LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\Methods\SOM02.2-EPA-BM102016.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.269 | 791 | 796 | 808 | rVB2 | 104401 | 241457 | 3.95% | 0.179% |
| 2 | 7.728 | 869 | 874 | 880 | rVB | 587441 | 941786 | 15.39% | 0.699% |
| 3 | 8.816 | 1055 | 1059 | 1066 | rVV2 | 199118 | 364449 | 5.96% | 0.270% |
| 4 | 8.892 | 1066 | 1072 | 1082 | rVV4 | 254905 | 549277 | 8.98% | 0.408% |
| 5 | 9.151 | 1106 | 1116 | 1125 | rBV7 | 110282 | 349016 | 5.70% | 0.259% |
| 6 | 9.339 | 1143 | 1148 | 1156 | rBV3 | 131555 | 239664 | 3.92% | 0.178% |
| 7 | 9.598 | 1184 | 1192 | 1194 | rBV5 | 99641 | 229203 | 3.75% | 0.170% |
| 8 | 9.680 | 1201 | 1206 | 1214 | rBV5 | 91555 | 241281 | 3.94% | 0.179% |
| 9 | 9.751 | 1214 | 1218 | 1228 | rVB4 | 190195 | 486158 | 7.94% | 0.361% |
| 10 | 9.904 | 1238 | 1244 | 1253 | rBV4 | 447698 | 1022036 | 16.70% | 0.759% |
| 11 | 10.086 | 1269 | 1275 | 1280 | rBV4 | 117132 | 203409 | 3.32% | 0.151% |
| 12 | 10.410 | 1314 | 1330 | 1334 | rBV8 | 175182 | 776812 | 12.69% | 0.577% |
| 13 | 10.504 | 1334 | 1346 | 1350 | rVV2 | 823287 | 2158747 | 35.27% | 1.602% |
| 14 | 10.551 | 1350 | 1354 | 1360 | rVV | 1175470 | 2048092 | 33.47% | 1.520% |
| 15 | 10.616 | 1360 | 1365 | 1368 | rVV2 | 314015 | 524741 | 8.57% | 0.389% |
| 16 | 10.651 | 1368 | 1371 | 1378 | rVV | 283843 | 412033 | 6.73% | 0.306% |
| 17 | 10.780 | 1389 | 1393 | 1400 | rVB8 | 94324 | 204873 | 3.35% | 0.152% |
| 18 | 10.980 | 1422 | 1427 | 1432 | rVB5 | 154012 | 253953 | 4.15% | 0.188% |
| 19 | 11.110 | 1445 | 1449 | 1453 | rBV2 | 115531 | 222025 | 3.63% | 0.165% |
| 20 | 11.157 | 1453 | 1457 | 1459 | rBV2 | 151279 | 213091 | 3.48% | 0.158% |
| 21 | 11.257 | 1471 | 1474 | 1481 | rVB5 | 103954 | 219862 | 3.59% | 0.163% |
| 22 | 11.327 | 1481 | 1486 | 1493 | rBV5 | 135167 | 257388 | 4.21% | 0.191% |
| 23 | 11.410 | 1494 | 1500 | 1506 | rVB4 | 230932 | 476558 | 7.79% | 0.354% |
| 24 | 11.516 | 1512 | 1518 | 1523 | rBV | 339321 | 650791 | 10.63% | 0.483% |
| 25 | 11.604 | 1528 | 1533 | 1539 | rVB3 | 264501 | 508350 | 8.31% | 0.377% |
| 26 | 11.780 | 1559 | 1563 | 1568 | rVB4 | 120538 | 206219 | 3.37% | 0.153% |
| 27 | 11.886 | 1577 | 1581 | 1588 | rBV3 | 147932 | 320584 | 5.24% | 0.238% |
| 28 | 12.168 | 1619 | 1629 | 1636 | rVB | 3528991 | 6119862 | 100.00% | 4.542% |
| 29 | 12.386 | 1658 | 1666 | 1675 | rBV | 2158058 | 3959823 | 64.70% | 2.939% |
| 30 | 12.474 | 1676 | 1681 | 1690 | rVB2 | 231609 | 484258 | 7.91% | 0.359% |
| 31 | 12.698 | 1716 | 1719 | 1724 | rVB3 | 206062 | 302621 | 4.94% | 0.225% |
| 32 | 12.780 | 1729 | 1733 | 1738 | rVV7 | 178087 | 301245 | 4.92% | 0.224% |
| 33 | 12.880 | 1738 | 1750 | 1756 | rVV3 | 679547 | 1394310 | 22.78% | 1.035% |
| 34 | 12.945 | 1757 | 1761 | 1768 | rVB8 | 129090 | 250374 | 4.09% | 0.186% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\Methods\SOM02.2-EPA-BM102016.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.151 | 1792 | 1796 | 1800 | rVB4 | 239930 | 349504 | 5.71% | 0.259% |
| 36 | 13.386 | 1830 | 1836 | 1849 | rVB | 1475176 | 3292541 | 53.80% | 2.444% |
| 37 | 13.533 | 1853 | 1861 | 1868 | rVV | 1626966 | 4126542 | 67.43% | 3.063% |
| 38 | 13.598 | 1868 | 1872 | 1875 | rBV4 | 163235 | 249537 | 4.08% | 0.185% |
| 39 | 13.674 | 1880 | 1885 | 1890 | rVV | 2371224 | 4372178 | 71.44% | 3.245% |
| 40 | 13.733 | 1890 | 1895 | 1899 | rVV | 2299357 | 3581775 | 58.53% | 2.658% |
| 41 | 13.768 | 1899 | 1901 | 1906 | rVV2 | 595443 | 783735 | 12.81% | 0.582% |
| 42 | 13.833 | 1908 | 1912 | 1917 | rVV3 | 557697 | 807452 | 13.19% | 0.599% |
| 43 | 13.915 | 1921 | 1926 | 1929 | rVV | 1012820 | 1602140 | 26.18% | 1.189% |
| 44 | 13.951 | 1929 | 1932 | 1936 | rVB | 539696 | 735588 | 12.02% | 0.546% |
| 45 | 14.051 | 1944 | 1949 | 1951 | rBV2 | 614292 | 891632 | 14.57% | 0.662% |
| 46 | 14.080 | 1951 | 1954 | 1963 | rVB | 796113 | 1255696 | 20.52% | 0.932% |
| 47 | 14.357 | 1991 | 2001 | 2006 | rBV2 | 1410032 | 3306975 | 54.04% | 2.454% |
| 48 | 14.410 | 2007 | 2010 | 2013 | rVV2 | 497493 | 806191 | 13.17% | 0.598% |
| 49 | 14.445 | 2014 | 2016 | 2020 | rVV2 | 560478 | 754447 | 12.33% | 0.560% |
| 50 | 14.486 | 2021 | 2023 | 2030 | rVB2 | 251896 | 407939 | 6.67% | 0.303% |
| 51 | 14.568 | 2031 | 2037 | 2046 | rBV | 1396396 | 3858990 | 63.06% | 2.864% |
| 52 | 14.651 | 2047 | 2051 | 2058 | rVB3 | 470976 | 810578 | 13.25% | 0.602% |
| 53 | 14.757 | 2059 | 2069 | 2077 | rBV3 | 1449772 | 3389067 | 55.38% | 2.515% |
| 54 | 14.833 | 2077 | 2082 | 2087 | rBV | 1080638 | 1545181 | 25.25% | 1.147% |
| 55 | 14.892 | 2087 | 2092 | 2098 | rVB7 | 376729 | 814146 | 13.30% | 0.604% |
| 56 | 14.980 | 2102 | 2107 | 2112 | rBV | 1018058 | 1742280 | 28.47% | 1.293% |
| 57 | 15.033 | 2112 | 2116 | 2120 | rVB | 826554 | 1011156 | 16.52% | 0.750% |
| 58 | 15.074 | 2120 | 2123 | 2127 | rVB5 | 181172 | 237299 | 3.88% | 0.176% |
| 59 | 15.145 | 2129 | 2135 | 2139 | rBV3 | 1006649 | 2378975 | 38.87% | 1.766% |
| 60 | 15.186 | 2139 | 2142 | 2147 | rVB2 | 809748 | 1164454 | 19.03% | 0.864% |
| 61 | 15.309 | 2158 | 2163 | 2169 | rBV5 | 366008 | 1022202 | 16.70% | 0.759% |
| 62 | 15.404 | 2174 | 2179 | 2183 | rBV3 | 1201588 | 1895696 | 30.98% | 1.407% |
| 63 | 15.457 | 2183 | 2188 | 2192 | rBV3 | 674501 | 1211264 | 19.79% | 0.899% |
| 64 | 15.568 | 2204 | 2207 | 2212 | rVB4 | 576476 | 842293 | 13.76% | 0.625% |
| 65 | 15.621 | 2212 | 2216 | 2223 | rVB2 | 904205 | 1408106 | 23.01% | 1.045% |
| 66 | 15.704 | 2224 | 2230 | 2232 | rBV4 | 410719 | 831959 | 13.59% | 0.617% |
| 67 | 15.780 | 2240 | 2243 | 2246 | rBV4 | 261946 | 442410 | 7.23% | 0.328% |
| 68 | 15.821 | 2247 | 2250 | 2253 | rVB2 | 363671 | 452317 | 7.39% | 0.336% |
| 69 | 15.921 | 2263 | 2267 | 2270 | rBV2 | 496182 | 784755 | 12.82% | 0.582% |
| 70 | 16.009 | 2278 | 2282 | 2285 | rBV3 | 281352 | 488473 | 7.98% | 0.363% |
| 71 | 16.092 | 2291 | 2296 | 2301 | rVB3 | 1353854 | 2183115 | 35.67% | 1.620% |

LSC Area Percent Report

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Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\Methods\SOM02.2-EPA-BM102016.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.221 | 2314 | 2318 | 2322 | rBV3 | 468778 | 758223 | 12.39% | 0.563% |
| 73 | 16.409 | 2344 | 2350 | 2355 | rBV4 | 600471 | 1361235 | 22.24% | 1.010% |
| 74 | 16.468 | 2356 | 2360 | 2370 | rVV4 | 953810 | 2090589 | 34.16% | 1.552% |
| 75 | 16.615 | 2382 | 2385 | 2388 | rBV2 | 464805 | 674764 | 11.03% | 0.501% |
| 76 | 16.915 | 2432 | 2436 | 2446 | rVB4 | 1070043 | 2648378 | 43.28% | 1.966% |
| 77 | 17.109 | 2465 | 2469 | 2472 | rBV | 1398442 | 1926489 | 31.48% | 1.430% |
| 78 | 17.151 | 2472 | 2476 | 2482 | rVV | 2392803 | 3516704 | 57.46% | 2.610% |
| 79 | 17.209 | 2483 | 2486 | 2489 | rVB2 | 505186 | 668833 | 10.93% | 0.496% |
| 80 | 17.521 | 2535 | 2539 | 2543 | rBV3 | 614051 | 1050434 | 17.16% | 0.780% |
| 81 | 17.986 | 2614 | 2618 | 2622 | rBV | 1714621 | 2709824 | 44.28% | 2.011% |
| 82 | 18.033 | 2622 | 2626 | 2632 | rVB | 2186352 | 3533810 | 57.74% | 2.623% |
| 83 | 18.115 | 2636 | 2640 | 2644 | rBV3 | 848996 | 1470631 | 24.03% | 1.091% |
| 84 | 18.174 | 2646 | 2650 | 2654 | rVV3 | 1483632 | 2915848 | 47.65% | 2.164% |
| 85 | 18.215 | 2654 | 2657 | 2665 | rVB | 1384134 | 2109685 | 34.47% | 1.566% |
| 86 | 18.486 | 2700 | 2703 | 2710 | rBV2 | 438333 | 853514 | 13.95% | 0.633% |
| 87 | 18.703 | 2737 | 2740 | 2742 | rBV2 | 521709 | 626191 | 10.23% | 0.465% |
| 88 | 18.733 | 2743 | 2745 | 2751 | rVV2 | 725260 | 966573 | 15.79% | 0.717% |
| 89 | 18.786 | 2751 | 2754 | 2757 | rVB | 605070 | 654822 | 10.70% | 0.486% |
| 90 | 18.909 | 2770 | 2775 | 2779 | rBV | 1870373 | 3002577 | 49.06% | 2.228% |
| 91 | 18.997 | 2788 | 2790 | 2794 | rVB | 755426 | 853502 | 13.95% | 0.633% |
| 92 | 19.044 | 2795 | 2798 | 2803 | rBV | 572154 | 975954 | 15.95% | 0.724% |
| 93 | 19.168 | 2816 | 2819 | 2823 | rBV | 901570 | 1242119 | 20.30% | 0.922% |
| 94 | 19.539 | 2874 | 2882 | 2890 | rVB3 | 2231805 | 4781625 | 78.13% | 3.549% |
| 95 | 19.615 | 2891 | 2895 | 2900 | rVB | 997055 | 1547321 | 25.28% | 1.148% |
| 96 | 20.191 | 2990 | 2993 | 2998 | rVB | 1297910 | 1535281 | 25.09% | 1.139% |
| 97 | 20.333 | 3014 | 3017 | 3021 | rBV | 1311160 | 1674407 | 27.36% | 1.243% |
| 98 | 20.380 | 3022 | 3025 | 3029 | rVB | 1216762 | 1427216 | 23.32% | 1.059% |
| 99 | 21.297 | 3178 | 3181 | 3186 | rVB | 1494093 | 1940254 | 31.70% | 1.440% |
| 100 | 23.550 | 3560 | 3564 | 3571 | rVB | 1291873 | 2251839 | 36.80% | 1.671% |

Sum of corrected areas: 134741578

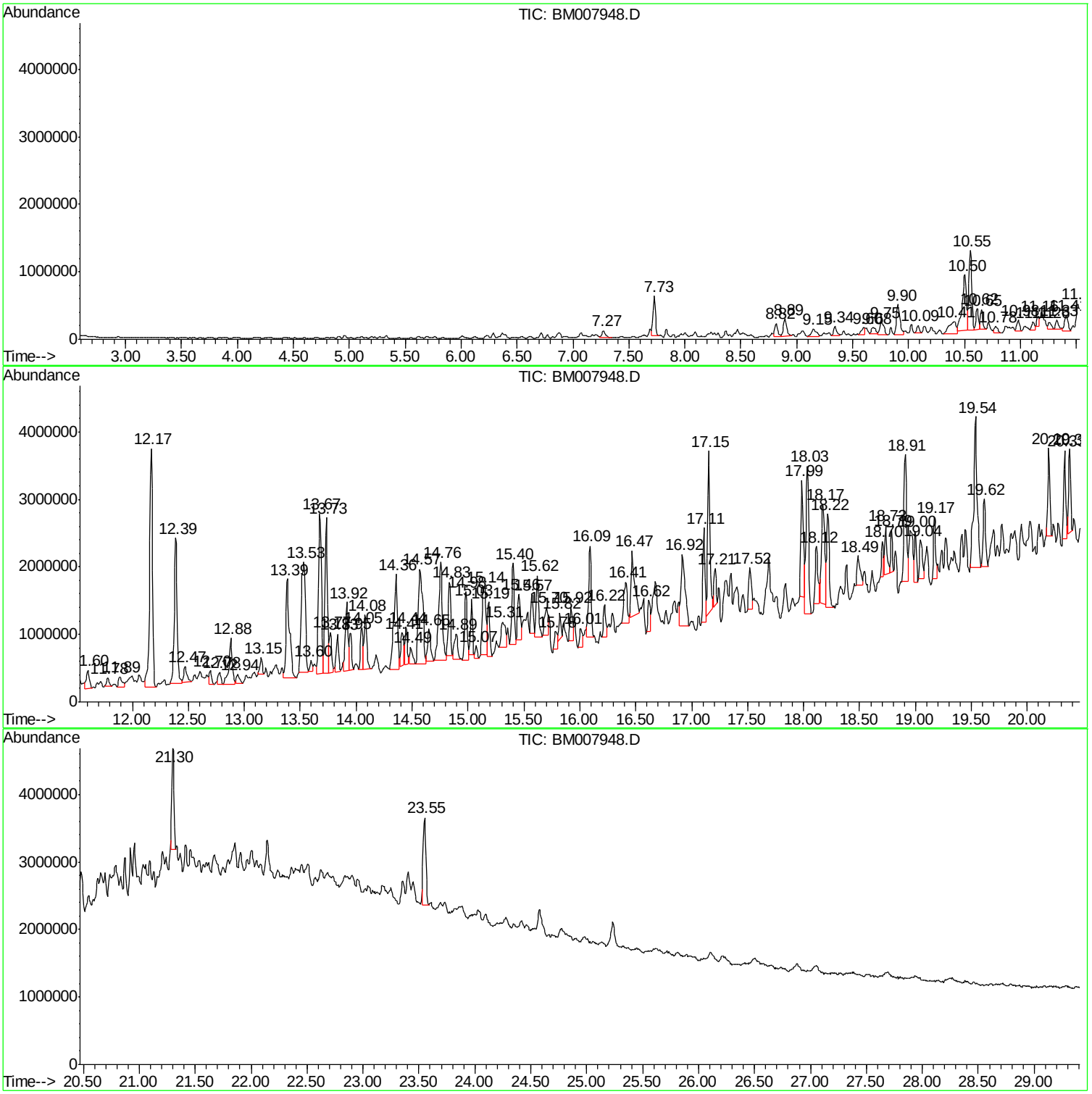
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

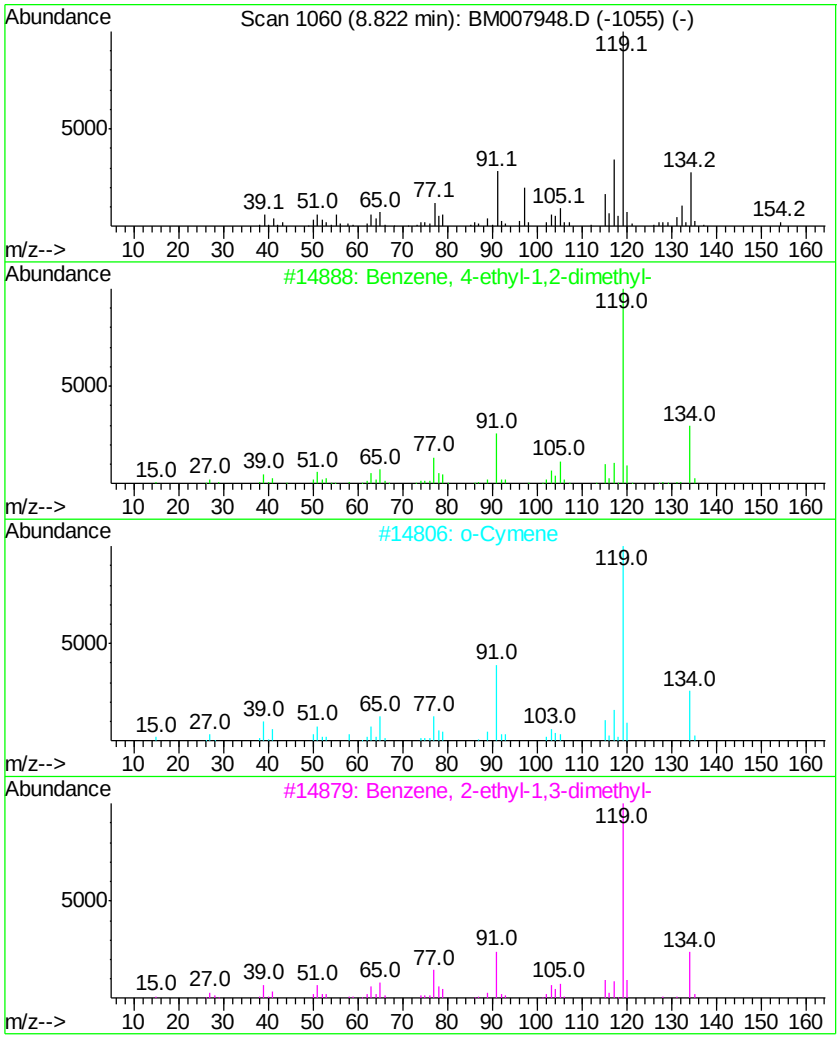
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

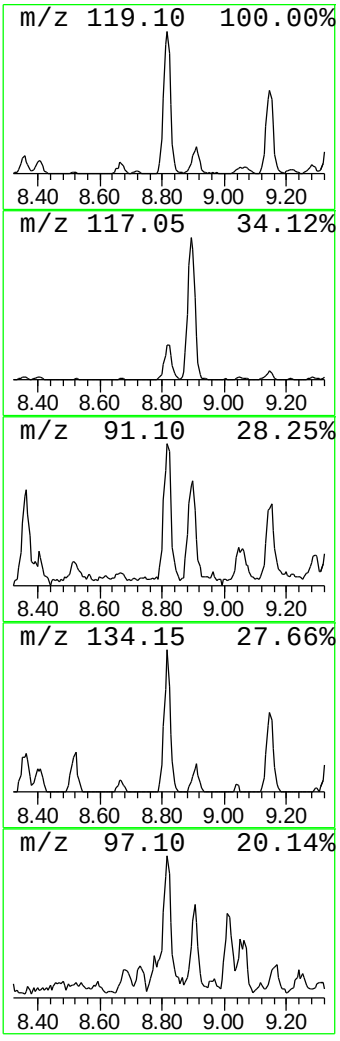
**********

Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.82 | 7.74 ng/ul | 364449 | 1,4-Dichlorobenzene-d4 | 7.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 92 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 76 |
| 3 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 76 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 76 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 70 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

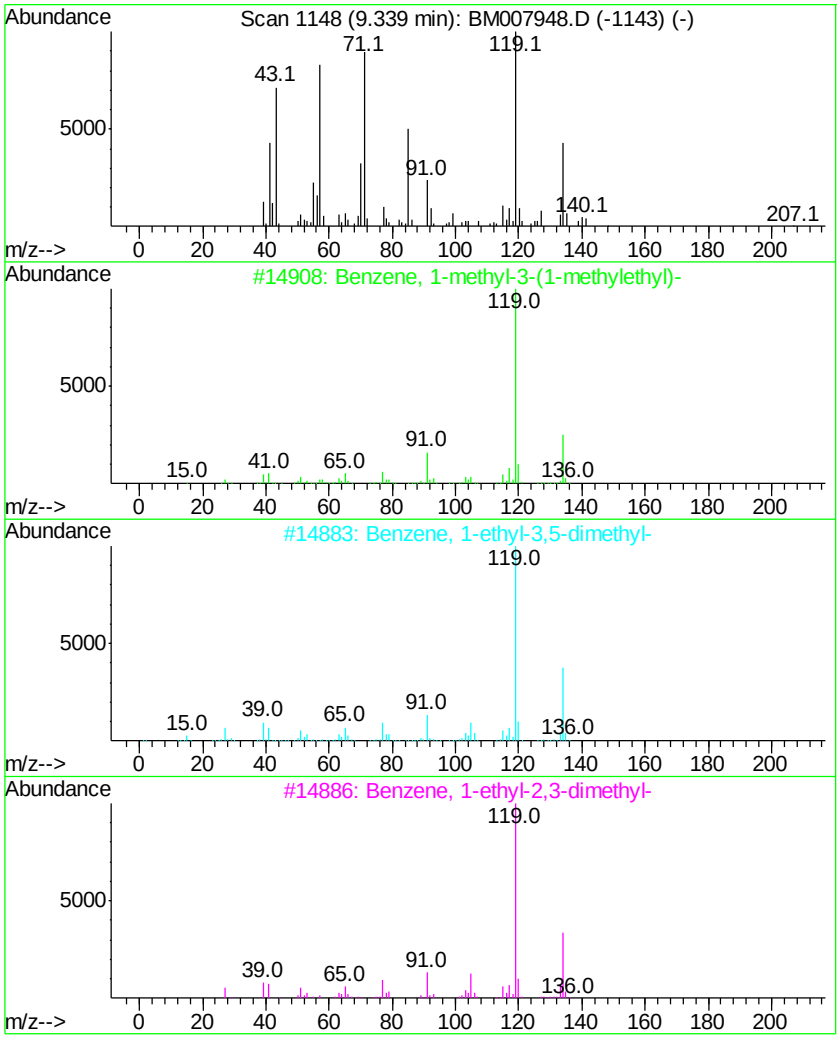
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

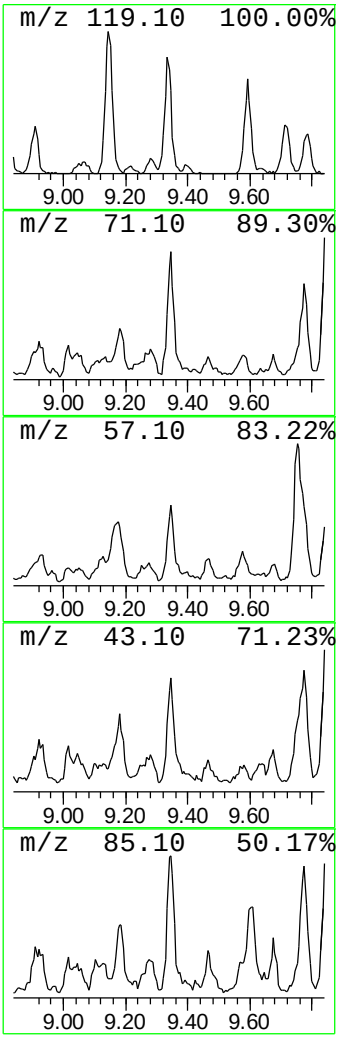
**********

Peak Number 3 unknown-01 Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.34 | 2.22 ng/ul | 239664 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 46 |
| 2 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 46 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 46 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 46 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 46 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

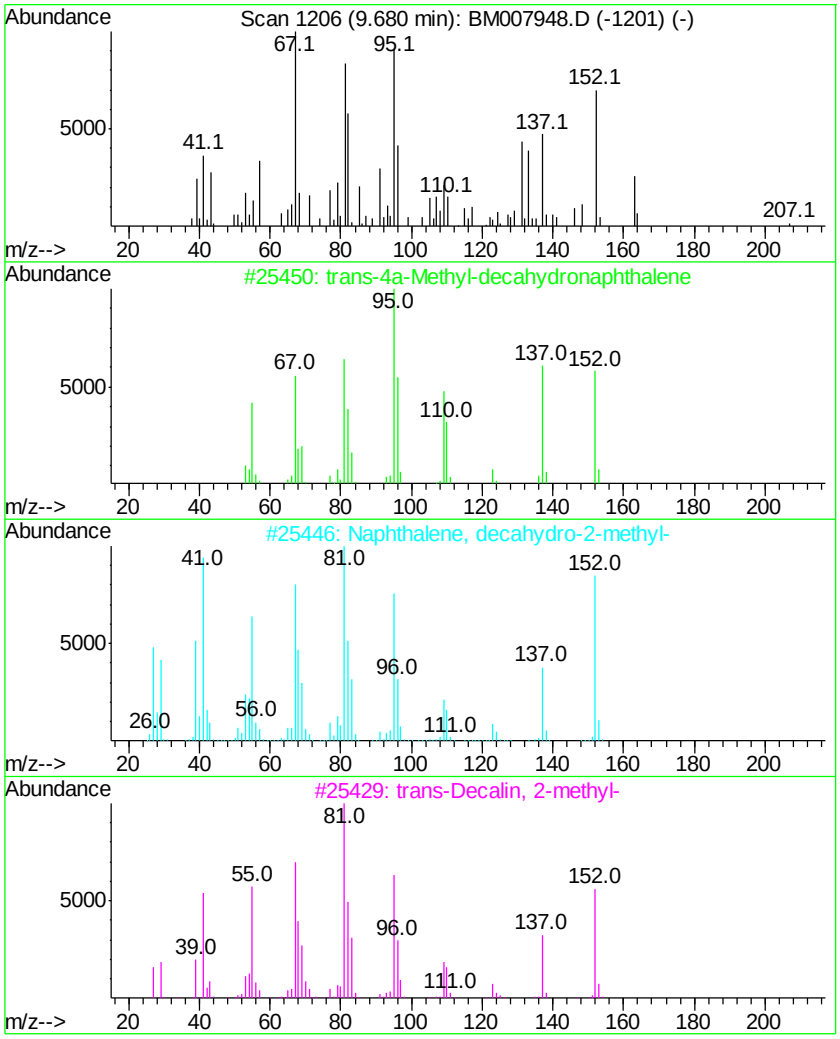
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

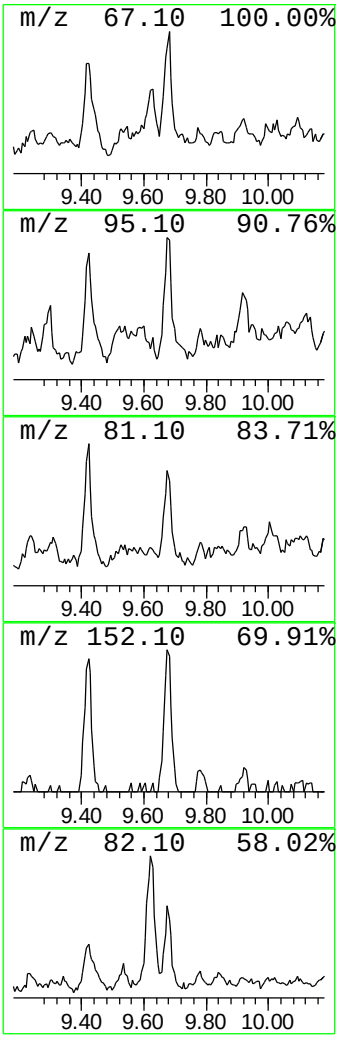
**********

Peak Number 4 trans-4a-Methyl-decahydrona... Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.68 | 2.24 ng/ul | 241281 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20 | 002547-27-5 | 78 |
| 2 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 58 |
| 3 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 49 |
| 4 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 47 |
| 5 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

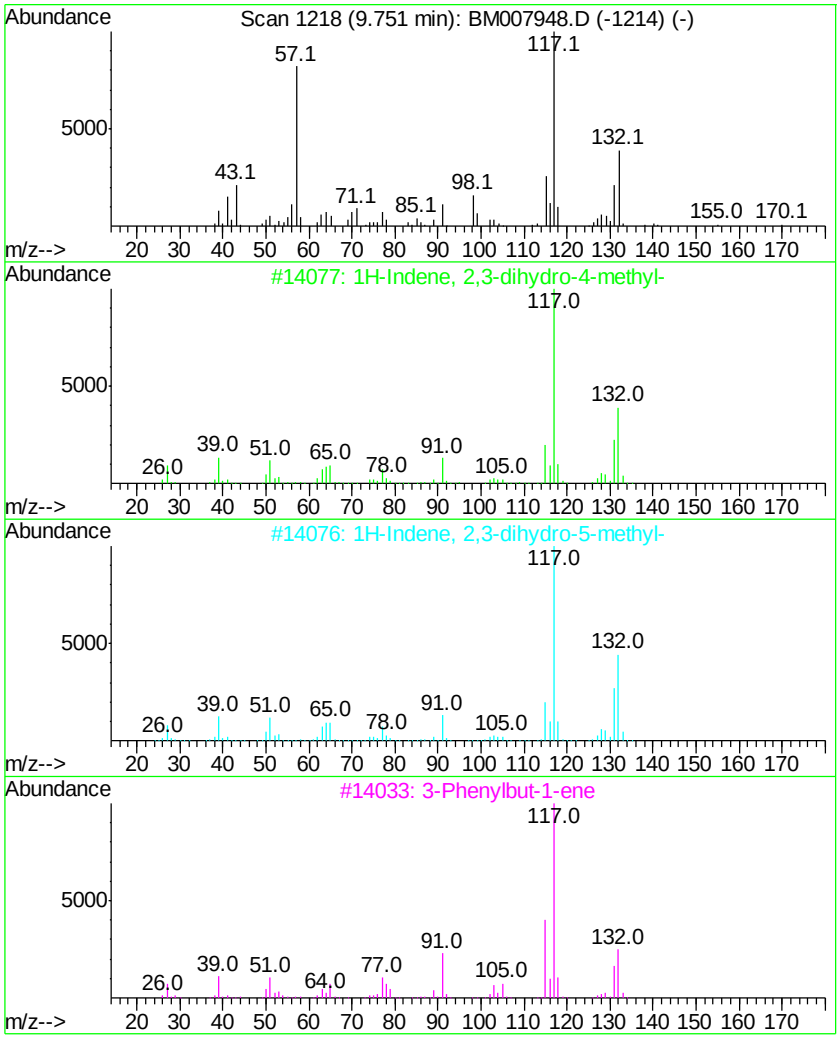
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

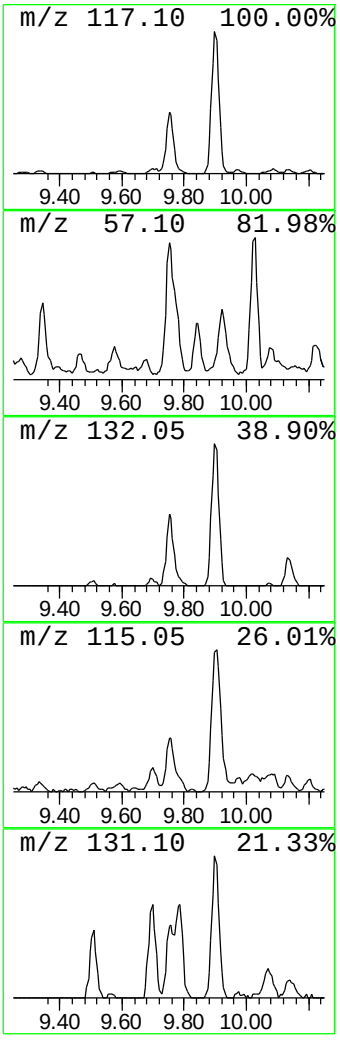
**********

Peak Number 5 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.75 | 4.50 ng/ul | 486158 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 87 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 81 |
| 3 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 80 |
| 4 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 76 |
| 5 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 70 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

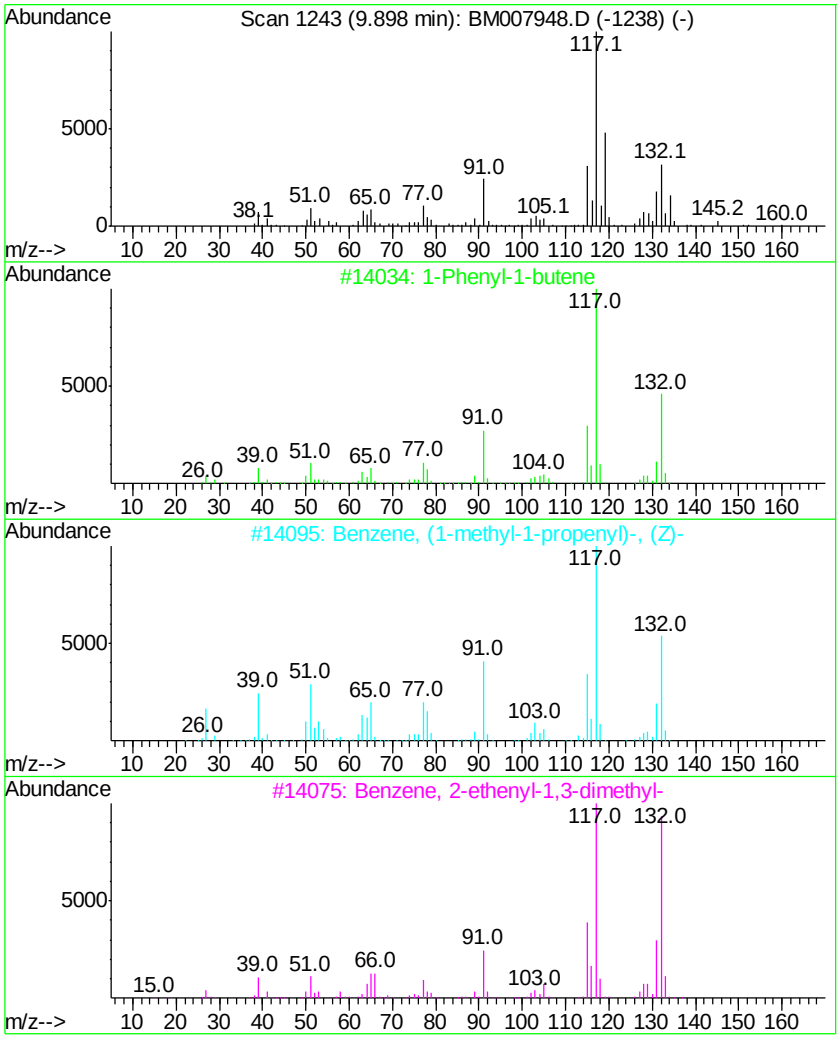
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

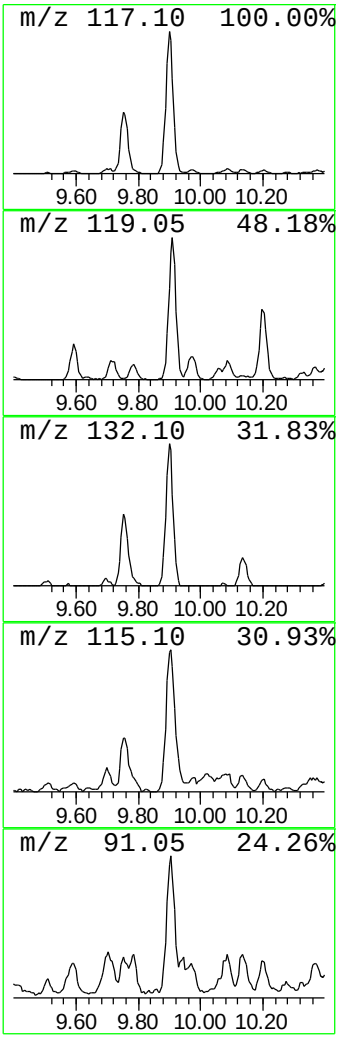
**********

Peak Number 6 1-Phenyl-1-butene Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.90 | 9.47 ng/ul | 1022040 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 70 |
| 2 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 70 |
| 3 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 70 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 64 |
| 5 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 64 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

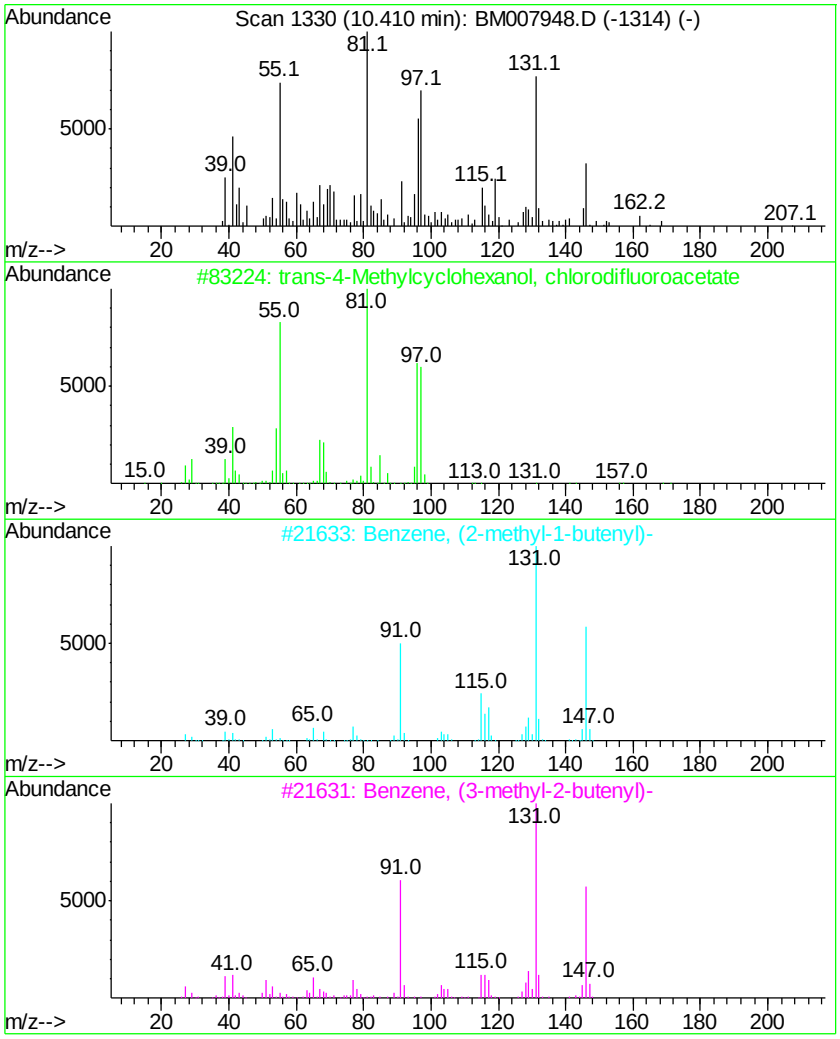
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

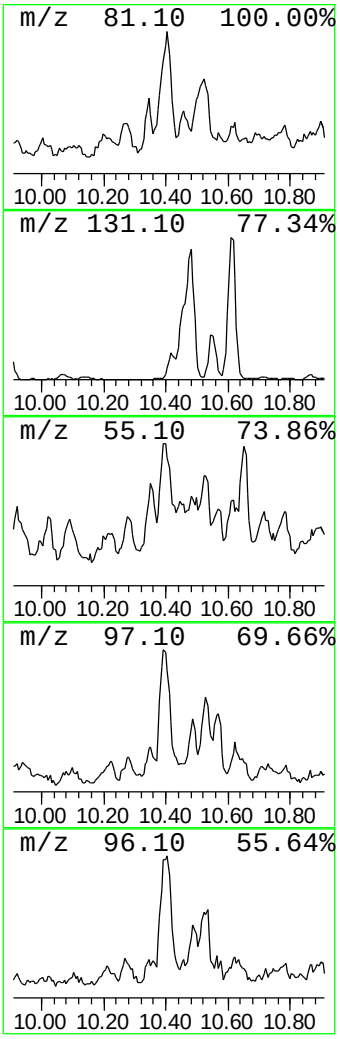
**********

Peak Number 7 unknown-02 Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.41 | 7.20 ng/ul | 776812 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-4-Methylcyclohexanol, chlo... | 226 | C9H13ClF2O2 | 1000376-26-1 | 43 |
| 2 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 42 |
| 3 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 42 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 | C11H14 | 027087-54-3 | 42 |
| 5 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 42 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

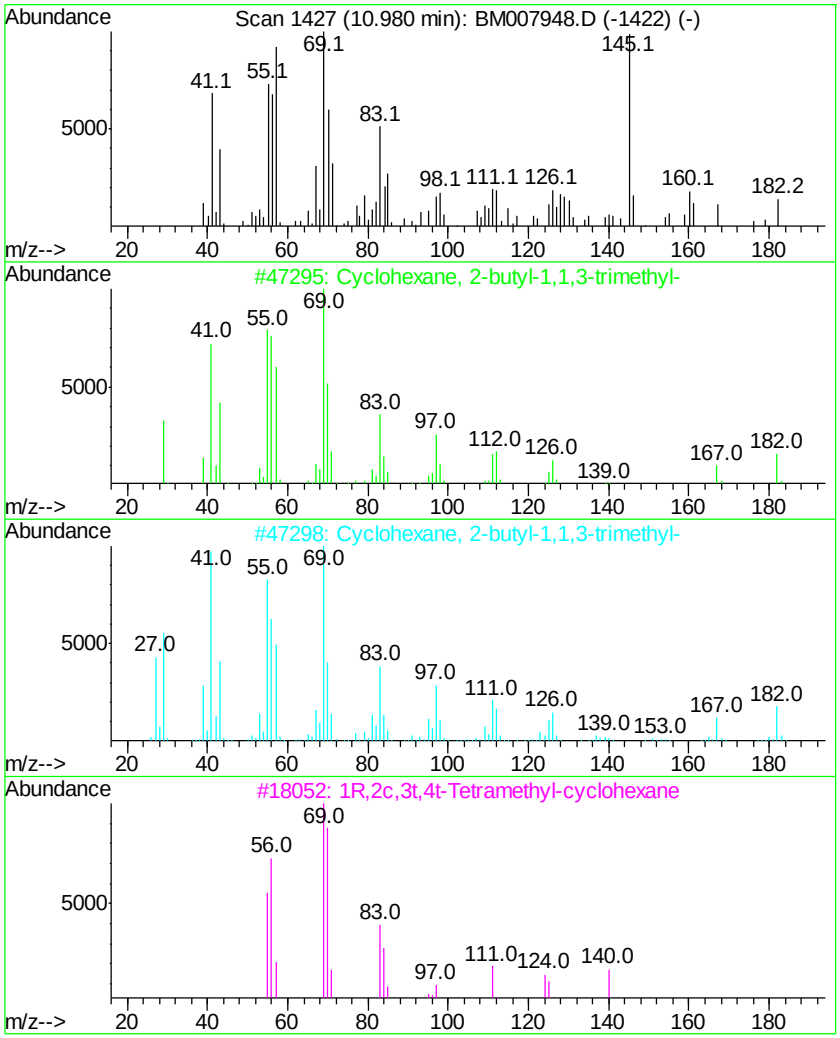
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

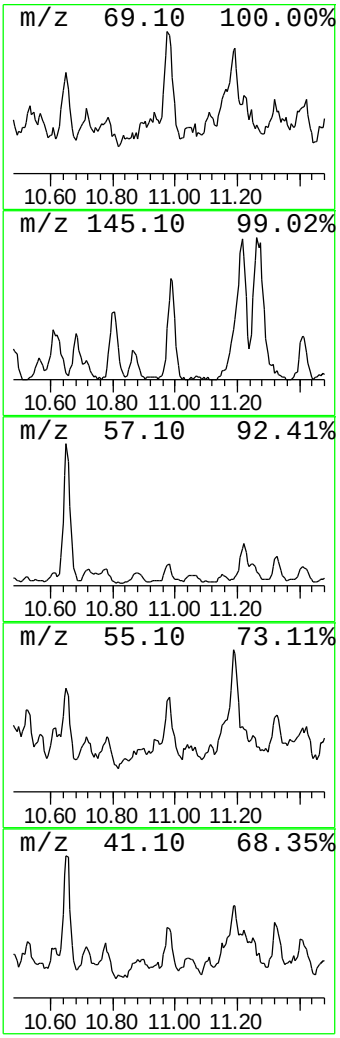
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 (DEL) Alkane: Cyclic10.98 Concentration Rank 58

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.98 | 2.35 ng/ul | 253953 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26 | 054676-39-0 | 86 |
| 2 | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26 | 054676-39-0 | 60 |
| 3 | 1R,2c,3t,4t-Tetramethyl-cyclohexane | 140 | C10H20 | 1000144-07-3 | 49 |
| 4 | Cyclopentane, butyl- | 126 | C9H18 | 002040-95-1 | 43 |
| 5 | 4-Tridecene, (Z)- | 182 | C13H26 | 041446-54-2 | 41 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

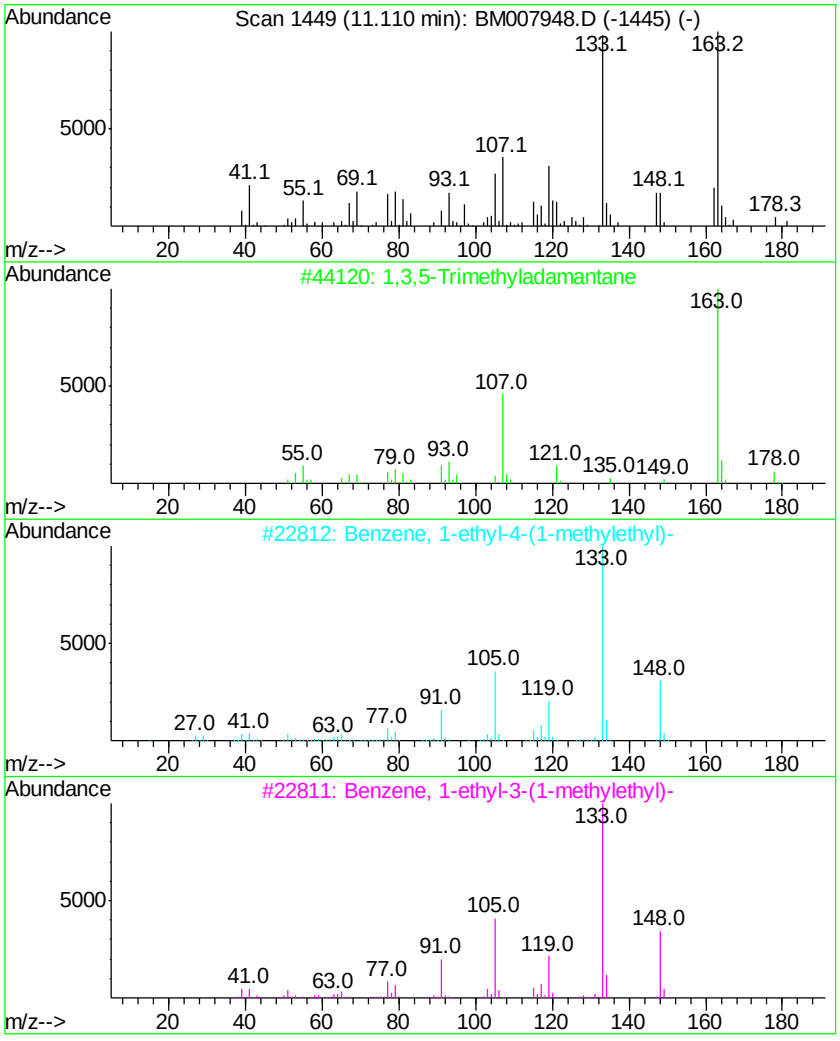
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

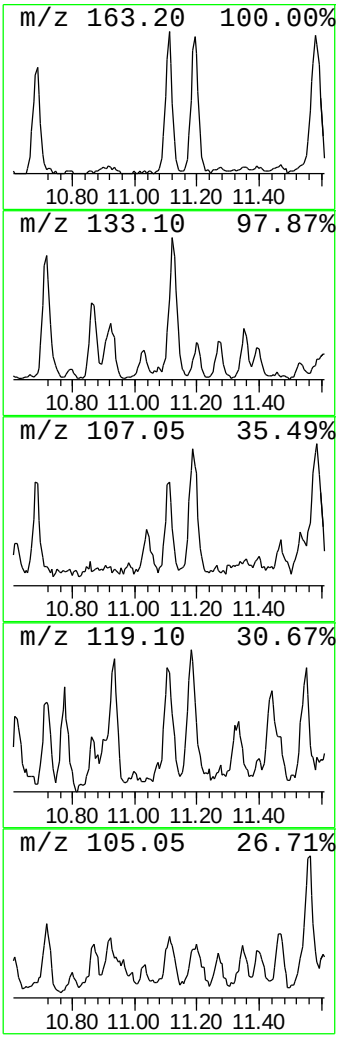
**********

Peak Number 9 unknown-03 Concentration Rank 62

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.11 | 2.06 ng/ul | 222025 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3,5-Trimethyladamantane | 178 | C13H22 | 000707-35-7 | 46 |
| 2 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 41 |
| 3 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 41 |
| 4 | Benzonitrile, 2,4-dimethoxy- | 163 | C9H9NO2 | 004107-65-7 | 38 |
| 5 | 3,5-Dimethylphenyl isothiocyanate | 163 | C9H9NS | 040046-30-8 | 38 |



Library Search Compound Report

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Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

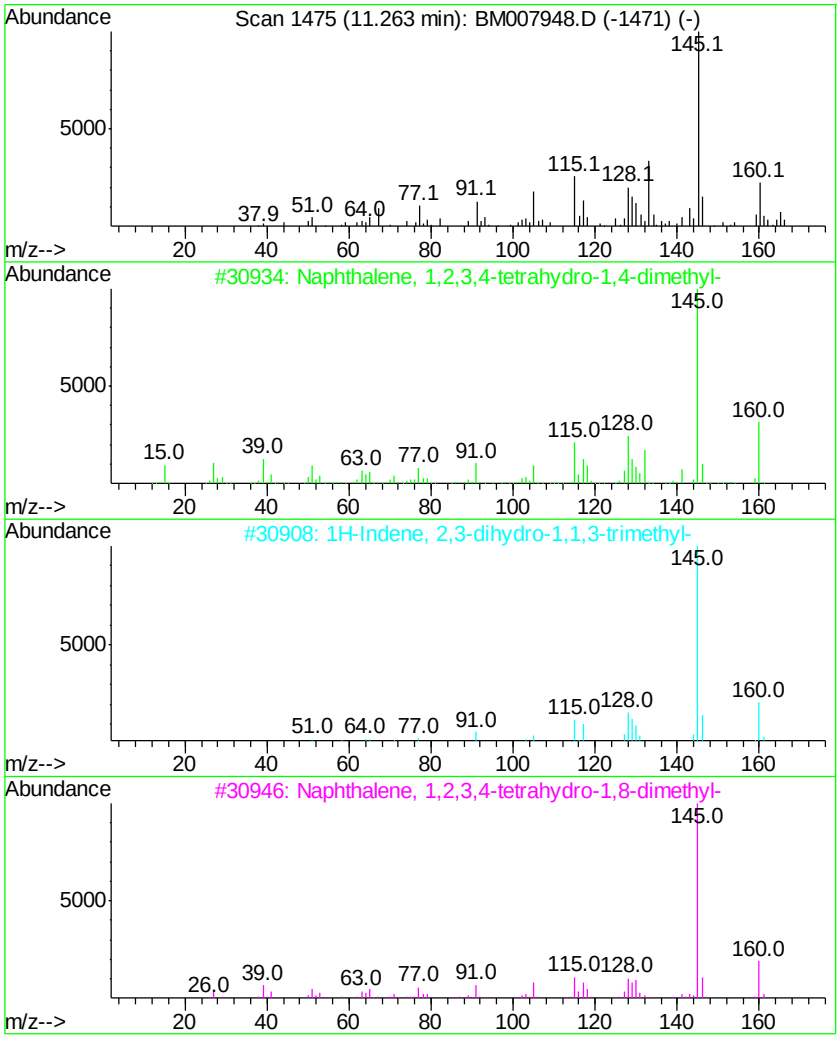
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

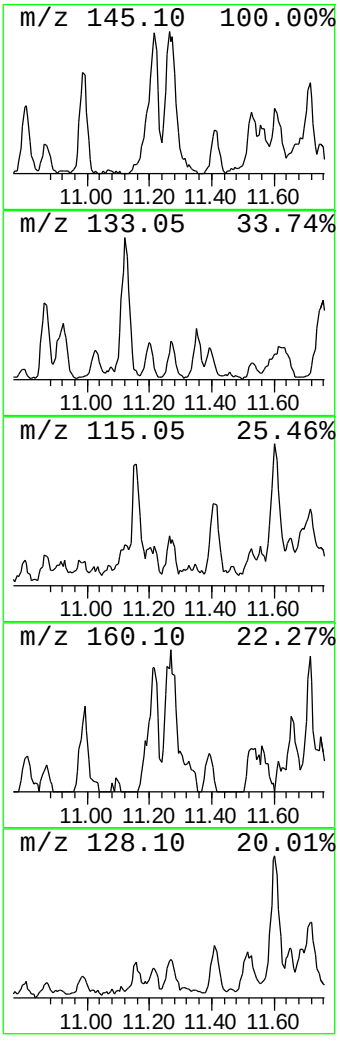
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 63

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.26 | 2.04 ng/ul | 219862 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 004175-54-6 | 90 |
| 2 | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16 | 002613-76-5 | 87 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 025419-33-4 | 83 |
| 4 | 1H-Indene, 2,3-dihydro-1,4,7-tri... | 160 | C12H16 | 054340-87-3 | 76 |
| 5 | 1H-Indene, 2,3-dihydro-1,5,7-tri... | 160 | C12H16 | 054340-88-4 | 76 |



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Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

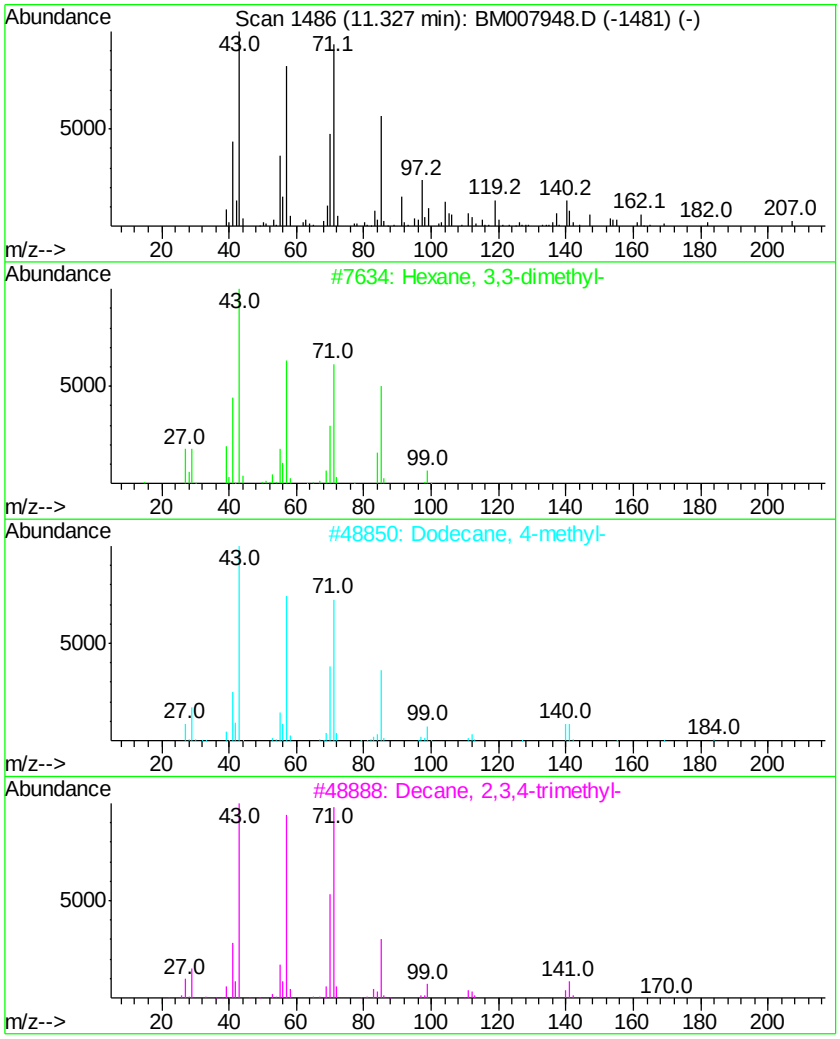
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

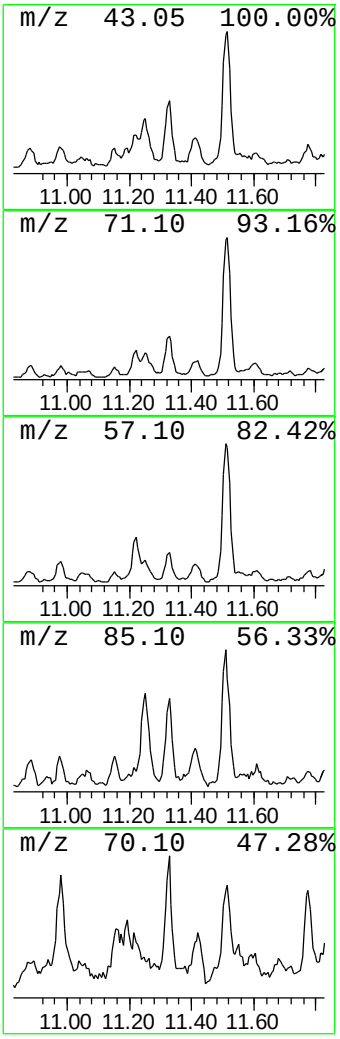
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 57

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.33 | 2.38 ng/ul | 257388 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 64 |
| 2 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 59 |
| 3 | Decane, 2,3,4-trimethyl- | 184 | C13H28 | 062238-15-7 | 53 |
| 4 | Nonane, 1-iodo- | 254 | C9H19I | 004282-42-2 | 46 |
| 5 | 1,3-Dimethylcyclopentanol | 114 | C7H14O | 019550-46-0 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

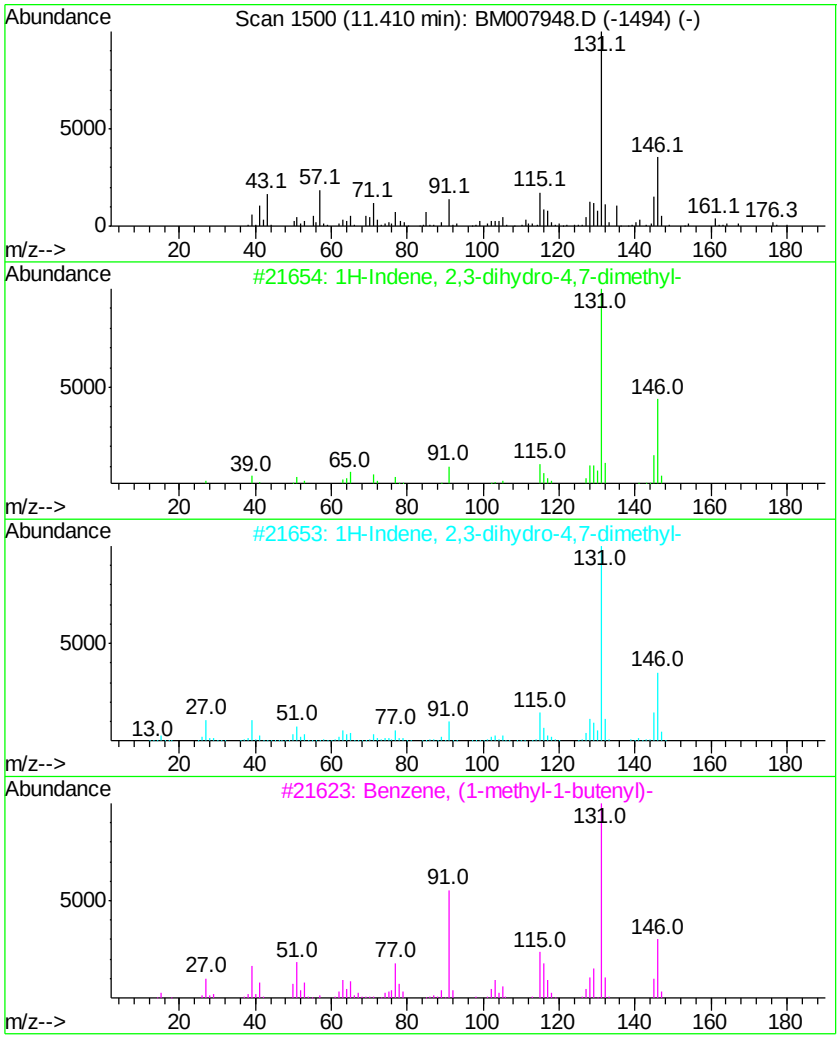
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

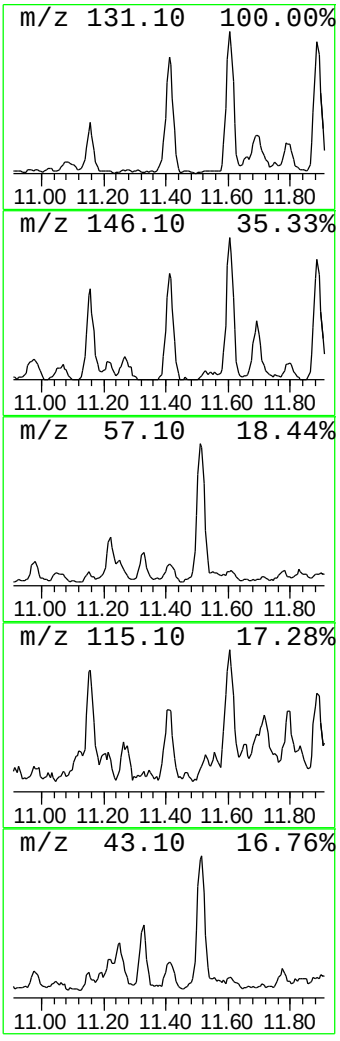
**********

Peak Number 12 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.41 | 4.42 ng/ul | 476558 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 95 |
| 3 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 93 |
| 4 | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14 | 000769-57-3 | 93 |
| 5 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 93 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

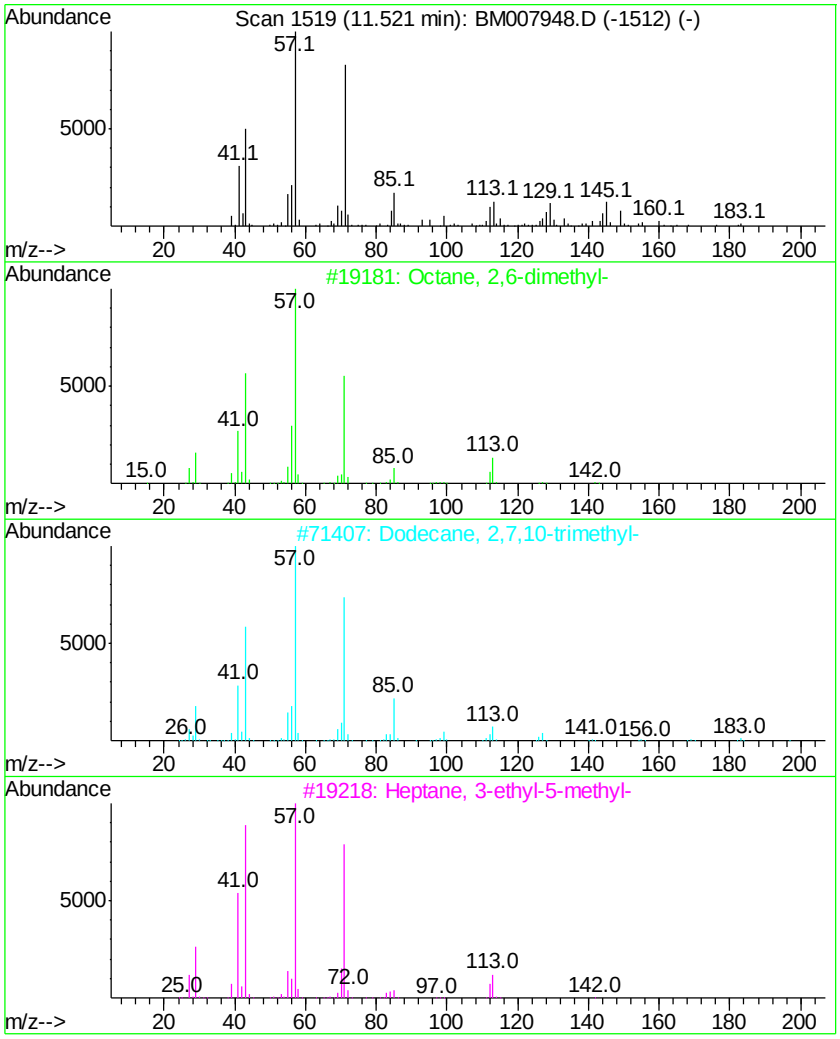
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

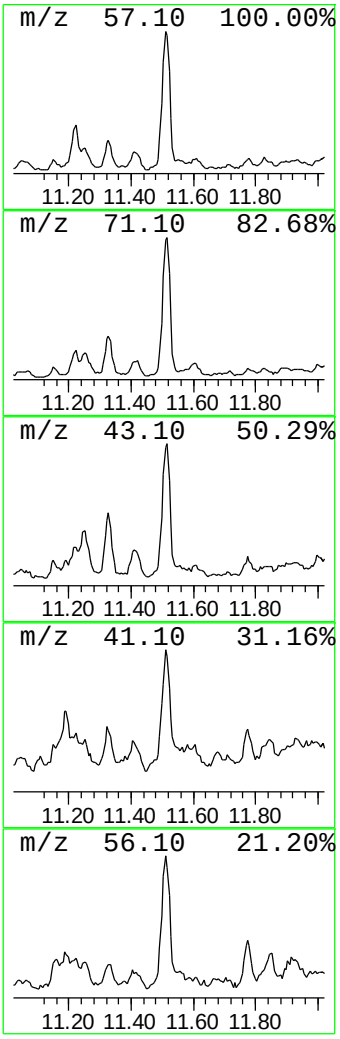
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.52 | 6.03 ng/ul | 650791 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 72 |
| 2 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 64 |
| 3 | Heptane, 3-ethyl-5-methyl- | 142 | C10H22 | 052896-90-9 | 64 |
| 4 | Sulfurous acid, decyl 2-ethylhex... | 334 | C18H38O3S | 1000309-19-3 | 64 |
| 5 | Undecane, 6,6-dimethyl- | 184 | C13H28 | 017312-76-4 | 59 |



# Library Search Compound Report

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Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

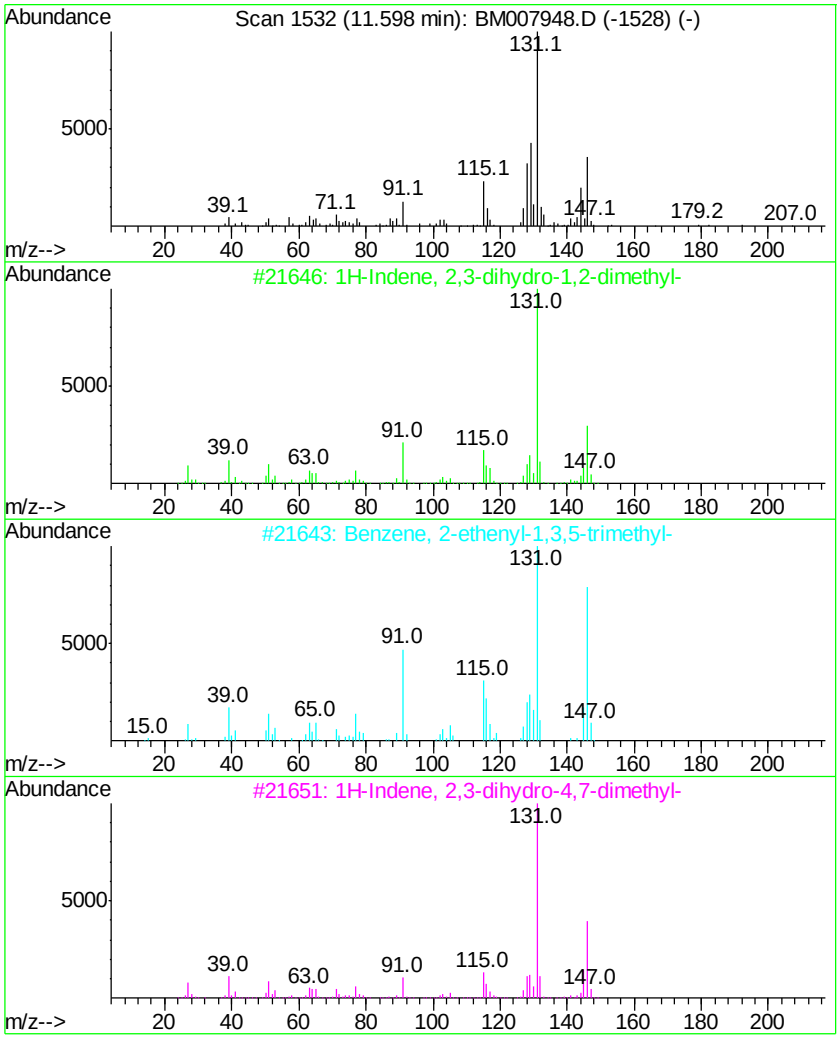
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

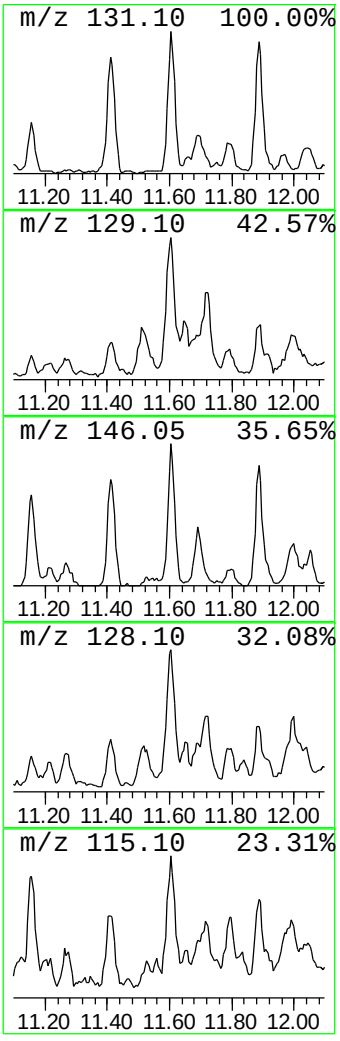
**********

Peak Number 14 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.60 | 4.71 ng/ul | 508350 | Naphthalene-d8 | 10.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 80 |
| 2 | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14 | 000769-25-5 | 72 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 72 |
| 4 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 72 |
| 5 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

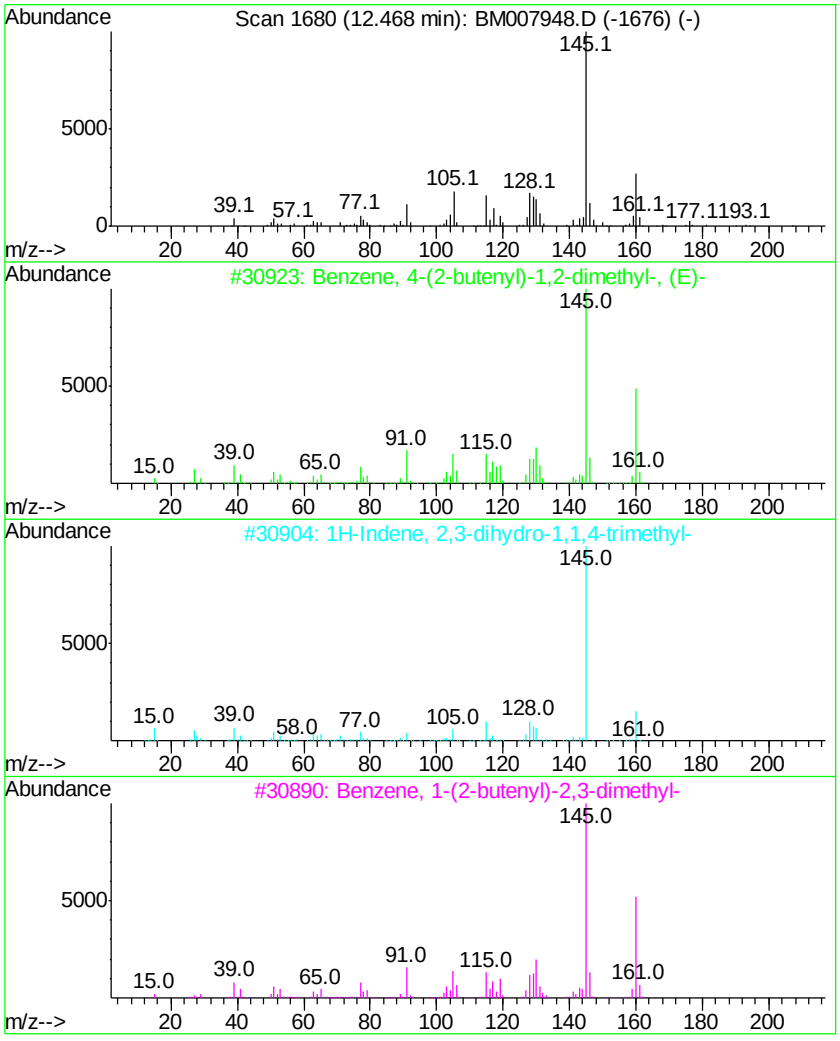
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

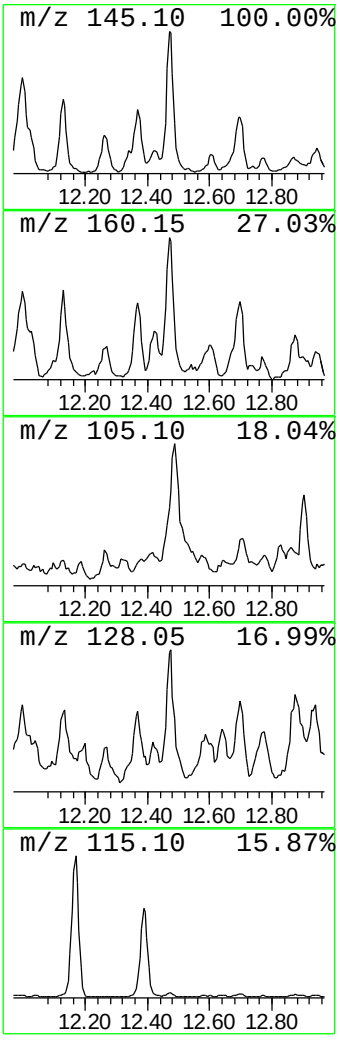
**********

Peak Number 17 Benzene, 4-(2-butenyl)-1,2-... Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.47 | 2.93 ng/ul | 484258 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16 | 054340-86-2 | 94 |
| 2 | 1H-Indene, 2,3-dihydro-1,1,4-tri... | 160 | C12H16 | 016204-72-1 | 87 |
| 3 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 81 |
| 4 | Benzene, (1,3-dimethyl-2-butenyl)- | 160 | C12H16 | 050704-01-3 | 81 |
| 5 | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16 | 002613-76-5 | 80 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

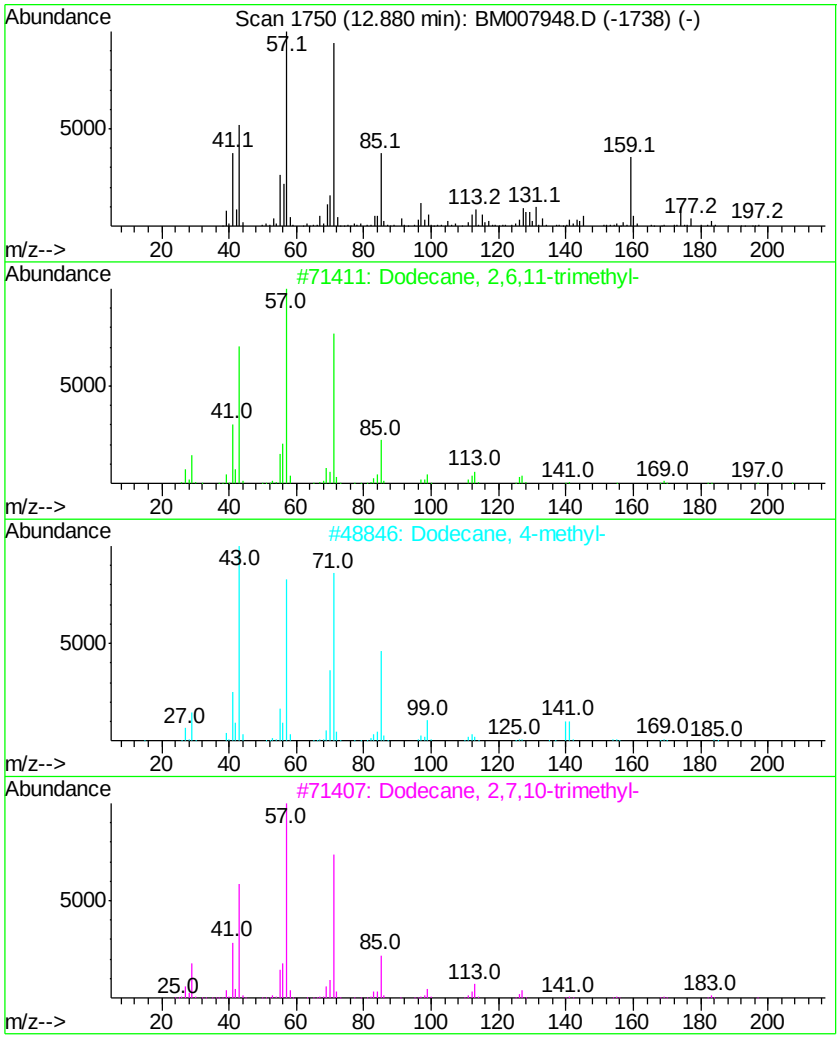
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

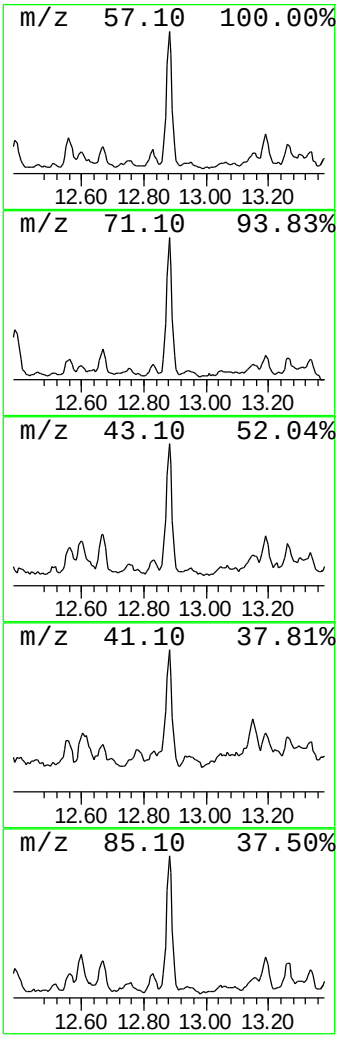
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.88 | 8.43 ng/ul | 1394310 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 58 |
| 2 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 53 |
| 3 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 53 |
| 4 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 52 |
| 5 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 52 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

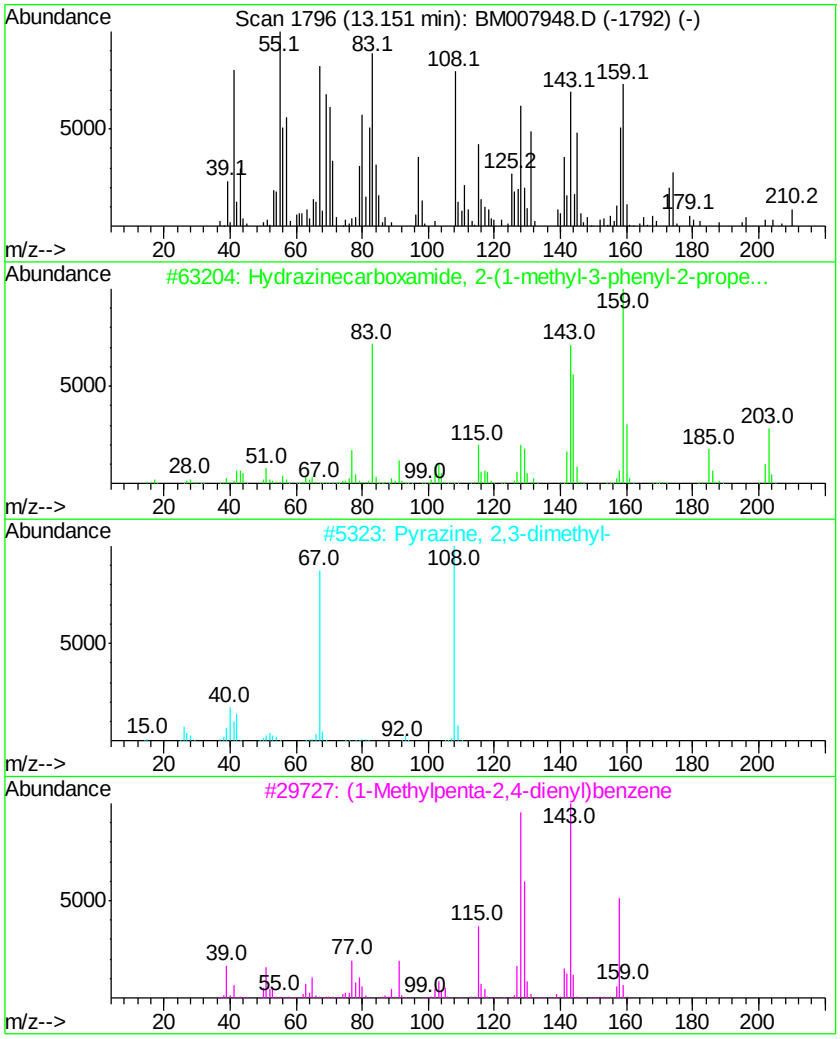
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

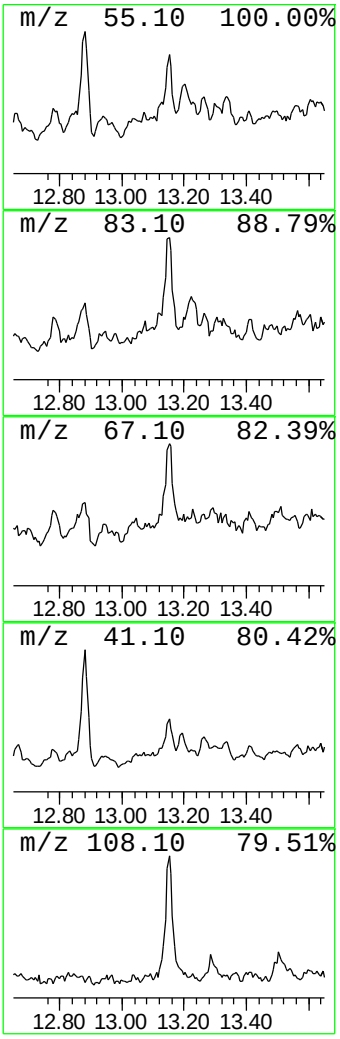
**********

Peak Number 19 unknown-04 Concentration Rank 61

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.15 | 2.11 ng/ul | 349504 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hydrazinecarboxamide, 2-(1-methy... | 203 | C11H13N3O | 005468-31-5 | 22 |
| 2 | Pyrazine, 2,3-dimethyl- | 108 | C6H8N2 | 005910-89-4 | 18 |
| 3 | (1-Methylpenta-2,4-dienyl)benzene | 158 | C12H14 | 1000210-01-1 | 15 |
| 4 | 2-Pentenoic acid, 4,4-dimethyl-,... | 142 | C8H14O2 | 016812-85-4 | 14 |
| 5 | Cyclopentane, 1-butyl-2-pentyl- | 196 | C14H28 | 061142-52-7 | 11 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

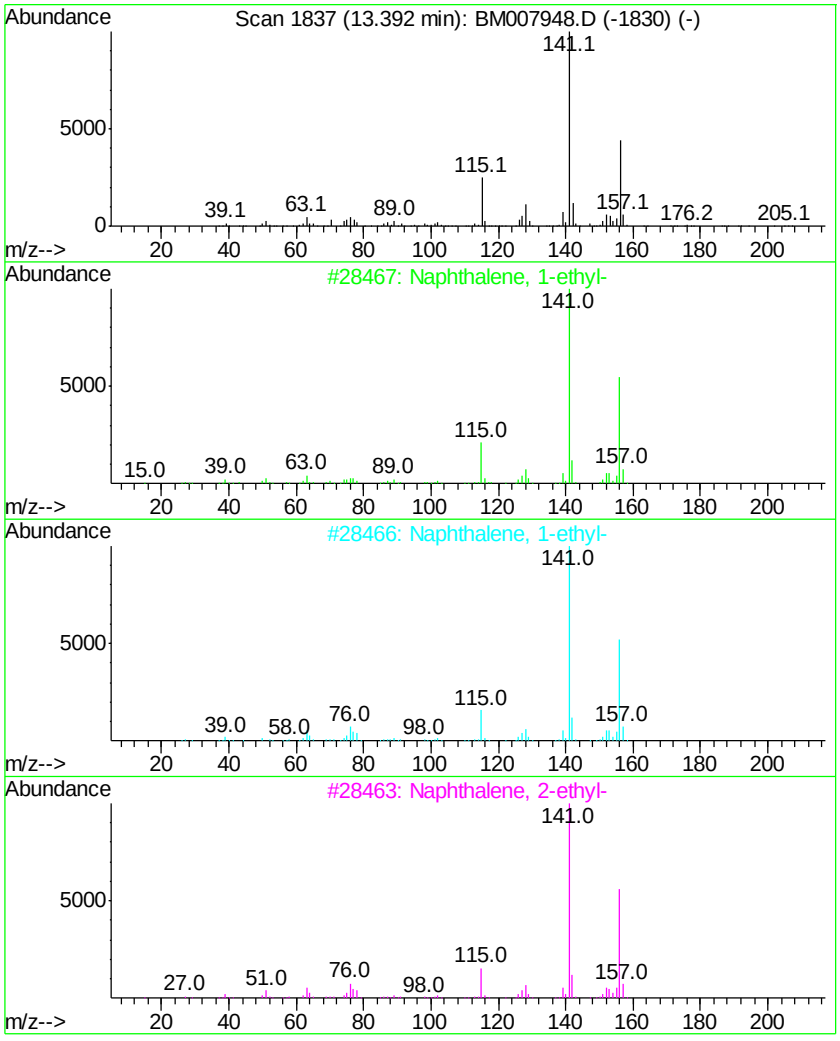
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

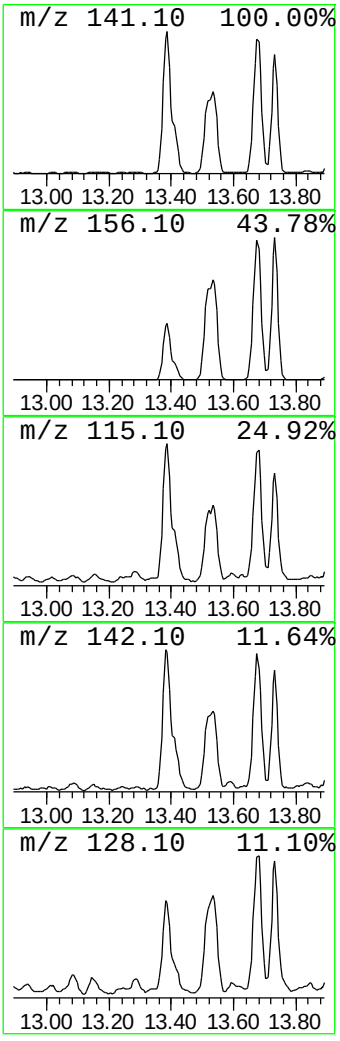
**********

Peak Number 20 Naphthalene, 1-ethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.39 | 19.91 ng/ul | 3292540 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 96 |
| 2 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 95 |
| 3 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 95 |
| 4 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 94 |
| 5 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 93 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

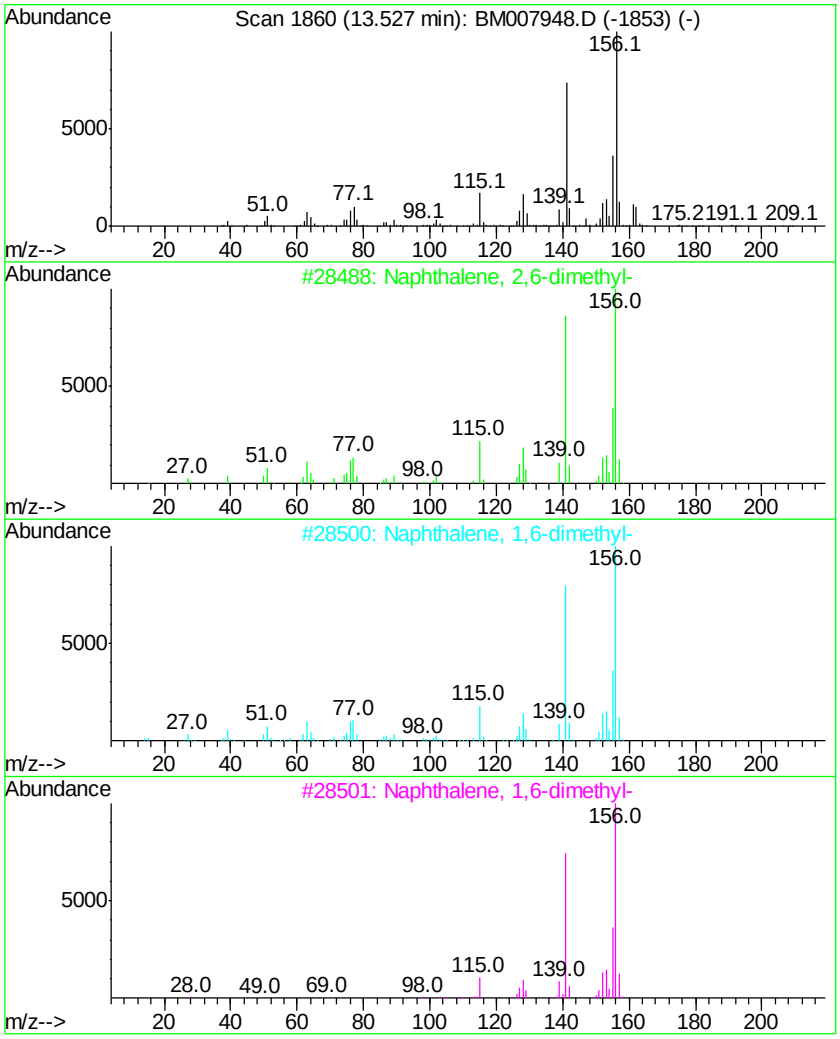
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

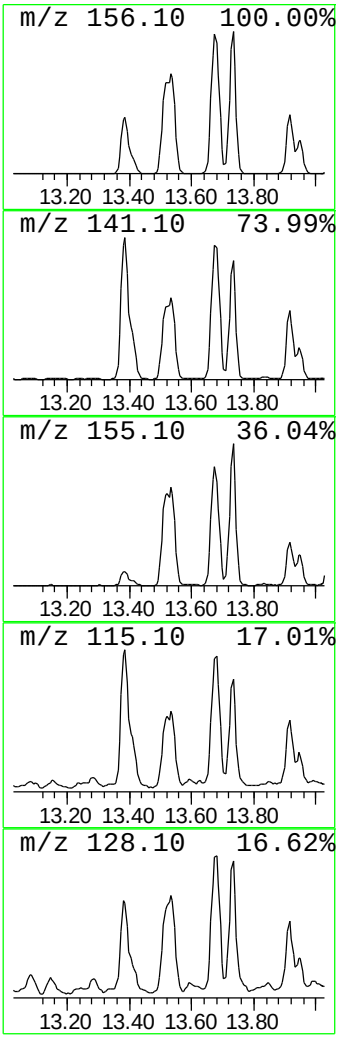
**********

Peak Number 21 Naphthalene, 2,6-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.53 | 24.96 ng/ul | 4126540 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

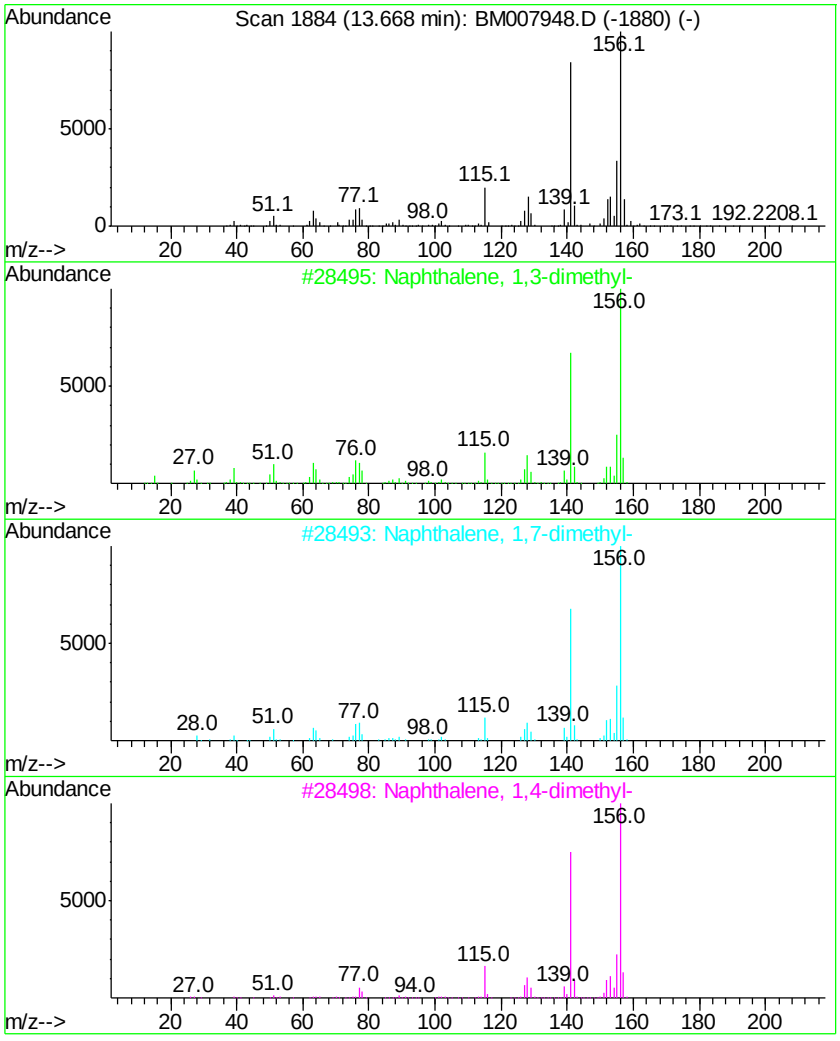
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

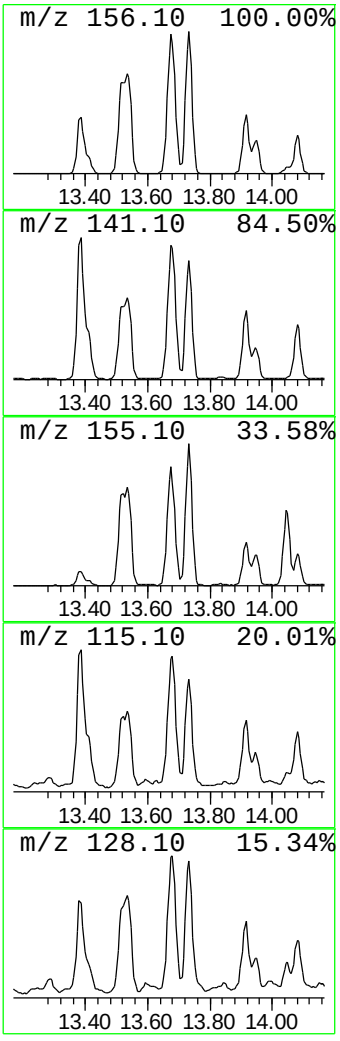
**********

Peak Number 22 Naphthalene, 1,3-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.67 | 26.44 ng/ul | 4372180 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

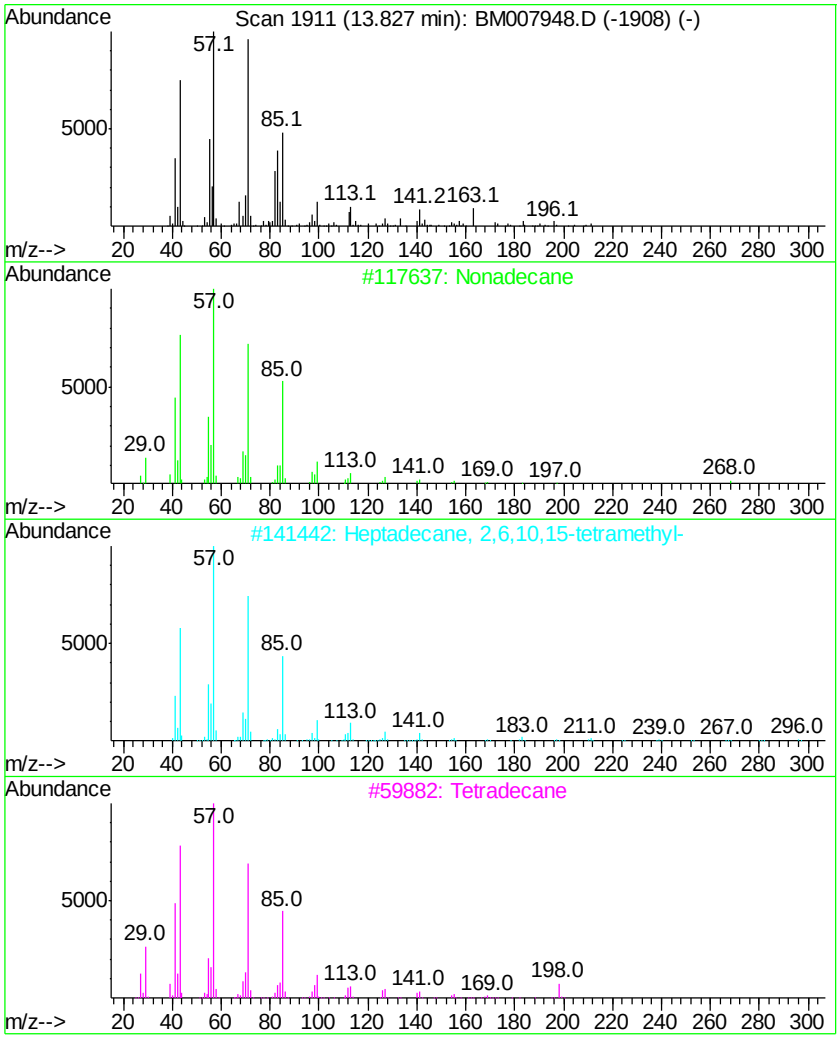
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

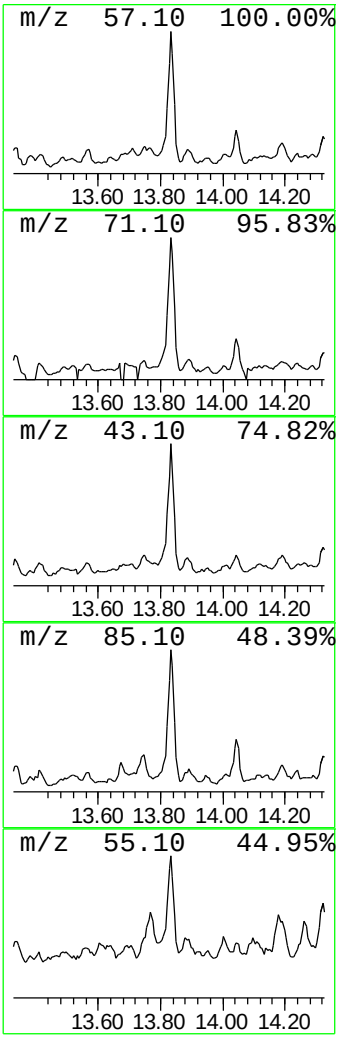
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.83 | 4.88 ng/ul | 807452 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 80 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 74 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 74 |
| 4 | Tritetracontane | 605 | C43H88 | 007098-21-7 | 72 |
| 5 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 70 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

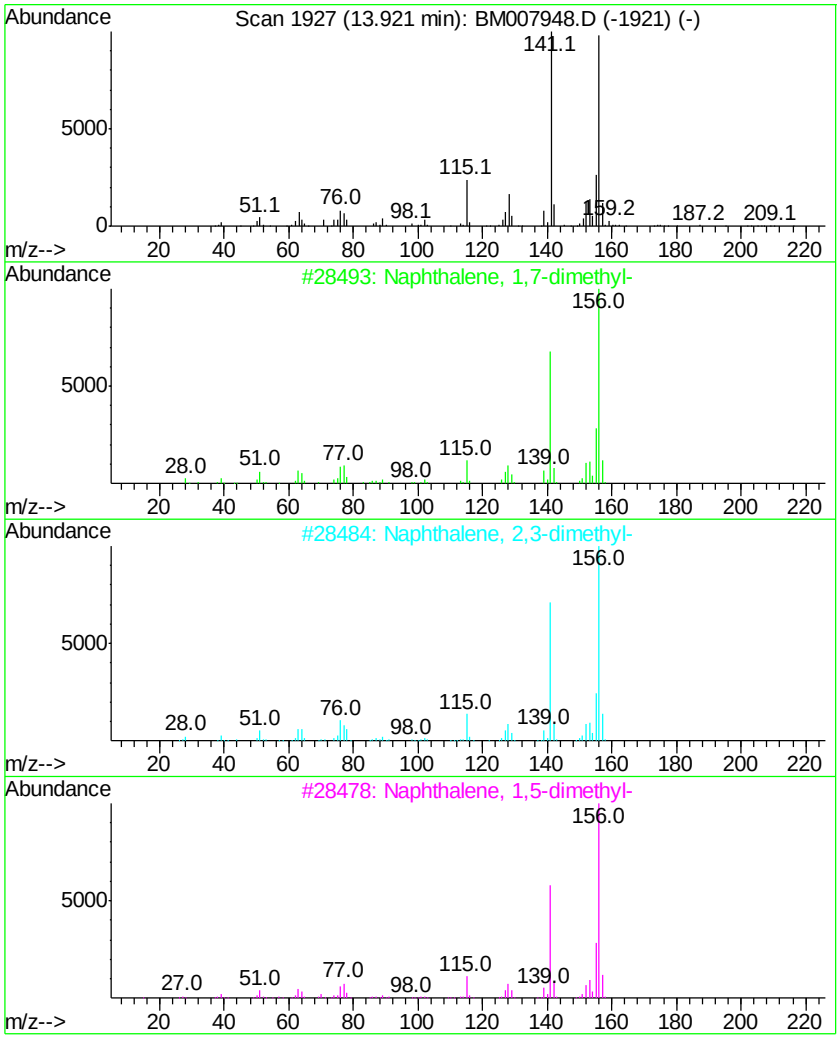
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

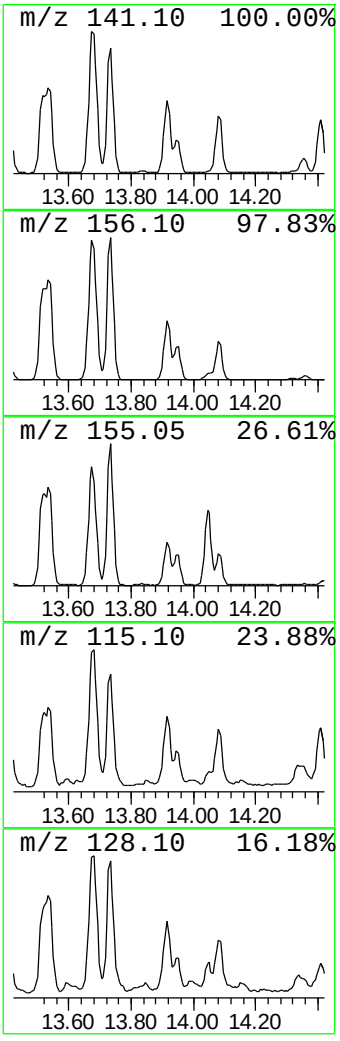
**********

Peak Number 24 Naphthalene, 1,7-dimethyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.92 | 9.69 ng/ul | 1602140 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

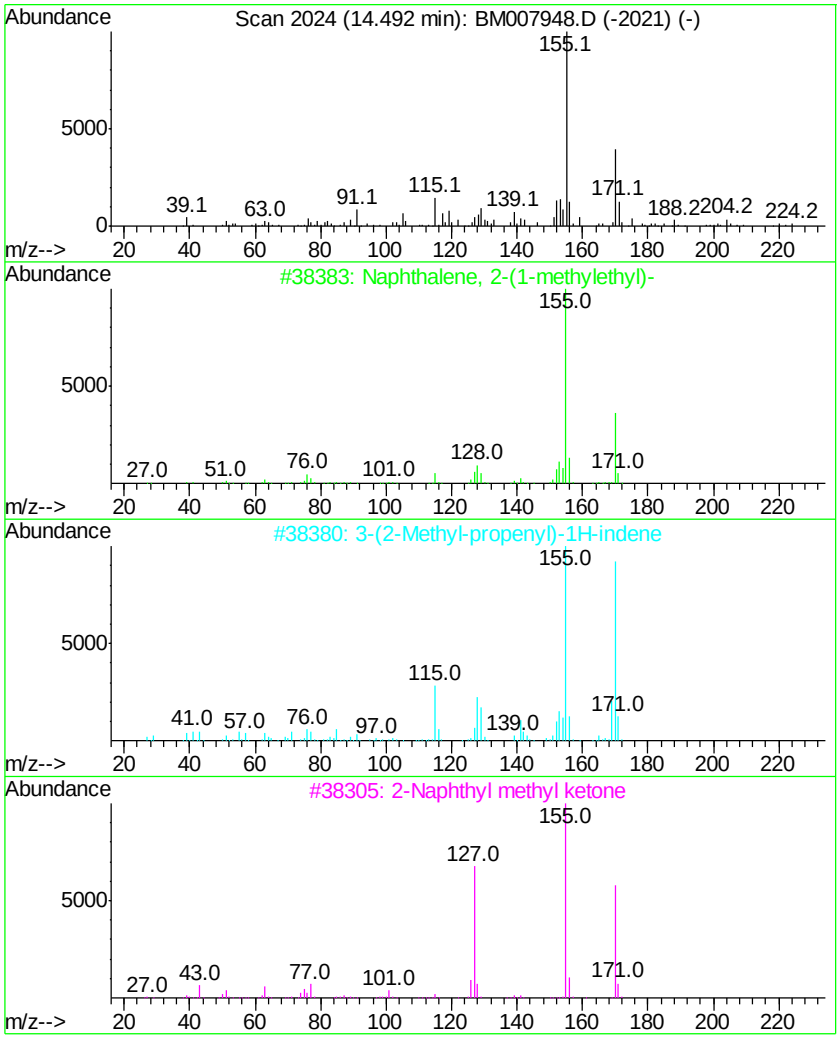
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

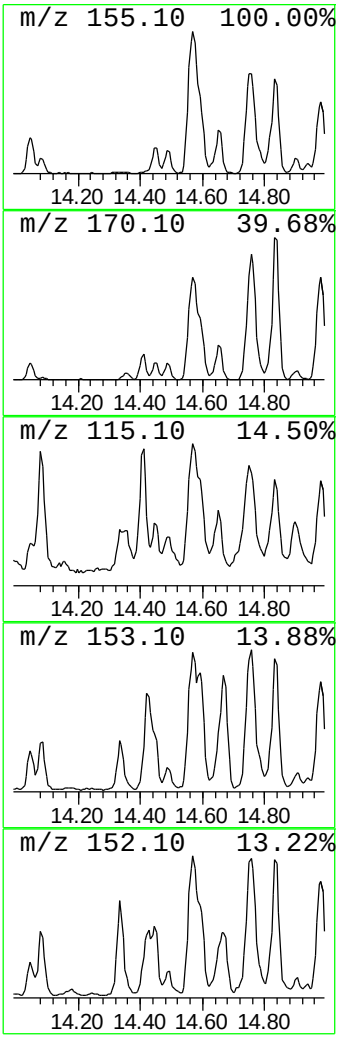
**********

Peak Number 26 Naphthalene, 2-(1-methyleth... Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.49 | 2.47 ng/ul | 407939 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 90 |
| 2 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 87 |
| 3 | 2-Naphthyl methyl ketone | 170 | C12H10O | 000093-08-3 | 72 |
| 4 | 2-Naphthyl methyl ketone | 170 | C12H10O | 000093-08-3 | 64 |
| 5 | Ethanone, 1-(1-Naphthalenyl)- | 170 | C12H10O | 000941-98-0 | 64 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

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

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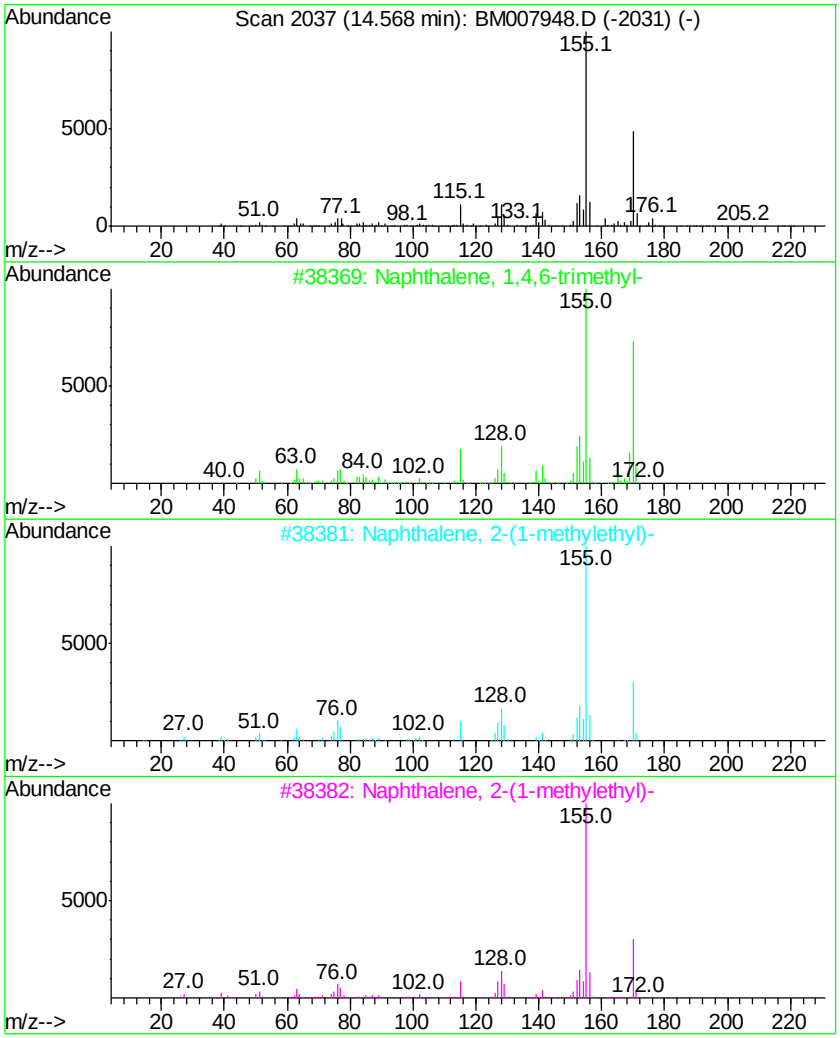
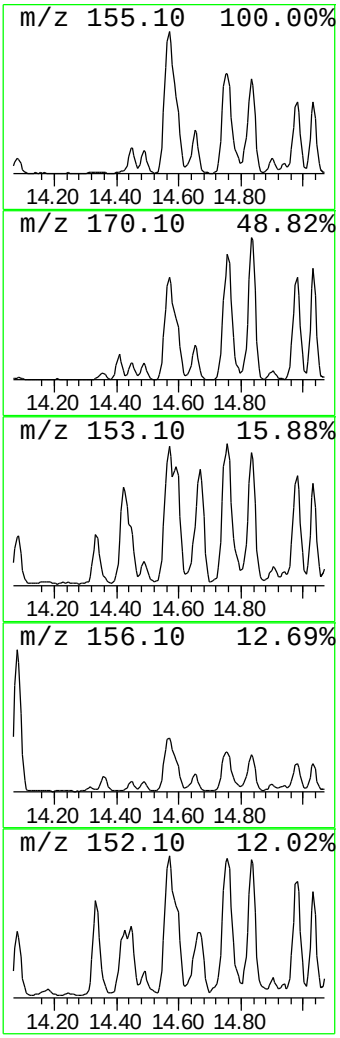
Peak Number 27 Naphthalene, 1,4,6-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.57 | 23.34 ng/ul | 3858990 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 92 |
| 2 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 3 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 4 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 87 |
| 5 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 86 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

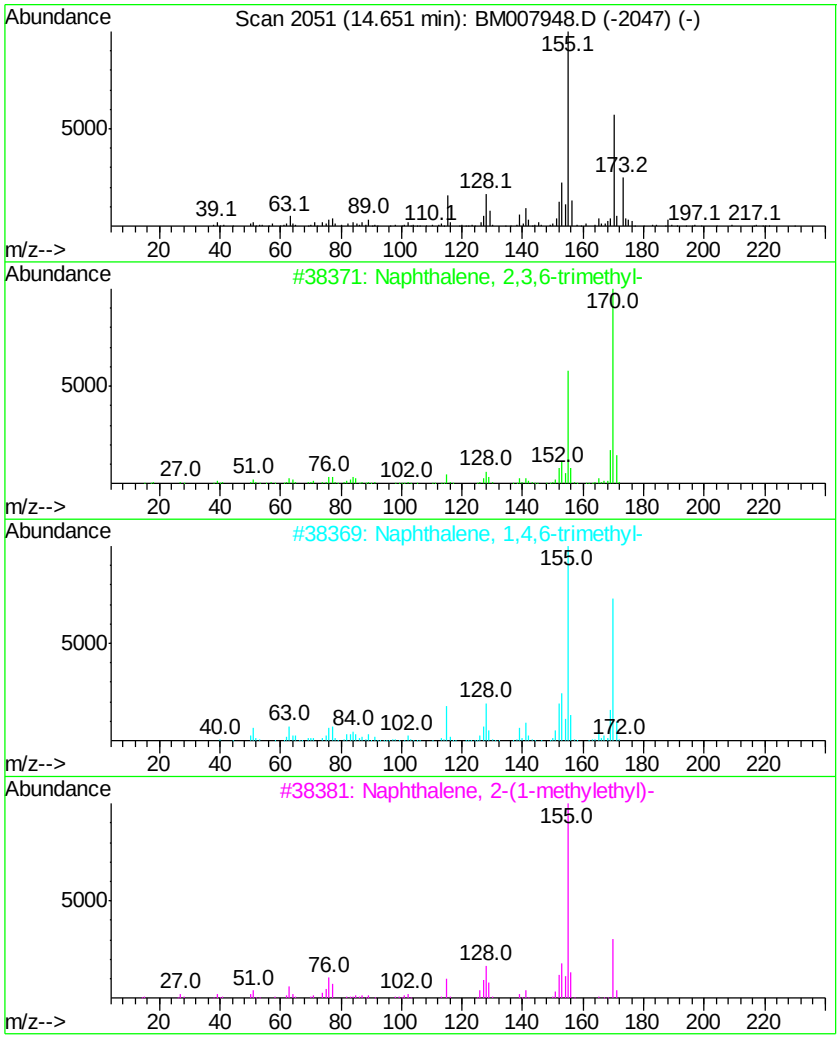
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

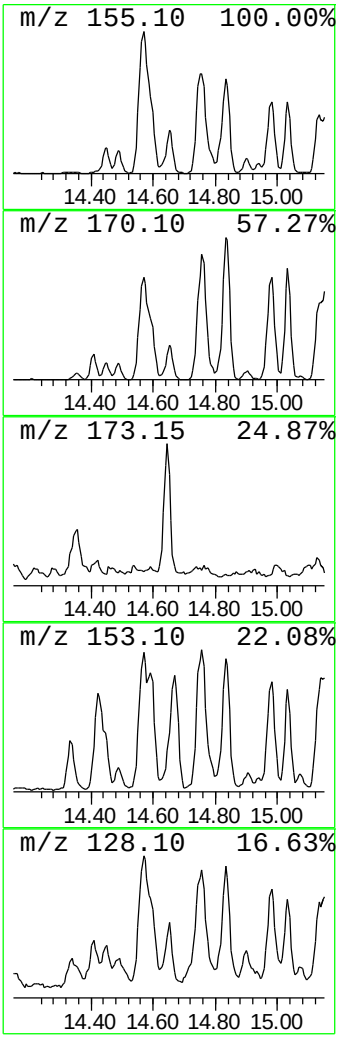
**********

Peak Number 28 Naphthalene, 2,3,6-trimethyl- Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.65 | 4.90 ng/ul | 810578 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 91 |
| 2 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 91 |
| 3 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 4 | Naphthalene, 1-(1-methylethyl)- | 170 | C13H14 | 006158-45-8 | 87 |
| 5 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 86 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

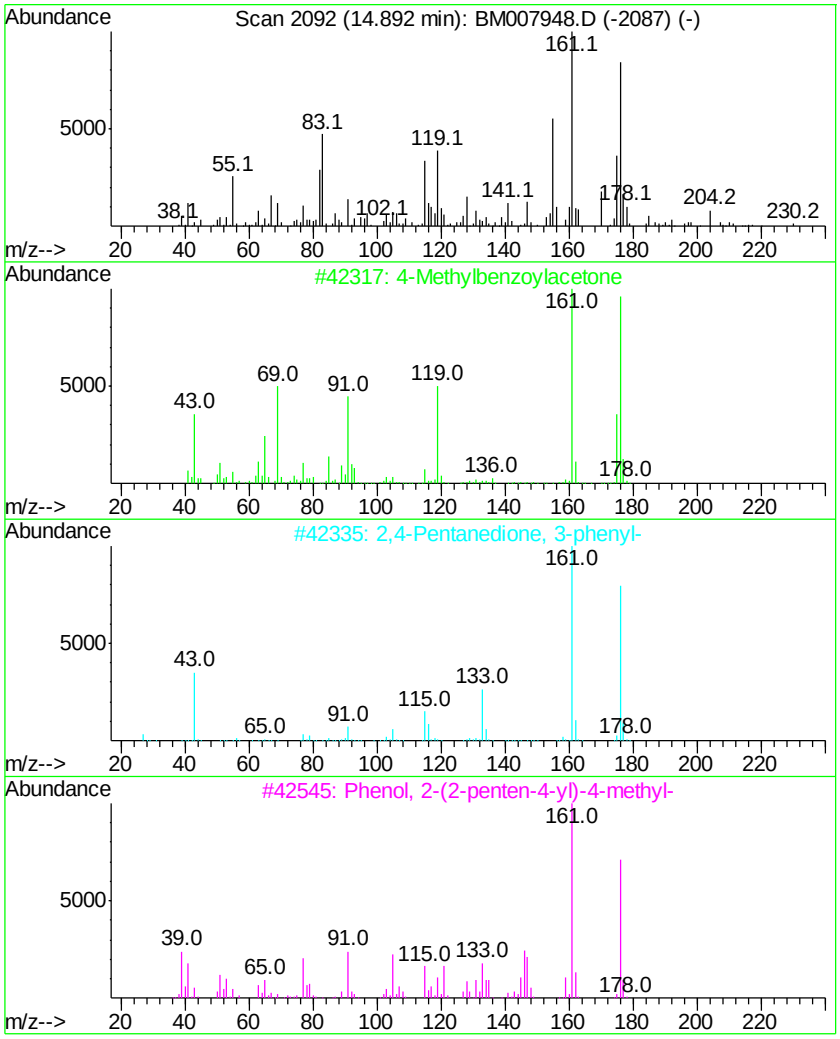
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

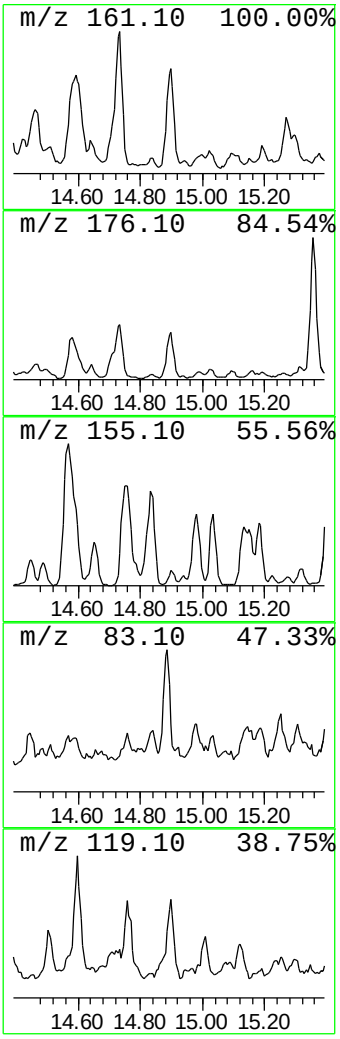
**********

Peak Number 30 4-Methylbenzoylacetone Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.89 | 4.92 ng/ul | 814146 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Methylbenzoylacetone | 176 | C11H12O2 | 004023-79-4 | 52 |
| 2 | 2,4-Pentanedione, 3-phenyl- | 176 | C11H12O2 | 005910-25-8 | 43 |
| 3 | Phenol, 2-(2-penten-4-yl)-4-methyl- | 176 | C12H16O | 013831-49-7 | 43 |
| 4 | Benzo[b]thiophene, 2-ethyl-7-met... | 176 | C11H12S | 016587-43-2 | 38 |
| 5 | 2-Acetyl-7-hydroxybenzofuran | 176 | C10H8O3 | 040020-87-9 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

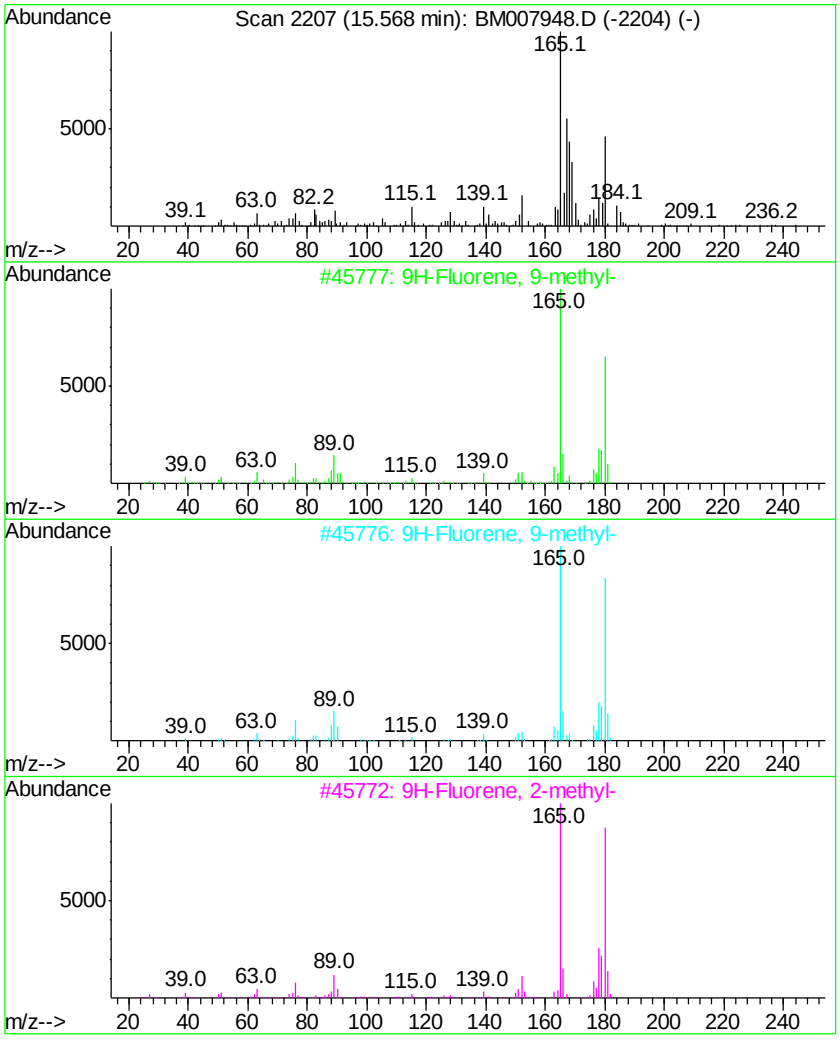
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

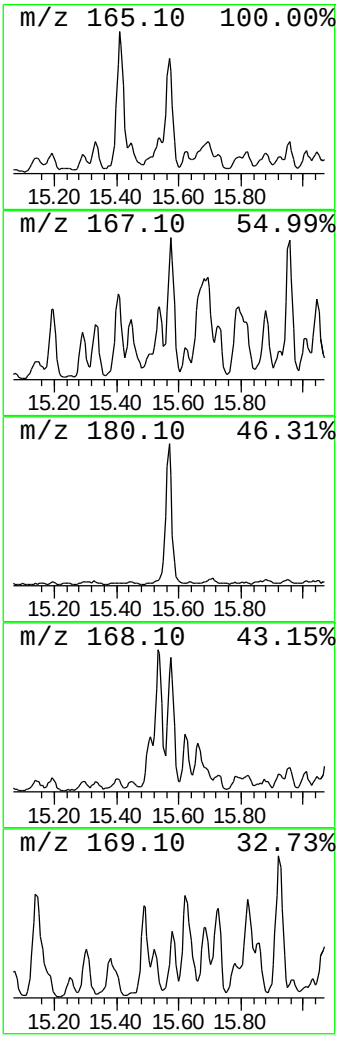
**********

Peak Number 35 unknown-05 Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.57 | 5.09 ng/ul | 842293 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 45 |
| 2 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 45 |
| 3 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 45 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 43 |
| 5 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 43 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

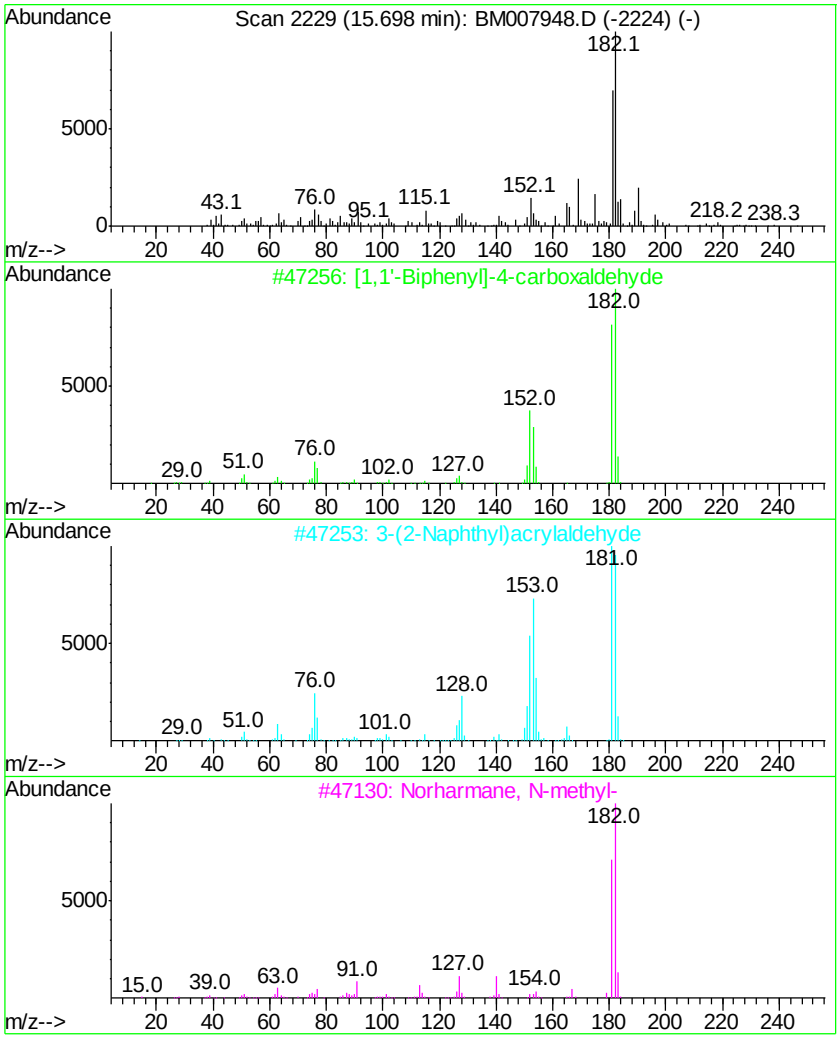
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

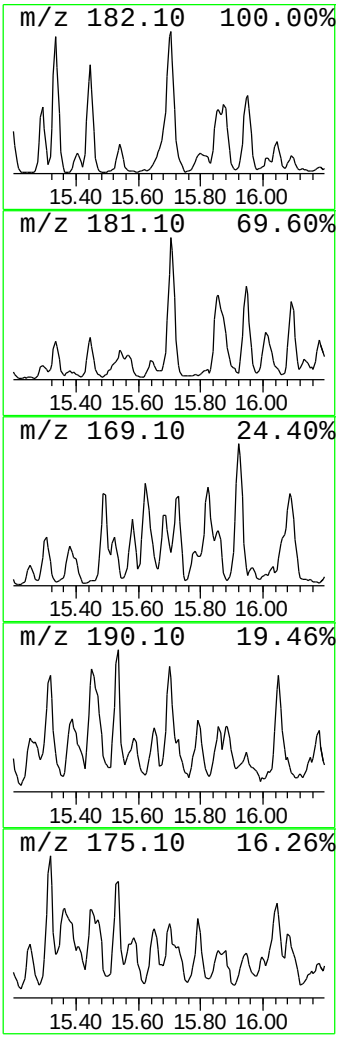
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 36 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.70 | 5.03 ng/ul | 831959 | Acenaphthene-d10 | 14.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 68 |
| 2 | 3-(2-Naphthyl)acrylaldehyde | 182 | C13H10O | 020884-05-3 | 64 |
| 3 | Norharmane, N-methyl- | 182 | C12H10N2 | 1000374-78-6 | 64 |
| 4 | Pyridine, 4,4'-(1,2-ethenediyl)bis- | 182 | C12H10N2 | 001135-32-6 | 59 |
| 5 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 49 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

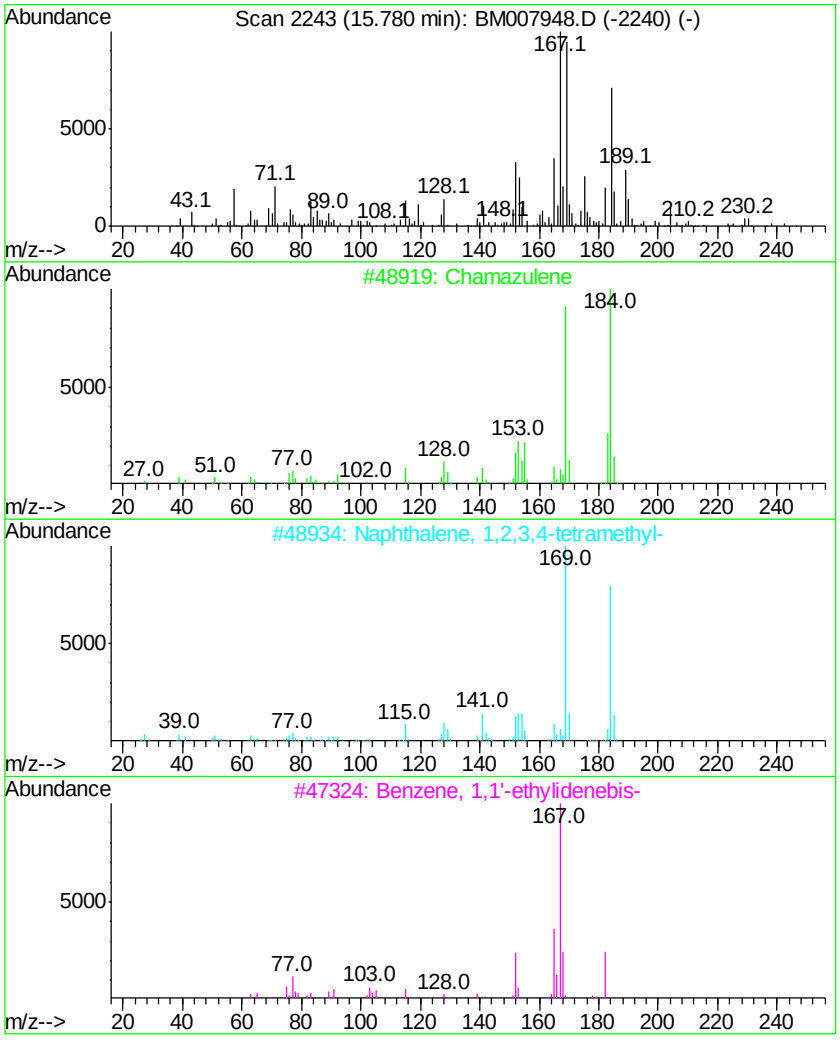
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

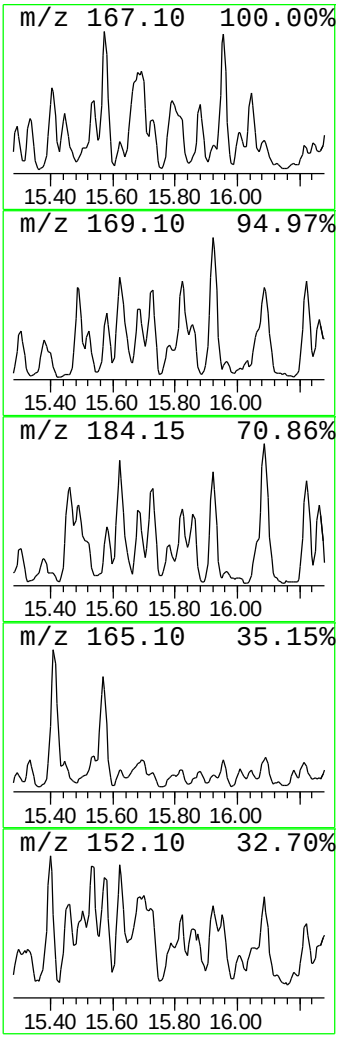
**********

Peak Number 37 unknown-06 Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.78 | 4.59 ng/ul | 442410 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chamazulene | 184 | C14H16 | 000529-05-5 | 41 |
| 2 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 38 |
| 3 | Benzene, 1,1'-ethylidenebis- | 182 | C14H14 | 000612-00-0 | 38 |
| 4 | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16 | 1000152-22-4 | 38 |
| 5 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 35 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

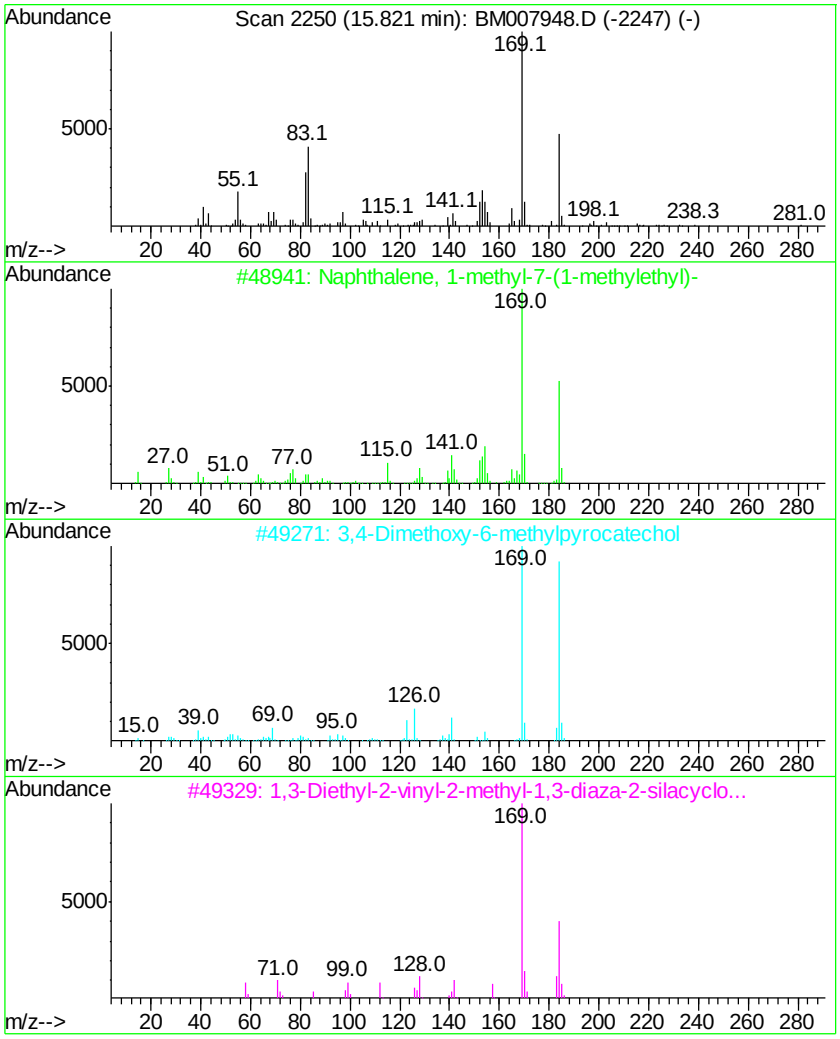
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

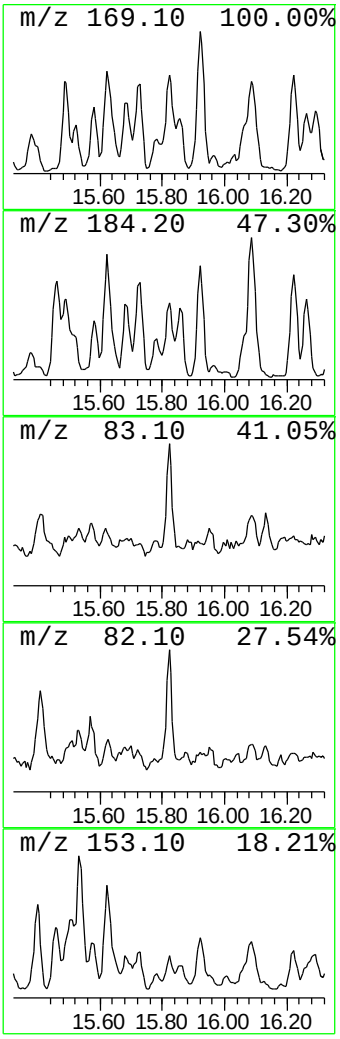
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 38 Naphthalene, 1-methyl-7-(1-... Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.82 | 4.70 ng/ul | 452317 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 70 |
| 2 | 3,4-Dimethoxy-6-methylpyrocatechol | 184 | C9H12O4 | 054826-79-8 | 43 |
| 3 | 1,3-Diethyl-2-vinyl-2-methyl-1,3... | 184 | C9H20N2Si | 051169-45-0 | 43 |
| 4 | 4-tert-Butylphthalonitrile | 184 | C12H12N2 | 032703-80-3 | 43 |
| 5 | 3-Thiopheneacetic acid, 5-acetyl- | 184 | C8H8O3S | 1000337-56-9 | 43 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

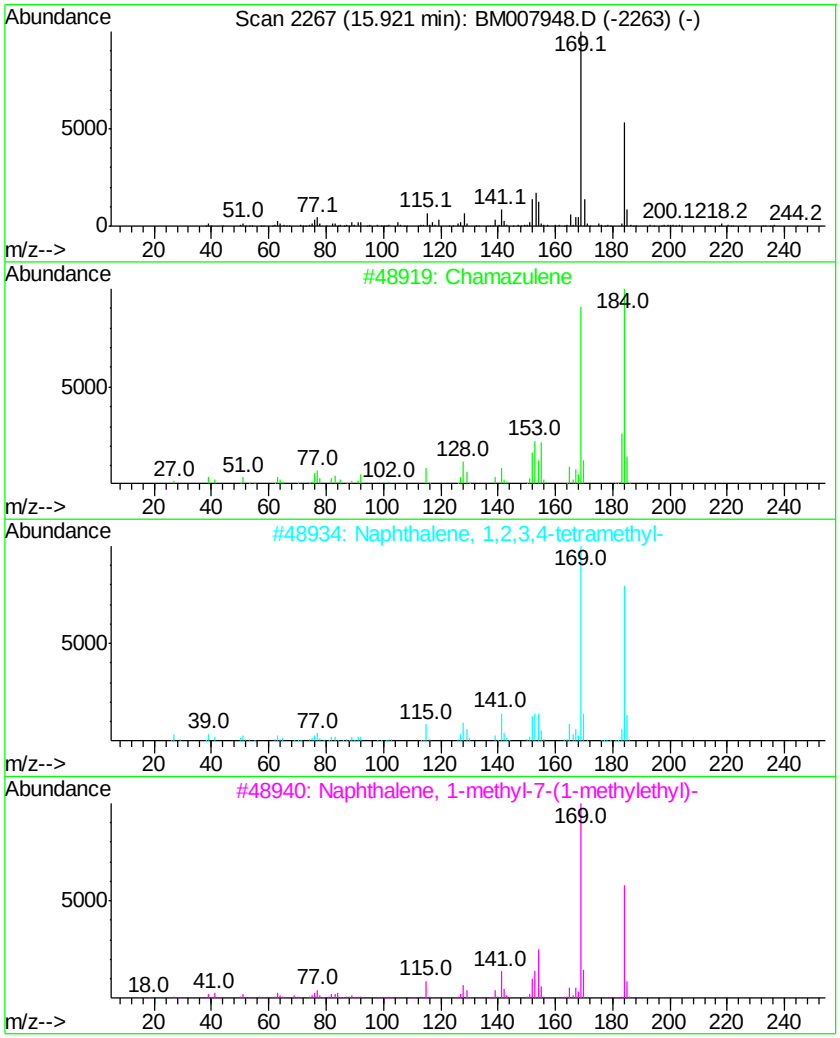
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

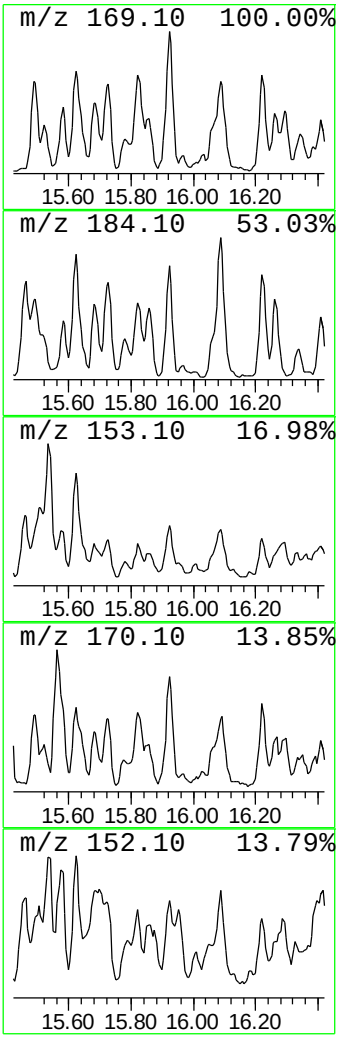
**********

Peak Number 39 Chamazulene Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.92 | 8.15 ng/ul | 784755 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chamazulene | 184 | C14H16 | 000529-05-5 | 89 |
| 2 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 89 |
| 3 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 87 |
| 4 | Naphthalene, 1-(1,1-dimethylethyl)- | 184 | C14H16 | 017085-91-5 | 87 |
| 5 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 80 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

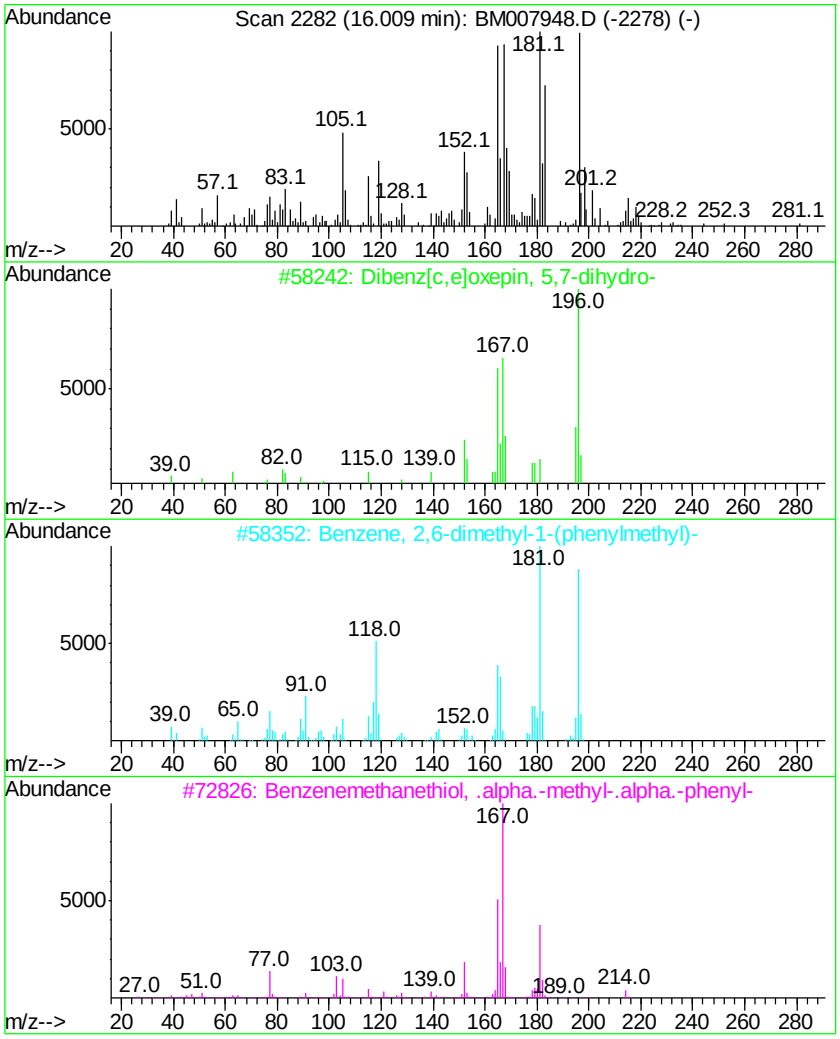
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

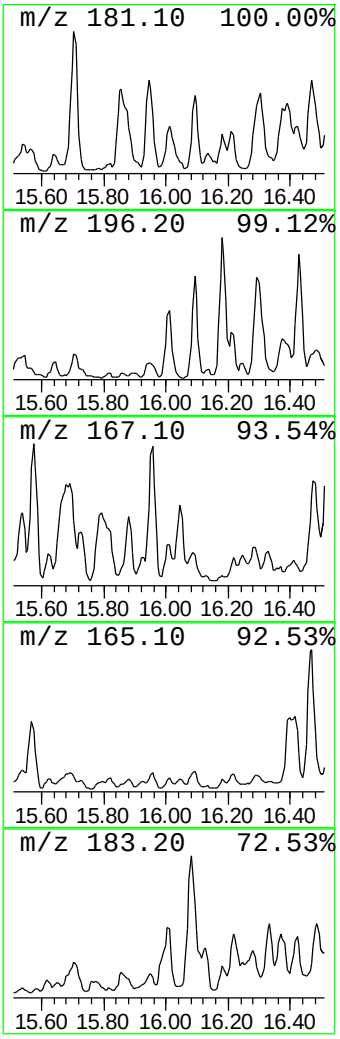
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 40 Dibenz[c,e]oxepin, 5,7-dihy... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.01 | 5.07 ng/ul | 488473 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenz[c,e]oxepin, 5,7-dihydro- | 196 | C14H12O | 001136-22-7 | 83 |
| 2 | Benzene, 2,6-dimethyl-1-(phenylm... | 196 | C15H16 | 028122-29-4 | 51 |
| 3 | Benzenemethanethiol, .alpha.-met... | 214 | C14H14S | 074630-84-5 | 43 |
| 4 | Benzene, 3,5-dimethyl-1-(phenylm... | 196 | C15H16 | 028122-27-2 | 42 |
| 5 | 1,1'-Biphenyl, 2-ethyl- | 182 | C14H14 | 001812-51-7 | 42 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

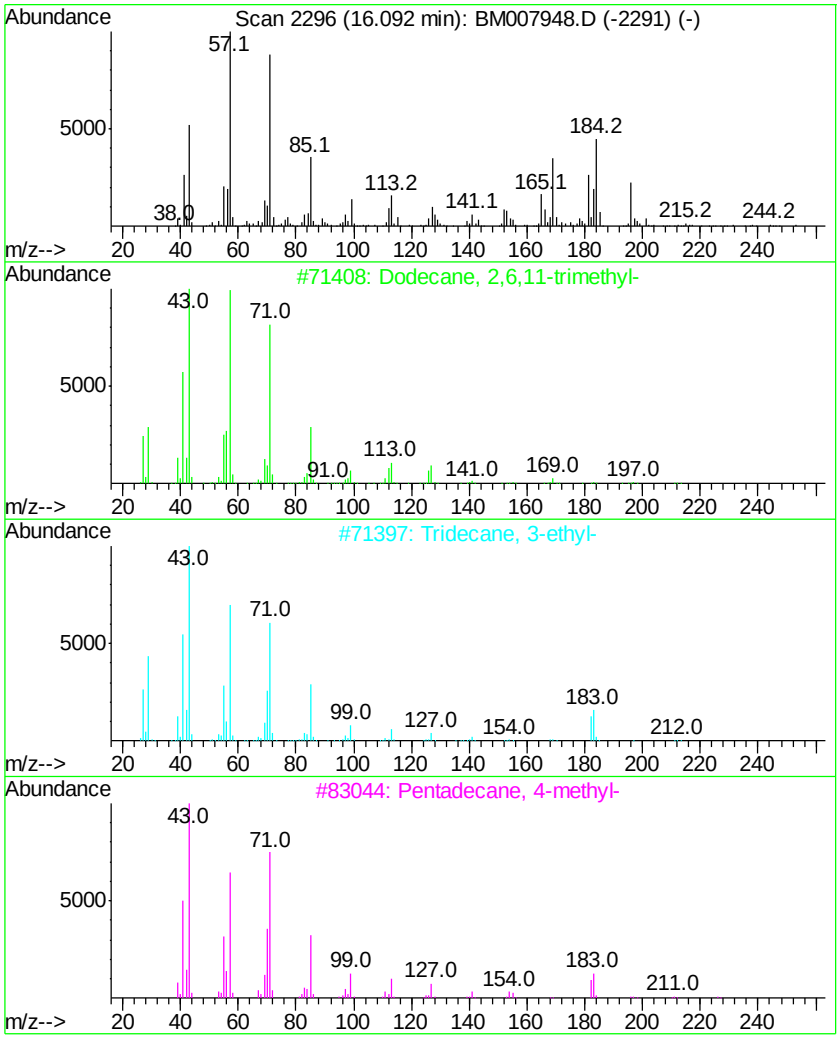
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

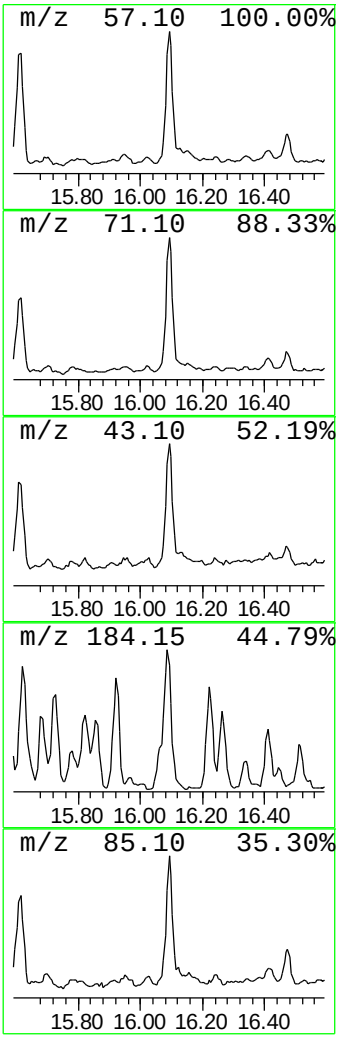
**********

Peak Number 41 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.09 | 22.66 ng/ul | 2183120 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 62 |
| 2 | Tridecane, 3-ethyl- | 212 | C15H32 | 013286-73-2 | 49 |
| 3 | Pentadecane, 4-methyl- | 226 | C16H34 | 002801-87-8 | 46 |
| 4 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 42 |
| 5 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 42 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

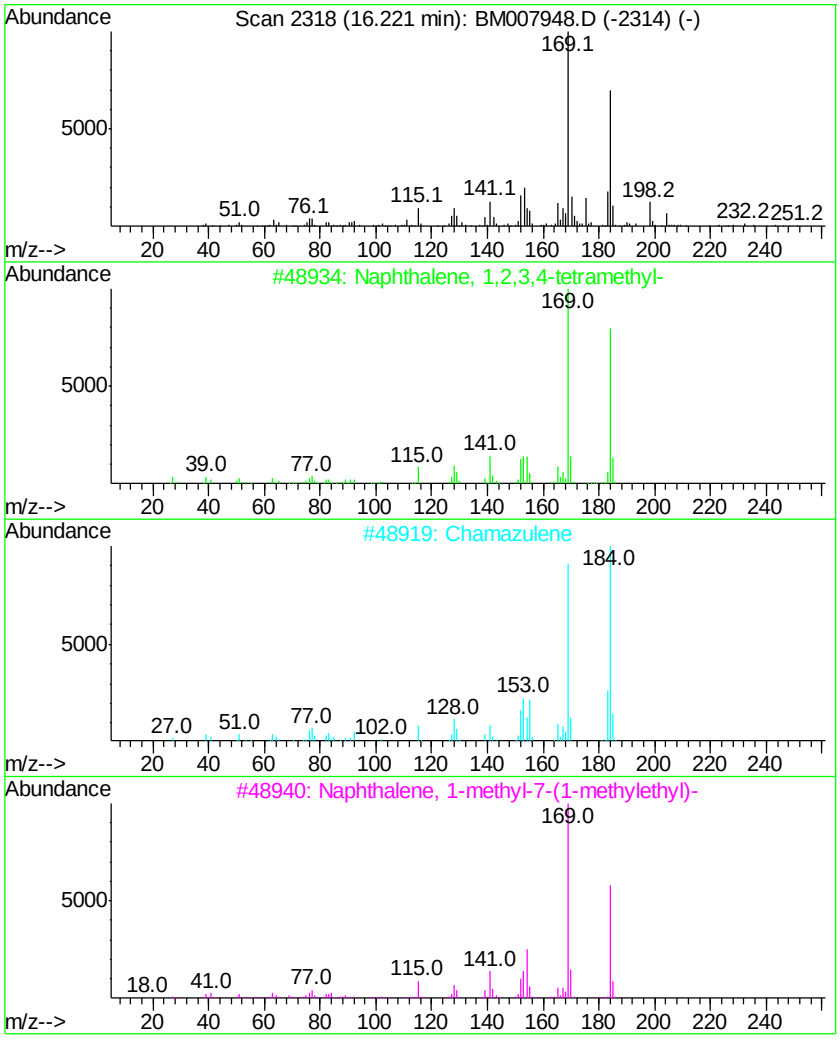
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

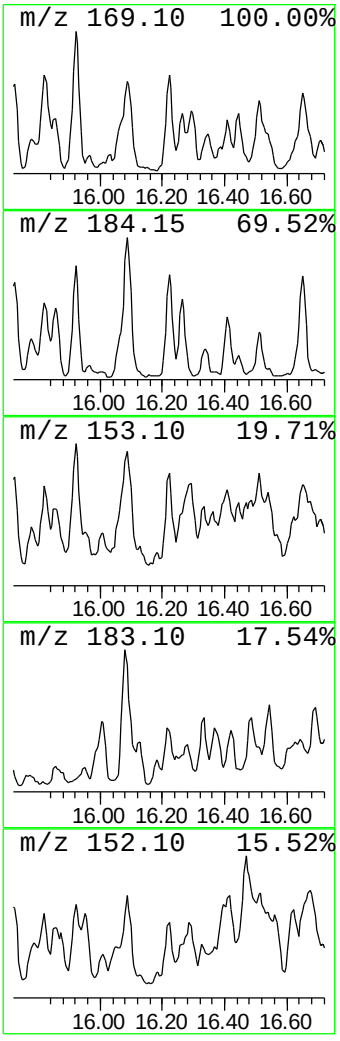
**********

Peak Number 42 Naphthalene, 1,2,3,4-tetram... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.22 | 7.87 ng/ul | 758223 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 95 |
| 2 | Chamazulene | 184 | C14H16 | 000529-05-5 | 93 |
| 3 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 91 |
| 4 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 90 |
| 5 | 1,4,5,8-Tetramethylnaphthalene | 184 | C14H16 | 002717-39-7 | 74 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

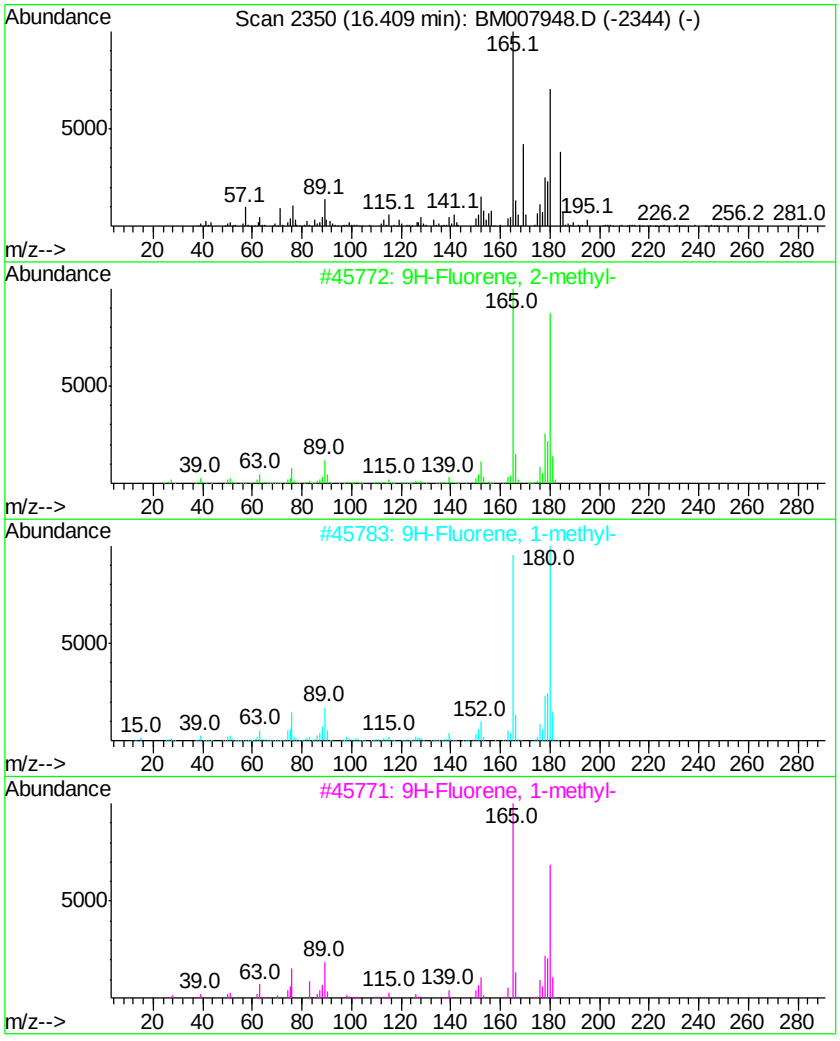
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

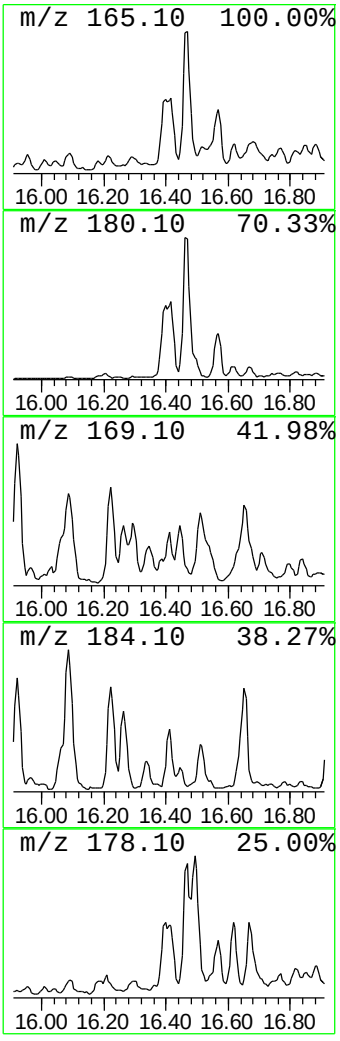
**********

Peak Number 43 9H-Fluorene, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.41 | 14.13 ng/ul | 1361240 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 91 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 70 |
| 3 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 55 |
| 4 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 50 |
| 5 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 49 |



Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

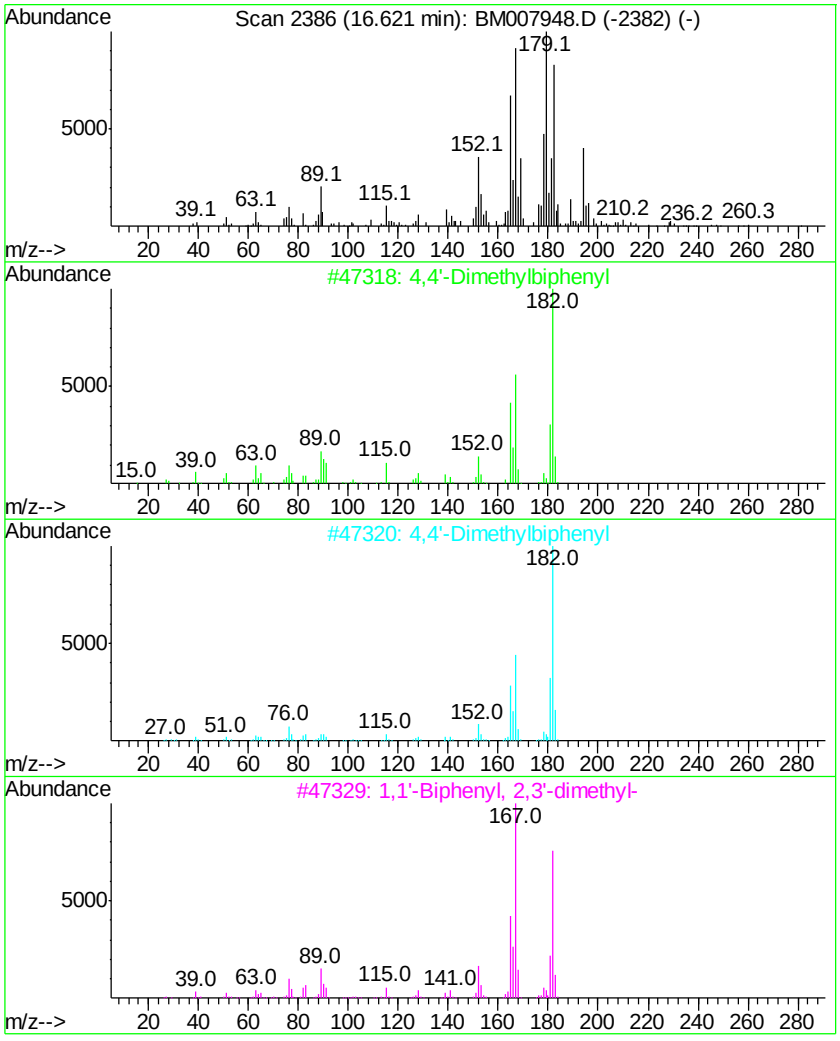
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

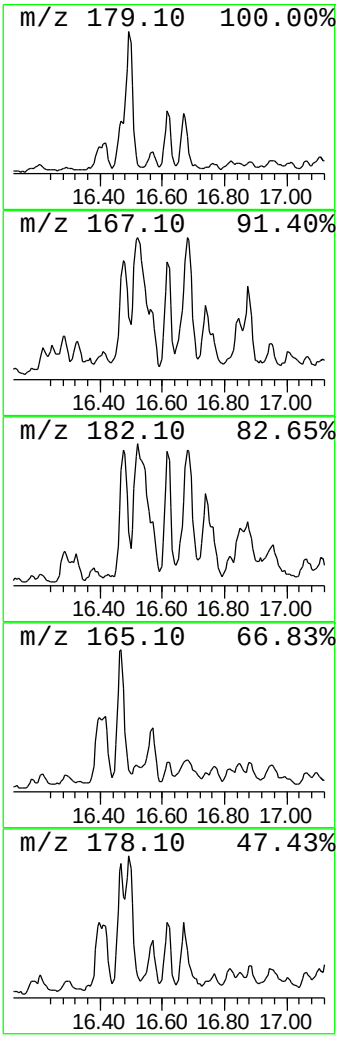
**********

Peak Number 45 4,4'-Dimethylbiphenyl Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.62 | 7.01 ng/ul | 674764 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 78 |
| 2 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 55 |
| 3 | 1,1'-Biphenyl, 2,3'-dimethyl- | 182 | C14H14 | 000611-43-8 | 55 |
| 4 | 1,1'-Biphenyl, 2,4'-dimethyl- | 182 | C14H14 | 000611-61-0 | 50 |
| 5 | 1,1'-Biphenyl, 3,4'-dimethyl- | 182 | C14H14 | 007383-90-6 | 49 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

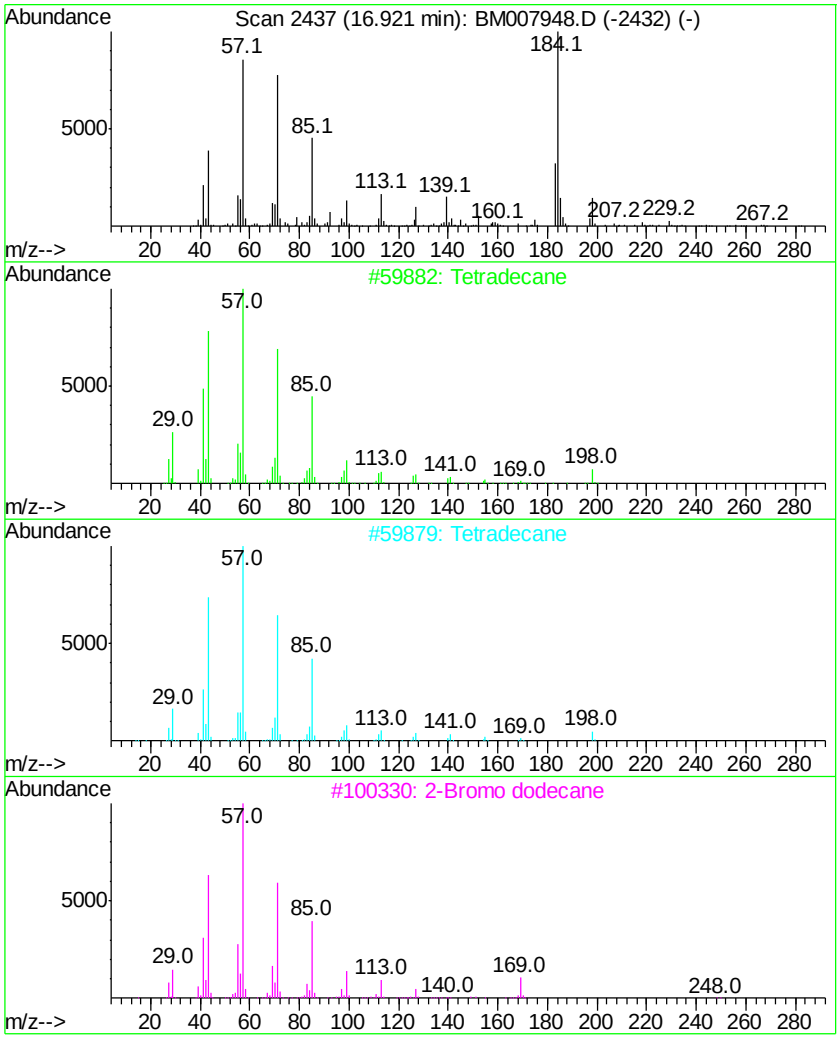
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

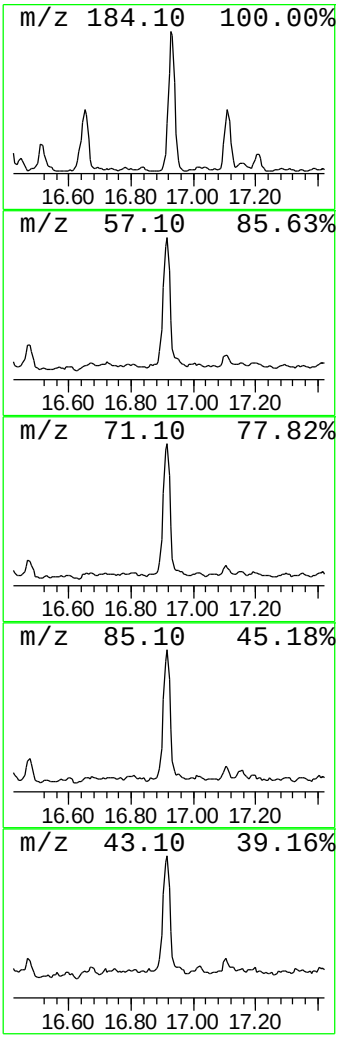
**********

Peak Number 46 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.92 | 27.49 ng/ul | 2648380 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 70 |
| 3 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 58 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 58 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

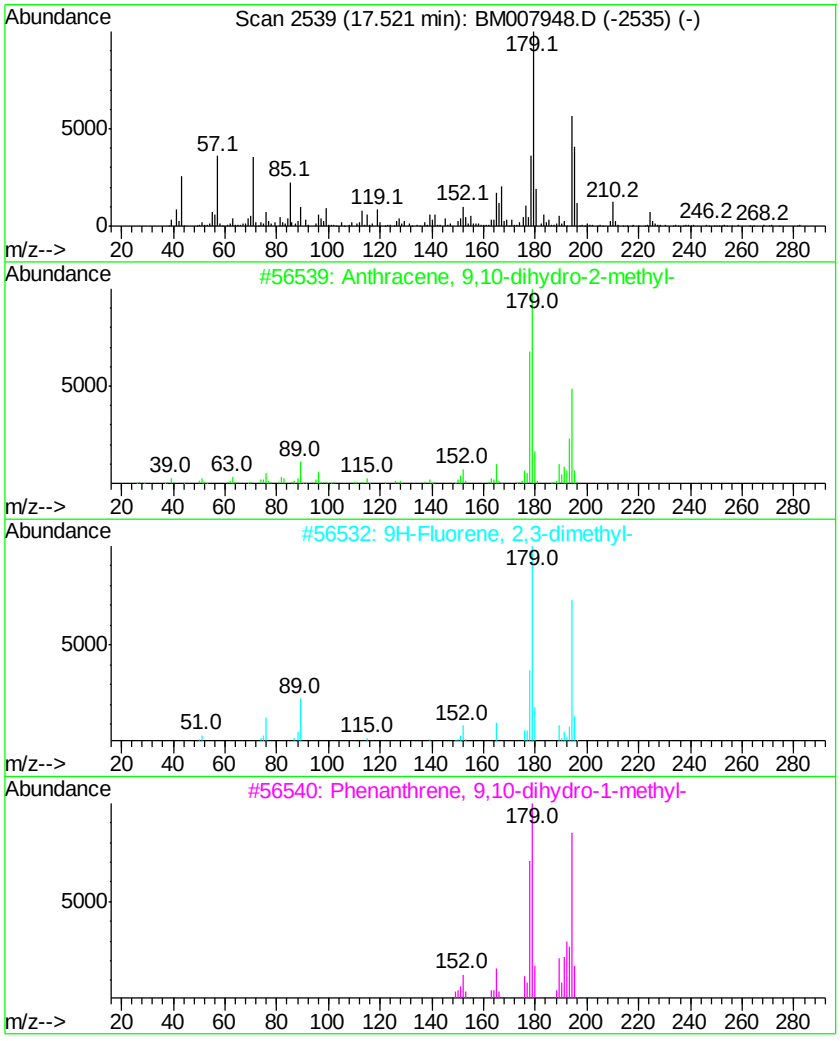
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

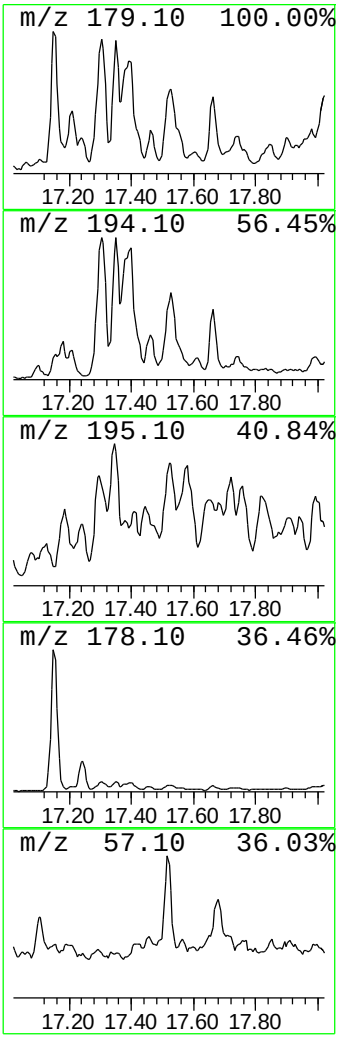
**********

Peak Number 47 Anthracene, 9,10-dihydro-2-... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.52 | 10.91 ng/ul | 1050430 | Phenanthrene-d10 | 17.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9,10-dihydro-2-methyl- | 194 | C15H14 | 000948-67-4 | 64 |
| 2 | 9H-Fluorene, 2,3-dimethyl- | 194 | C15H14 | 004612-63-9 | 60 |
| 3 | Phenanthrene, 9,10-dihydro-1-met... | 194 | C15H14 | 095676-48-5 | 46 |
| 4 | Benzo[h]quinoline | 179 | C13H9N | 000230-27-3 | 42 |
| 5 | Cyclopropylnaphthalen-1-ylmethyl... | 195 | C14H13N | 1000211-15-6 | 42 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\Data\BM111716\
Data File : BM007948.D
Acq On : 17 Nov 2016 20:17
Operator : UM/SJ
Sample : H5622-19 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A4WL6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Benzene, 4-ethyl-... | 8.82 | 7.7 | ng/ul | 364449 | 1 | 7.73 | 941786 | 20.0 |
| unknown-01 | 9.34 | 2.2 | ng/ul | 239664 | 2 | 10.50 | 2158750 | 20.0 |
| trans-4a-Methyl-d... | 9.68 | 2.2 | ng/ul | 241281 | 2 | 10.50 | 2158750 | 20.0 |
| 1H-Indene, 2,3-di... | 9.75 | 4.5 | ng/ul | 486158 | 2 | 10.50 | 2158750 | 20.0 |
| 1-Phenyl-1-butene | 9.90 | 9.5 | ng/ul | 1022040 | 2 | 10.50 | 2158750 | 20.0 |
| unknown-02 | 10.41 | 7.2 | ng/ul | 776812 | 2 | 10.50 | 2158750 | 20.0 |
| (DEL) Alkane: Cyc... | 10.98 | 2.4 | ng/ul | 253953 | 2 | 10.50 | 2158750 | 20.0 |
| unknown-03 | 11.11 | 2.1 | ng/ul | 222025 | 2 | 10.50 | 2158750 | 20.0 |
| Naphthalene, 1,2,... | 11.26 | 2.0 | ng/ul | 219862 | 2 | 10.50 | 2158750 | 20.0 |
| (DEL) Alkane: Str... | 11.33 | 2.4 | ng/ul | 257388 | 2 | 10.50 | 2158750 | 20.0 |
| 1H-Indene, 2,3-di... | 11.41 | 4.4 | ng/ul | 476558 | 2 | 10.50 | 2158750 | 20.0 |
| (DEL) Alkane: Str... | 11.52 | 6.0 | ng/ul | 650791 | 2 | 10.50 | 2158750 | 20.0 |
| 1H-Indene, 2,3-di... | 11.60 | 4.7 | ng/ul | 508350 | 2 | 10.50 | 2158750 | 20.0 |
| Benzene, 4-(2-but... | 12.47 | 2.9 | ng/ul | 484258 | 3 | 14.36 | 3306980 | 20.0 |
| (DEL) Alkane: Str... | 12.88 | 8.4 | ng/ul | 1394310 | 3 | 14.36 | 3306980 | 20.0 |
| unknown-04 | 13.15 | 2.1 | ng/ul | 349504 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 1-et... | 13.39 | 19.9 | ng/ul | 3292540 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 2,6-... | 13.53 | 25.0 | ng/ul | 4126540 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 1,3-... | 13.67 | 26.4 | ng/ul | 4372180 | 3 | 14.36 | 3306980 | 20.0 |
| (DEL) Alkane: Str... | 13.83 | 4.9 | ng/ul | 807452 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 1,7-... | 13.92 | 9.7 | ng/ul | 1602140 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 2-(1... | 14.49 | 2.5 | ng/ul | 407939 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 1,4,... | 14.57 | 23.3 | ng/ul | 3858990 | 3 | 14.36 | 3306980 | 20.0 |
| Naphthalene, 2,3,... | 14.65 | 4.9 | ng/ul | 810578 | 3 | 14.36 | 3306980 | 20.0 |
| 4-Methylbenzoylac... | 14.89 | 4.9 | ng/ul | 814146 | 3 | 14.36 | 3306980 | 20.0 |
| unknown-05 | 15.57 | 5.1 | ng/ul | 842293 | 3 | 14.36 | 3306980 | 20.0 |
| [1,1'-Biphenyl]-4... | 15.70 | 5.0 | ng/ul | 831959 | 3 | 14.36 | 3306980 | 20.0 |
| unknown-06 | 15.78 | 4.6 | ng/ul | 442410 | 4 | 17.11 | 1926490 | 20.0 |
| Naphthalene, 1-me... | 15.82 | 4.7 | ng/ul | 452317 | 4 | 17.11 | 1926490 | 20.0 |
| Chamazulene | 15.92 | 8.2 | ng/ul | 784755 | 4 | 17.11 | 1926490 | 20.0 |
| Dibenz[c,e]oxepin... | 16.01 | 5.1 | ng/ul | 488473 | 4 | 17.11 | 1926490 | 20.0 |
| (DEL) Alkane: Str... | 16.09 | 22.7 | ng/ul | 2183120 | 4 | 17.11 | 1926490 | 20.0 |
| Naphthalene, 1,2,... | 16.22 | 7.9 | ng/ul | 758223 | 4 | 17.11 | 1926490 | 20.0 |
| 9H-Fluorene, 2-me... | 16.41 | 14.1 | ng/ul | 1361240 | 4 | 17.11 | 1926490 | 20.0 |
| 4,4'-Dimethylbiph... | 16.62 | 7.0 | ng/ul | 674764 | 4 | 17.11 | 1926490 | 20.0 |
| (DEL) Alkane: Str... | 16.92 | 27.5 | ng/ul | 2648380 | 4 | 17.11 | 1926490 | 20.0 |
| Anthracene, 9,10-... | 17.52 | 10.9 | ng/ul | 1050430 | 4 | 17.11 | 1926490 | 20.0 |