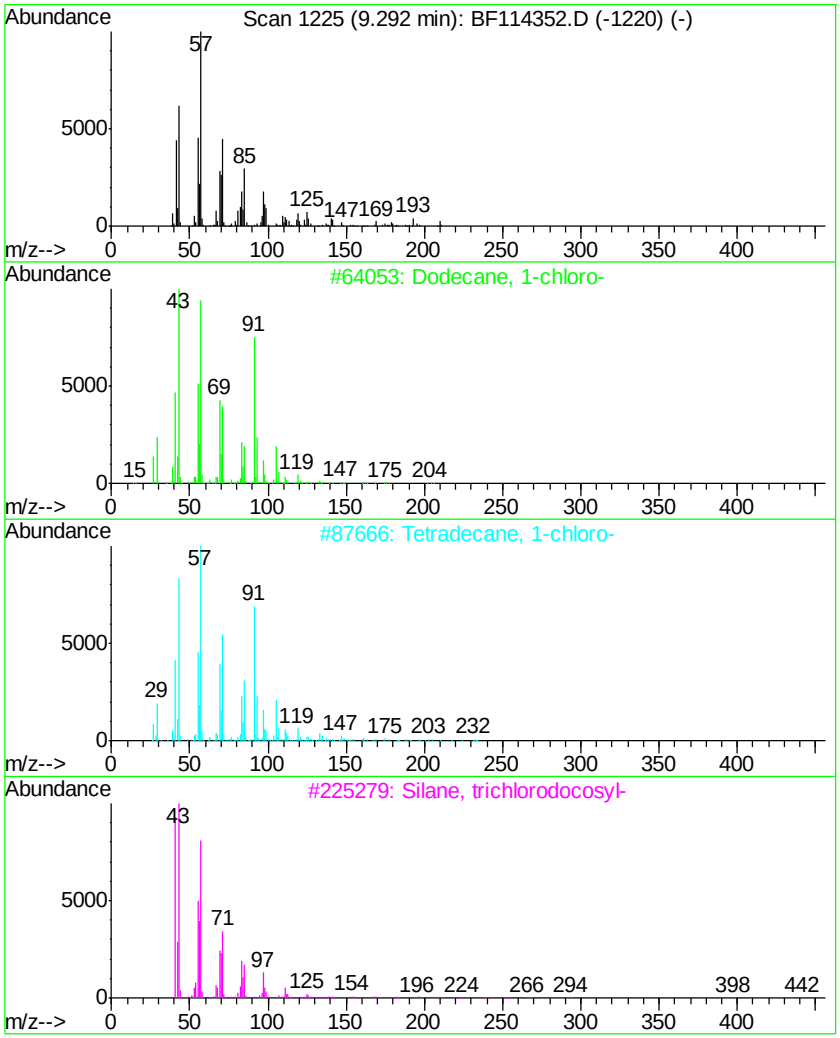
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

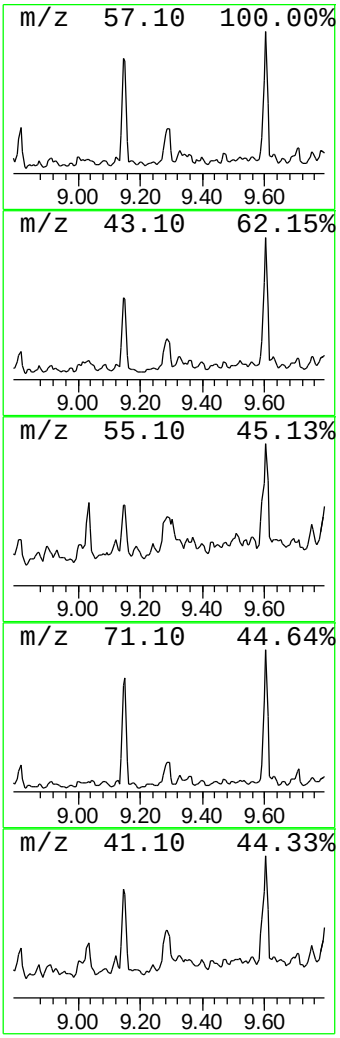
**********

Peak Number 7 Dodecane, 1-chloro- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.29 | 8.73 ng | 1117370 | Acenaphthene-d10 | 9.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 1-chloro- | 204 | C12H25Cl | 000112-52-7 | 74 |
| 2 | Tetradecane, 1-chloro- | 232 | C14H29Cl | 002425-54-9 | 64 |
| 3 | Silane, trichlorodocosyl- | 442 | C22H45Cl3Si | 007325-84-0 | 58 |
| 4 | Hexadecane, 1-bromo- | 304 | C16H33Br | 000112-82-3 | 58 |
| 5 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 52 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

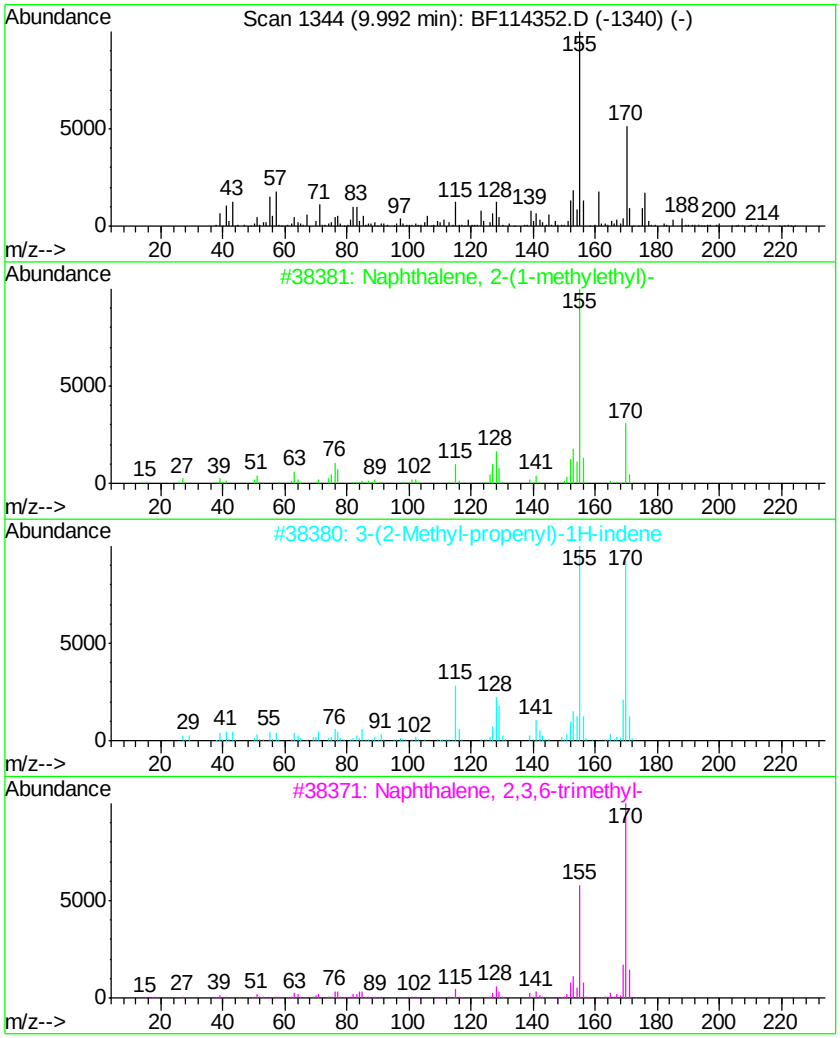
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

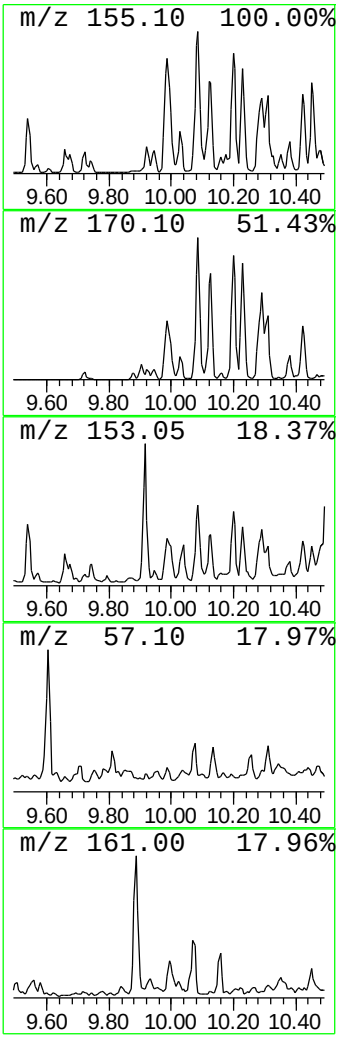
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Naphthalene, 2-(1-methyleth... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.99 | 6.20 ng | 793791 | Acenaphthene-d10 | 9.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 95 |
| 2 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 74 |
| 3 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 70 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 70 |
| 5 | Ethanone, 1-(5-chloro-2-hydroxyp... | 170 | C8H7ClO2 | 001450-74-4 | 64 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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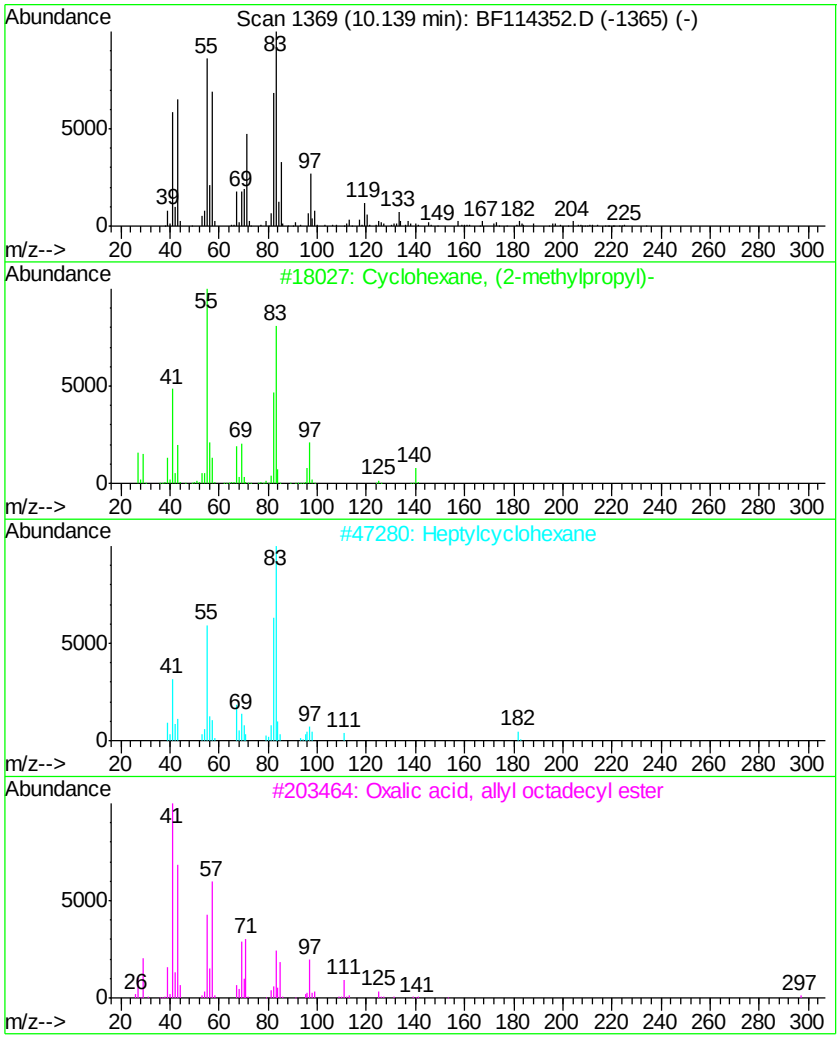
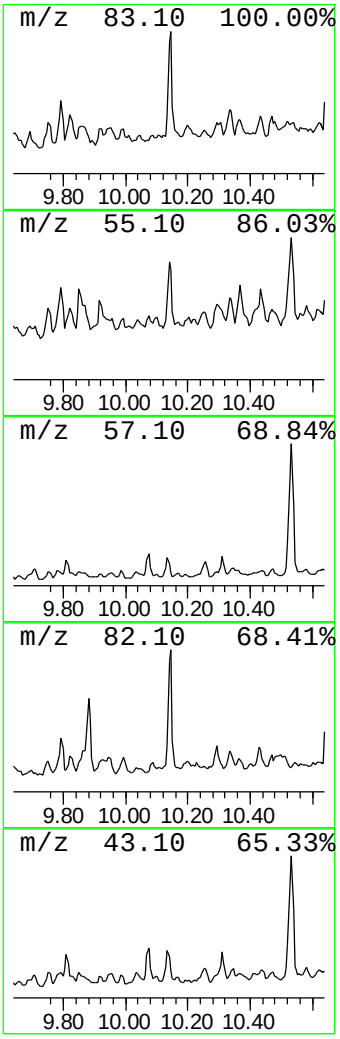
Peak Number 10 Cyclohexane, (2-methylpropyl)- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.14 | 11.25 ng | 1440210 | Acenaphthene-d10 | 9.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 62 |
| 2 | Heptylcyclohexane | 182 | C13H26 | 005617-41-4 | 49 |
| 3 | Oxalic acid, allyl octadecyl ester | 382 | C23H42O4 | 1000309-24-5 | 47 |
| 4 | Propanoic acid, 2,2-dimethyl-, c... | 184 | C11H20O2 | 029878-49-7 | 43 |
| 5 | Oxalic acid, dicyclohexyl ester | 254 | C14H22O4 | 1000309-30-9 | 35 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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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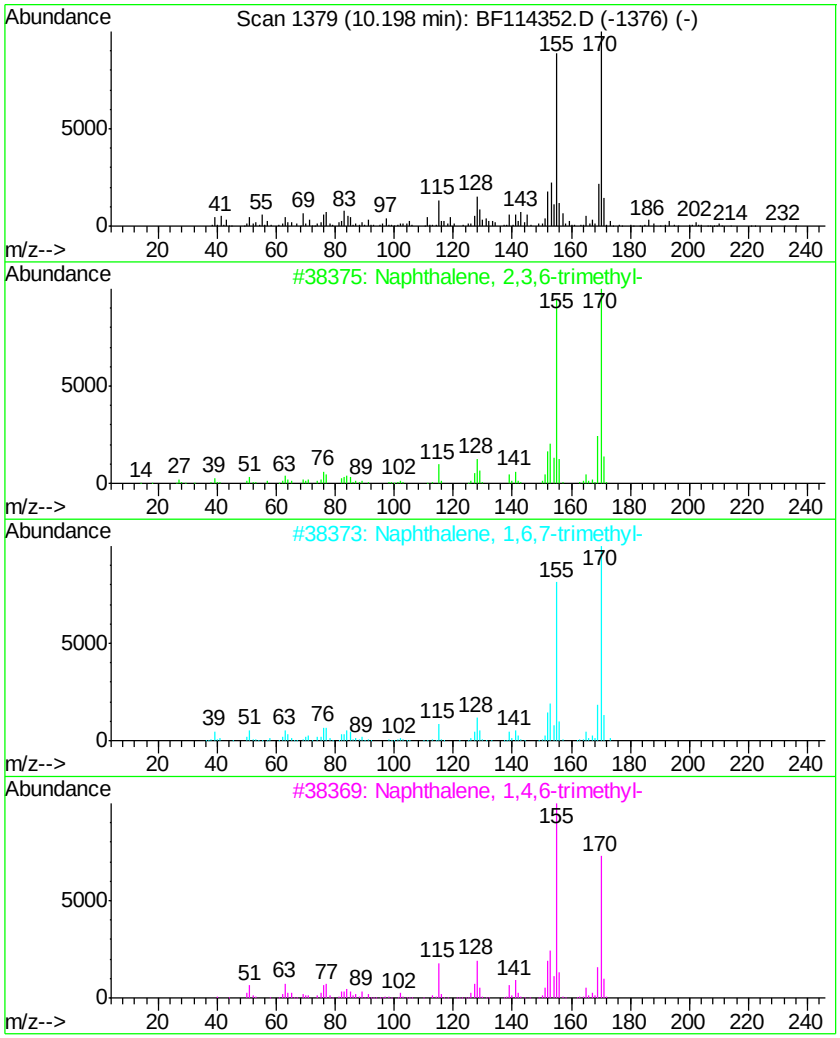
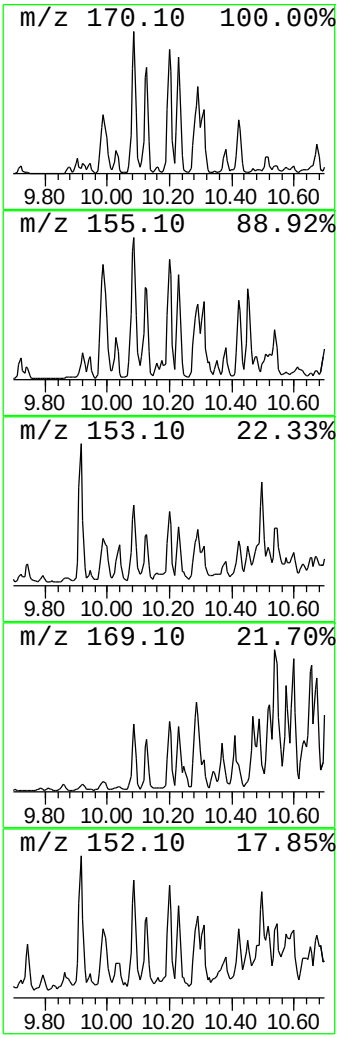
Peak Number 11 Naphthalene, 2,3,6-trimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.20 | 7.29 ng | 934045 | Acenaphthene-d10 | 9.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 98 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 98 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 97 |
| 4 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 94 |
| 5 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 93 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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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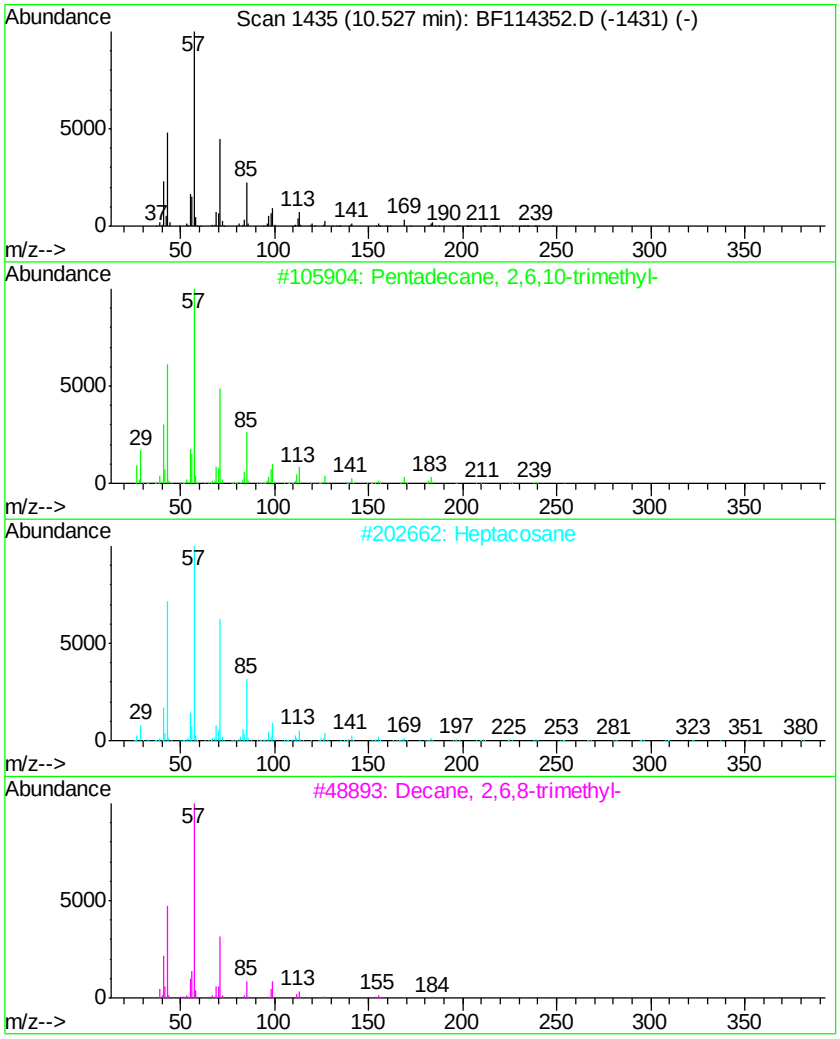
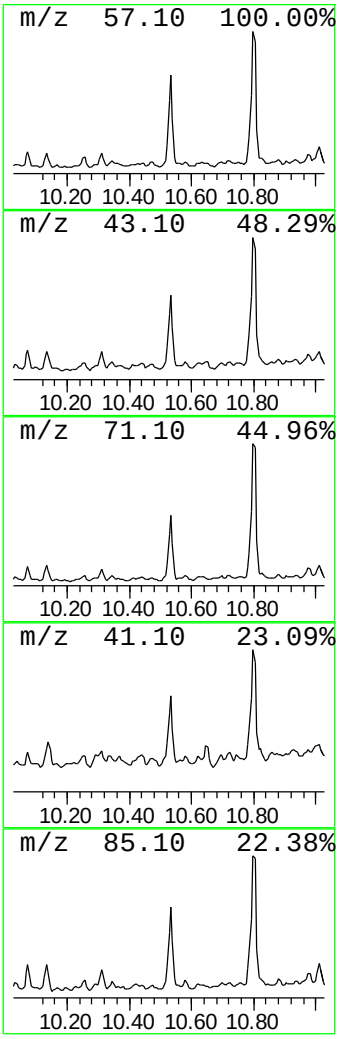
Peak Number 13 Pentadecane, 2,6,10-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.53 | 19.26 ng | 2466440 | Acenaphthene-d10 | 9.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 90 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 86 |
| 3 | Decane, 2,6,8-trimethyl- | 184 | C13H28 | 062108-26-3 | 76 |
| 4 | Undecane, 2,5-dimethyl- | 184 | C13H28 | 017301-22-3 | 76 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 72 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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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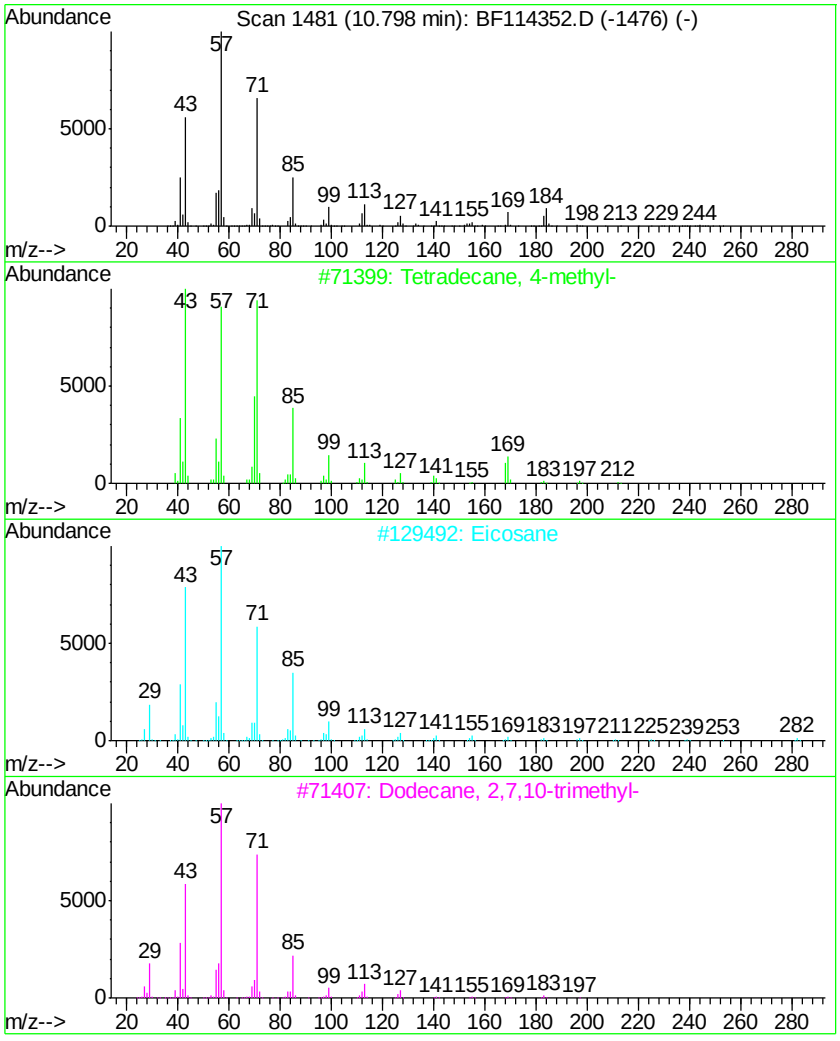
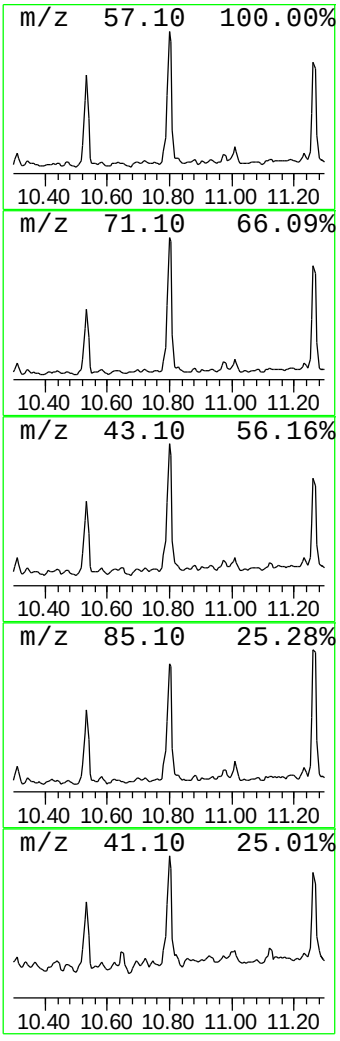
Peak Number 14 Tetradecane, 4-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 45.31 ng | 4540860 | Phenanthrene-d10 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 4-methyl- | 212 | C15H32 | 025117-24-2 | 72 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 72 |
| 3 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 58 |
| 4 | Sulfurous acid, decyl 2-ethylhex... | 334 | C18H38O3S | 1000309-19-3 | 58 |
| 5 | Tridecane, 3-methyl- | 198 | C14H30 | 006418-41-3 | 58 |



# Library Search Compound Report

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Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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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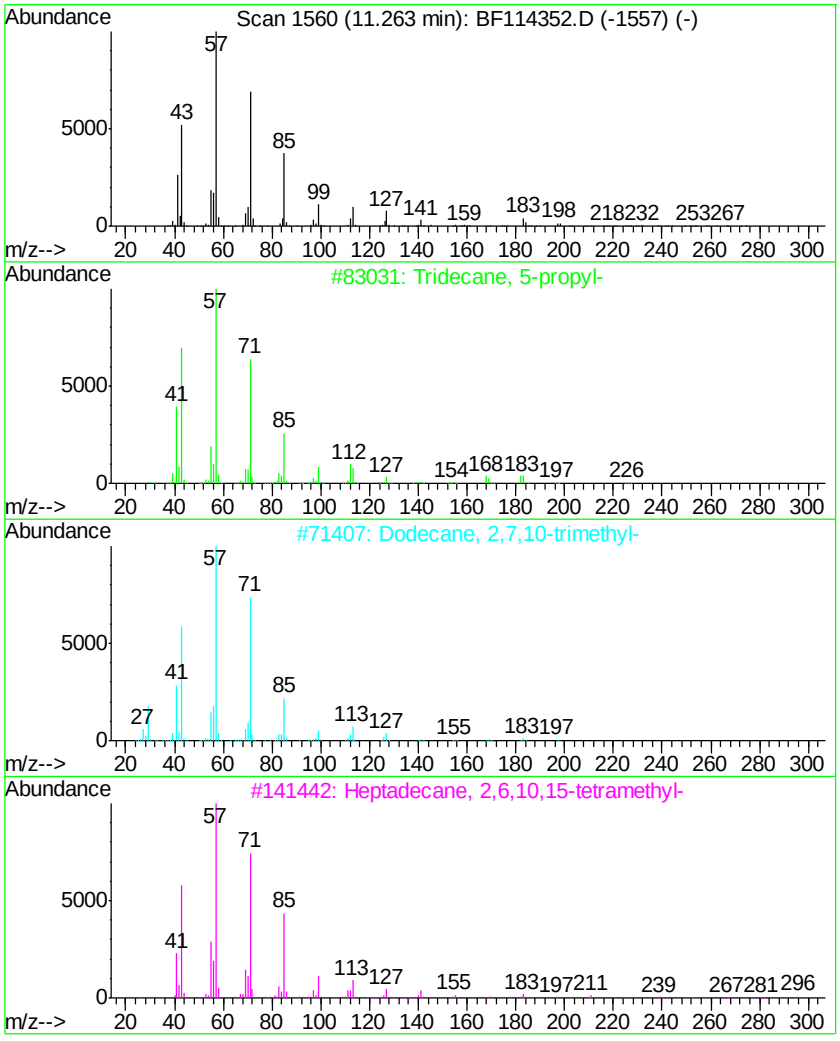
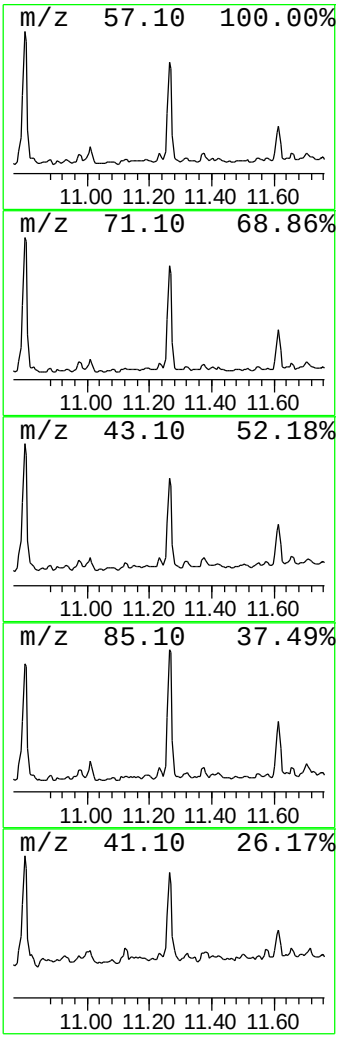
Peak Number 15 Tridecane, 5-propyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.26 | 35.11 ng | 3518870 | Phenanthrene-d10 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 87 |
| 2 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 86 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 86 |
| 4 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 78 |
| 5 | Tritetracontane | 605 | C43H88 | 007098-21-7 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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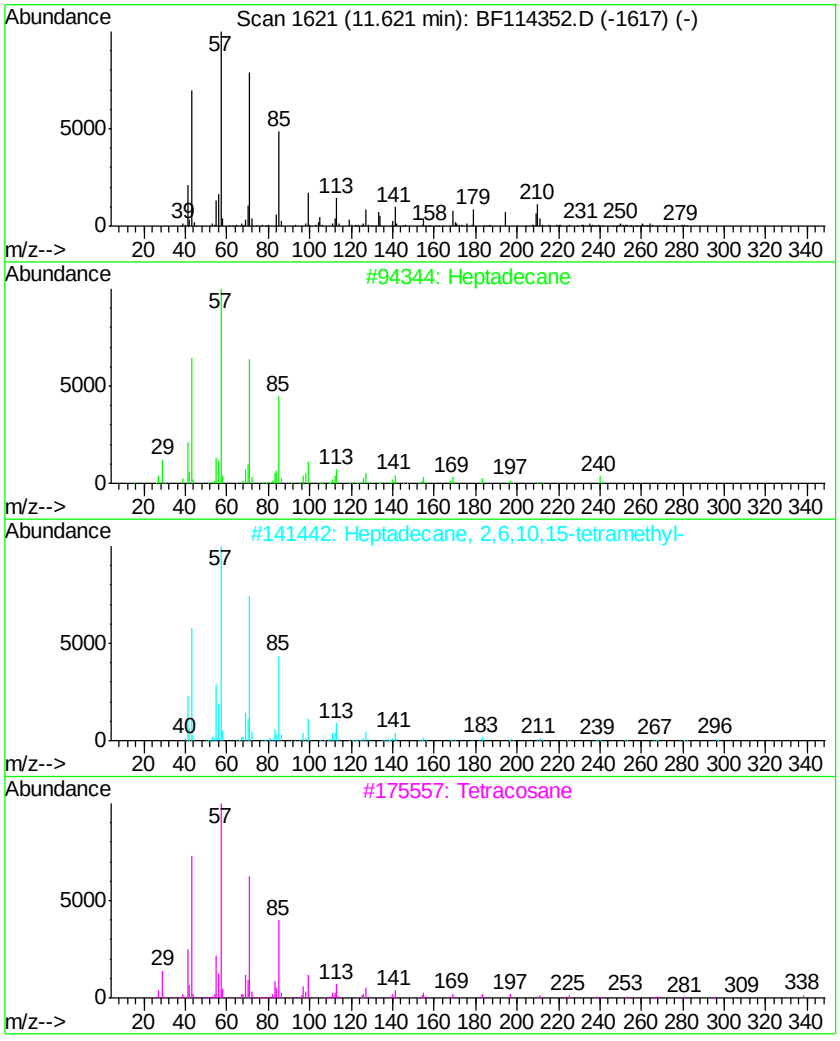
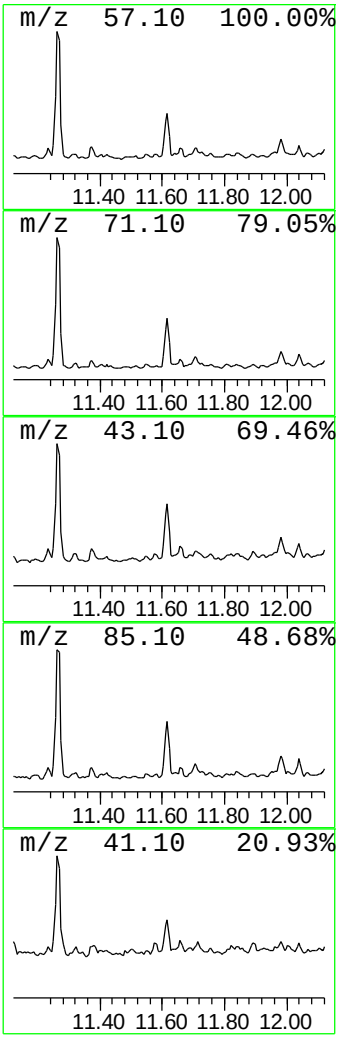
Peak Number 16 Heptadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.62 | 11.36 ng | 1139040 | Phenanthrene-d10 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 86 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 86 |
| 4 | Heptadecane, 4-methyl- | 254 | C18H38 | 026429-11-8 | 83 |
| 5 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 80 |



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Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

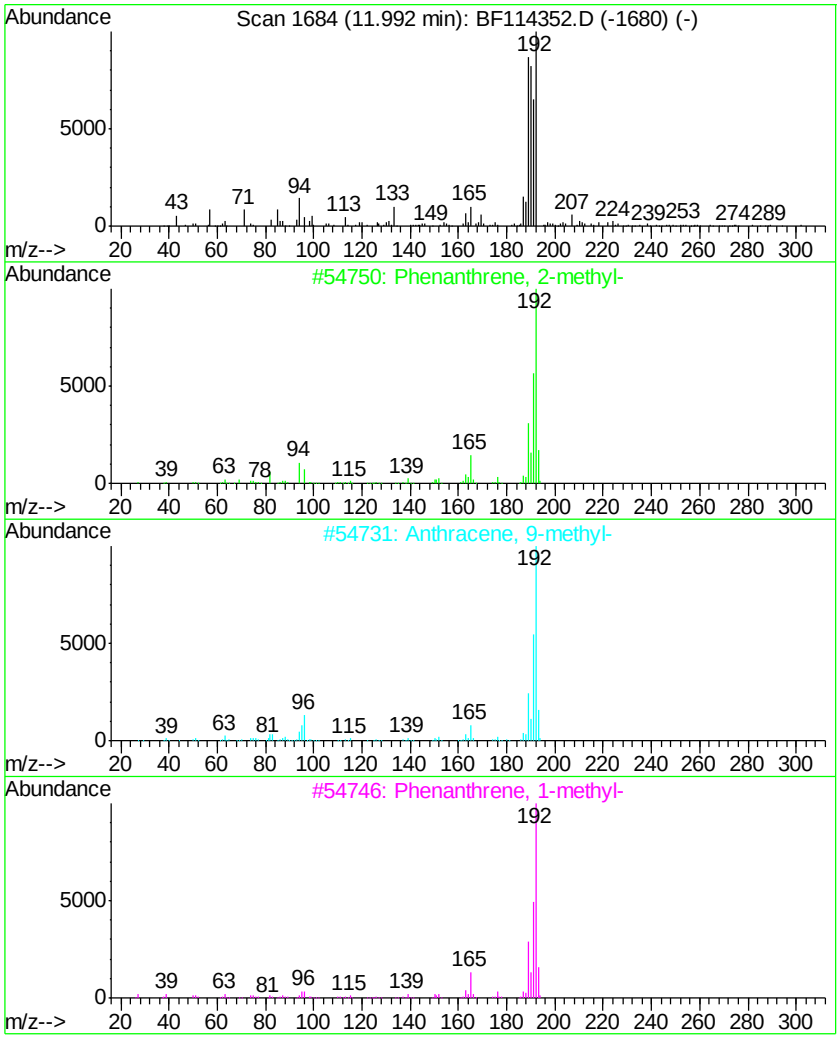
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

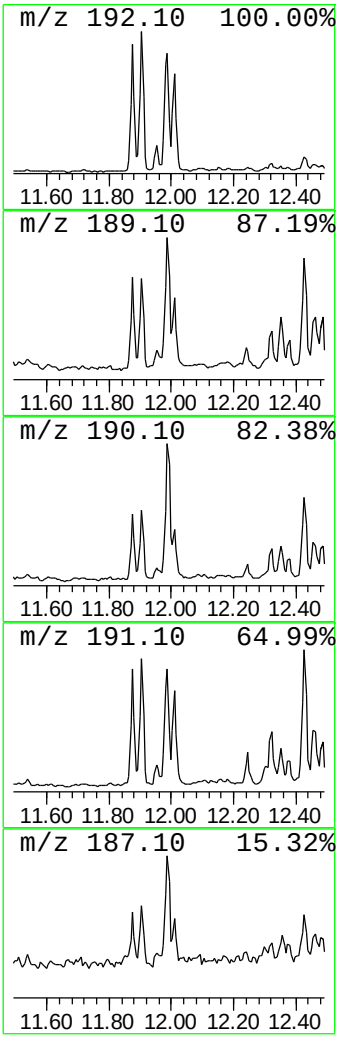
**********

Peak Number 17 Phenanthrene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.99 | 8.51 ng | 852823 | Phenanthrene-d10 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 64 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 64 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 64 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 64 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

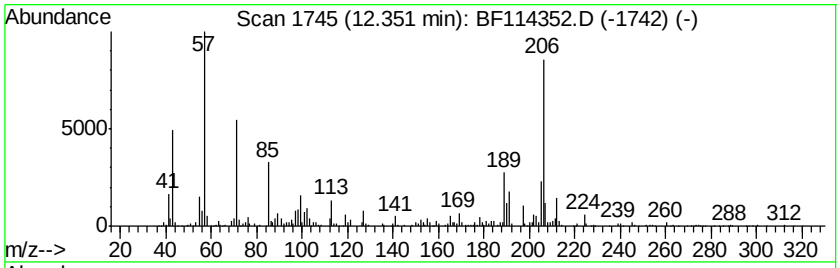
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

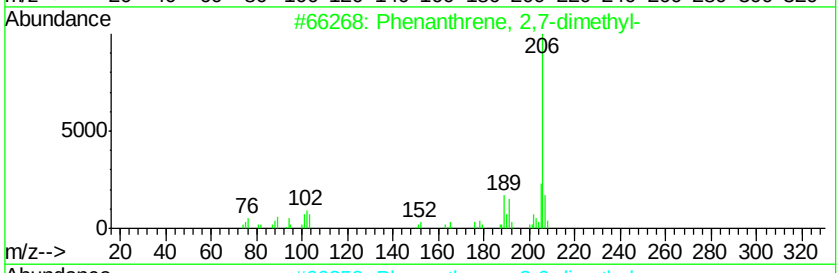
**********

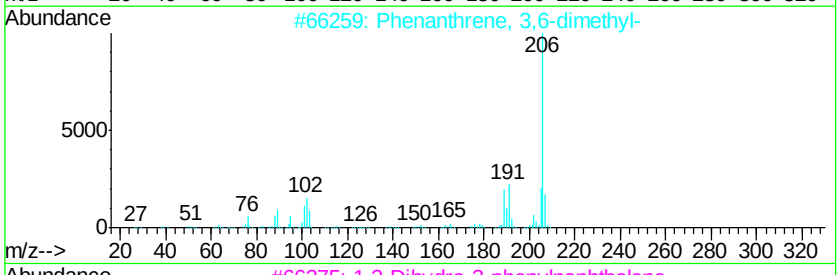
Peak Number 18 Phenanthrene, 2,7-dimethyl- Concentration Rank 7

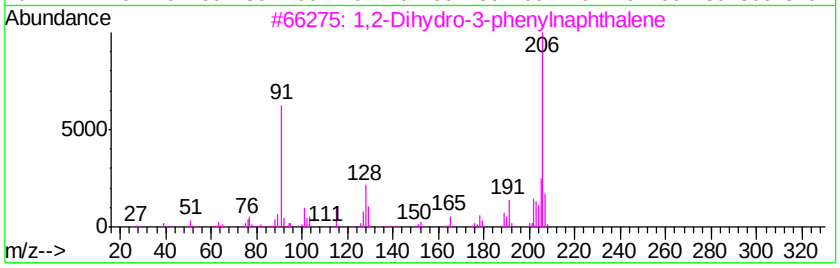
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 11.77 ng | 1180000 | Phenanthrene-d10 | 11.37 |

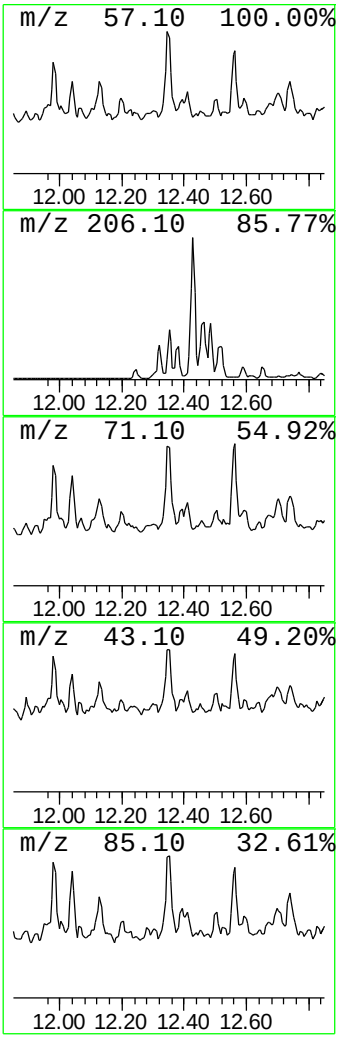
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 64 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 64 |
| 3 | 1,2-Dihydro-3-phenylnaphthalene | 206 | C16H14 | 020669-52-7 | 55 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 50 |
| 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 46 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

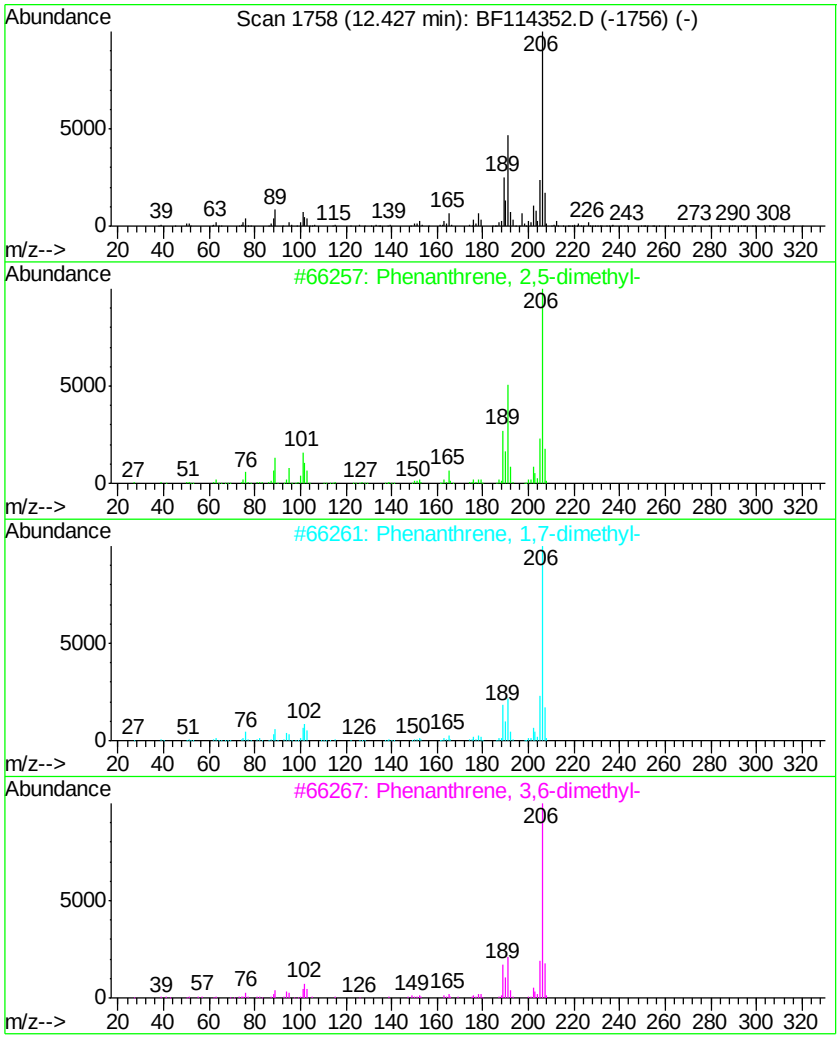
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

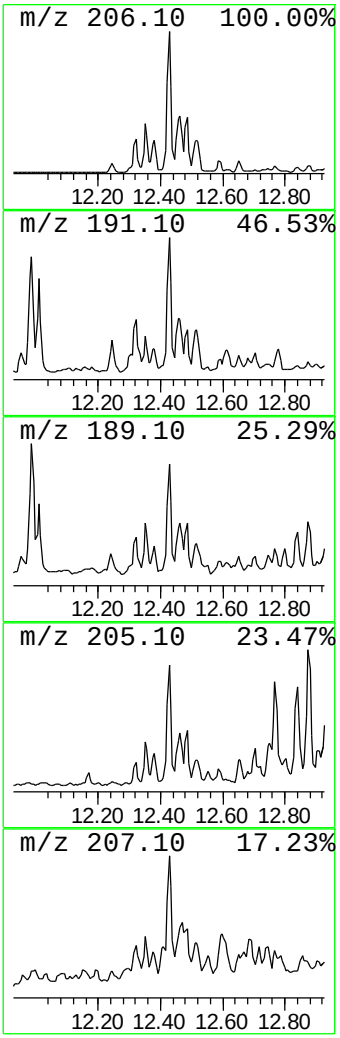
**********

Peak Number 19 Phenanthrene, 2,5-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.43 | 7.40 ng | 741758 | Phenanthrene-d10 | 11.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 5 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

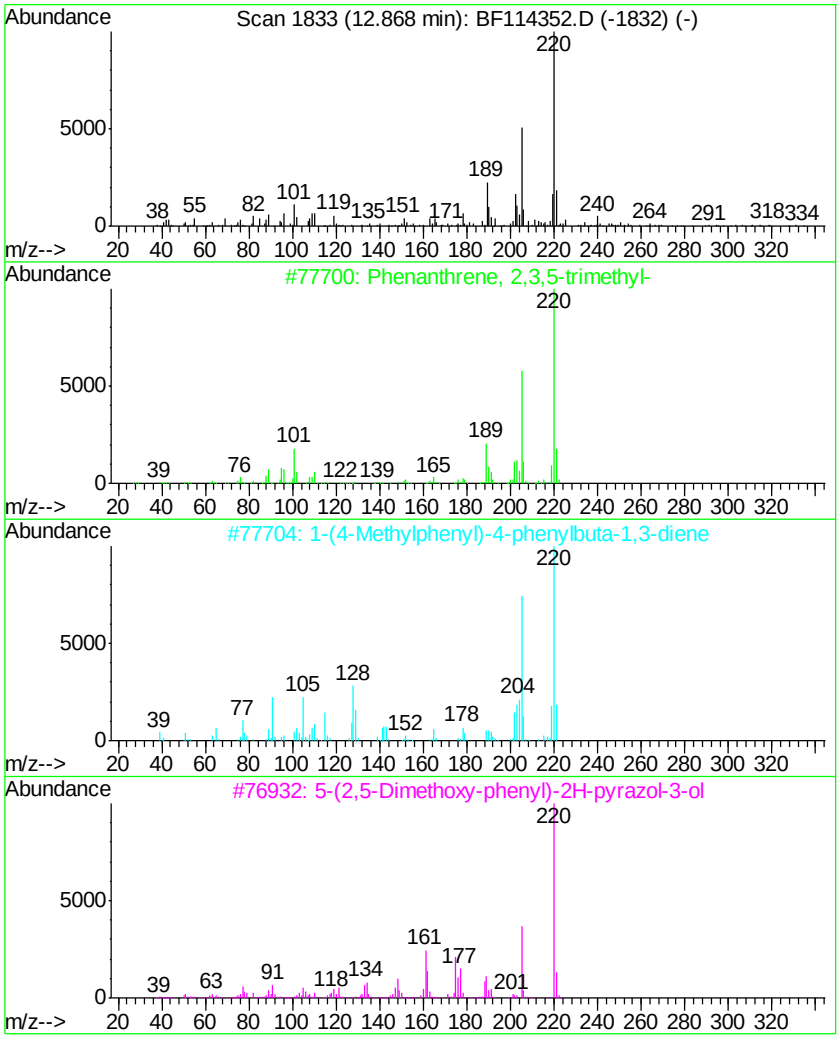
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

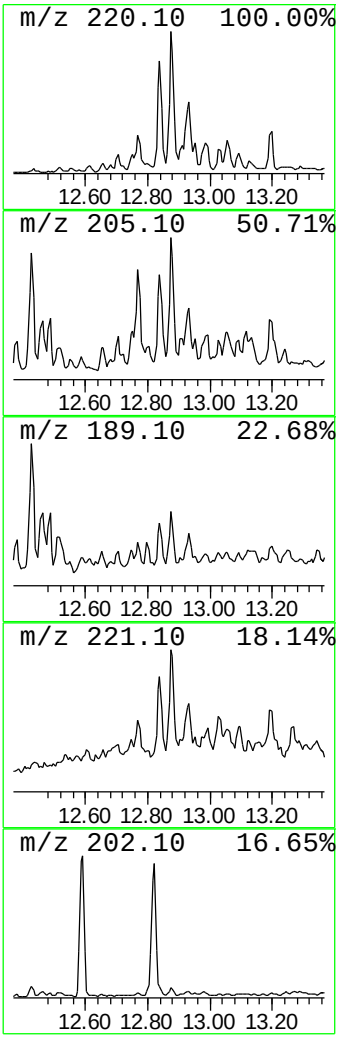
**********

Peak Number 20 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.87 | 12.15 ng | 636175 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,3,5-trimethyl- | 220 | C17H16 | 003674-73-5 | 93 |
| 2 | 1-(4-Methylphenyl)-4-phenylbuta-... | 220 | C17H16 | 037985-11-8 | 72 |
| 3 | 5-(2,5-Dimethoxy-phenyl)-2H-pyra... | 220 | C11H12N2O3 | 1000278-26-9 | 64 |
| 4 | 1-(Hydroxy-phenyl-methyl)-2-meth... | 408 | C27H36O3 | 108546-86-7 | 59 |
| 5 | Phenmethylcynide, .alpha.,.alpha... | 220 | C11H12N2O3 | 1000128-94-6 | 59 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114352.D
Acq On : 17 May 2019 16:20
Operator : JU/SJ
Sample : K2871-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-04(25.0-27)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown6.62 | 6.62 | 55.8 | ng | 4162530 | 1 | 6.85 | 1492930 | 20.0 |
| Undecane, 2,6-dim... | 8.19 | 9.3 | ng | 946503 | 2 | 8.13 | 2036080 | 20.0 |
| unknown8.42 | 8.42 | 11.4 | ng | 1159320 | 2 | 8.13 | 2036080 | 20.0 |
| Nonane, 2,6-dimet... | 8.55 | 11.0 | ng | 1121340 | 2 | 8.13 | 2036080 | 20.0 |
| Dodecane, 2,7,10-... | 9.15 | 11.4 | ng | 1466370 | 3 | 9.88 | 2561040 | 20.0 |
| Dodecane, 1-chloro- | 9.29 | 8.7 | ng | 1117370 | 3 | 9.88 | 2561040 | 20.0 |
| Naphthalene, 2-(1... | 9.99 | 6.2 | ng | 793791 | 3 | 9.88 | 2561040 | 20.0 |
| Cyclohexane, (2-m... | 10.14 | 11.3 | ng | 1440210 | 3 | 9.88 | 2561040 | 20.0 |
| Naphthalene, 2,3,... | 10.20 | 7.3 | ng | 934045 | 3 | 9.88 | 2561040 | 20.0 |
| Pentadecane, 2,6,... | 10.53 | 19.3 | ng | 2466440 | 3 | 9.88 | 2561040 | 20.0 |
| Tetradecane, 4-me... | 10.80 | 45.3 | ng | 4540860 | 4 | 11.37 | 2004510 | 20.0 |
| Tridecane, 5-propyl- | 11.26 | 35.1 | ng | 3518870 | 4 | 11.37 | 2004510 | 20.0 |
| Heptadecane | 11.62 | 11.4 | ng | 1139040 | 4 | 11.37 | 2004510 | 20.0 |
| Phenanthrene, 2-m... | 11.99 | 8.5 | ng | 852823 | 4 | 11.37 | 2004510 | 20.0 |
| Phenanthrene, 2,7... | 12.35 | 11.8 | ng | 1180000 | 4 | 11.37 | 2004510 | 20.0 |
| Phenanthrene, 2,5... | 12.43 | 7.4 | ng | 741758 | 4 | 11.37 | 2004510 | 20.0 |
| Phenanthrene, 2,3... | 12.87 | 12.2 | ng | 636175 | 5 | 14.03 | 1047570 | 20.0 |