LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

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-2016\SOM02.2-EPA-BM121416.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 | 3.934 | 224 | 229 | 242 | rVB | 165890 | 243589 | 5.09% | 0.418% |
| 2 | 4.910 | 387 | 395 | 404 | rBV | 144451 | 224113 | 4.68% | 0.385% |
| 3 | 5.210 | 441 | 446 | 452 | rBV | 100440 | 150659 | 3.15% | 0.259% |
| 4 | 5.340 | 462 | 468 | 480 | rVB | 177991 | 394574 | 8.24% | 0.677% |
| 5 | 5.698 | 520 | 529 | 533 | rBV2 | 151496 | 295779 | 6.18% | 0.508% |
| 6 | 6.410 | 644 | 650 | 663 | rVB3 | 109721 | 228489 | 4.77% | 0.392% |
| 7 | 6.751 | 703 | 708 | 715 | rVB2 | 71970 | 129459 | 2.70% | 0.222% |
| 8 | 7.075 | 749 | 763 | 769 | rBV4 | 71720 | 204551 | 4.27% | 0.351% |
| 9 | 7.175 | 769 | 780 | 785 | rBV5 | 50990 | 142820 | 2.98% | 0.245% |
| 10 | 7.310 | 792 | 803 | 811 | rBV2 | 104374 | 243915 | 5.09% | 0.419% |
| 11 | 7.398 | 811 | 818 | 824 | rVV3 | 119930 | 258122 | 5.39% | 0.443% |
| 12 | 7.486 | 828 | 833 | 840 | rVB4 | 59839 | 123966 | 2.59% | 0.213% |
| 13 | 7.663 | 855 | 863 | 871 | rBV | 388565 | 682835 | 14.26% | 1.172% |
| 14 | 7.957 | 907 | 913 | 921 | rBV2 | 289697 | 637934 | 13.32% | 1.095% |
| 15 | 8.116 | 934 | 940 | 947 | rVB | 324272 | 555310 | 11.59% | 0.953% |
| 16 | 8.192 | 947 | 953 | 959 | rVB3 | 75384 | 136631 | 2.85% | 0.234% |
| 17 | 8.316 | 962 | 974 | 982 | rBV3 | 192990 | 395483 | 8.26% | 0.679% |
| 18 | 8.451 | 990 | 997 | 1004 | rBV | 432399 | 804189 | 16.79% | 1.380% |
| 19 | 8.622 | 1015 | 1026 | 1031 | rBV4 | 116284 | 265117 | 5.54% | 0.455% |
| 20 | 8.680 | 1031 | 1036 | 1040 | rVV2 | 76861 | 118341 | 2.47% | 0.203% |
| 21 | 8.728 | 1040 | 1044 | 1048 | rVV3 | 114689 | 171592 | 3.58% | 0.294% |
| 22 | 8.775 | 1048 | 1052 | 1058 | rVB3 | 166535 | 270181 | 5.64% | 0.464% |
| 23 | 9.075 | 1098 | 1103 | 1117 | rBV2 | 554111 | 1263121 | 26.37% | 2.168% |
| 24 | 9.186 | 1117 | 1122 | 1133 | rVB | 397614 | 734878 | 15.34% | 1.261% |
| 25 | 9.428 | 1158 | 1163 | 1175 | rVB2 | 345161 | 592679 | 12.38% | 1.017% |
| 26 | 9.569 | 1175 | 1187 | 1192 | rBV2 | 169828 | 440261 | 9.19% | 0.755% |
| 27 | 9.633 | 1192 | 1198 | 1200 | rVV | 497474 | 820221 | 17.13% | 1.408% |
| 28 | 9.663 | 1200 | 1203 | 1213 | rVV2 | 523214 | 1072368 | 22.39% | 1.840% |
| 29 | 9.745 | 1213 | 1217 | 1222 | rVV | 141372 | 228227 | 4.77% | 0.392% |
| 30 | 9.845 | 1222 | 1234 | 1237 | rVV7 | 64431 | 231426 | 4.83% | 0.397% |
| 31 | 9.904 | 1237 | 1244 | 1247 | rVV | 1099786 | 2196110 | 45.85% | 3.769% |
| 32 | 9.939 | 1247 | 1250 | 1260 | rVV | 1244607 | 1967292 | 41.08% | 3.376% |
| 33 | 10.092 | 1270 | 1276 | 1281 | rVV4 | 359328 | 634792 | 13.25% | 1.089% |
| 34 | 10.151 | 1281 | 1286 | 1292 | rVB4 | 88439 | 168102 | 3.51% | 0.288% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

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-2016\SOM02.2-EPA-BM121416.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.269 | 1300 | 1306 | 1312 | rBV | 370272 | 755959 | 15.78% | 1.297% |
| 36 | 10.327 | 1312 | 1316 | 1322 | rVV3 | 404147 | 795746 | 16.61% | 1.366% |
| 37 | 10.433 | 1323 | 1334 | 1339 | rVB | 515756 | 1070360 | 22.35% | 1.837% |
| 38 | 10.498 | 1339 | 1345 | 1349 | rBV3 | 103805 | 197287 | 4.12% | 0.339% |
| 39 | 10.592 | 1355 | 1361 | 1371 | rVB | 926837 | 1590398 | 33.21% | 2.729% |
| 40 | 10.680 | 1371 | 1376 | 1378 | rBV | 127234 | 199515 | 4.17% | 0.342% |
| 41 | 10.722 | 1379 | 1383 | 1391 | rVB | 221000 | 393178 | 8.21% | 0.675% |
| 42 | 10.810 | 1391 | 1398 | 1402 | rBV | 558589 | 1040149 | 21.72% | 1.785% |
| 43 | 10.845 | 1402 | 1404 | 1408 | rVB | 208057 | 243574 | 5.09% | 0.418% |
| 44 | 10.898 | 1408 | 1413 | 1419 | rVB2 | 276599 | 492926 | 10.29% | 0.846% |
| 45 | 10.980 | 1419 | 1427 | 1432 | rBV | 1146420 | 1960891 | 40.94% | 3.365% |
| 46 | 11.027 | 1432 | 1435 | 1439 | rBV2 | 336707 | 426523 | 8.91% | 0.732% |
| 47 | 11.116 | 1447 | 1450 | 1456 | rVB4 | 75857 | 125845 | 2.63% | 0.216% |
| 48 | 11.216 | 1457 | 1467 | 1470 | rBV5 | 101172 | 245799 | 5.13% | 0.422% |
| 49 | 11.280 | 1470 | 1478 | 1483 | rBV2 | 2633648 | 4789324 | 100.00% | 8.219% |
| 50 | 11.469 | 1503 | 1510 | 1514 | rBV | 645132 | 1109508 | 23.17% | 1.904% |
| 51 | 11.521 | 1514 | 1519 | 1524 | rVV | 752501 | 1411987 | 29.48% | 2.423% |
| 52 | 11.574 | 1524 | 1528 | 1535 | rVV3 | 224146 | 591559 | 12.35% | 1.015% |
| 53 | 11.645 | 1535 | 1540 | 1545 | rVV | 389750 | 646752 | 13.50% | 1.110% |
| 54 | 11.769 | 1557 | 1561 | 1564 | rVV2 | 116164 | 207547 | 4.33% | 0.356% |
| 55 | 11.804 | 1564 | 1567 | 1570 | rVV3 | 95525 | 154823 | 3.23% | 0.266% |
| 56 | 11.851 | 1570 | 1575 | 1581 | rVB | 730564 | 1119030 | 23.37% | 1.920% |
| 57 | 11.969 | 1589 | 1595 | 1597 | rBV2 | 153319 | 272326 | 5.69% | 0.467% |
| 58 | 12.016 | 1600 | 1603 | 1607 | rVV2 | 253848 | 378101 | 7.89% | 0.649% |
| 59 | 12.057 | 1607 | 1610 | 1614 | rVV3 | 124563 | 210143 | 4.39% | 0.361% |
| 60 | 12.104 | 1614 | 1618 | 1623 | rVV4 | 191728 | 344381 | 7.19% | 0.591% |
| 61 | 12.180 | 1623 | 1631 | 1636 | rVV4 | 461041 | 1213209 | 25.33% | 2.082% |
| 62 | 12.257 | 1639 | 1644 | 1650 | rVV | 515515 | 951537 | 19.87% | 1.633% |
| 63 | 12.333 | 1653 | 1657 | 1662 | rVB3 | 258039 | 469706 | 9.81% | 0.806% |
| 64 | 12.445 | 1671 | 1676 | 1680 | rBV | 308470 | 460149 | 9.61% | 0.790% |
| 65 | 12.492 | 1680 | 1684 | 1692 | rVV3 | 884247 | 1669822 | 34.87% | 2.865% |
| 66 | 12.557 | 1693 | 1695 | 1698 | rVV2 | 208165 | 279342 | 5.83% | 0.479% |
| 67 | 12.592 | 1698 | 1701 | 1705 | rVB2 | 157495 | 207927 | 4.34% | 0.357% |
| 68 | 12.645 | 1705 | 1710 | 1715 | rBV6 | 230538 | 579125 | 12.09% | 0.994% |
| 69 | 12.710 | 1716 | 1721 | 1726 | rVV4 | 373549 | 759424 | 15.86% | 1.303% |
| 70 | 12.763 | 1726 | 1730 | 1734 | rVV3 | 179045 | 272257 | 5.68% | 0.467% |
| 71 | 12.804 | 1734 | 1737 | 1746 | rVB3 | 197830 | 403354 | 8.42% | 0.692% |

LSC Area Percent Report

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Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

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-2016\SOM02.2-EPA-BM121416.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.892 | 1746 | 1752 | 1760 | rVB8 | 77228 | 170439 | 3.56% | 0.292% |
| 73 | 12.980 | 1762 | 1767 | 1769 | rBV | 221114 | 340971 | 7.12% | 0.585% |
| 74 | 13.174 | 1797 | 1800 | 1809 | rVB6 | 86728 | 165778 | 3.46% | 0.284% |
| 75 | 13.286 | 1815 | 1819 | 1825 | rVB3 | 129612 | 220969 | 4.61% | 0.379% |
| 76 | 13.451 | 1842 | 1847 | 1850 | rBV3 | 306058 | 547159 | 11.42% | 0.939% |
| 77 | 13.486 | 1850 | 1853 | 1860 | rVV6 | 296901 | 651112 | 13.60% | 1.117% |
| 78 | 13.545 | 1860 | 1863 | 1865 | rVV3 | 102583 | 152322 | 3.18% | 0.261% |
| 79 | 13.574 | 1865 | 1868 | 1872 | rVV4 | 198737 | 307867 | 6.43% | 0.528% |
| 80 | 13.639 | 1876 | 1879 | 1881 | rVV3 | 120733 | 195809 | 4.09% | 0.336% |
| 81 | 13.680 | 1882 | 1886 | 1898 | rVB5 | 303036 | 720926 | 15.05% | 1.237% |
| 82 | 13.804 | 1898 | 1907 | 1913 | rBV4 | 276428 | 559596 | 11.68% | 0.960% |
| 83 | 13.886 | 1917 | 1921 | 1926 | rVV | 176066 | 264137 | 5.52% | 0.453% |
| 84 | 13.933 | 1926 | 1929 | 1935 | rVB4 | 87978 | 165508 | 3.46% | 0.284% |
| 85 | 14.192 | 1967 | 1973 | 1979 | rBV4 | 96837 | 262164 | 5.47% | 0.450% |
| 86 | 14.304 | 1986 | 1992 | 1996 | rBV | 784577 | 1185316 | 24.75% | 2.034% |
| 87 | 14.351 | 1996 | 2000 | 2004 | rVV4 | 107423 | 172621 | 3.60% | 0.296% |
| 88 | 14.404 | 2005 | 2009 | 2013 | rBV | 153699 | 214807 | 4.49% | 0.369% |
| 89 | 14.515 | 2020 | 2028 | 2033 | rVB3 | 222673 | 514022 | 10.73% | 0.882% |
| 90 | 14.627 | 2043 | 2047 | 2050 | rBV2 | 92465 | 161645 | 3.38% | 0.277% |
| 91 | 14.698 | 2055 | 2059 | 2064 | rVB2 | 163663 | 249578 | 5.21% | 0.428% |
| 92 | 14.857 | 2082 | 2086 | 2092 | rVB2 | 69323 | 148494 | 3.10% | 0.255% |
| 93 | 14.980 | 2104 | 2107 | 2116 | rVB4 | 64869 | 125880 | 2.63% | 0.216% |
| 94 | 15.304 | 2158 | 2162 | 2169 | rVB2 | 90575 | 142152 | 2.97% | 0.244% |
| 95 | 17.056 | 2454 | 2460 | 2468 | rBV | 988921 | 1443821 | 30.15% | 2.478% |
| 96 | 17.162 | 2473 | 2478 | 2487 | rVB2 | 78320 | 127971 | 2.67% | 0.220% |
| 97 | 19.462 | 2865 | 2869 | 2877 | rBV | 85204 | 131779 | 2.75% | 0.226% |
| 98 | 21.256 | 3169 | 3174 | 3185 | rBV | 1393114 | 1944421 | 40.60% | 3.337% |
| 99 | 22.080 | 3311 | 3314 | 3320 | rVB2 | 127120 | 147106 | 3.07% | 0.252% |
| 100 | 23.485 | 3547 | 3553 | 3564 | rVB | 838568 | 1773269 | 37.03% | 3.043% |

Sum of corrected areas: 58274248

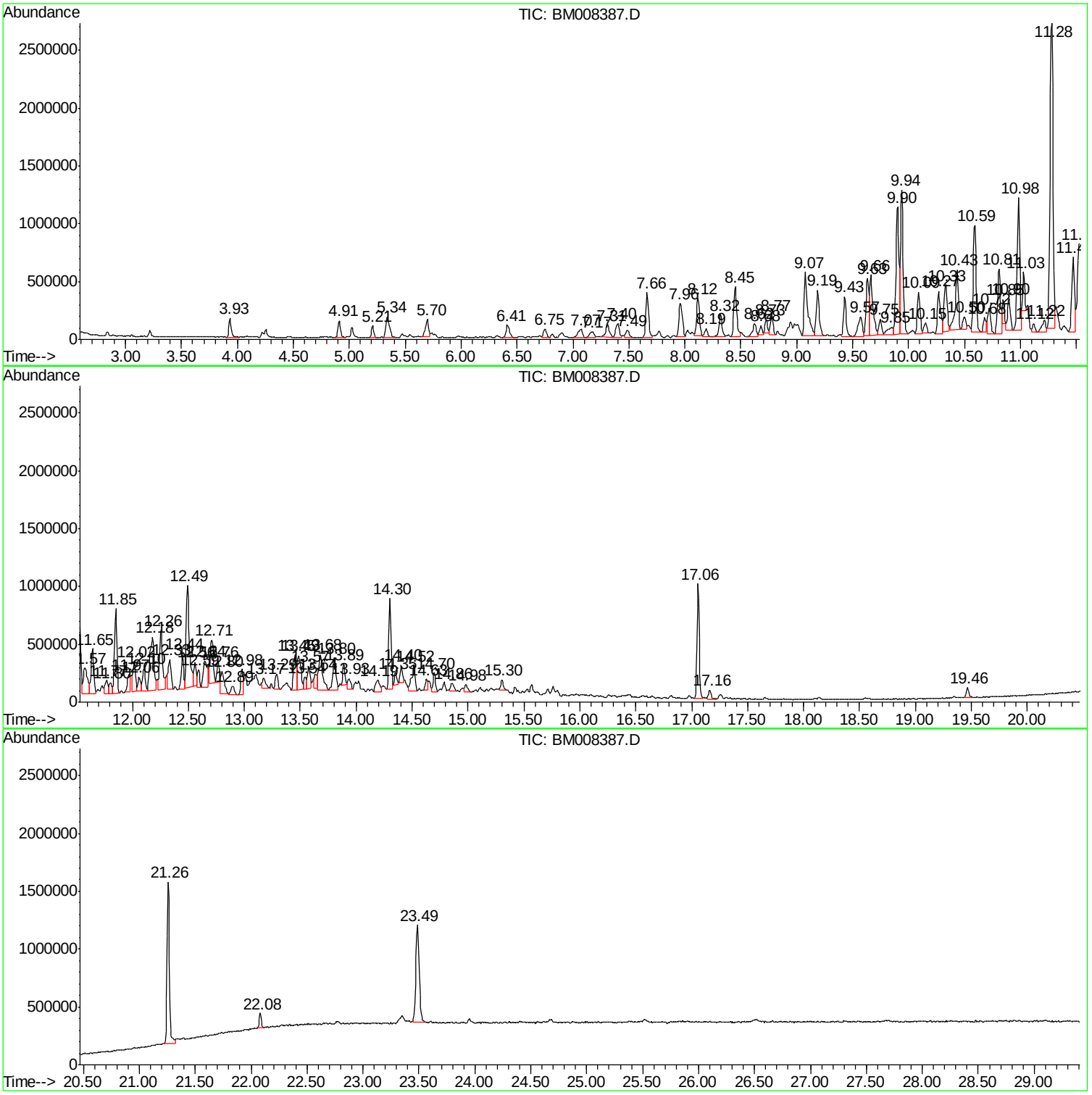
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

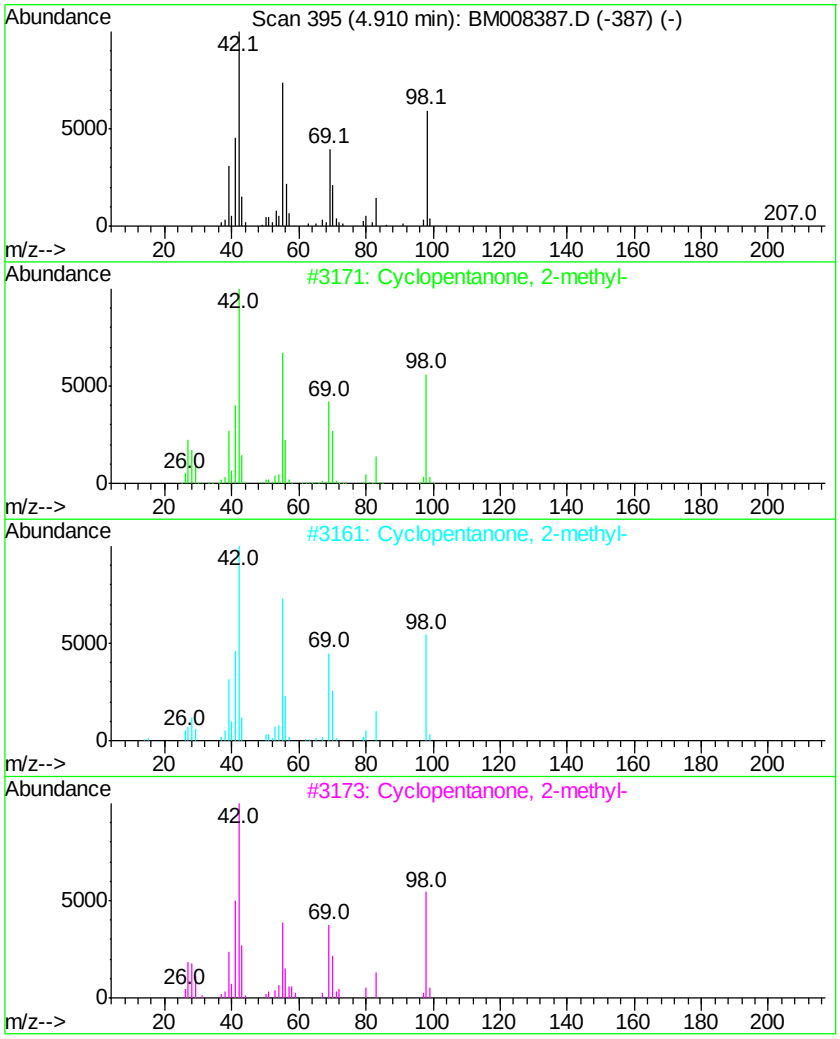
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

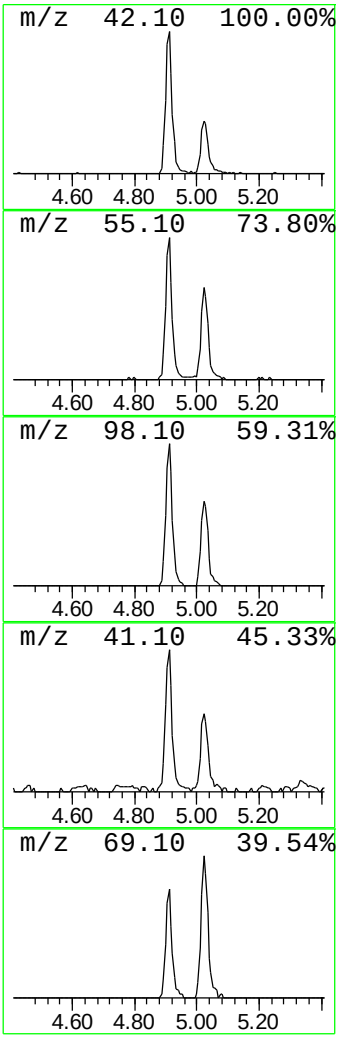
**********

Peak Number 2 Cyclopentanone, 2-methyl- Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.91 | 6.56 ng/ul | 224113 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentanone, 2-methyl- | 98 | C6H10O | 001120-72-5 | 95 |
| 2 | Cyclopentanone, 2-methyl- | 98 | C6H10O | 001120-72-5 | 91 |
| 3 | Cyclopentanone, 2-methyl- | 98 | C6H10O | 001120-72-5 | 83 |
| 4 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 74 |
| 5 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 72 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

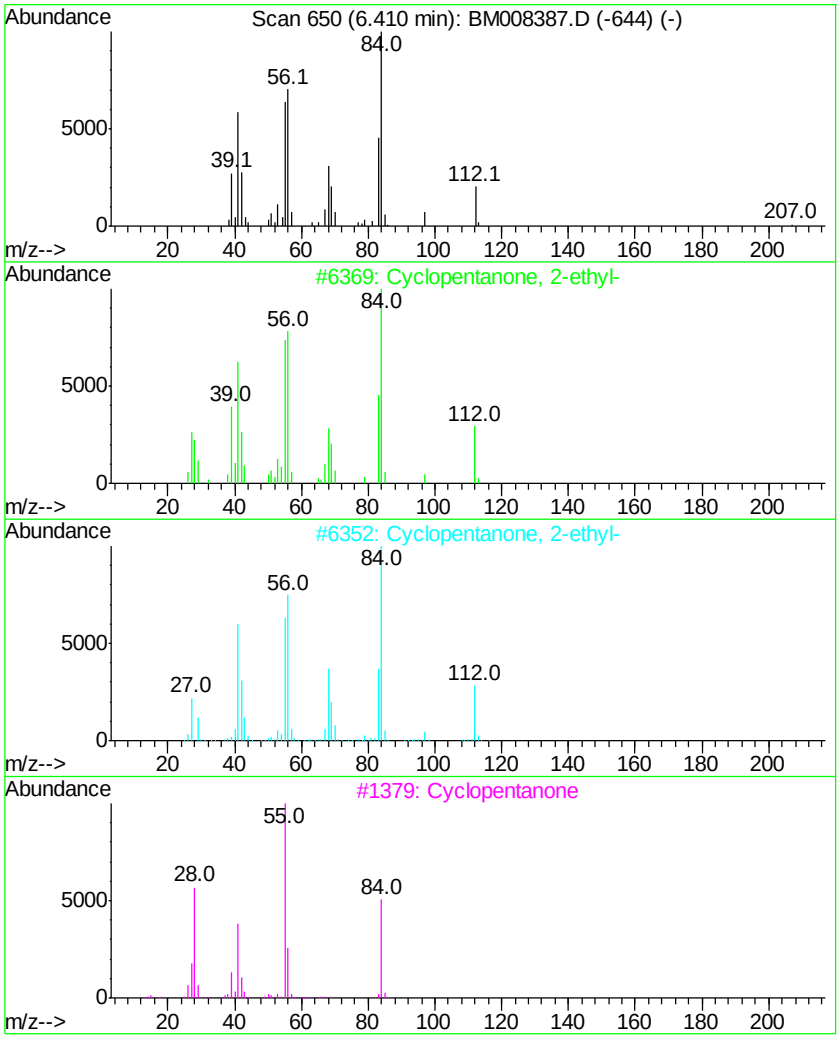
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

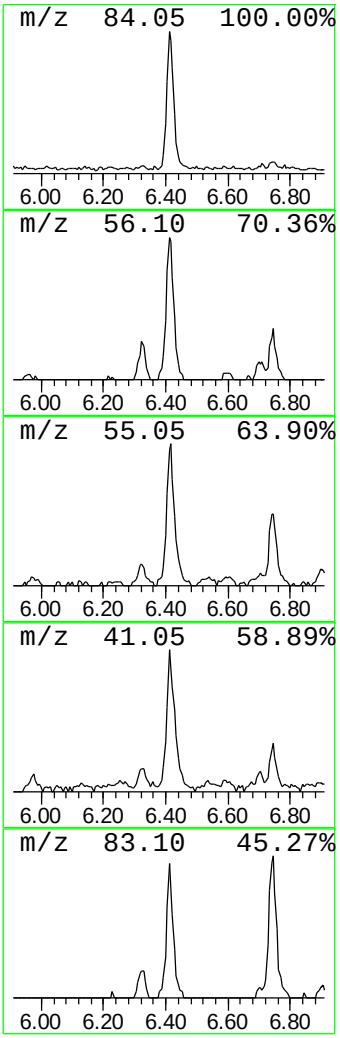
**********

Peak Number 6 Cyclopentanone, 2-ethyl- Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.41 | 6.69 ng/ul | 228489 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentanone, 2-ethyl- | 112 | C7H12O | 004971-18-0 | 94 |
| 2 | Cyclopentanone, 2-ethyl- | 112 | C7H12O | 004971-18-0 | 93 |
| 3 | Cyclopentanone | 84 | C5H8O | 000120-92-3 | 47 |
| 4 | Octane, 2-chloro- | 148 | C8H17Cl | 000628-61-5 | 47 |
| 5 | 1-Pentene, 3-ethyl-2-methyl- | 112 | C8H16 | 019780-66-6 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

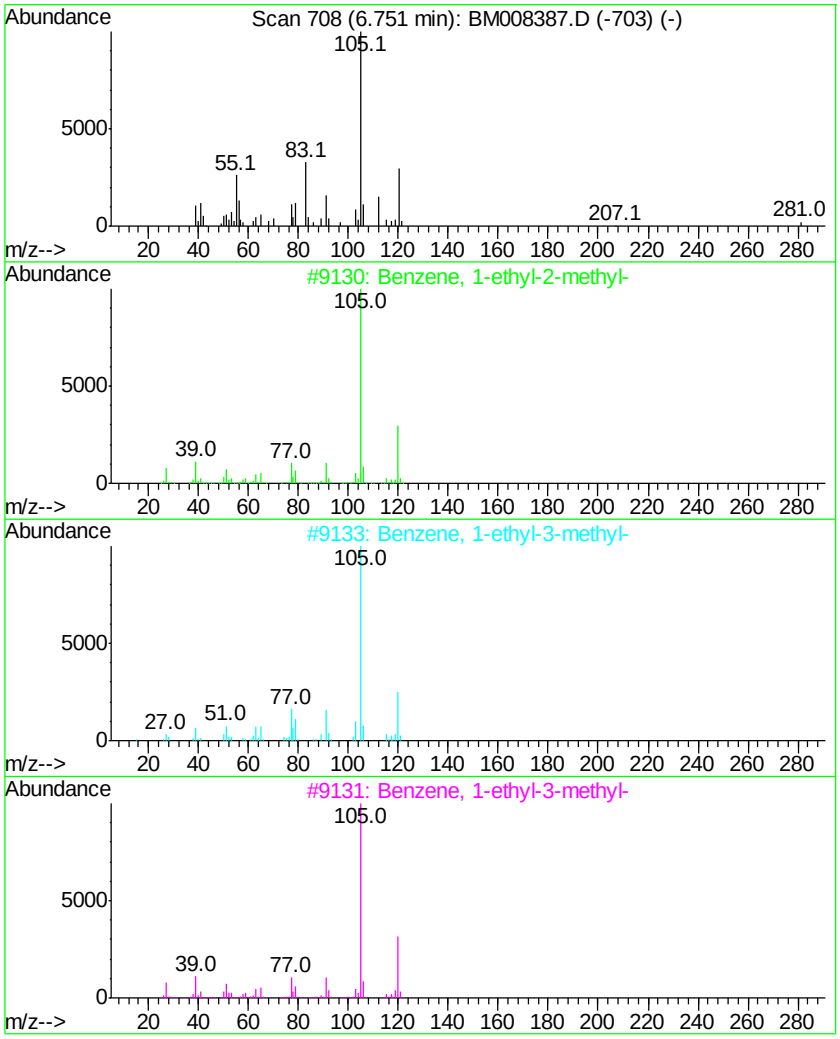
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

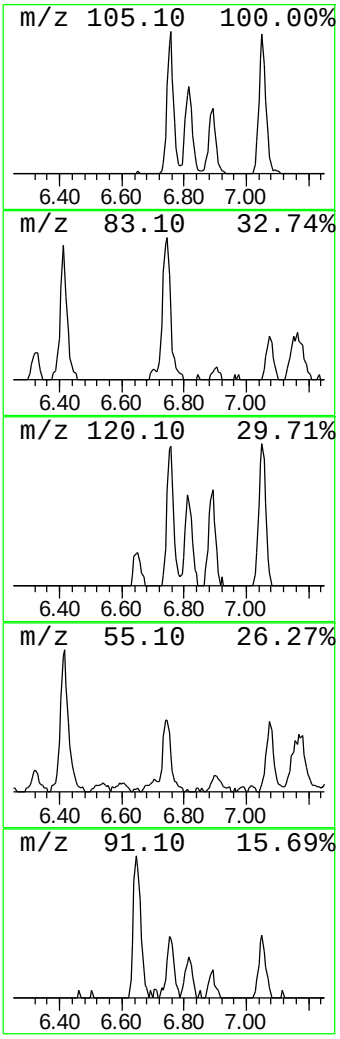
**********

Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.75 | 3.79 ng/ul | 129459 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 70 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 70 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 70 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 70 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 70 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

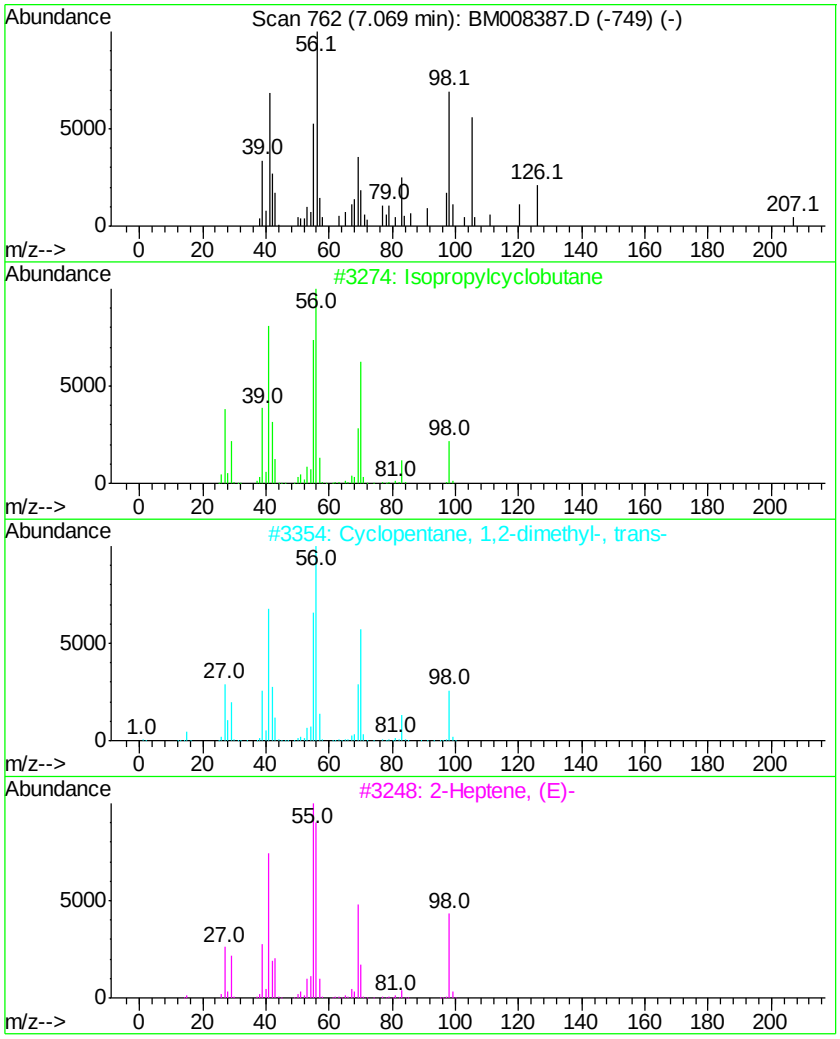
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

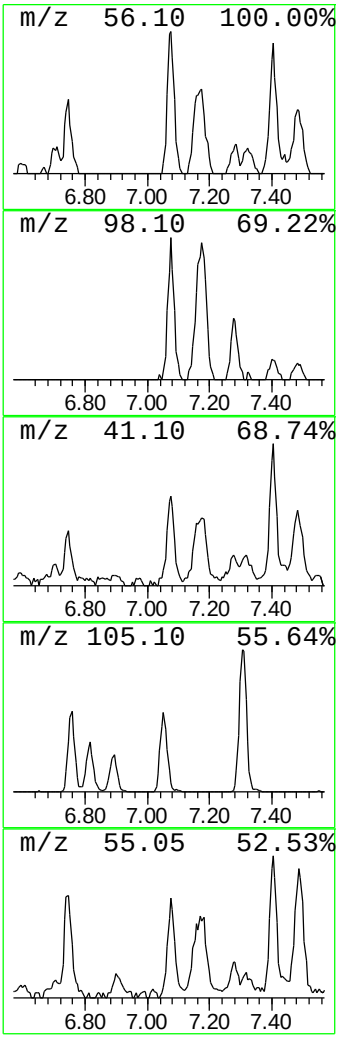
**********

Peak Number 8 (DEL) Alkane: Cyclic7.07 Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.07 | 5.99 ng/ul | 204551 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropylcyclobutane | 98 | C7H14 | 000872-56-0 | 58 |
| 2 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 58 |
| 3 | 2-Heptene, (E)- | 98 | C7H14 | 014686-13-6 | 53 |
| 4 | Cyclohexanone, 2-ethyl- | 126 | C8H14O | 004423-94-3 | 49 |
| 5 | Cycloheptanone, 2-methyl- | 126 | C8H14O | 000932-56-9 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

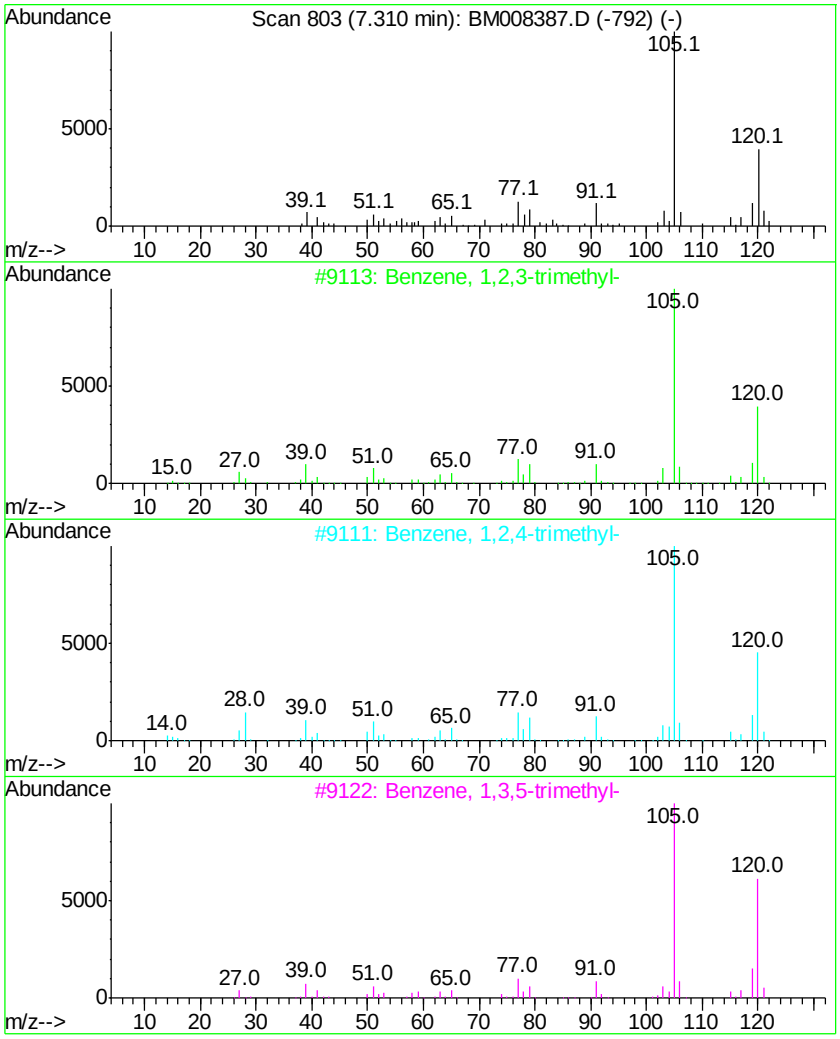
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

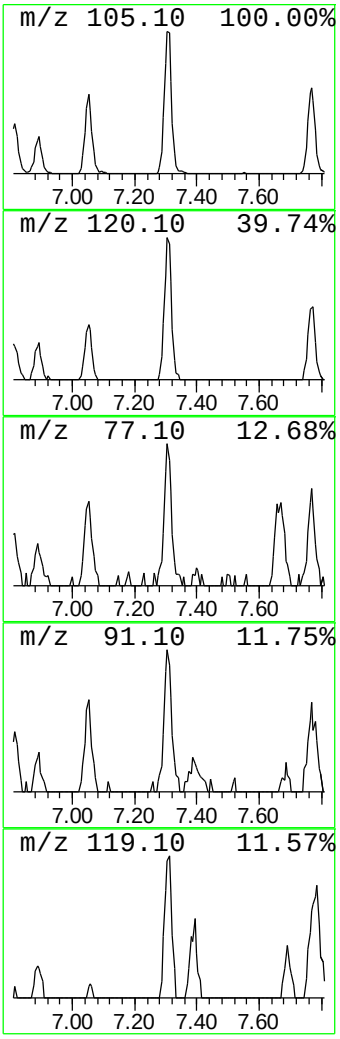
**********

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.31 | 7.14 ng/ul | 243915 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 3 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 90 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 90 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

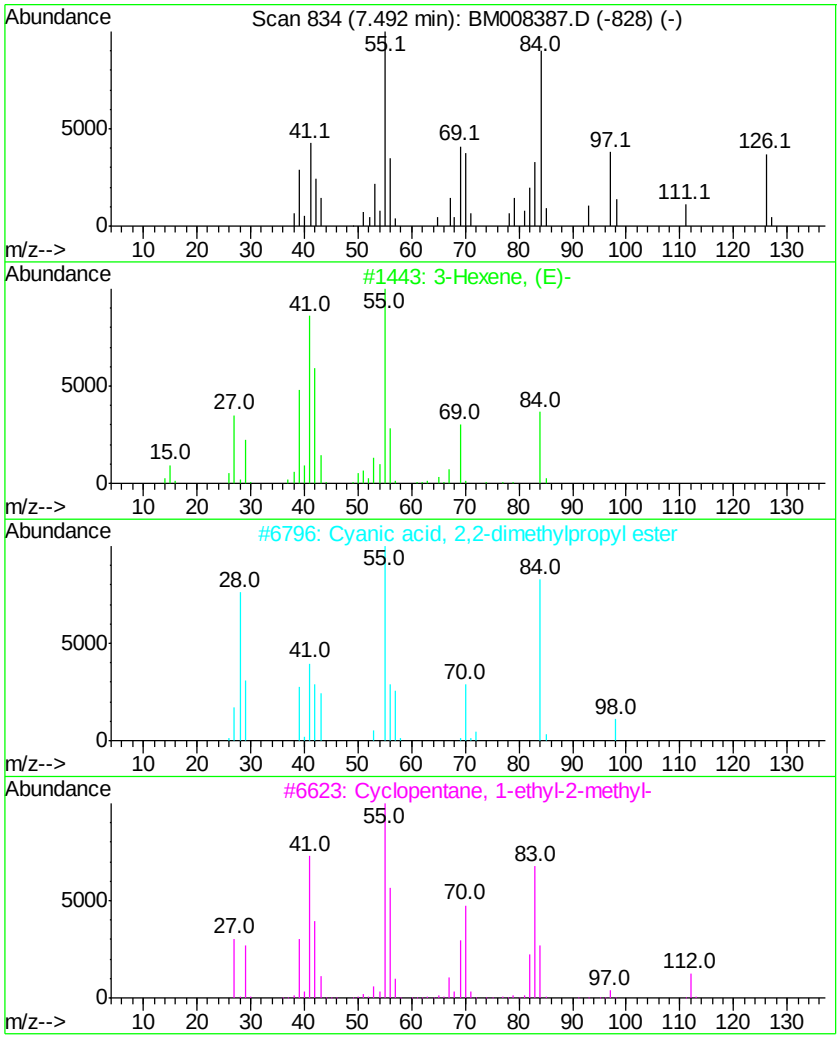
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

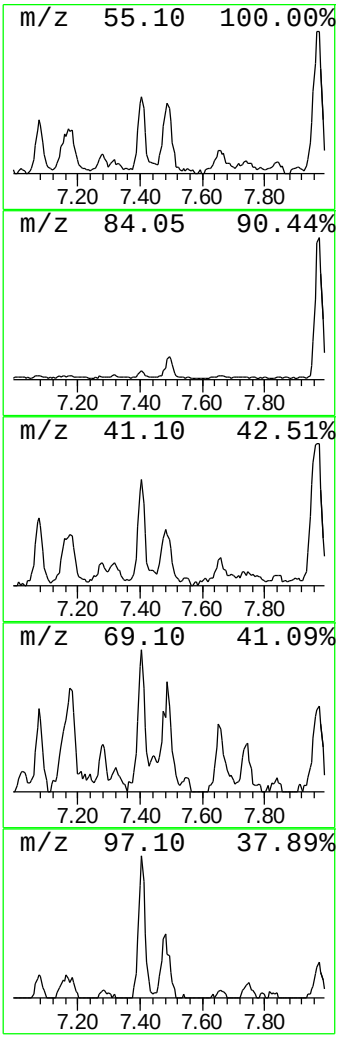
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Cyclic7.49 Concentration Rank 63

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.49 | 3.63 ng/ul | 123966 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Hexene, (E)- | 84 | C6H12 | 013269-52-8 | 55 |
| 2 | Cyanic acid, 2,2-dimethylpropyl ... | 113 | C6H11NO | 001459-44-5 | 50 |
| 3 | Cyclopentane, 1-ethyl-2-methyl- | 112 | C8H16 | 003726-46-3 | 47 |
| 4 | Cyclopentane, 1-ethyl-2-methyl-,... | 112 | C8H16 | 000930-89-2 | 47 |
| 5 | 2-Nonene, (E)- | 126 | C9H18 | 006434-78-2 | 43 |



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Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

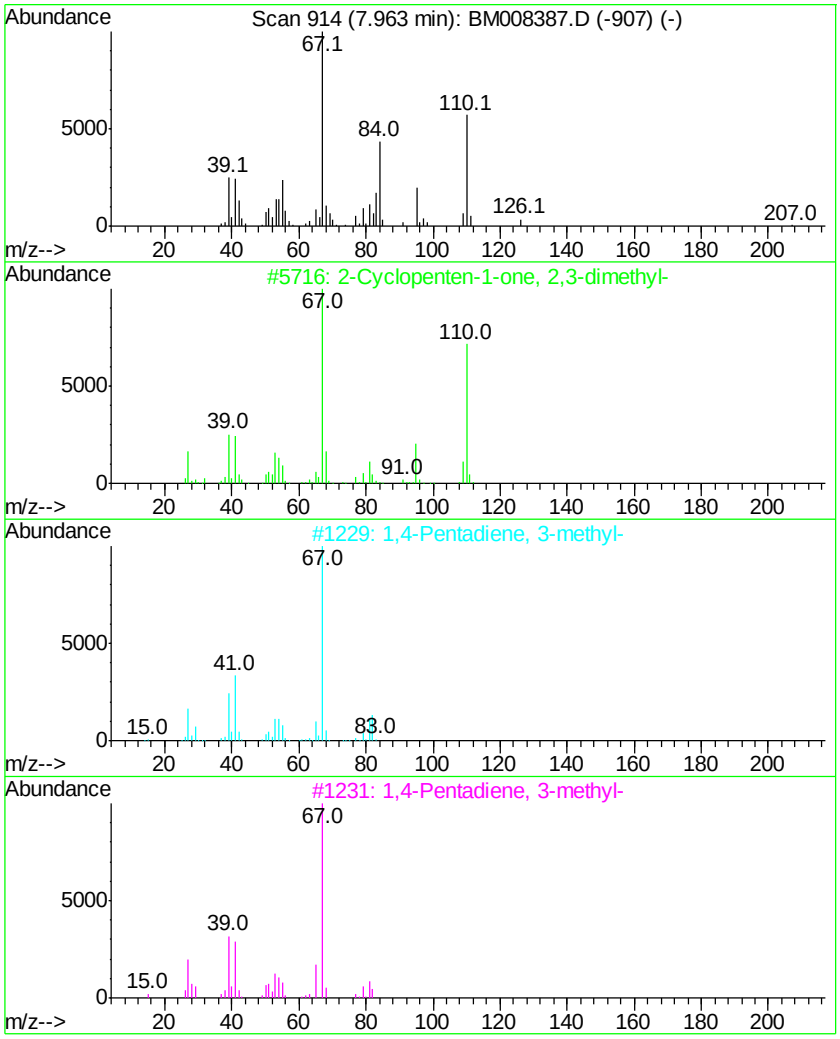
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

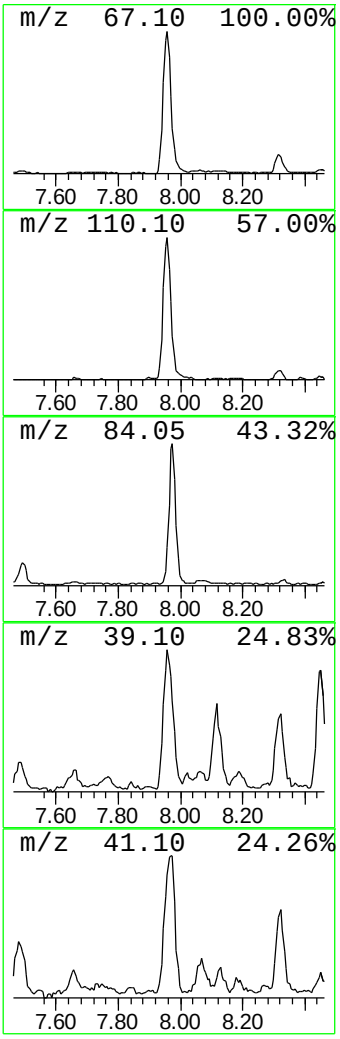
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 2-Cyclopenten-1-one, 2,3-di... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.96 | 18.68 ng/ul | 637934 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclopenten-1-one, 2,3-dimethyl- | 110 | C7H10O | 001121-05-7 | 80 |
| 2 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 60 |
| 3 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 49 |
| 4 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 49 |
| 5 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

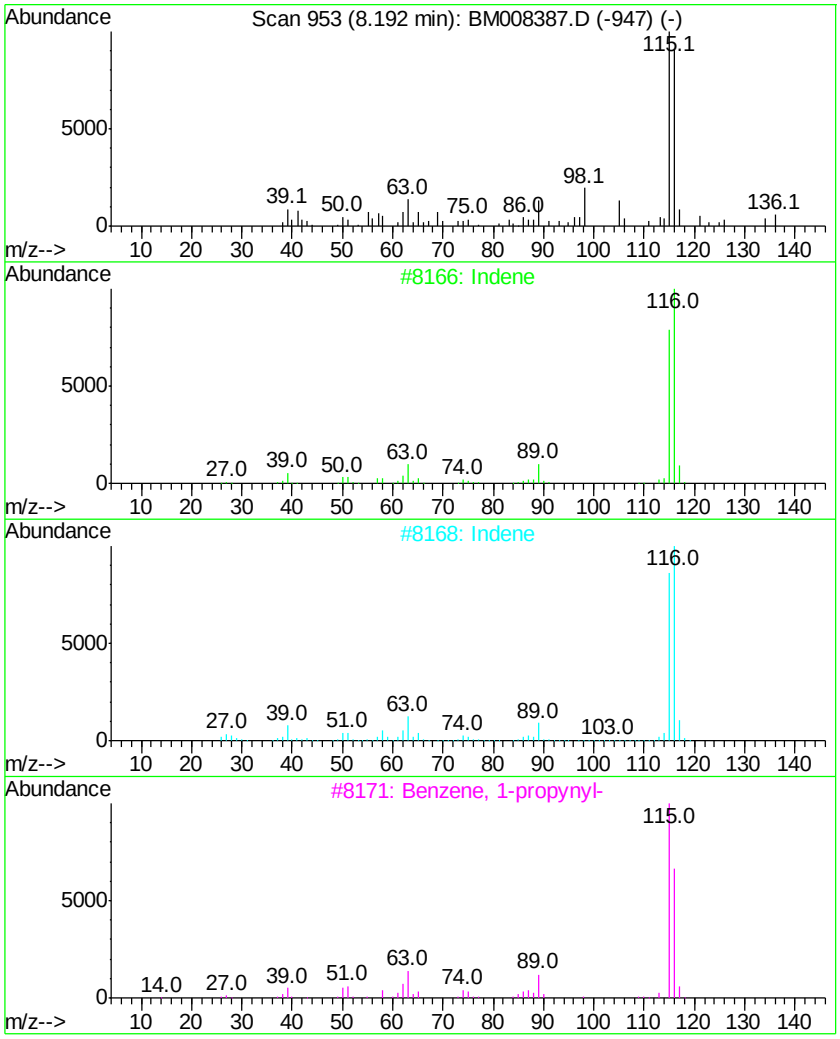
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

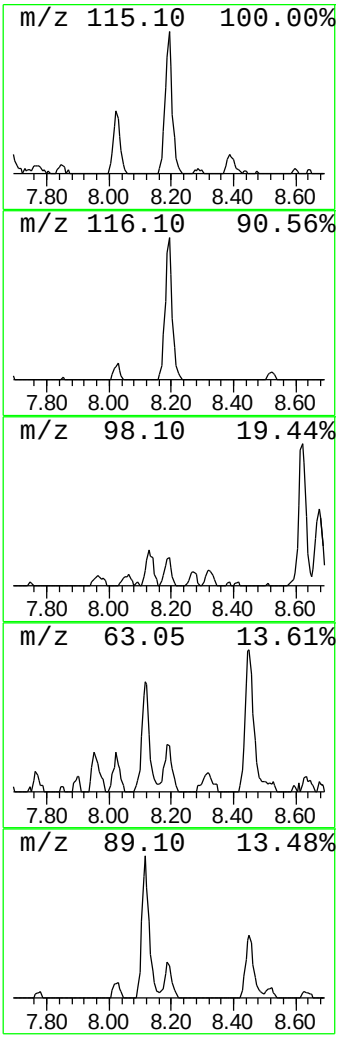
**********

Peak Number 13 Indene Concentration Rank 58

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.19 | 4.00 ng/ul | 136631 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 81 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 81 |
| 3 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 81 |
| 4 | Indene | 116 | C9H8 | 000095-13-6 | 81 |
| 5 | Benzene,1-ethynyl-2-methyl- | 116 | C9H8 | 000766-47-2 | 80 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

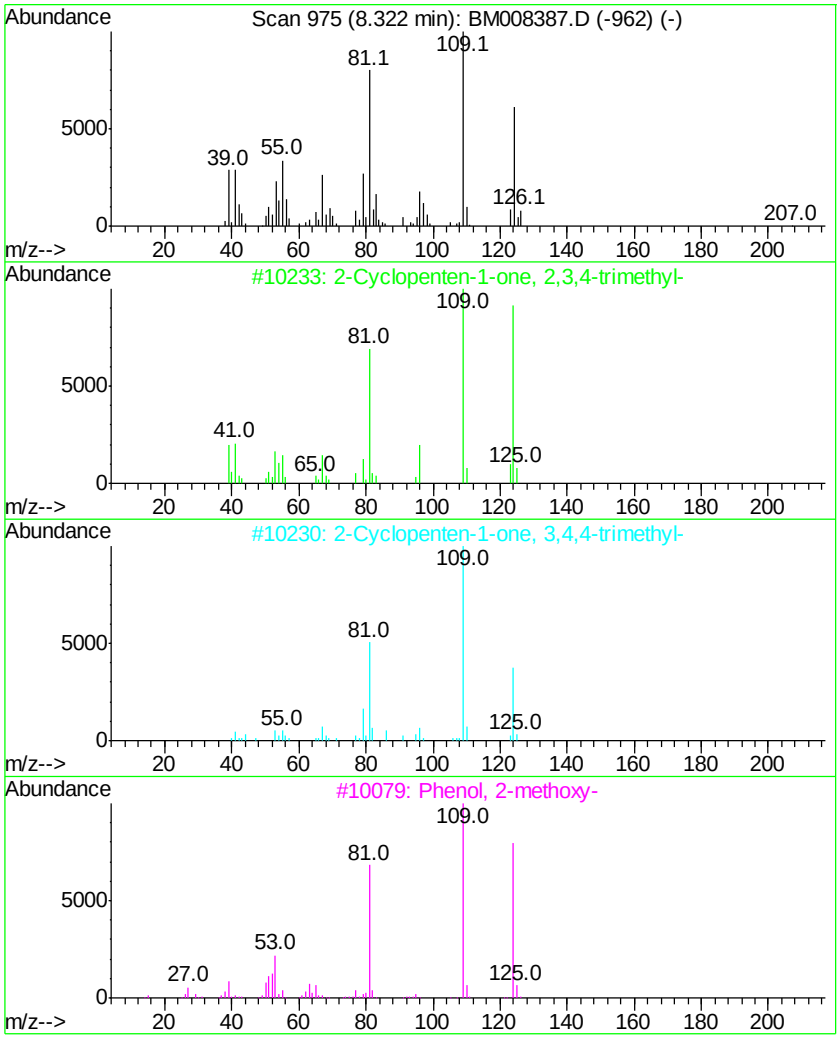
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

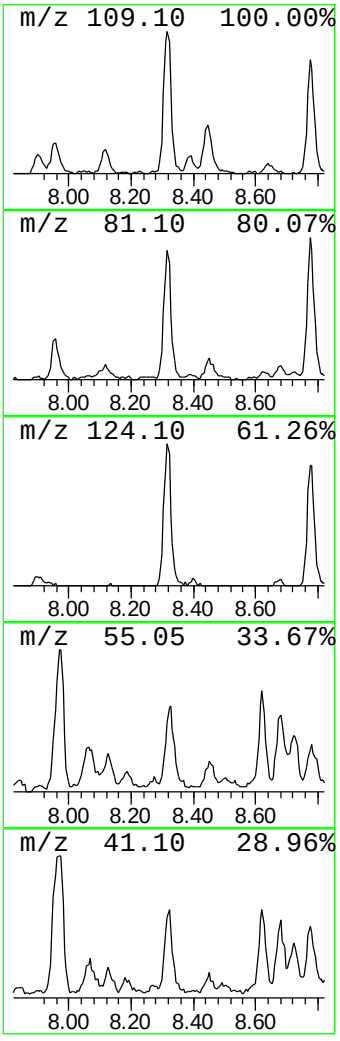
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 2-Cyclopenten-1-one, 2,3,4-... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.32 | 11.58 ng/ul | 395483 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclopenten-1-one, 2,3,4-trime... | 124 | C8H12O | 028790-86-5 | 90 |
| 2 | 2-Cyclopenten-1-one, 3,4,4-trime... | 124 | C8H12O | 030434-65-2 | 81 |
| 3 | Phenol, 2-methoxy- | 124 | C7H8O2 | 000090-05-1 | 76 |
| 4 | Phenol, 2-methoxy- | 124 | C7H8O2 | 000090-05-1 | 74 |
| 5 | 1,4-Hexadiene, 4-methyl- | 96 | C7H12 | 001116-90-1 | 50 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

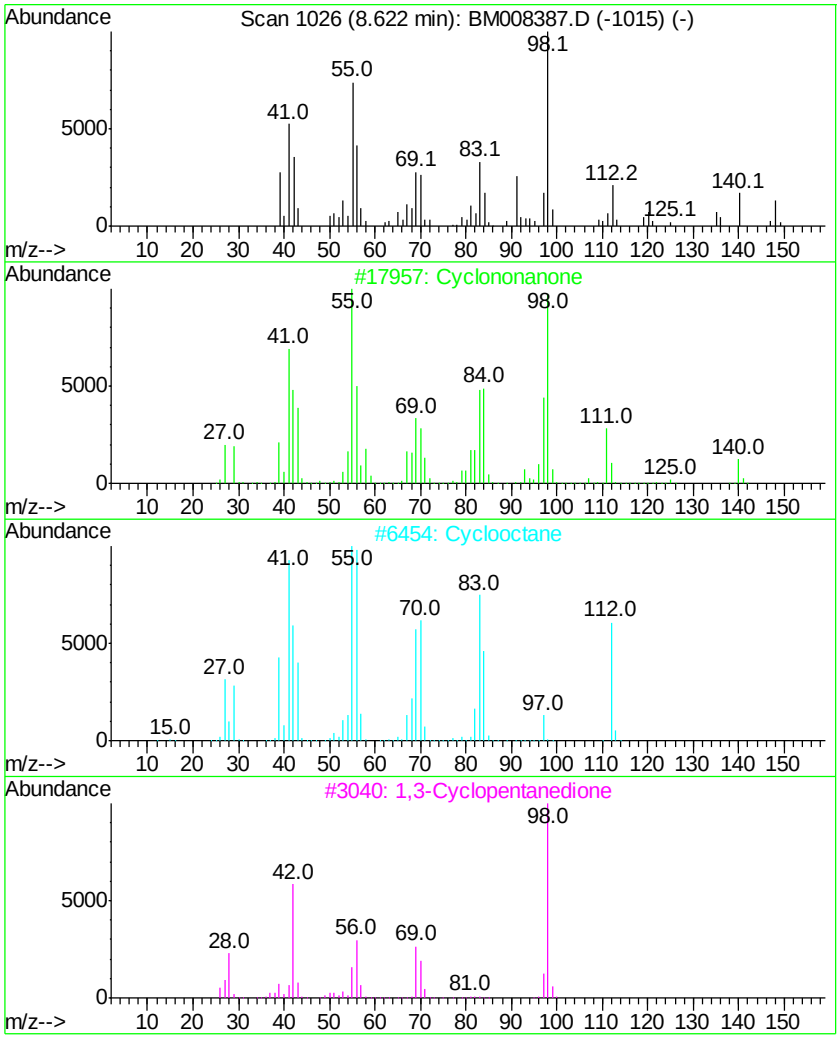
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

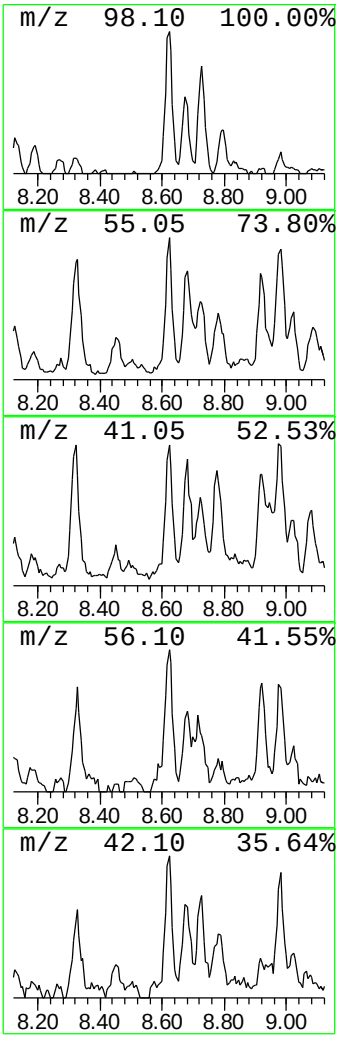
**********

Peak Number 15 Cyclononanone Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.62 | 7.77 ng/ul | 265117 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclononanone | 140 | C9H16O | 003350-30-9 | 74 |
| 2 | Cyclooctane | 112 | C8H16 | 000292-64-8 | 50 |
| 3 | 1,3-Cyclopentanedione | 98 | C5H6O2 | 003859-41-4 | 49 |
| 4 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 46 |
| 5 | 3-Octene, (Z)- | 112 | C8H16 | 014850-22-7 | 46 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

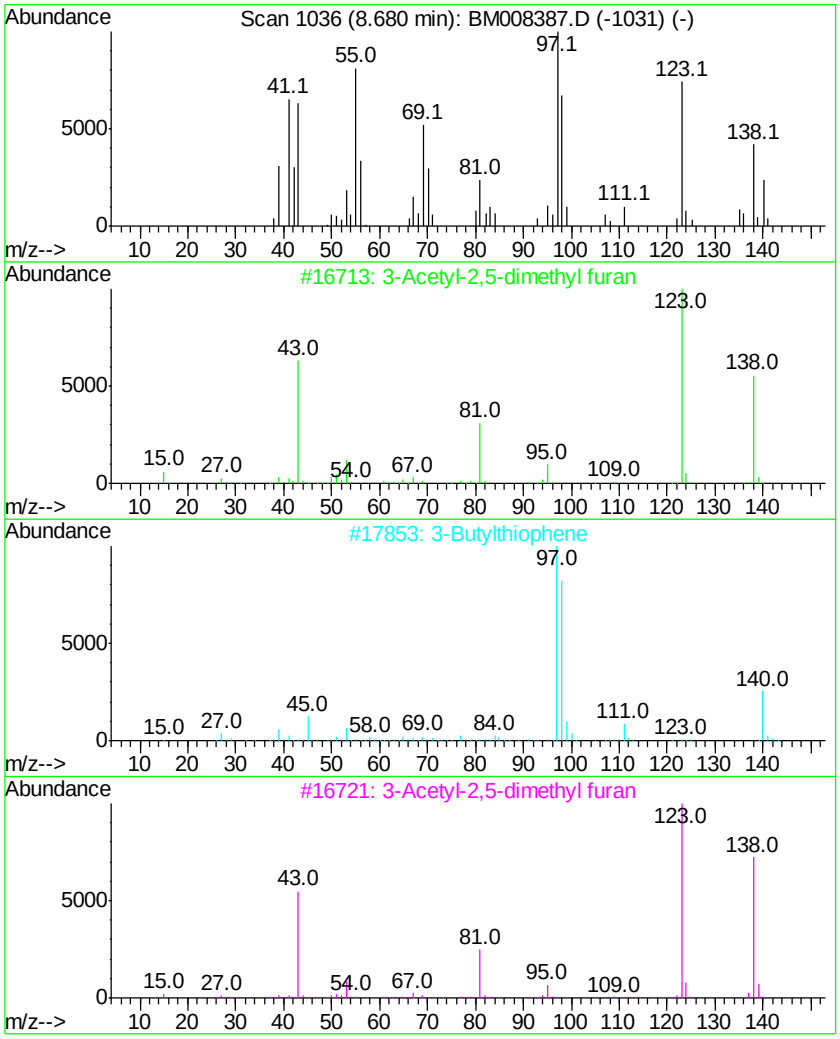
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

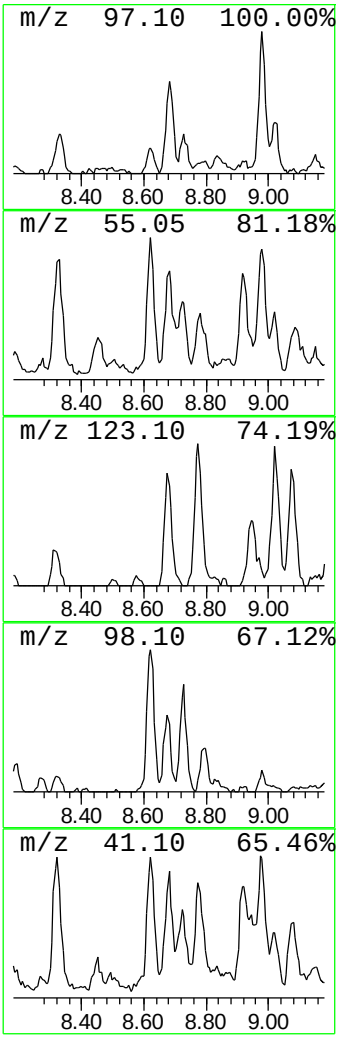
**********

Peak Number 16 unknown-01 Concentration Rank 66

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.68 | 3.47 ng/ul | 118341 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Acetyl-2,5-dimethyl furan | 138 | C8H10O2 | 010599-70-9 | 38 |
| 2 | 3-Butylthiophene | 140 | C8H12S | 034722-01-5 | 38 |
| 3 | 3-Acetyl-2,5-dimethyl furan | 138 | C8H10O2 | 010599-70-9 | 30 |
| 4 | Phenol, 4-methoxy-3-methyl- | 138 | C8H10O2 | 014786-82-4 | 27 |
| 5 | 3-Acetyl-2,5-dimethyl furan | 138 | C8H10O2 | 010599-70-9 | 25 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

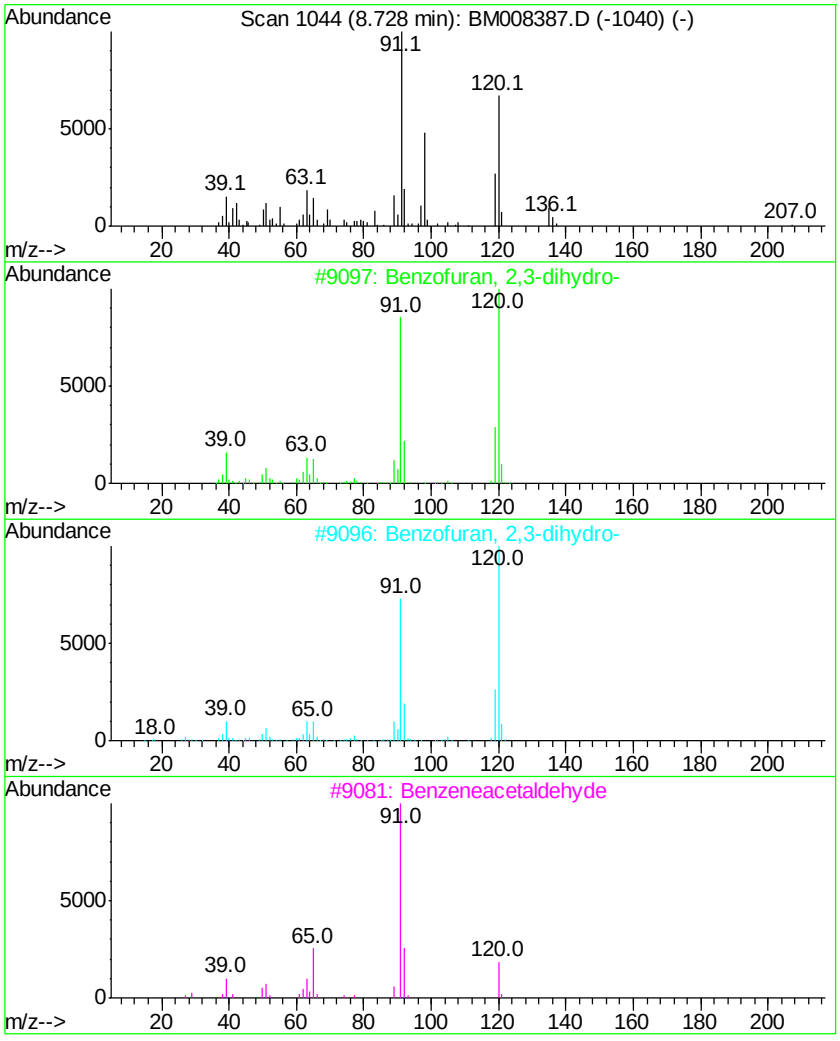
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

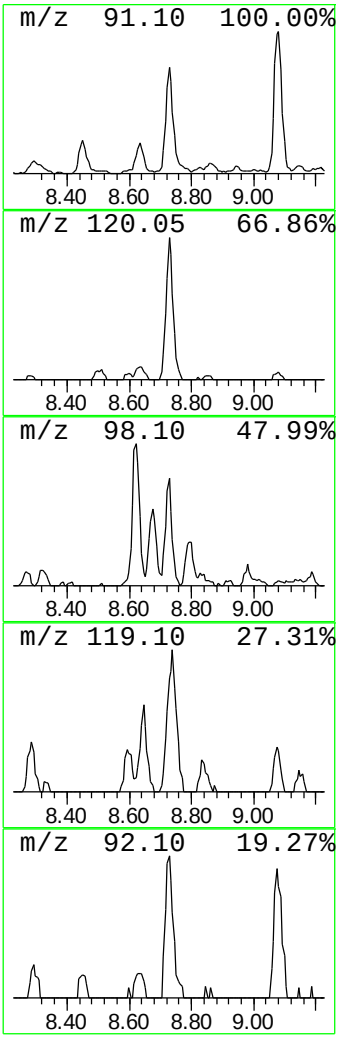
**********

Peak Number 17 Benzofuran, 2,3-dihydro- Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.73 | 5.03 ng/ul | 171592 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 2,3-dihydro- | 120 | C8H8O | 000496-16-2 | 87 |
| 2 | Benzofuran, 2,3-dihydro- | 120 | C8H8O | 000496-16-2 | 55 |
| 3 | Benzeneacetaldehyde | 120 | C8H8O | 000122-78-1 | 38 |
| 4 | Benzaldehyde, 4-methyl- | 120 | C8H8O | 000104-87-0 | 38 |
| 5 | Benzaldehyde, 2-methyl- | 120 | C8H8O | 000529-20-4 | 38 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

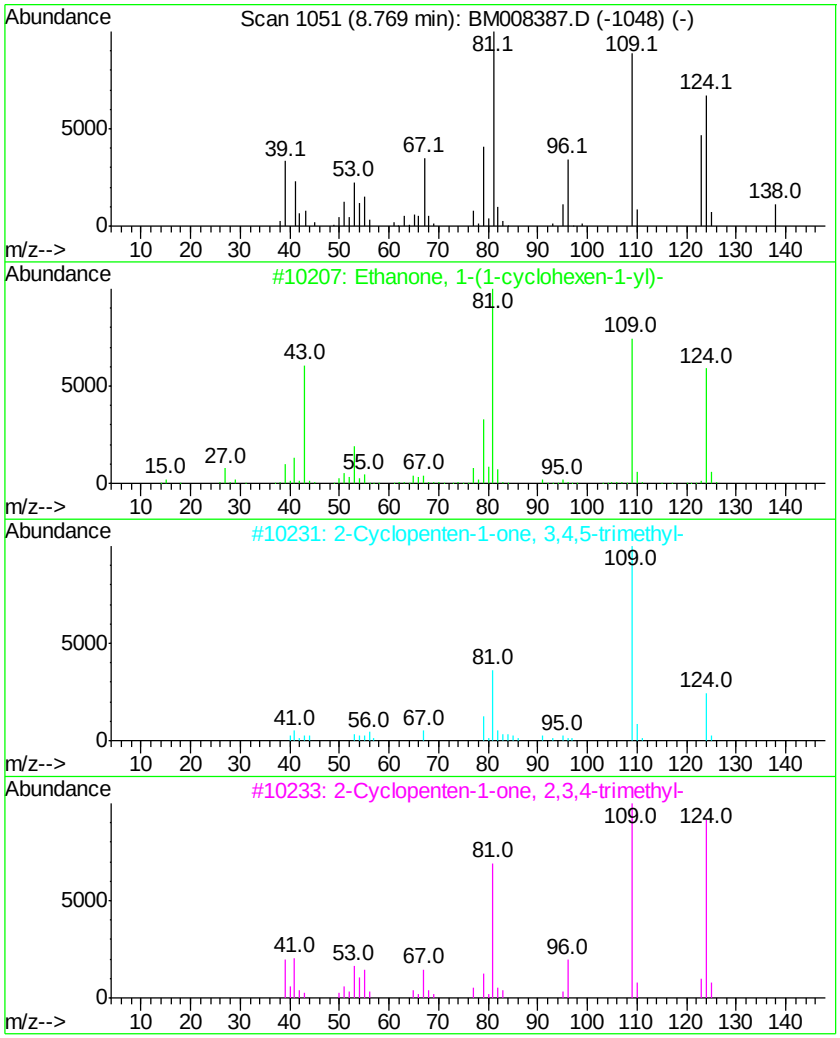
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

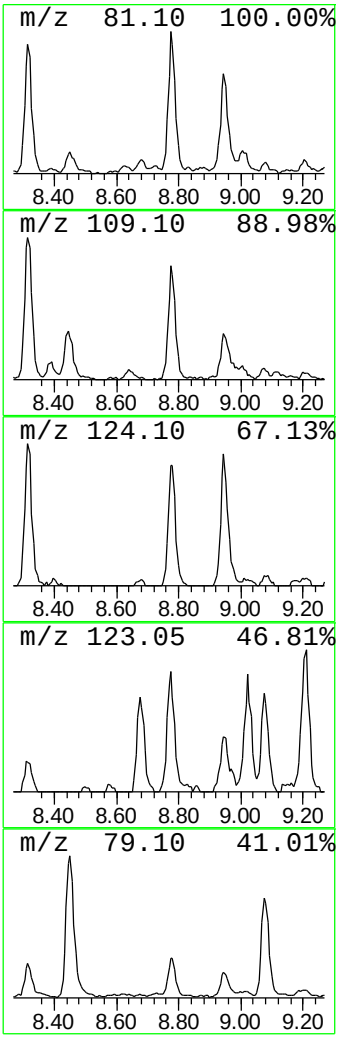
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 Ethanone, 1-(1-cyclohexen-1... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.77 | 7.91 ng/ul | 270181 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O | 000932-66-1 | 81 |
| 2 | 2-Cyclopenten-1-one, 3,4,5-trime... | 124 | C8H12O | 055683-21-1 | 76 |
| 3 | 2-Cyclopenten-1-one, 2,3,4-trime... | 124 | C8H12O | 028790-86-5 | 74 |
| 4 | 2-Cyclopenten-1-one, 3,4,4-trime... | 124 | C8H12O | 030434-65-2 | 58 |
| 5 | Phenol, 2-methoxy- | 124 | C7H8O2 | 000090-05-1 | 58 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

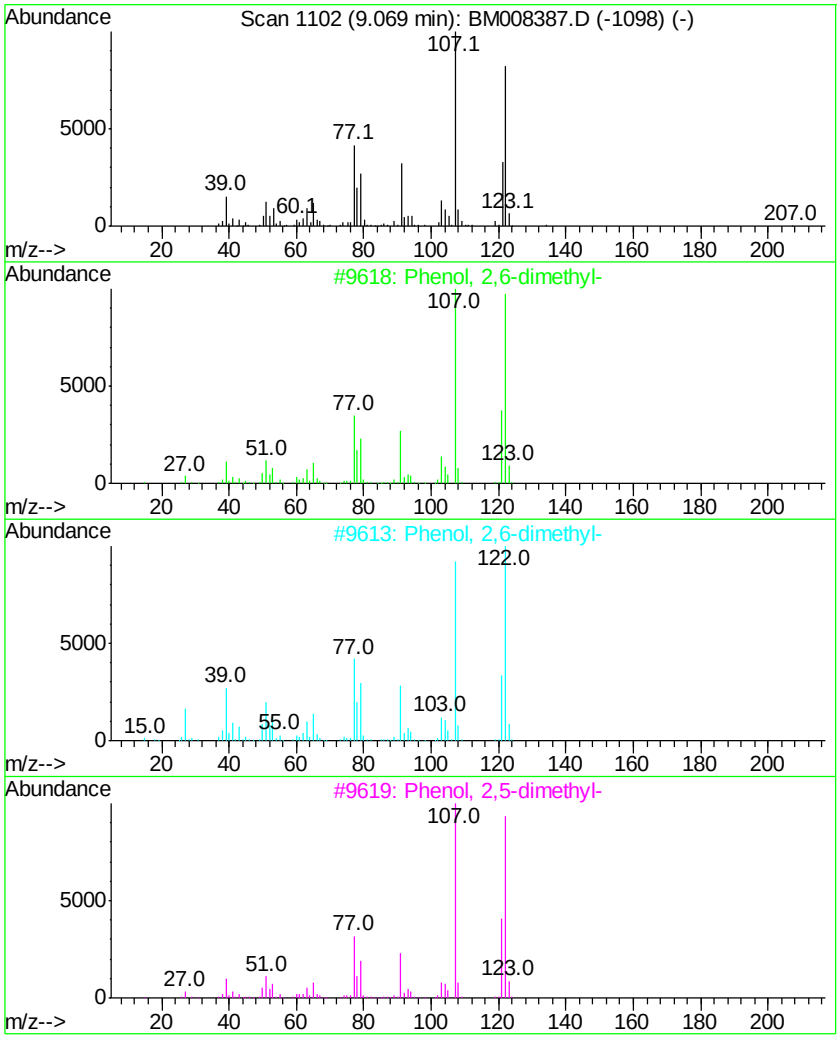
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

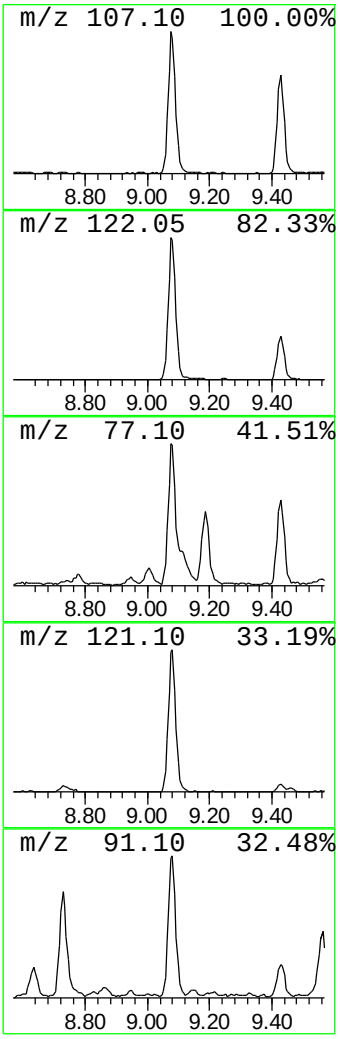
**********

Peak Number 19 Phenol, 2,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.07 | 23.60 ng/ul | 1263120 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 97 |
| 2 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 97 |
| 3 | Phenol, 2,5-dimethyl- | 122 | C8H10O | 000095-87-4 | 96 |
| 4 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 95 |
| 5 | Phenol, 2,3-dimethyl- | 122 | C8H10O | 000526-75-0 | 95 |



# Library Search Compound Report

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Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

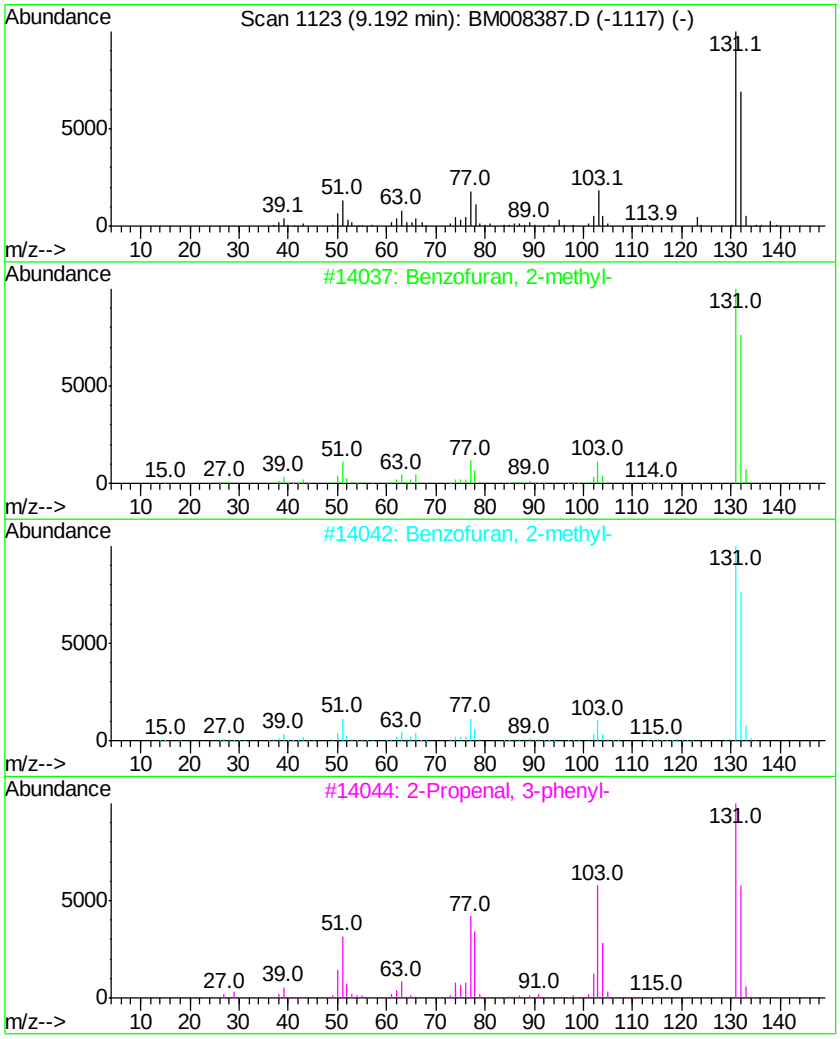
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

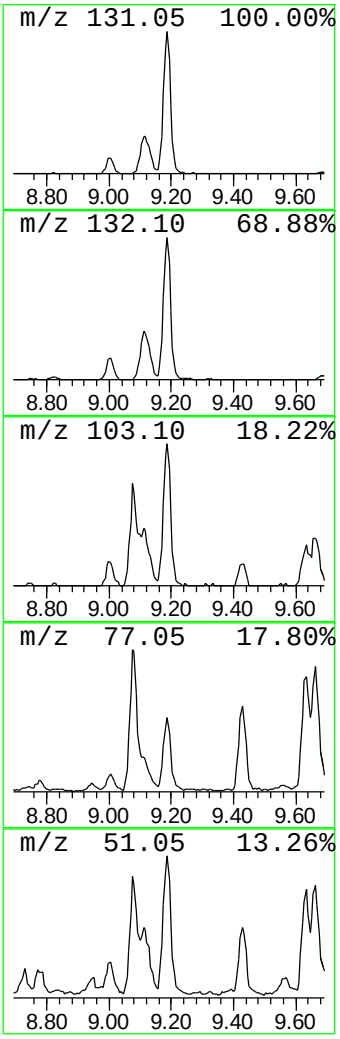
**********

Peak Number 20 Benzofuran, 2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.19 | 13.73 ng/ul | 734878 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 91 |
| 2 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 91 |
| 3 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 87 |
| 4 | Benzopyrimidine, 3,4-dihydro- | 132 | C8H8N2 | 001904-64-9 | 87 |
| 5 | Cinnamaldehyde, (E)- | 132 | C9H8O | 014371-10-9 | 87 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

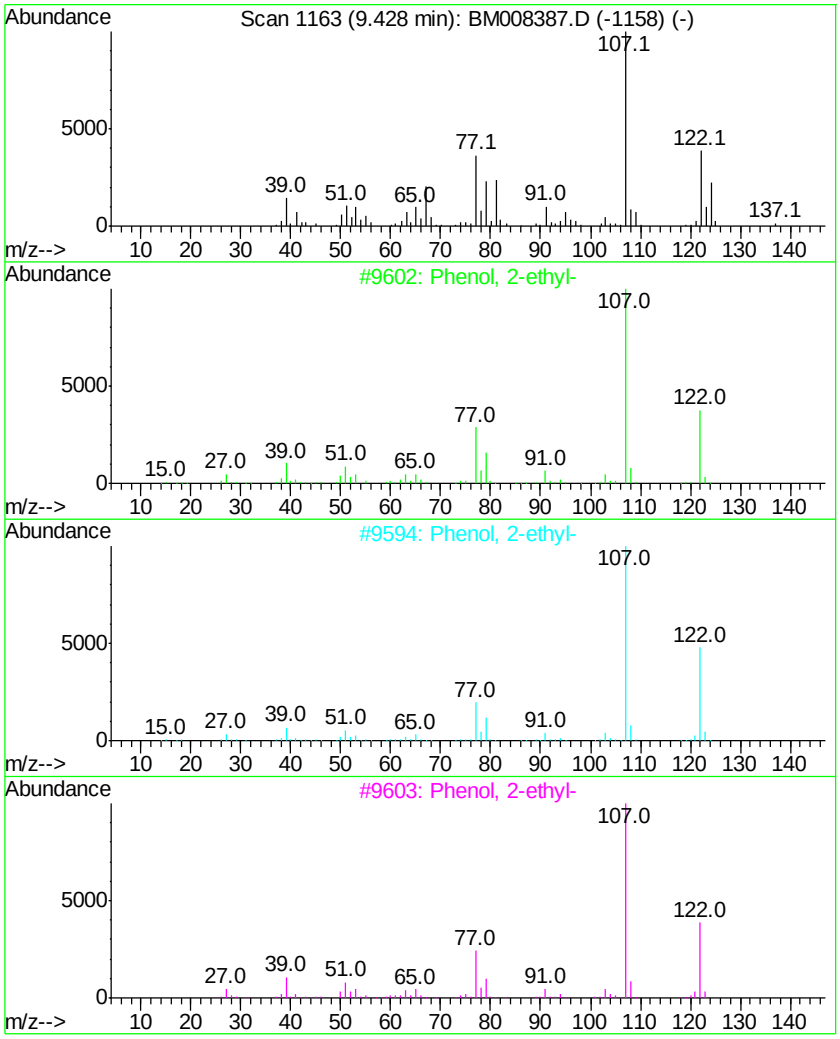
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

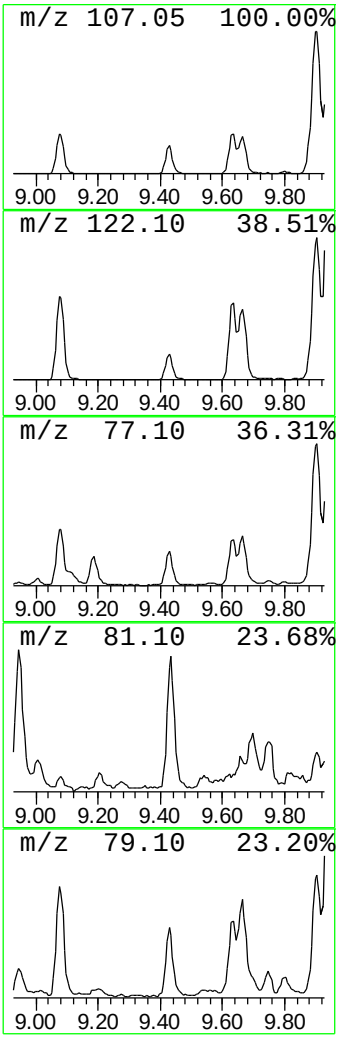
**********

Peak Number 21 Phenol, 2-ethyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.43 | 11.07 ng/ul | 592679 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-ethyl- | 122 | C8H10O | 000090-00-6 | 93 |
| 2 | Phenol, 2-ethyl- | 122 | C8H10O | 000090-00-6 | 76 |
| 3 | Phenol, 2-ethyl- | 122 | C8H10O | 000090-00-6 | 70 |
| 4 | Phenol, 3-ethyl- | 122 | C8H10O | 000620-17-7 | 62 |
| 5 | Phenol, 4-ethyl- | 122 | C8H10O | 000123-07-9 | 58 |



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Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

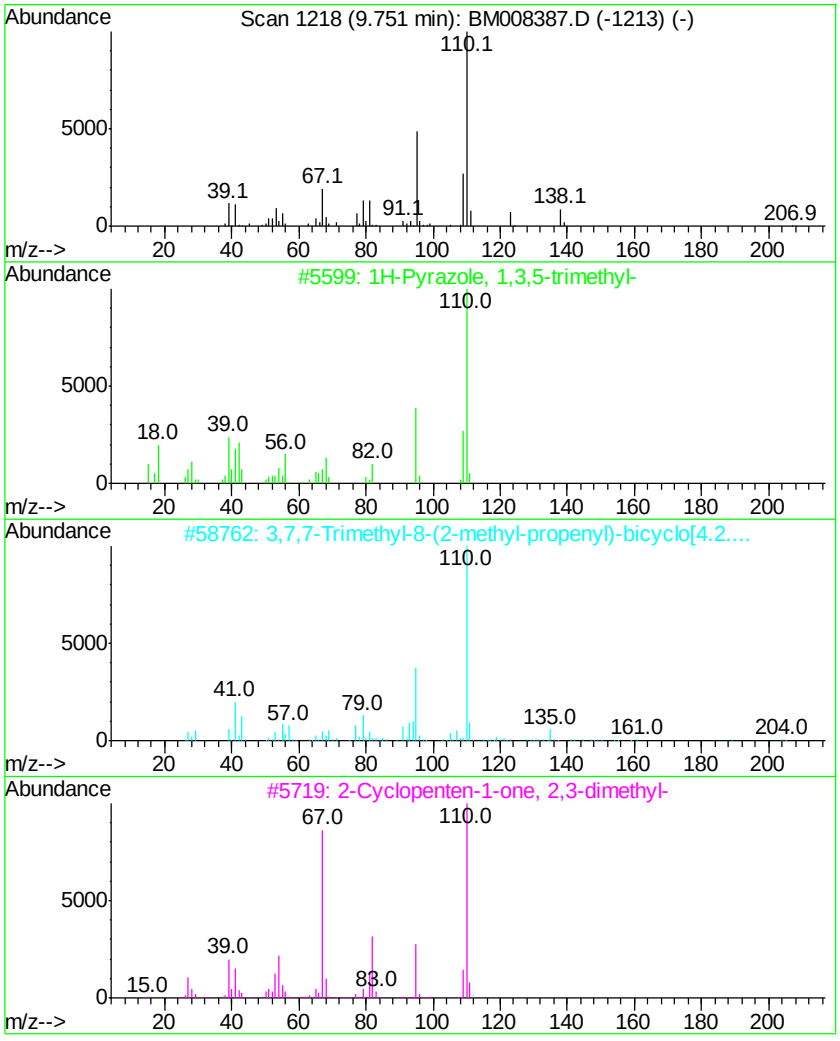
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

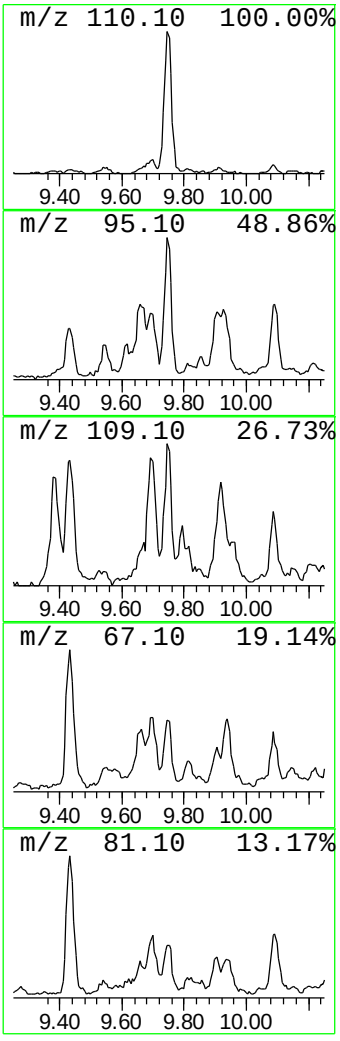
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 1H-Pyrazole, 1,3,5-trimethyl- Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.75 | 4.26 ng/ul | 228227 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Pyrazole, 1,3,5-trimethyl- | 110 | C6H10N2 | 001072-91-9 | 59 |
| 2 | 3,7,7-Trimethyl-8-(2-methyl-prop... | 204 | C15H24 | 1000192-43-3 | 53 |
| 3 | 2-Cyclopenten-1-one, 2,3-dimethyl- | 110 | C7H10O | 001121-05-7 | 53 |
| 4 | 1-Octanone, 1-(2-furanyl)- | 194 | C12H18O2 | 005456-77-9 | 50 |
| 5 | 1,2-Benzenediol | 110 | C6H6O2 | 000120-80-9 | 46 |



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Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

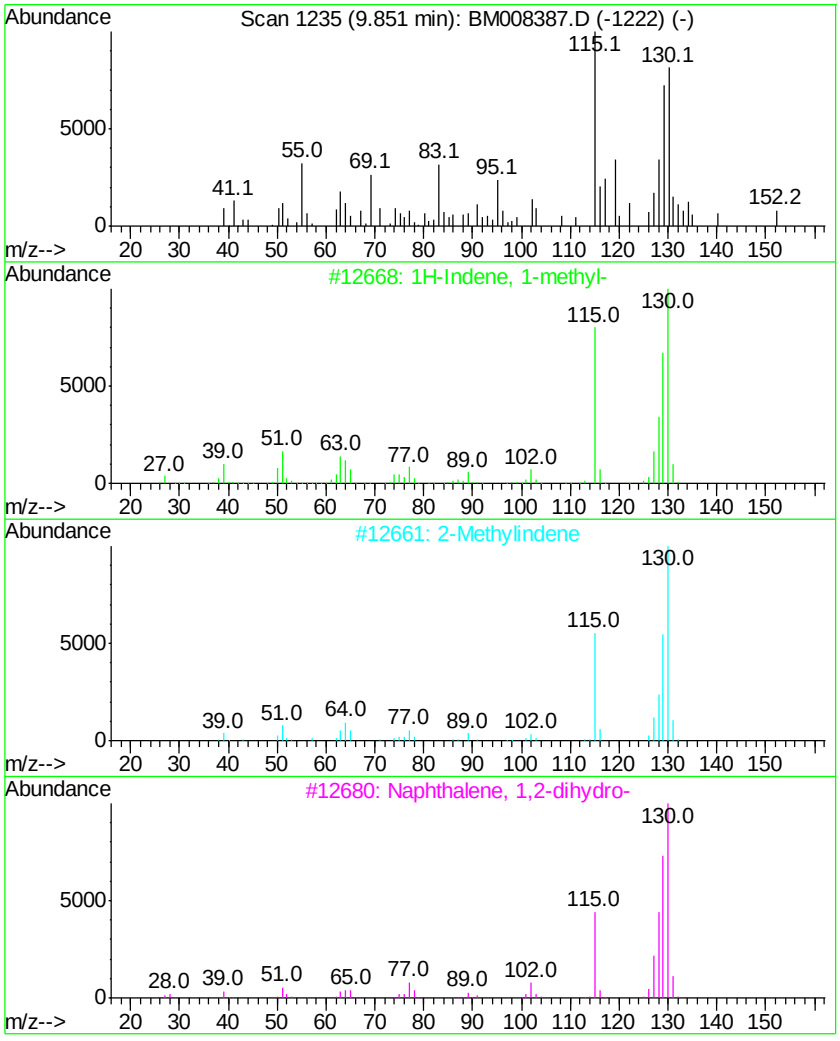
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

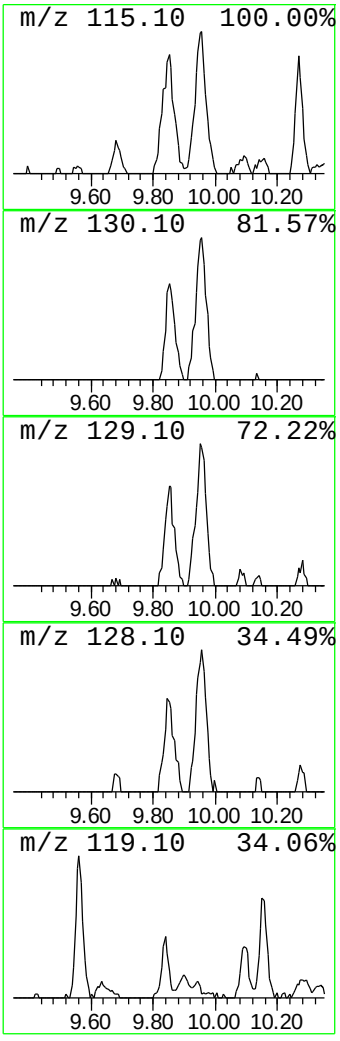
**********

Peak Number 23 1H-Indene, 1-methyl- Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.85 | 4.32 ng/ul | 231426 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 64 |
| 2 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 50 |
| 3 | Naphthalene, 1,2-dihydro- | 130 | C10H10 | 000447-53-0 | 50 |
| 4 | Cyclopropa[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 50 |
| 5 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 50 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

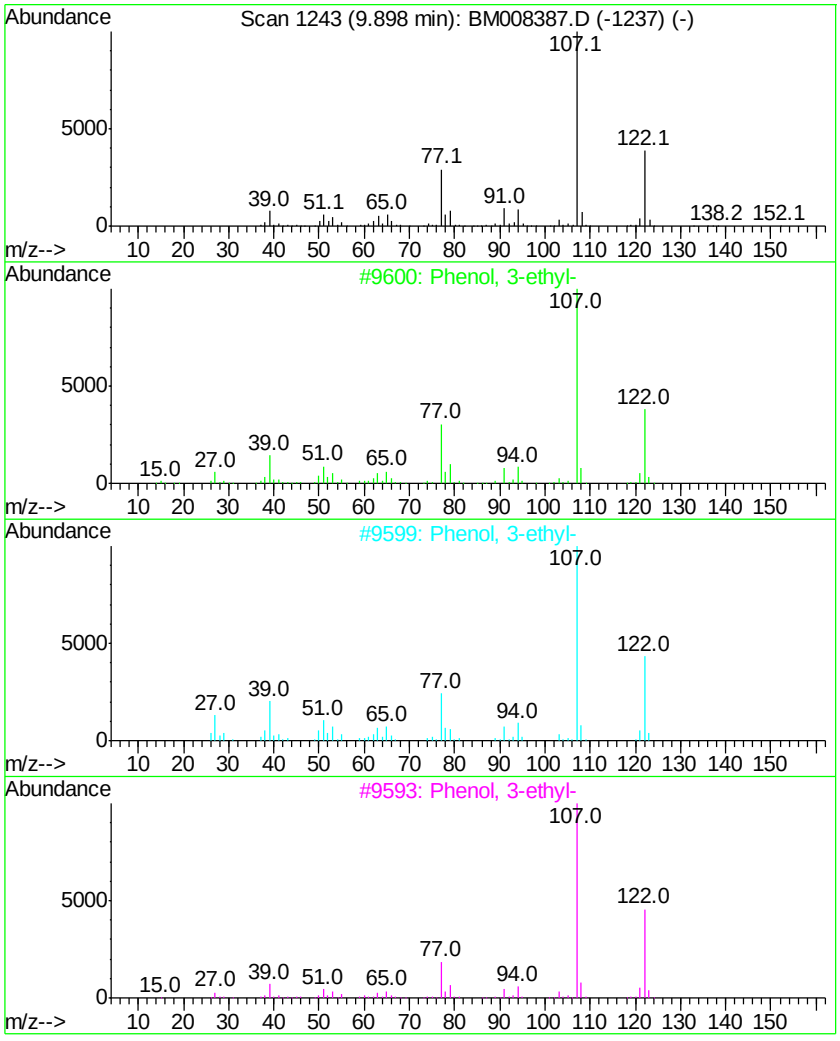
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

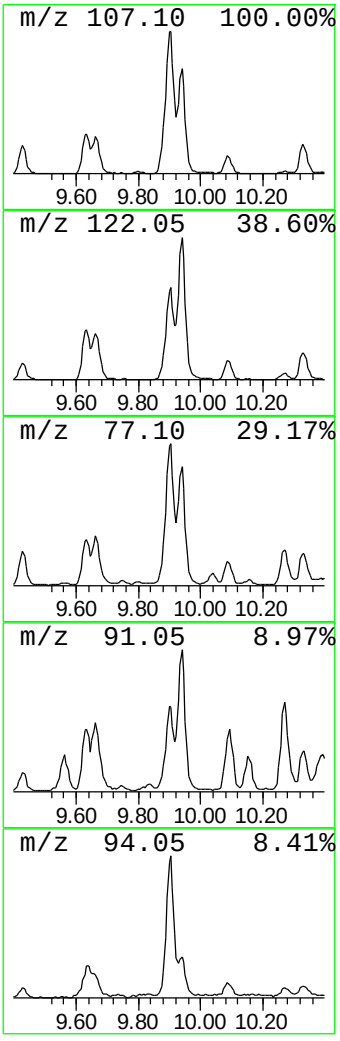
**********

Peak Number 24 Phenol, 3-ethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.90 | 41.04 ng/ul | 2196110 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3-ethyl- | 122 | C8H10O | 000620-17-7 | 97 |
| 2 | Phenol, 3-ethyl- | 122 | C8H10O | 000620-17-7 | 91 |
| 3 | Phenol, 3-ethyl- | 122 | C8H10O | 000620-17-7 | 91 |
| 4 | Phenol, 4-ethyl- | 122 | C8H10O | 000123-07-9 | 90 |
| 5 | Phenol, 2-ethyl- | 122 | C8H10O | 000090-00-6 | 90 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

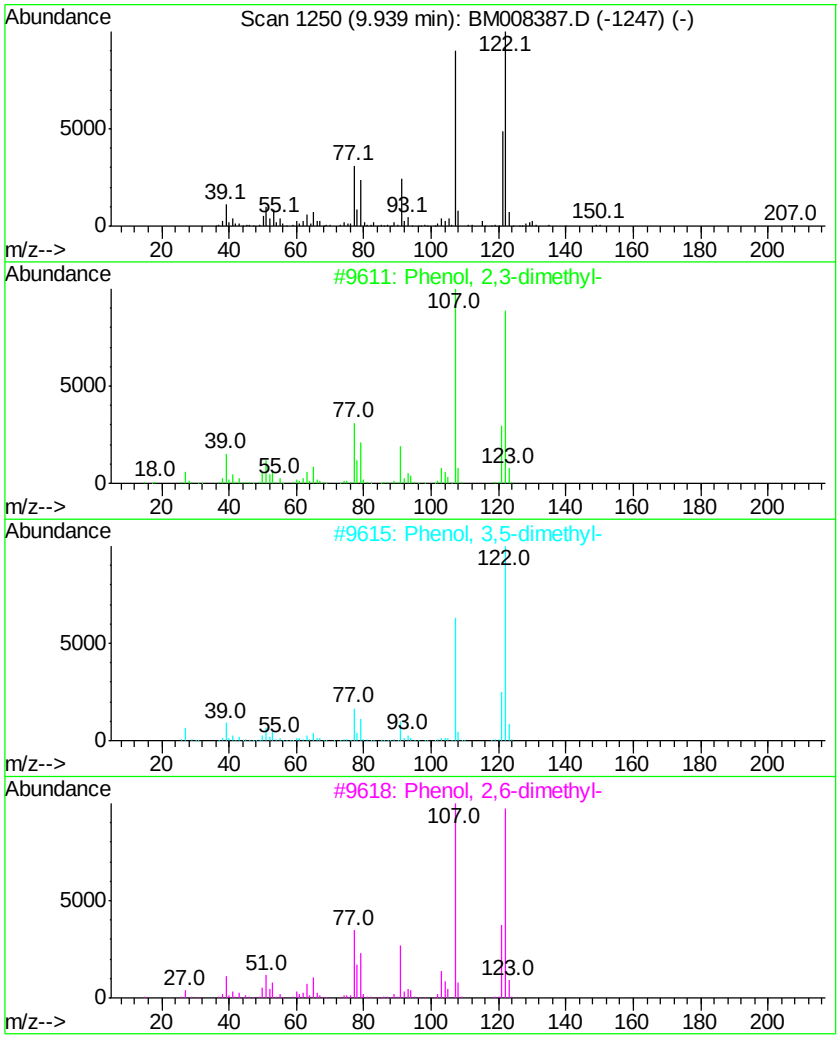
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

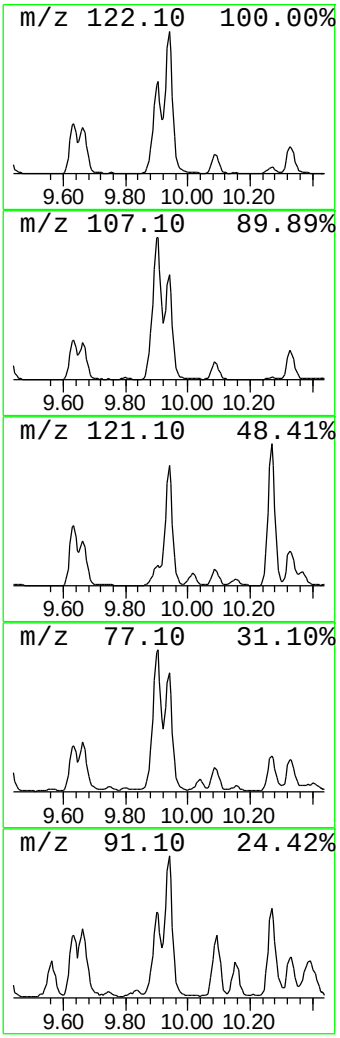
**********

Peak Number 25 Phenol, 2,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.94 | 36.76 ng/ul | 1967290 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,3-dimethyl- | 122 | C8H10O | 000526-75-0 | 91 |
| 2 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 91 |
| 3 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 91 |
| 4 | Phenol, 2,4-dimethyl- | 122 | C8H10O | 000105-67-9 | 90 |
| 5 | Benzenemethanol, .alpha.-methyl- | 122 | C8H10O | 000098-85-1 | 90 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

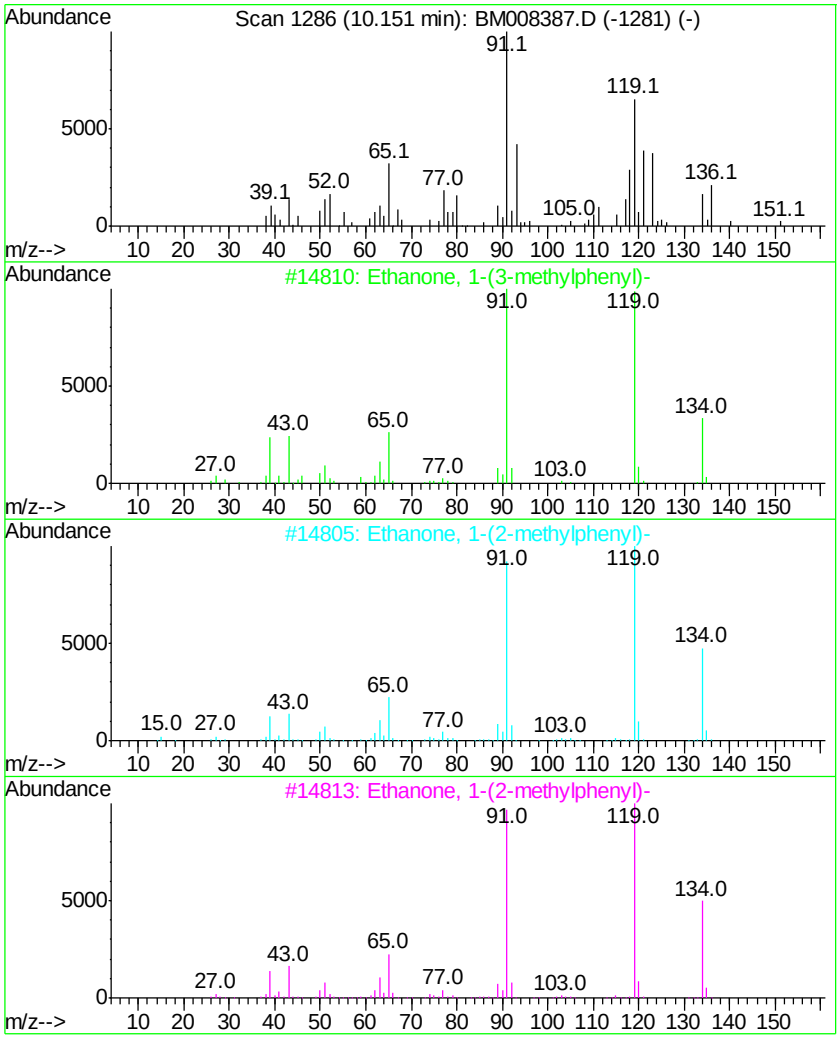
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

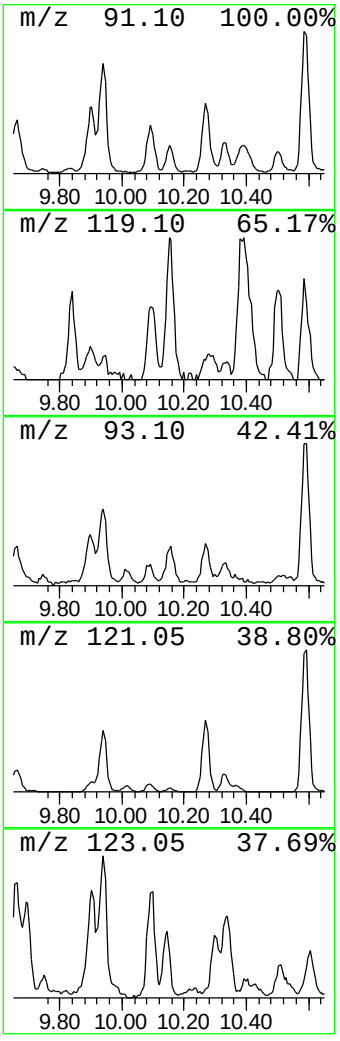
**********

Peak Number 26 unknown-02 Concentration Rank 68

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.15 | 3.14 ng/ul | 168102 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-(3-methylphenyl)- | 134 | C9H10O | 000585-74-0 | 38 |
| 2 | Ethanone, 1-(2-methylphenyl)- | 134 | C9H10O | 000577-16-2 | 38 |
| 3 | Ethanone, 1-(2-methylphenyl)- | 134 | C9H10O | 000577-16-2 | 38 |
| 4 | Hexane, 3,4-diphenyl- | 238 | C18H22 | 005789-31-1 | 27 |
| 5 | 3-Methyl-2,3-dihydro-benzofuran | 134 | C9H10O | 013524-73-7 | 25 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

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

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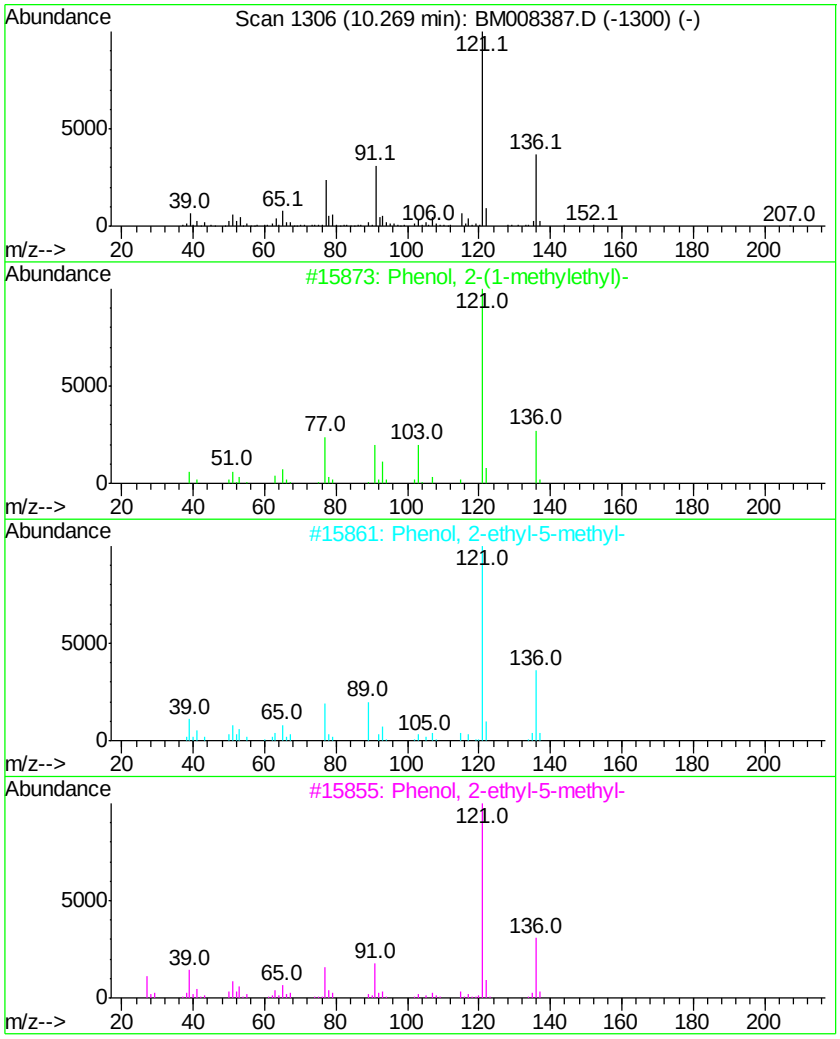
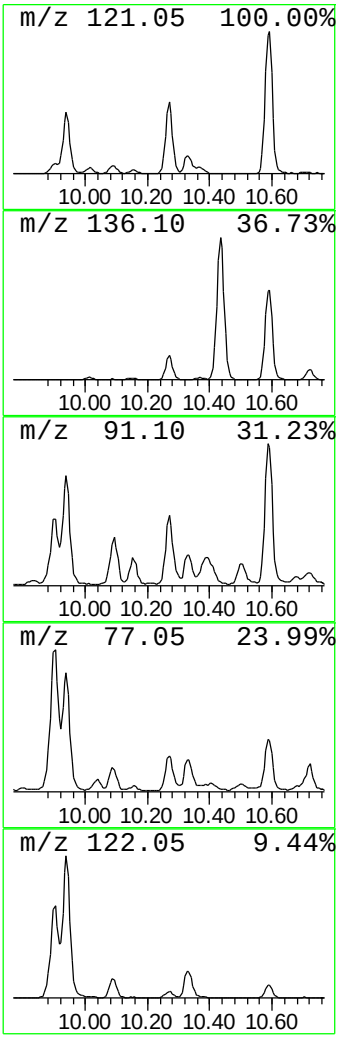
Peak Number 27 Phenol, 2-(1-methylethyl)- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.27 | 14.13 ng/ul | 755959 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 87 |
| 2 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 86 |
| 3 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 86 |
| 4 | Phenol, 4-(1-methylethyl)- | 136 | C9H12O | 000099-89-8 | 80 |
| 5 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 80 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

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

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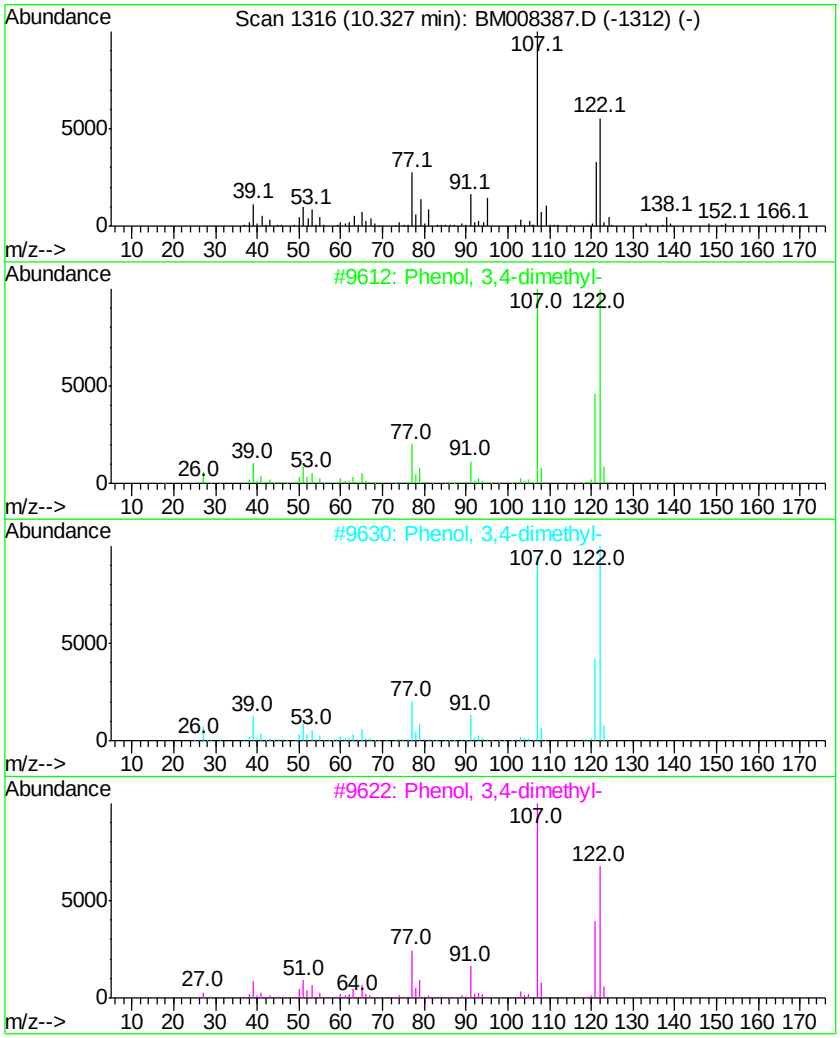
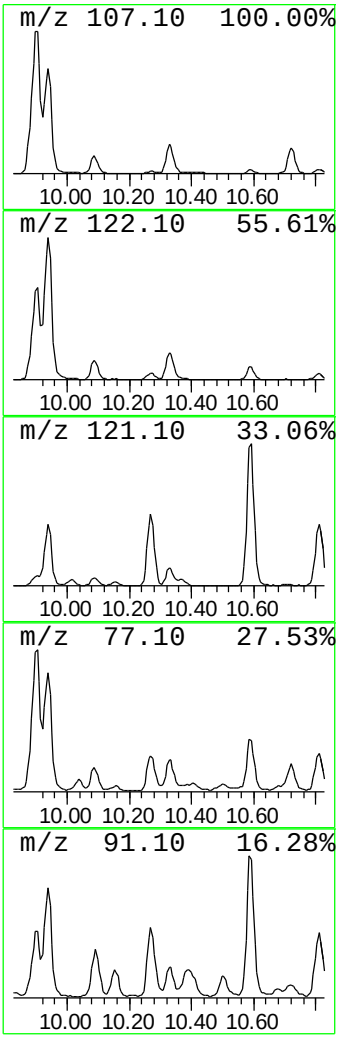
Peak Number 28 Phenol, 3,4-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.33 | 14.87 ng/ul | 795746 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 91 |
| 2 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 87 |
| 3 | Phenol, 3,4-dimethyl- | 122 | C8H10O | 000095-65-8 | 87 |
| 4 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 87 |
| 5 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 83 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

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

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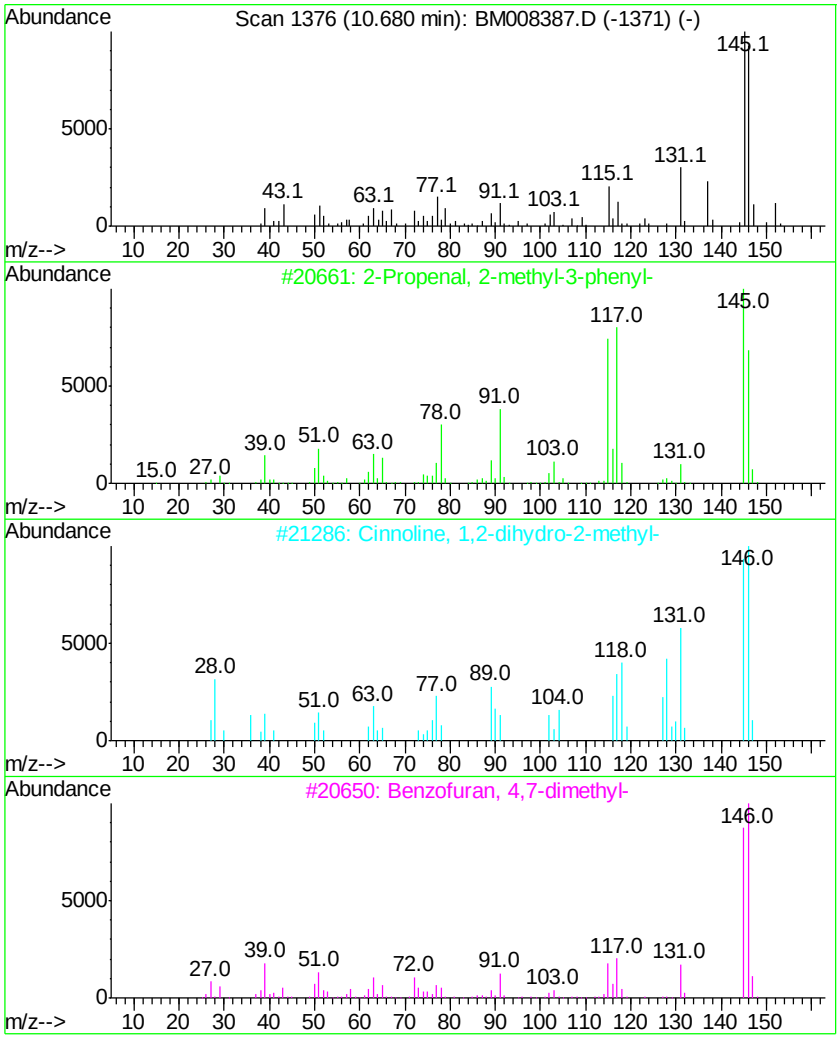
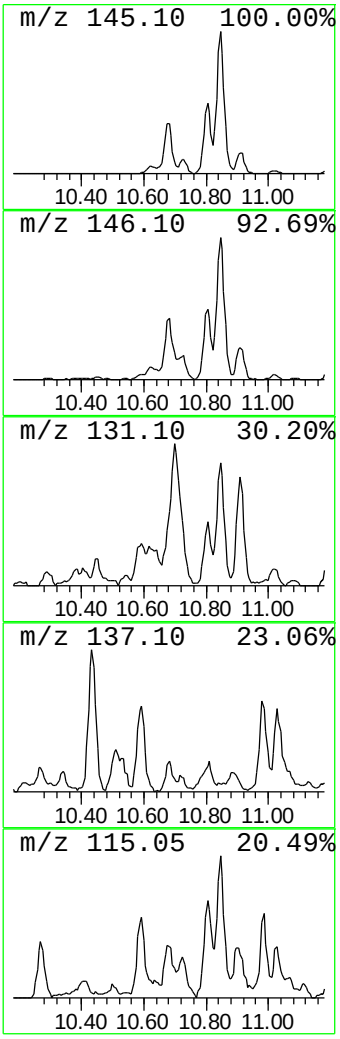
Peak Number 29 2-Propenal, 2-methyl-3-phenyl- Concentration Rank 62

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.68 | 3.73 ng/ul | 199515 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenal, 2-methyl-3-phenyl- | 146 | C10H10O | 000101-39-3 | 59 |
| 2 | Cinnoline, 1,2-dihydro-2-methyl- | 146 | C9H10N2 | 054063-10-4 | 59 |
| 3 | Benzofuran, 4,7-dimethyl- | 146 | C10H10O | 028715-26-6 | 59 |
| 4 | 1H-Pyrazole, 4,5-dihydro-3-phenyl- | 146 | C9H10N2 | 000936-48-1 | 53 |
| 5 | 2-Propenal, 2-methyl-3-phenyl- | 146 | C10H10O | 000101-39-3 | 53 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

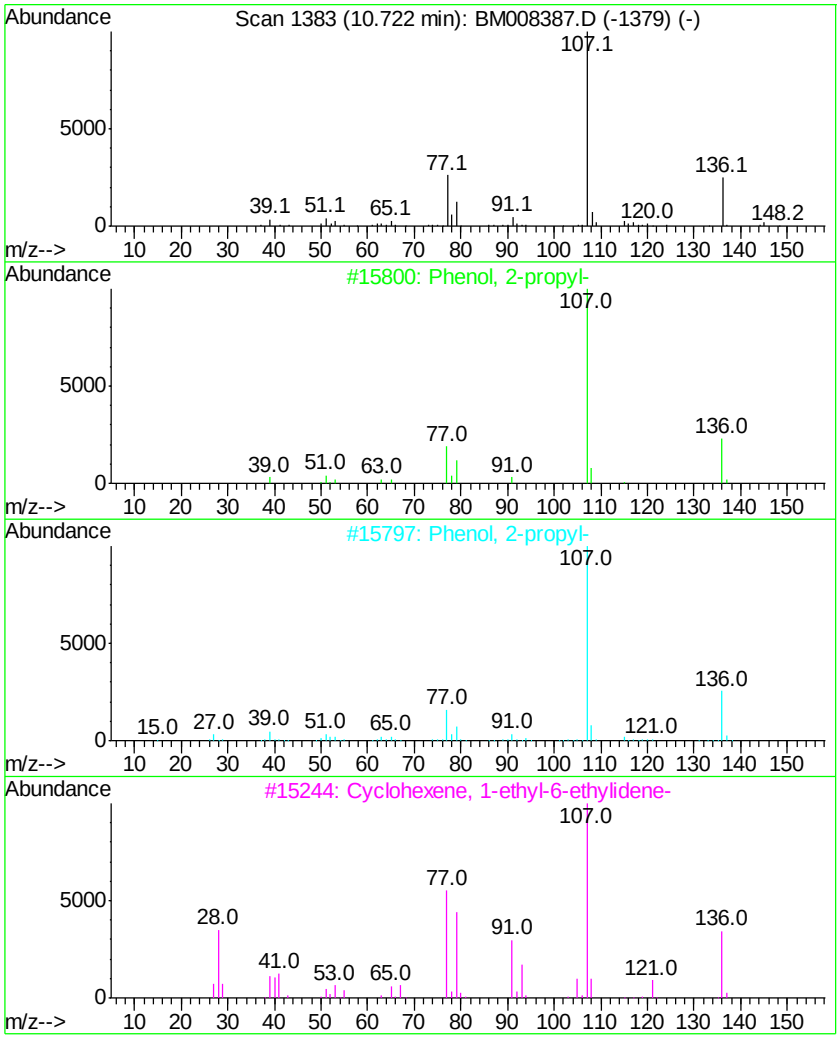
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

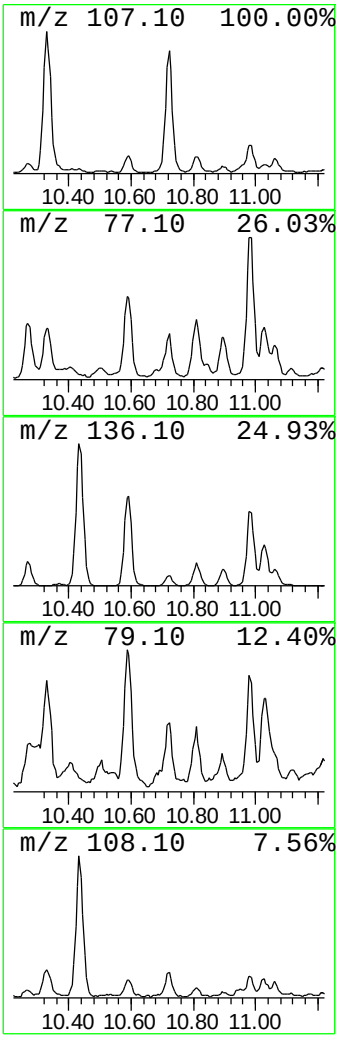
**********

Peak Number 30 Phenol, 2-propyl- Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.72 | 7.35 ng/ul | 393178 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-propyl- | 136 | C9H12O | 000644-35-9 | 90 |
| 2 | Phenol, 2-propyl- | 136 | C9H12O | 000644-35-9 | 80 |
| 3 | Cyclohexene, 1-ethyl-6-ethylidene- | 136 | C10H16 | 061141-57-9 | 72 |
| 4 | Phenol, 4-propyl- | 136 | C9H12O | 000645-56-7 | 64 |
| 5 | Furan, 2-(1-pentenyl)-, (E)- | 136 | C9H12O | 020992-69-2 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

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

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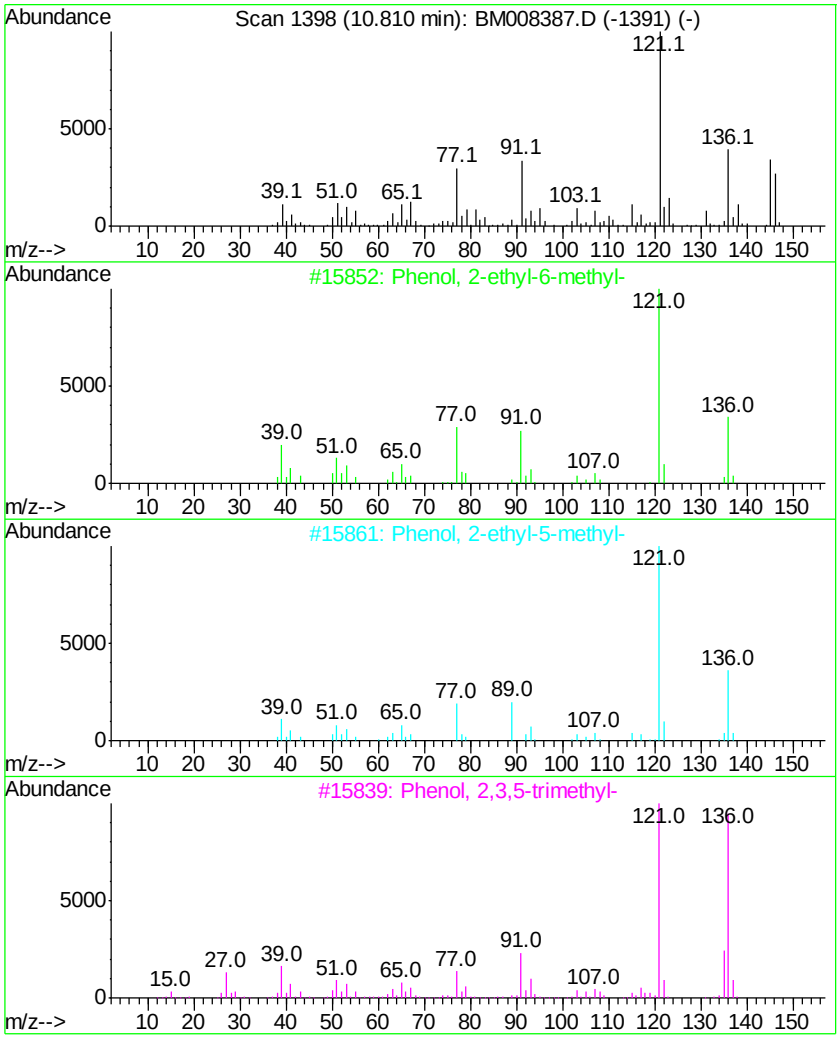
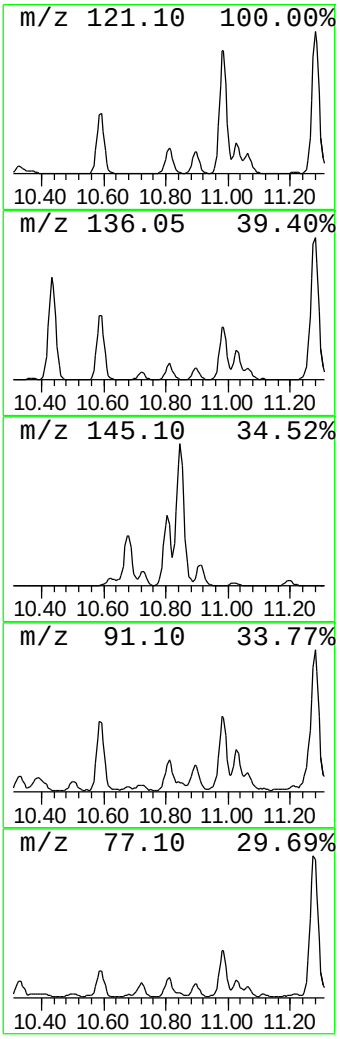
Peak Number 31 Phenol, 2-ethyl-6-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.81 | 19.44 ng/ul | 1040150 | Naphthalene-d8 | 10.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-ethyl-6-methyl- | 136 | C9H12O | 001687-64-5 | 93 |
| 2 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 60 |
| 3 | Phenol, 2,3,5-trimethyl- | 136 | C9H12O | 000697-82-5 | 58 |
| 4 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 58 |
| 5 | Phenol, 2,3,5-trimethyl- | 136 | C9H12O | 000697-82-5 | 58 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121716\
Data File : BM008387.D
Acq On : 16 Dec 2016 23:26
Operator : UM/SJ
Sample : H6039-19DL 30X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA8T3DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Cyclopentanone, 2... | 4.91 | 6.6 | ng/ul | 224113 | 1 | 7.66 | 682835 | 20.0 |
| Cyclopentanone, 2... | 6.41 | 6.7 | ng/ul | 228489 | 1 | 7.66 | 682835 | 20.0 |
| Benzene, 1-ethyl-... | 6.75 | 3.8 | ng/ul | 129459 | 1 | 7.66 | 682835 | 20.0 |
| (DEL) Alkane: Cyc... | 7.07 | 6.0 | ng/ul | 204551 | 1 | 7.66 | 682835 | 20.0 |
| Benzene, 1,2,3-tr... | 7.31 | 7.1 | ng/ul | 243915 | 1 | 7.66 | 682835 | 20.0 |
| (DEL) Alkane: Cyc... | 7.49 | 3.6 | ng/ul | 123966 | 1 | 7.66 | 682835 | 20.0 |
| 2-Cyclopenten-1-o... | 7.96 | 18.7 | ng/ul | 637934 | 1 | 7.66 | 682835 | 20.0 |
| Indene | 8.19 | 4.0 | ng/ul | 136631 | 1 | 7.66 | 682835 | 20.0 |
| 2-Cyclopenten-1-o... | 8.32 | 11.6 | ng/ul | 395483 | 1 | 7.66 | 682835 | 20.0 |
| Cyclononanone | 8.62 | 7.8 | ng/ul | 265117 | 1 | 7.66 | 682835 | 20.0 |
| unknown-01 | 8.68 | 3.5 | ng/ul | 118341 | 1 | 7.66 | 682835 | 20.0 |
| Benzofuran, 2,3-d... | 8.73 | 5.0 | ng/ul | 171592 | 1 | 7.66 | 682835 | 20.0 |
| Ethanone, 1-(1-cy... | 8.77 | 7.9 | ng/ul | 270181 | 1 | 7.66 | 682835 | 20.0 |
| Phenol, 2,6-dimet... | 9.07 | 23.6 | ng/ul | 1263120 | 2 | 10.43 | 1070360 | 20.0 |
| Benzofuran, 2-met... | 9.19 | 13.7 | ng/ul | 734878 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 2-ethyl- | 9.43 | 11.1 | ng/ul | 592679 | 2 | 10.43 | 1070360 | 20.0 |
| 1H-Pyrazole, 1,3,... | 9.75 | 4.3 | ng/ul | 228227 | 2 | 10.43 | 1070360 | 20.0 |
| 1H-Indene, 1-methyl- | 9.85 | 4.3 | ng/ul | 231426 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 3-ethyl- | 9.90 | 41.0 | ng/ul | 2196110 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 2,3-dimet... | 9.94 | 36.8 | ng/ul | 1967290 | 2 | 10.43 | 1070360 | 20.0 |
| unknown-02 | 10.15 | 3.1 | ng/ul | 168102 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 2-(1-meth... | 10.27 | 14.1 | ng/ul | 755959 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 3,4-dimet... | 10.33 | 14.9 | ng/ul | 795746 | 2 | 10.43 | 1070360 | 20.0 |
| 2-Propenal, 2-met... | 10.68 | 3.7 | ng/ul | 199515 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 2-propyl- | 10.72 | 7.3 | ng/ul | 393178 | 2 | 10.43 | 1070360 | 20.0 |
| Phenol, 2-ethyl-6... | 10.81 | 19.4 | ng/ul | 1040150 | 2 | 10.43 | 1070360 | 20.0 |