LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.928 | 3 | 4 | 6 | rBV | 1161 | 1079 | 0.02% | 0.002% |
| 2 | 1.959 | 6 | 9 | 17 | rVB4 | 4439 | 9197 | 0.18% | 0.018% |
| 3 | 2.154 | 37 | 41 | 46 | rBV3 | 4615 | 10273 | 0.20% | 0.020% |
| 4 | 2.282 | 58 | 62 | 64 | rBV4 | 2286 | 3431 | 0.07% | 0.007% |
| 5 | 2.349 | 64 | 73 | 86 | rVV | 316760 | 568170 | 11.29% | 1.109% |
| 6 | 2.617 | 114 | 117 | 119 | rBV4 | 6901 | 9494 | 0.19% | 0.019% |
| 7 | 2.672 | 124 | 126 | 128 | rBV3 | 3569 | 3062 | 0.06% | 0.006% |
| 8 | 2.885 | 154 | 161 | 173 | rBV | 223135 | 525551 | 10.44% | 1.026% |
| 9 | 3.233 | 216 | 218 | 220 | rBV | 985 | 1112 | 0.02% | 0.002% |
| 10 | 3.385 | 236 | 243 | 253 | rVB2 | 11484 | 28308 | 0.56% | 0.055% |
| 11 | 3.465 | 253 | 256 | 257 | rBV3 | 1059 | 1016 | 0.02% | 0.002% |
| 12 | 3.532 | 264 | 267 | 272 | rVB4 | 1668 | 2475 | 0.05% | 0.005% |
| 13 | 3.684 | 288 | 292 | 295 | rBV3 | 925 | 1259 | 0.03% | 0.002% |
| 14 | 4.013 | 333 | 346 | 369 | rBV | 341558 | 1084395 | 21.55% | 2.117% |
| 15 | 4.184 | 372 | 374 | 377 | rVB3 | 1150 | 1061 | 0.02% | 0.002% |
| 16 | 4.379 | 404 | 406 | 410 | rBV4 | 891 | 1503 | 0.03% | 0.003% |
| 17 | 4.781 | 469 | 472 | 475 | rBV3 | 1110 | 1506 | 0.03% | 0.003% |
| 18 | 4.916 | 479 | 494 | 511 | rBV3 | 40691 | 164416 | 3.27% | 0.321% |
| 19 | 5.147 | 528 | 532 | 534 | rBV3 | 1666 | 2403 | 0.05% | 0.005% |
| 20 | 5.434 | 576 | 579 | 585 | rVB4 | 904 | 1693 | 0.03% | 0.003% |
| 21 | 5.745 | 622 | 630 | 641 | rBV7 | 6531 | 19947 | 0.40% | 0.039% |
| 22 | 5.934 | 652 | 661 | 672 | rBV4 | 10930 | 29747 | 0.59% | 0.058% |
| 23 | 6.171 | 696 | 700 | 705 | rVB2 | 858 | 1126 | 0.02% | 0.002% |
| 24 | 6.476 | 748 | 750 | 753 | rBV2 | 994 | 1220 | 0.02% | 0.002% |
| 25 | 6.909 | 818 | 821 | 826 | rVB5 | 725 | 1050 | 0.02% | 0.002% |
| 26 | 7.080 | 838 | 849 | 853 | rBV | 108593 | 323047 | 6.42% | 0.631% |
| 27 | 7.129 | 853 | 857 | 870 | rVB2 | 103712 | 275243 | 5.47% | 0.537% |
| 28 | 7.287 | 882 | 883 | 888 | rVB3 | 983 | 1261 | 0.03% | 0.002% |
| 29 | 7.379 | 894 | 898 | 903 | rBV5 | 1359 | 2254 | 0.04% | 0.004% |
| 30 | 7.549 | 923 | 926 | 931 | rVB4 | 1334 | 1990 | 0.04% | 0.004% |
| 31 | 7.647 | 931 | 942 | 952 | rBV | 657421 | 1592033 | 31.64% | 3.108% |
| 32 | 7.720 | 952 | 954 | 958 | rVB3 | 924 | 1170 | 0.02% | 0.002% |
| 33 | 7.878 | 978 | 980 | 984 | rBV3 | 809 | 1118 | 0.02% | 0.002% |
| 34 | 7.952 | 987 | 992 | 999 | rVB6 | 2798 | 7068 | 0.14% | 0.014% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.134 | 1020 | 1022 | 1024 | rBV2 | 953 | 1067 | 0.02% | 0.002% |
| 36 | 8.275 | 1032 | 1045 | 1060 | rBV2 | 1511355 | 4297939 | 85.42% | 8.389% |
| 37 | 8.397 | 1063 | 1065 | 1070 | rVV6 | 3643 | 6216 | 0.12% | 0.012% |
| 38 | 8.470 | 1074 | 1077 | 1078 | rVV3 | 1596 | 1894 | 0.04% | 0.004% |
| 39 | 8.506 | 1082 | 1083 | 1088 | rVB4 | 1041 | 1293 | 0.03% | 0.003% |
| 40 | 8.689 | 1108 | 1113 | 1119 | rVB5 | 2870 | 4754 | 0.09% | 0.009% |
| 41 | 8.842 | 1123 | 1138 | 1149 | rBV | 1398108 | 2783296 | 55.32% | 5.433% |
| 42 | 9.073 | 1169 | 1176 | 1184 | rVB7 | 5067 | 12103 | 0.24% | 0.024% |
| 43 | 9.146 | 1184 | 1188 | 1192 | rVB5 | 1269 | 2091 | 0.04% | 0.004% |
| 44 | 9.275 | 1195 | 1209 | 1218 | rBV | 978679 | 2018838 | 40.12% | 3.941% |
| 45 | 9.470 | 1240 | 1241 | 1248 | rVB6 | 2048 | 2764 | 0.05% | 0.005% |
| 46 | 9.659 | 1265 | 1272 | 1278 | rBV5 | 6933 | 16381 | 0.33% | 0.032% |
| 47 | 9.756 | 1281 | 1288 | 1294 | rVB4 | 8690 | 16991 | 0.34% | 0.033% |
| 48 | 9.890 | 1303 | 1310 | 1317 | rBV2 | 20157 | 42710 | 0.85% | 0.083% |
| 49 | 10.030 | 1317 | 1333 | 1344 | rBV | 440497 | 797555 | 15.85% | 1.557% |
| 50 | 10.122 | 1344 | 1348 | 1353 | rVV4 | 4404 | 8111 | 0.16% | 0.016% |
| 51 | 10.207 | 1357 | 1362 | 1363 | rBV3 | 3855 | 4905 | 0.10% | 0.010% |
| 52 | 10.244 | 1364 | 1368 | 1372 | rVV3 | 9061 | 16587 | 0.33% | 0.032% |
| 53 | 10.323 | 1372 | 1381 | 1389 | rVV | 1692774 | 3031768 | 60.25% | 5.918% |
| 54 | 10.384 | 1389 | 1391 | 1397 | rVB2 | 6808 | 10380 | 0.21% | 0.020% |
| 55 | 10.500 | 1406 | 1410 | 1411 | rBV3 | 959 | 1371 | 0.03% | 0.003% |
| 56 | 10.573 | 1414 | 1422 | 1435 | rBV | 242898 | 423399 | 8.41% | 0.826% |
| 57 | 10.701 | 1435 | 1443 | 1451 | rBV | 195231 | 353268 | 7.02% | 0.690% |
| 58 | 10.762 | 1451 | 1453 | 1459 | rVB6 | 3751 | 6927 | 0.14% | 0.014% |
| 59 | 10.841 | 1459 | 1466 | 1473 | rBV4 | 6605 | 13913 | 0.28% | 0.027% |
| 60 | 10.921 | 1473 | 1479 | 1492 | rBV | 387085 | 661123 | 13.14% | 1.290% |
| 61 | 11.061 | 1496 | 1502 | 1509 | rBV | 58562 | 98723 | 1.96% | 0.193% |
| 62 | 11.177 | 1516 | 1521 | 1524 | rBV4 | 13720 | 23990 | 0.48% | 0.047% |
| 63 | 11.341 | 1526 | 1548 | 1550 | rBV2 | 62368 | 254755 | 5.06% | 0.497% |
| 64 | 11.439 | 1559 | 1564 | 1572 | rVB | 117048 | 233559 | 4.64% | 0.456% |
| 65 | 11.628 | 1588 | 1595 | 1608 | rVB | 1659908 | 2833961 | 56.32% | 5.532% |
| 66 | 11.987 | 1651 | 1654 | 1658 | rBV6 | 1776 | 2597 | 0.05% | 0.005% |
| 67 | 12.079 | 1667 | 1669 | 1671 | rVB3 | 1382 | 1341 | 0.03% | 0.003% |
| 68 | 12.115 | 1671 | 1675 | 1678 | rBV5 | 1439 | 1709 | 0.03% | 0.003% |
| 69 | 12.176 | 1678 | 1685 | 1690 | rBV7 | 3802 | 8339 | 0.17% | 0.016% |
| 70 | 12.231 | 1690 | 1694 | 1695 | rBV3 | 2744 | 3612 | 0.07% | 0.007% |
| 71 | 12.420 | 1703 | 1725 | 1731 | rBV2 | 76378 | 397458 | 7.90% | 0.776% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.609 | 1750 | 1756 | 1762 | rVB | 205086 | 357524 | 7.11% | 0.698% |
| 73 | 12.689 | 1762 | 1769 | 1776 | rBV | 515370 | 862610 | 17.14% | 1.684% |
| 74 | 12.865 | 1776 | 1798 | 1823 | rBV | 762648 | 5031629 | 100.00% | 9.821% |
| 75 | 13.298 | 1847 | 1869 | 1883 | rBV4 | 753995 | 3860327 | 76.72% | 7.535% |
| 76 | 13.445 | 1884 | 1893 | 1905 | rVV | 448698 | 1964355 | 39.04% | 3.834% |
| 77 | 13.554 | 1905 | 1911 | 1923 | rVV | 1547768 | 2551773 | 50.71% | 4.981% |
| 78 | 13.652 | 1923 | 1927 | 1929 | rVV4 | 6319 | 10221 | 0.20% | 0.020% |
| 79 | 13.725 | 1930 | 1939 | 1949 | rVB2 | 39340 | 160719 | 3.19% | 0.314% |
| 80 | 13.853 | 1952 | 1960 | 1967 | rVV | 1518646 | 2678369 | 53.23% | 5.228% |
| 81 | 13.951 | 1968 | 1976 | 1989 | rVV | 368687 | 1312258 | 26.08% | 2.561% |
| 82 | 14.072 | 1990 | 1996 | 2010 | rVB2 | 84379 | 184015 | 3.66% | 0.359% |
| 83 | 14.194 | 2013 | 2016 | 2019 | rBV4 | 5047 | 7138 | 0.14% | 0.014% |
| 84 | 14.298 | 2019 | 2033 | 2055 | rBV | 181084 | 666589 | 13.25% | 1.301% |
| 85 | 14.530 | 2055 | 2071 | 2084 | rBV3 | 459160 | 1630642 | 32.41% | 3.183% |
| 86 | 14.652 | 2084 | 2091 | 2092 | rBV6 | 18252 | 29877 | 0.59% | 0.058% |
| 87 | 14.755 | 2099 | 2108 | 2121 | rVB3 | 166668 | 503010 | 10.00% | 0.982% |
| 88 | 14.859 | 2121 | 2125 | 2129 | rBV4 | 11624 | 22797 | 0.45% | 0.044% |
| 89 | 14.950 | 2130 | 2140 | 2150 | rVB4 | 91786 | 290895 | 5.78% | 0.568% |
| 90 | 15.072 | 2150 | 2160 | 2168 | rBV2 | 173350 | 604372 | 12.01% | 1.180% |
| 91 | 15.243 | 2181 | 2188 | 2198 | rVB6 | 45207 | 148797 | 2.96% | 0.290% |
| 92 | 15.438 | 2210 | 2220 | 2223 | rBV | 110367 | 295719 | 5.88% | 0.577% |
| 93 | 15.493 | 2223 | 2229 | 2241 | rVV2 | 174326 | 581871 | 11.56% | 1.136% |
| 94 | 15.621 | 2241 | 2250 | 2270 | rVB2 | 248227 | 968698 | 19.25% | 1.891% |
| 95 | 15.840 | 2277 | 2286 | 2291 | rBV2 | 18624 | 56806 | 1.13% | 0.111% |
| 96 | 15.950 | 2291 | 2304 | 2322 | rVB7 | 110284 | 546664 | 10.86% | 1.067% |
| 97 | 16.121 | 2323 | 2332 | 2343 | rBV2 | 147250 | 479852 | 9.54% | 0.937% |
| 98 | 16.371 | 2364 | 2373 | 2375 | rBV5 | 48671 | 123417 | 2.45% | 0.241% |
| 99 | 16.438 | 2378 | 2384 | 2398 | rVB6 | 108231 | 408028 | 8.11% | 0.796% |
| 100 | 16.645 | 2409 | 2418 | 2428 | rVB | 829404 | 1815545 | 36.08% | 3.544% |

Sum of corrected areas: 51231883

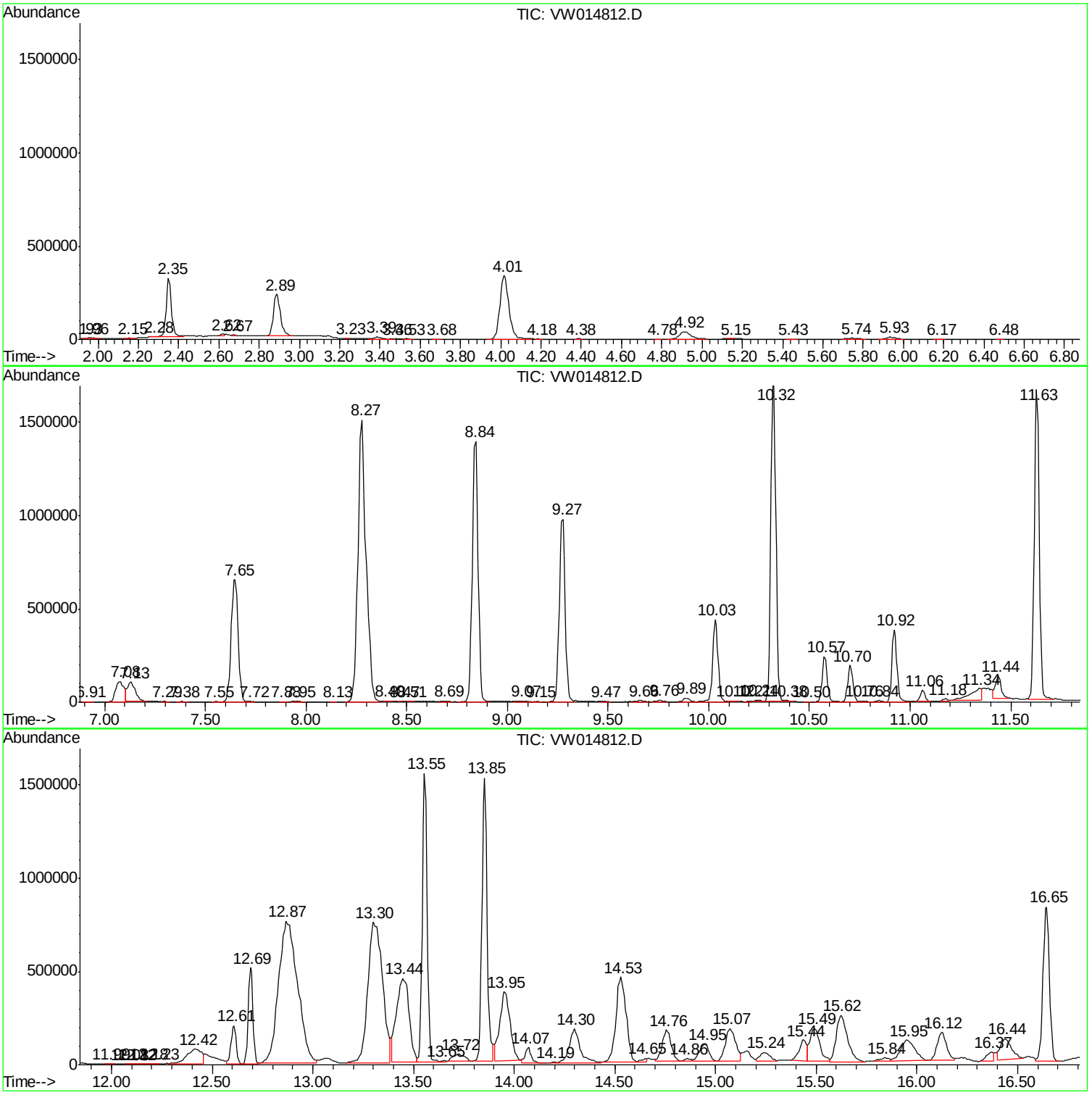
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

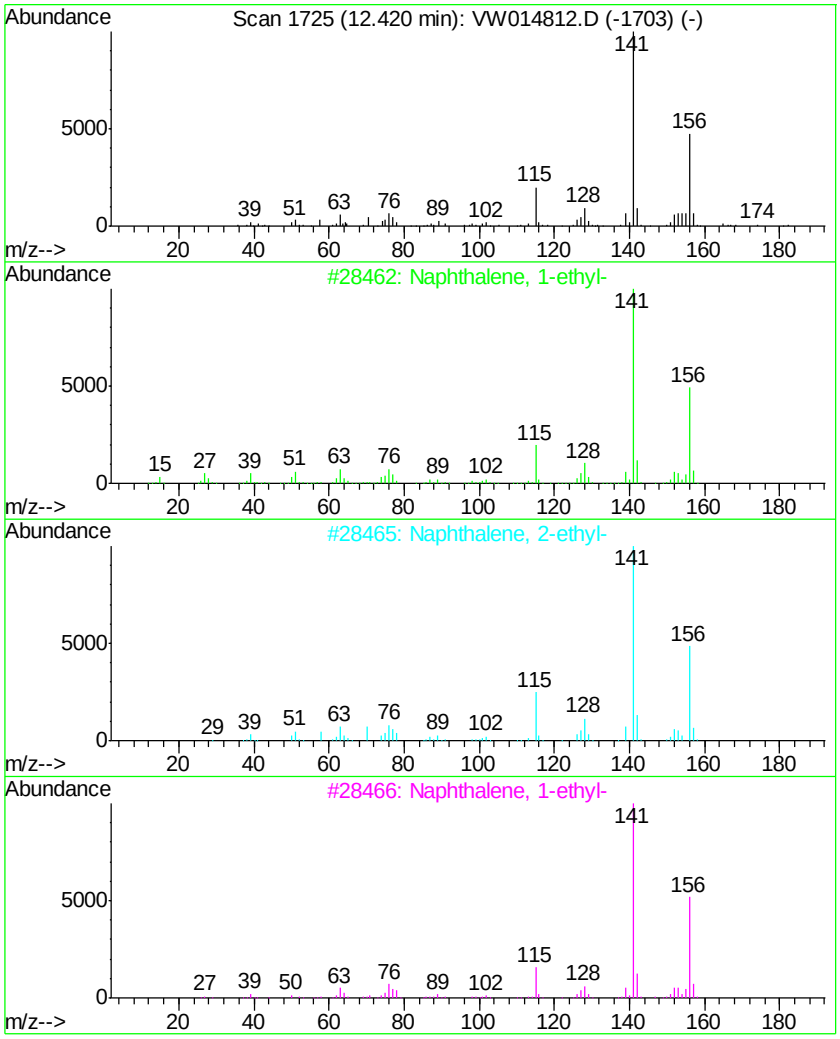
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

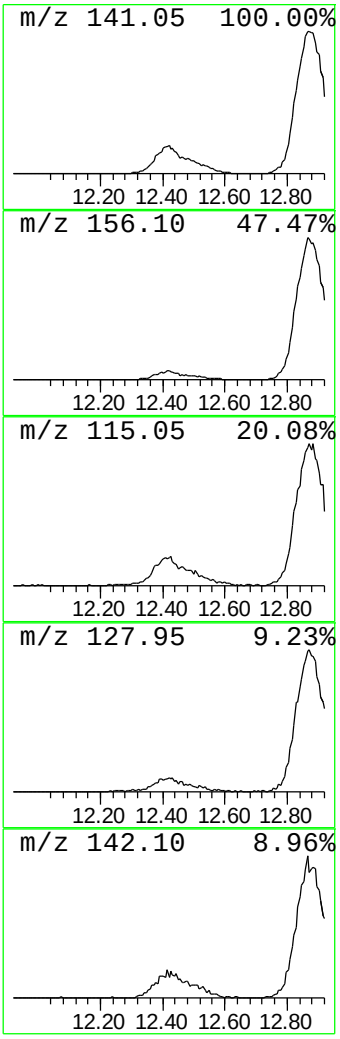
**********

Peak Number 5 Naphthalene, 1-ethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 3.51 ug/L | 397458 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 97 |
| 2 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 95 |
| 3 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 94 |
| 4 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 94 |
| 5 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 93 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

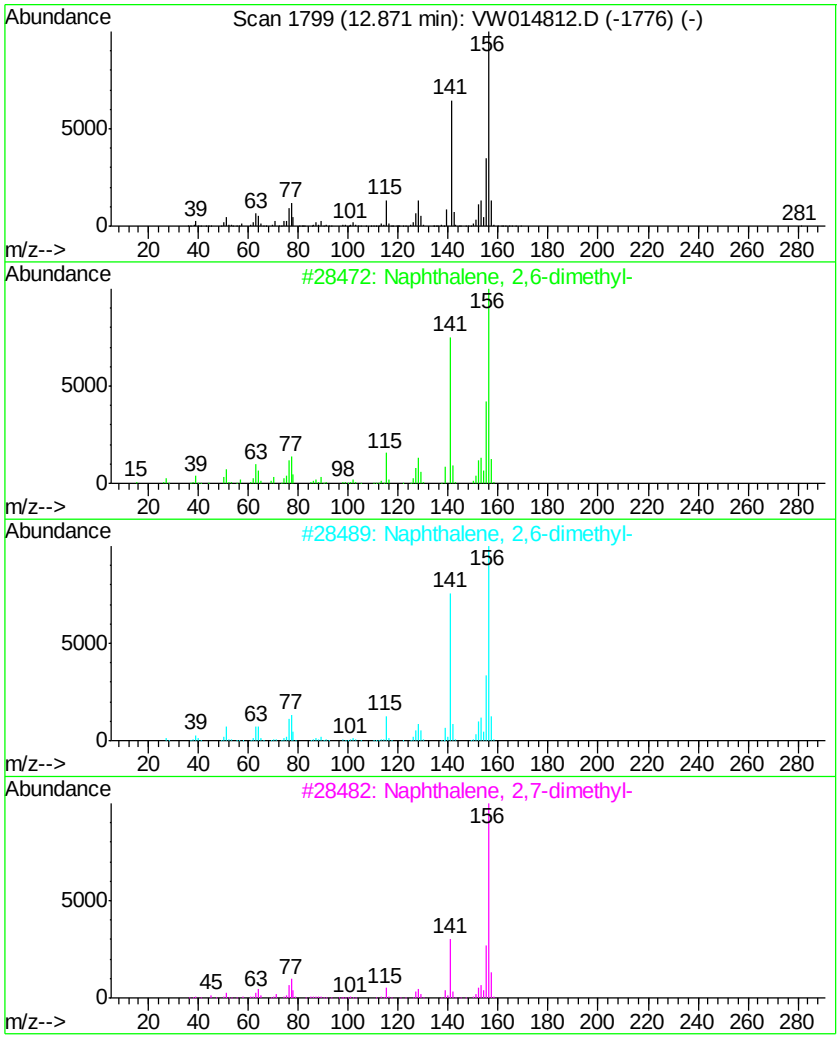
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

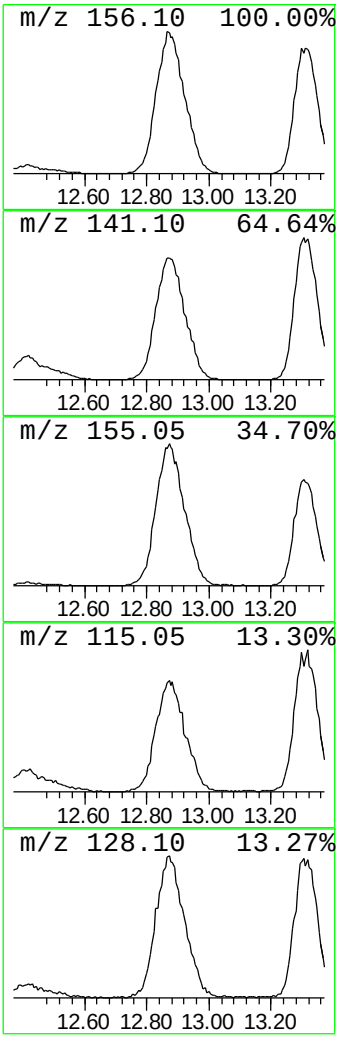
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Naphthalene, 2,6-dimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.87 | 49.30 ug/L | 5031630 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

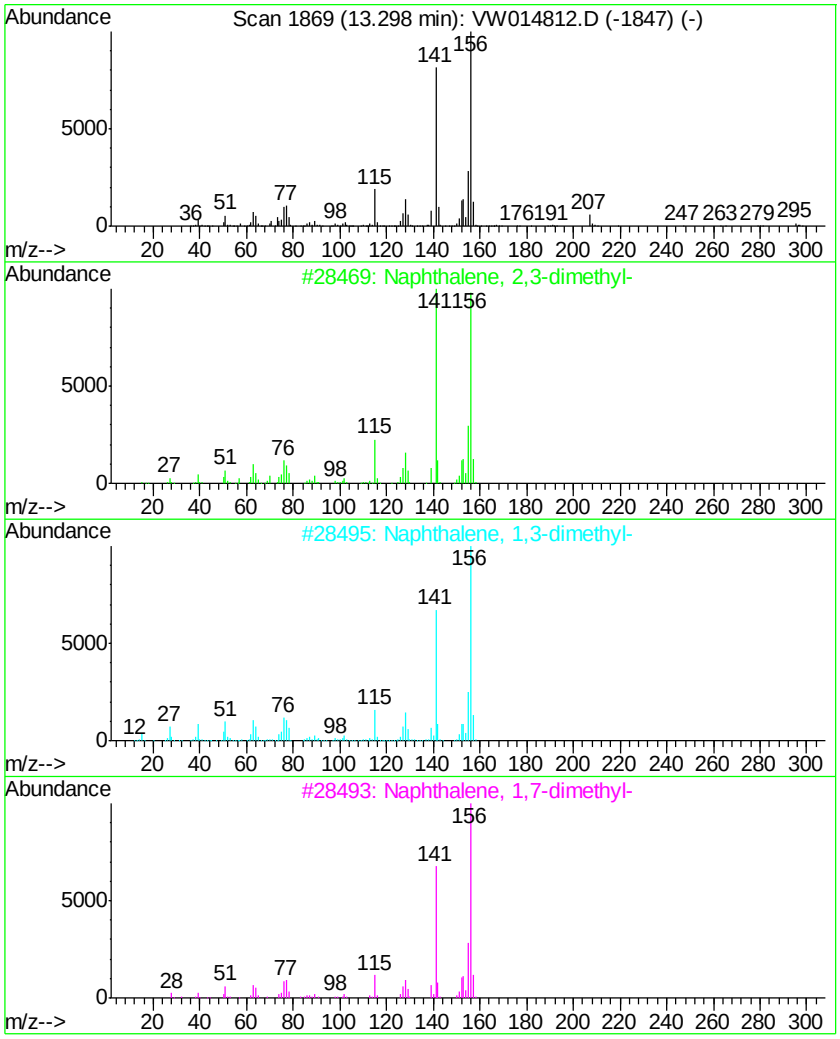
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

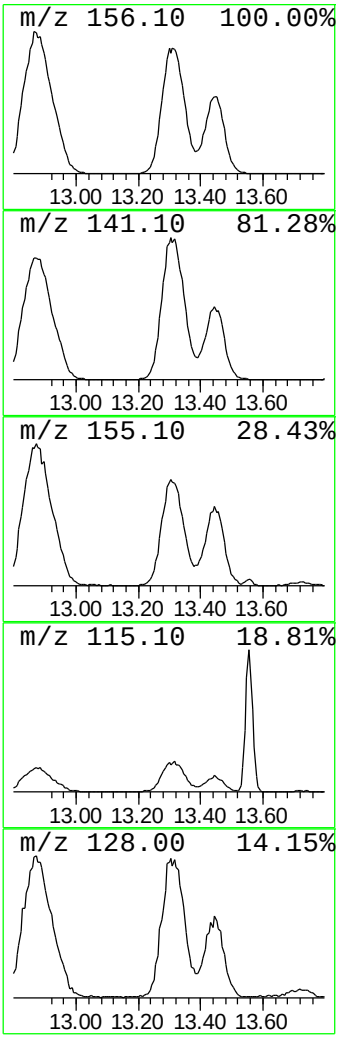
**********

Peak Number 8 Naphthalene, 2,3-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.30 | 37.82 ug/L | 3860330 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

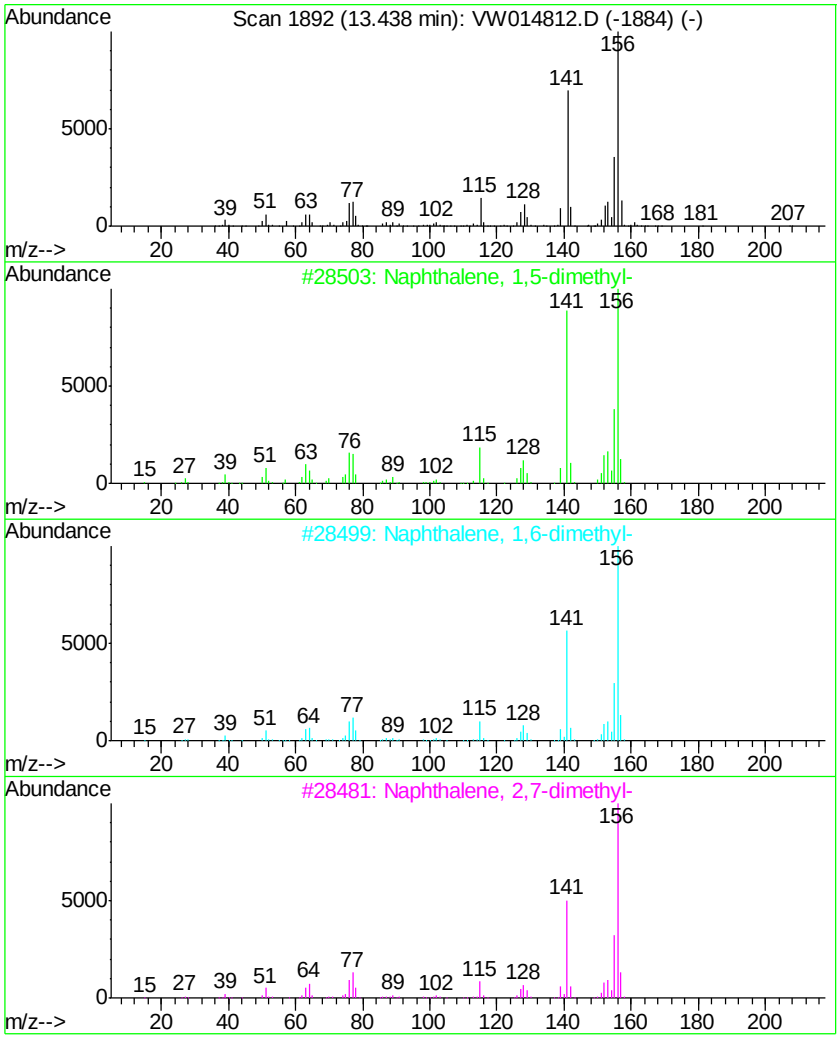
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

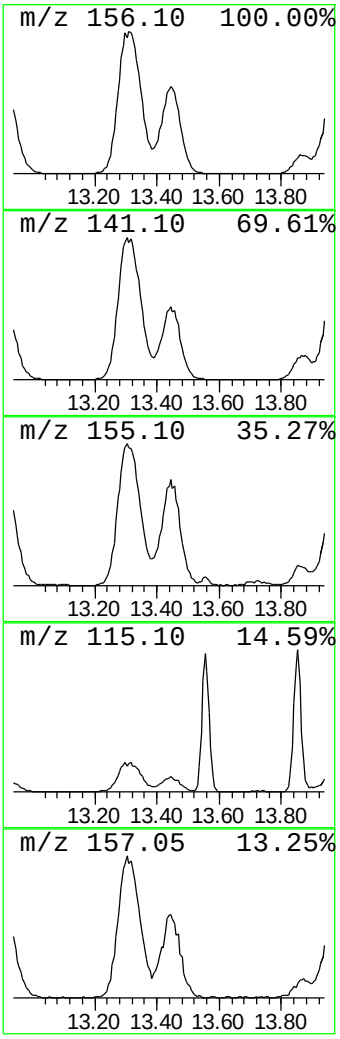
**********

Peak Number 9 Naphthalene, 1,5-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.44 | 19.25 ug/L | 1964360 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 98 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

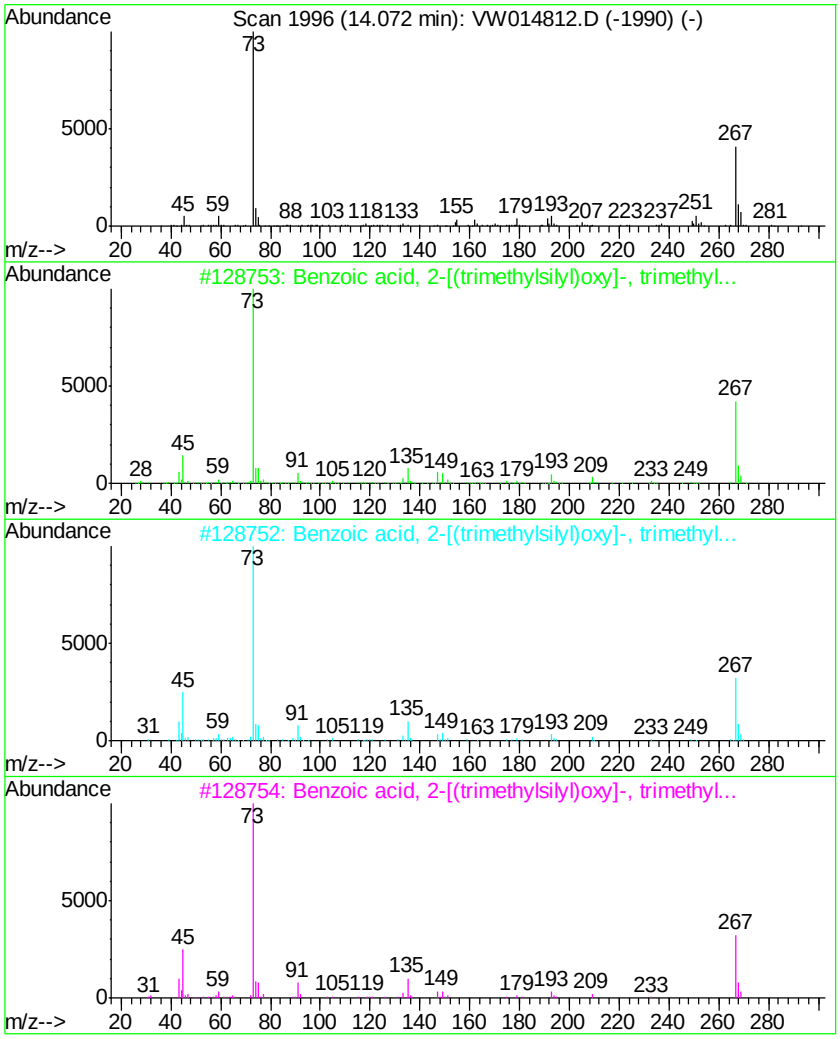
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

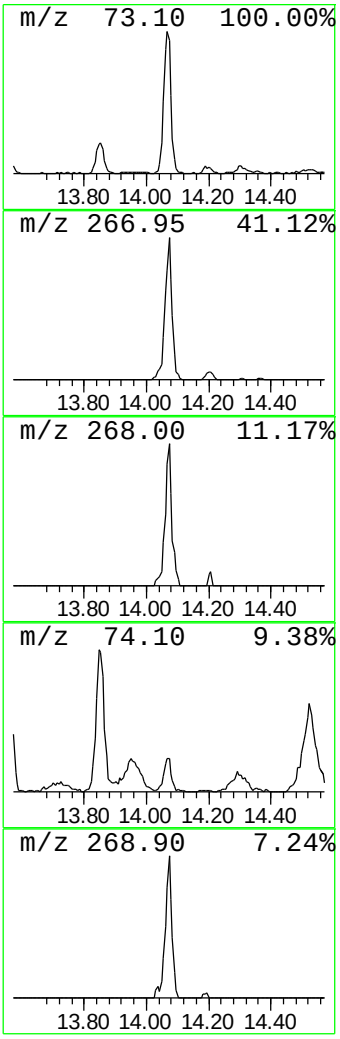
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Benzoic acid, 2-[(trimethyl... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.07 | 1.80 ug/L | 184015 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 64 |
| 2 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 50 |
| 3 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 50 |
| 4 | 11H-Dibenzo[b,e][1,4]diazepin-11... | 267 | C16H17N3O | 013450-73-2 | 46 |
| 5 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 39 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

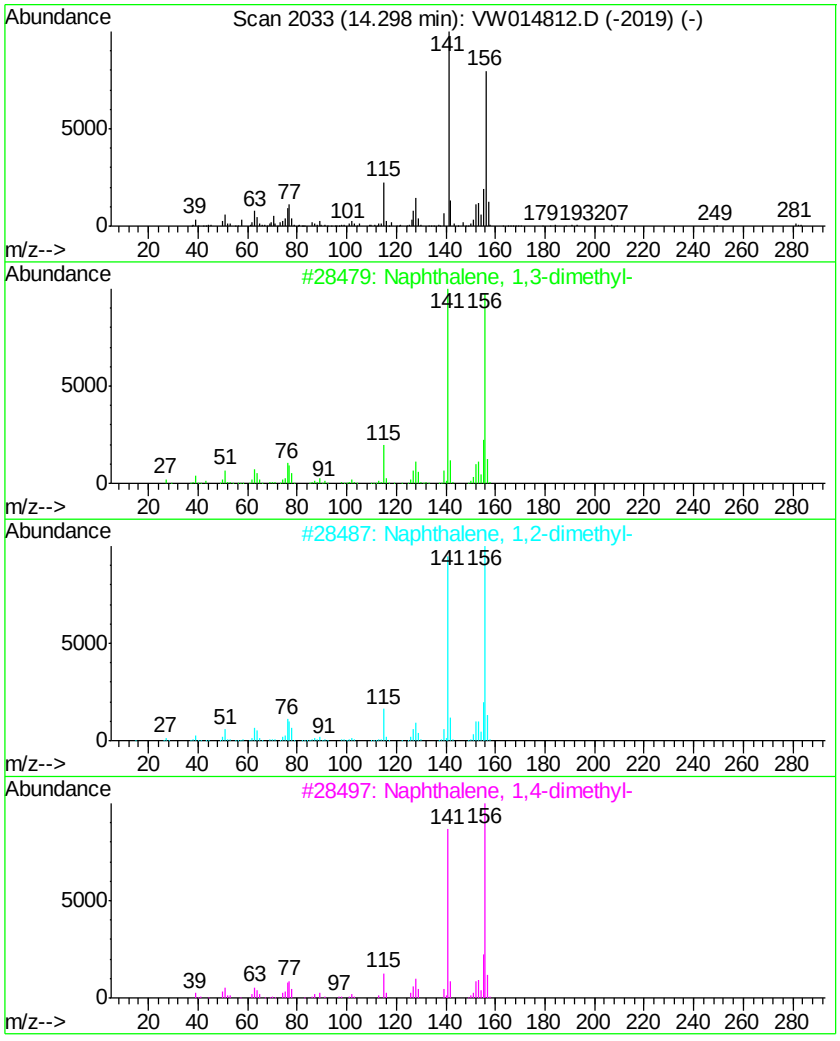
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

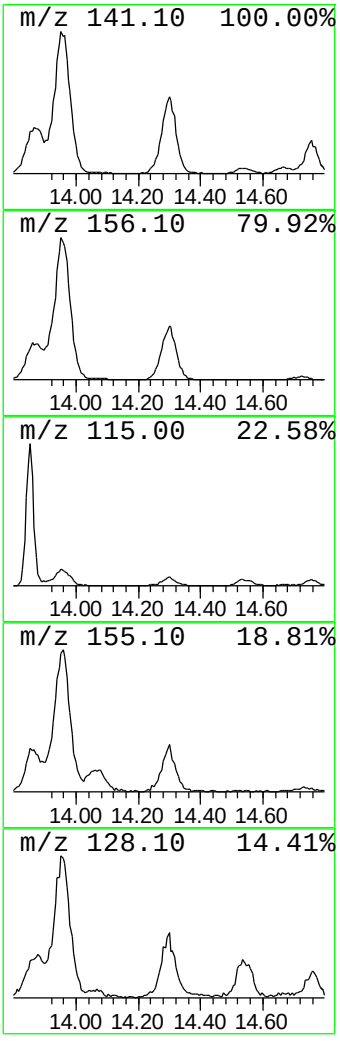
**********

Peak Number 13 Naphthalene, 1,3-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.30 | 6.53 ug/L | 666589 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 2 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 96 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 95 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 94 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

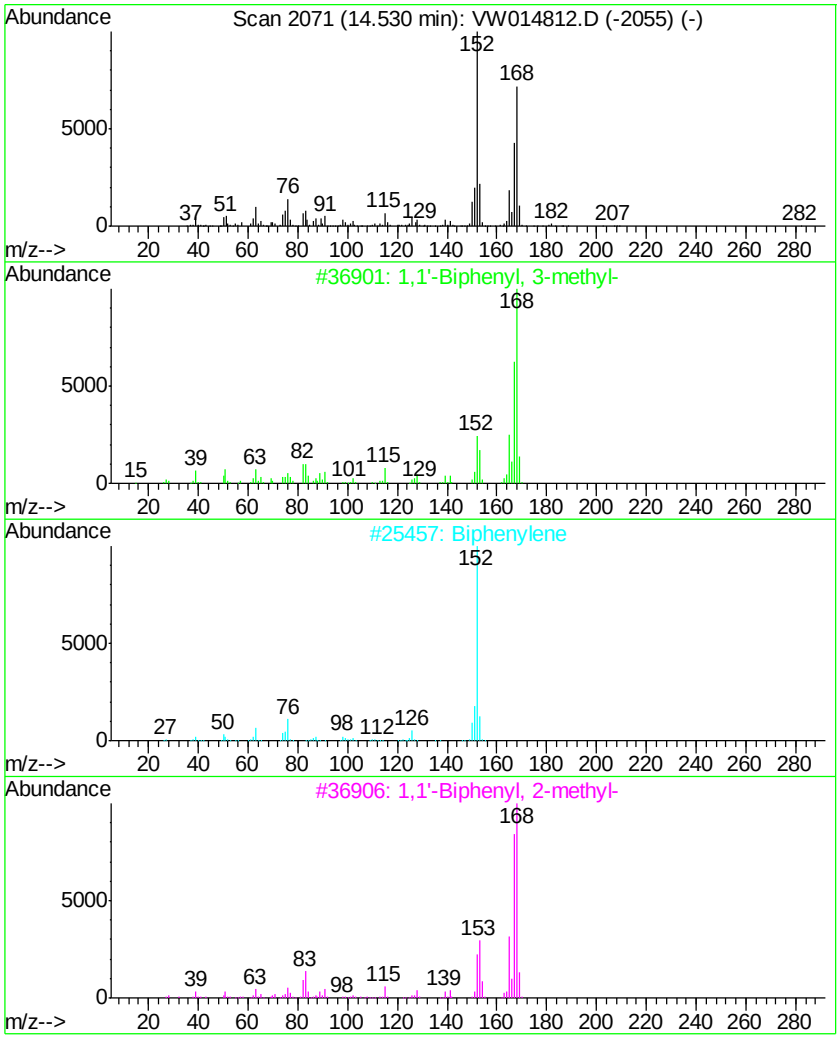
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

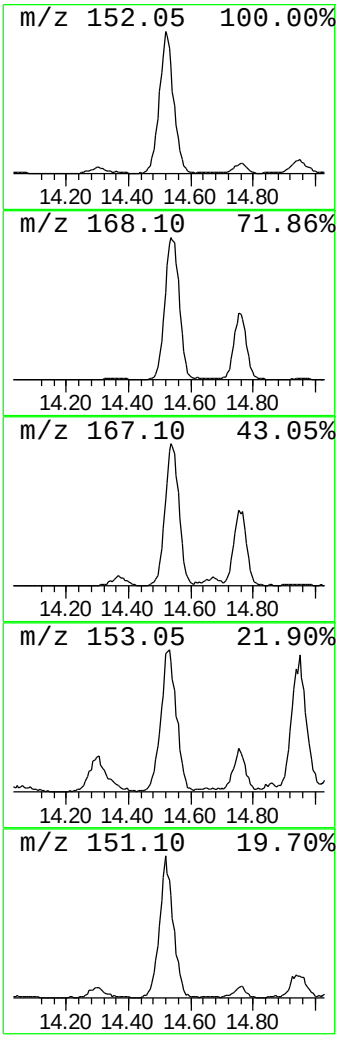
**********

Peak Number 14 1,1'-Biphenyl, 3-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.53 | 15.98 ug/L | 1630640 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 83 |
| 2 | Biphenylene | 152 | C12H8 | 000259-79-0 | 50 |
| 3 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 50 |
| 4 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 49 |
| 5 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 46 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

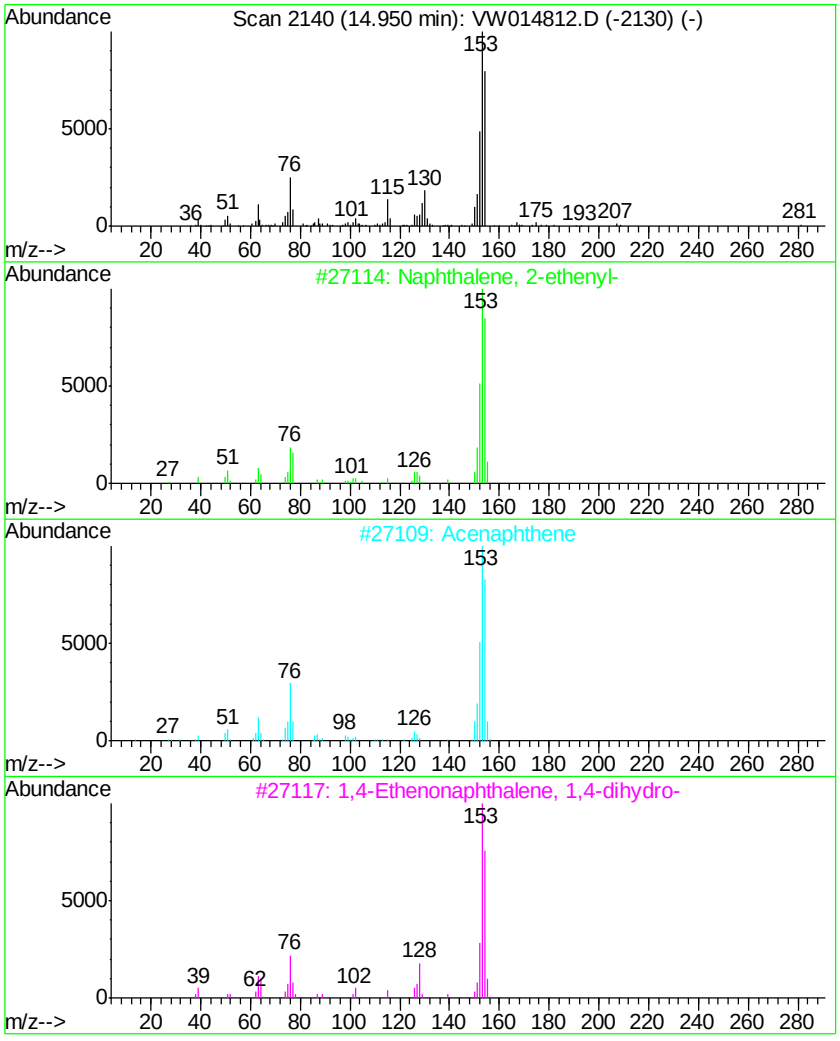
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

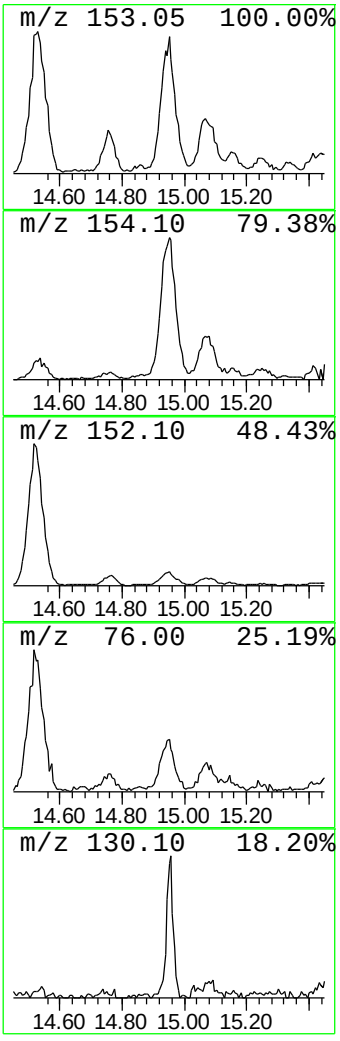
**********

Peak Number 16 Naphthalene, 2-ethenyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.95 | 2.85 ug/L | 290895 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-ethenyl- | 154 | C12H10 | 000827-54-3 | 62 |
| 2 | Acenaphthene | 154 | C12H10 | 000083-32-9 | 58 |
| 3 | 1,4-Ethenonaphthalene, 1,4-dihydro- | 154 | C12H10 | 007322-47-6 | 58 |
| 4 | Acenaphthene | 154 | C12H10 | 000083-32-9 | 49 |
| 5 | Acenaphthene | 154 | C12H10 | 000083-32-9 | 46 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

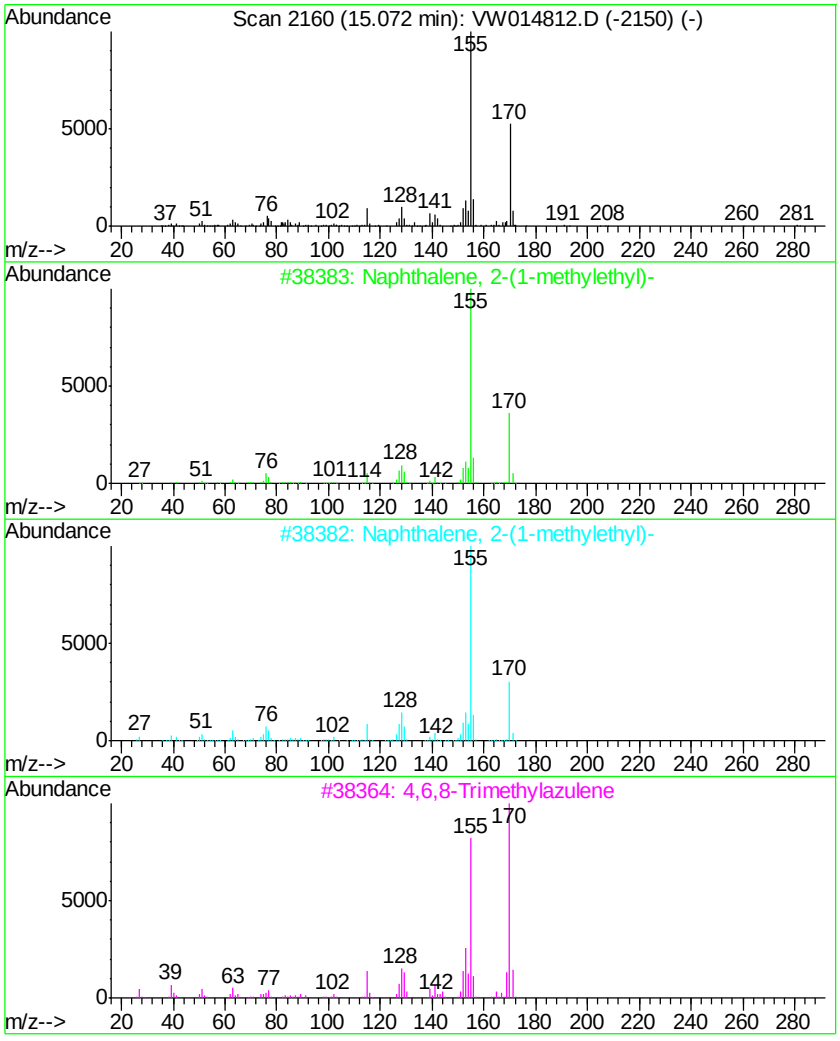
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

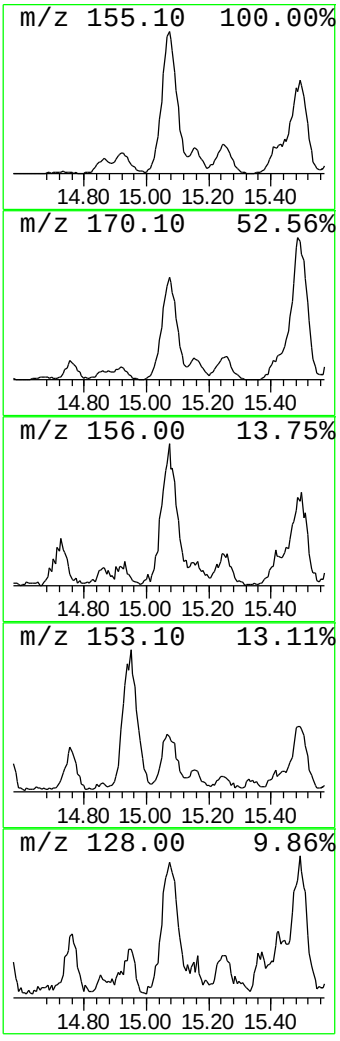
**********

Peak Number 17 Naphthalene, 2-(1-methyleth... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.07 | 5.92 ug/L | 604372 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 94 |
| 2 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 3 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 70 |
| 4 | Ethanone, 1-(5-chloro-2-hydroxyp... | 170 | C8H7ClO2 | 001450-74-4 | 64 |
| 5 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 62 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

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

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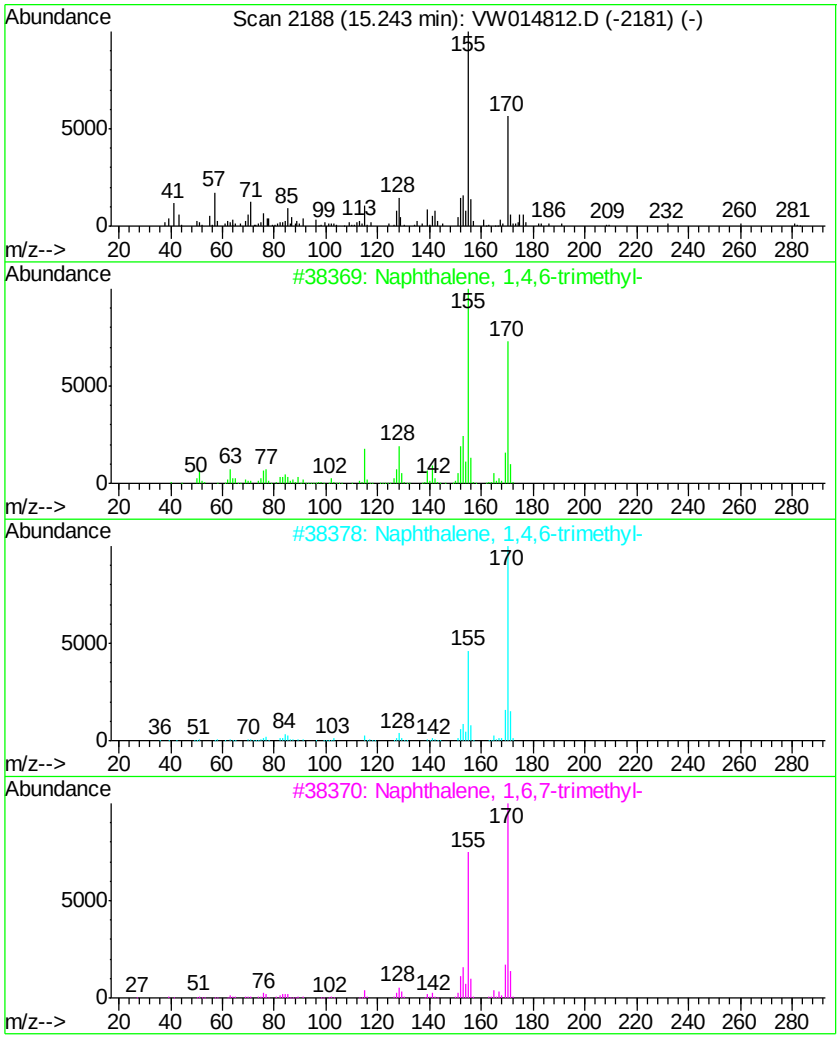
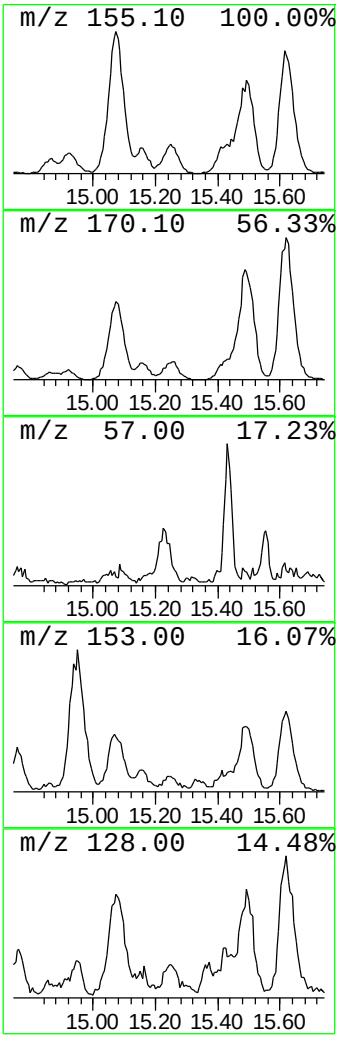
Peak Number 18 Naphthalene, 1,4,6-trimethyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.24 | 1.46 ug/L | 148797 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 93 |
| 2 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 90 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 87 |
| 4 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 86 |
| 5 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 83 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

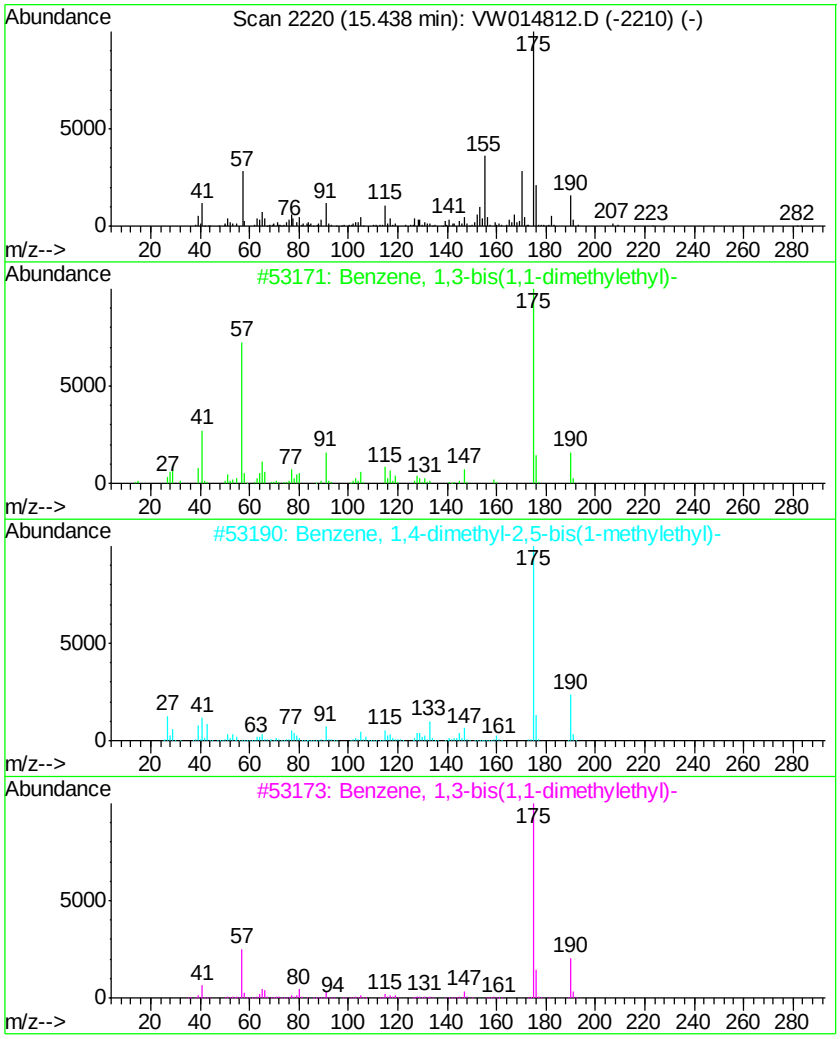
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

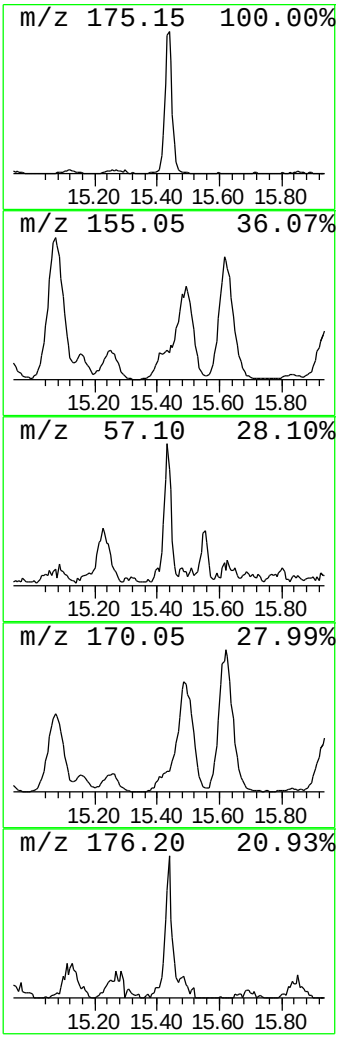
**********

Peak Number 19 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.44 | 2.90 ug/L | 295719 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-bis(1,1-dimethyleth... | 190 | C14H22 | 001014-60-4 | 60 |
| 2 | Benzene, 1,4-dimethyl-2,5-bis(1-... | 190 | C14H22 | 010375-96-9 | 55 |
| 3 | Benzene, 1,3-bis(1,1-dimethyleth... | 190 | C14H22 | 001014-60-4 | 49 |
| 4 | Benzene, 1,4-bis(1,1-dimethyleth... | 190 | C14H22 | 001012-72-2 | 49 |
| 5 | Benzene, 1,3-bis(1,1-dimethyleth... | 190 | C14H22 | 001014-60-4 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

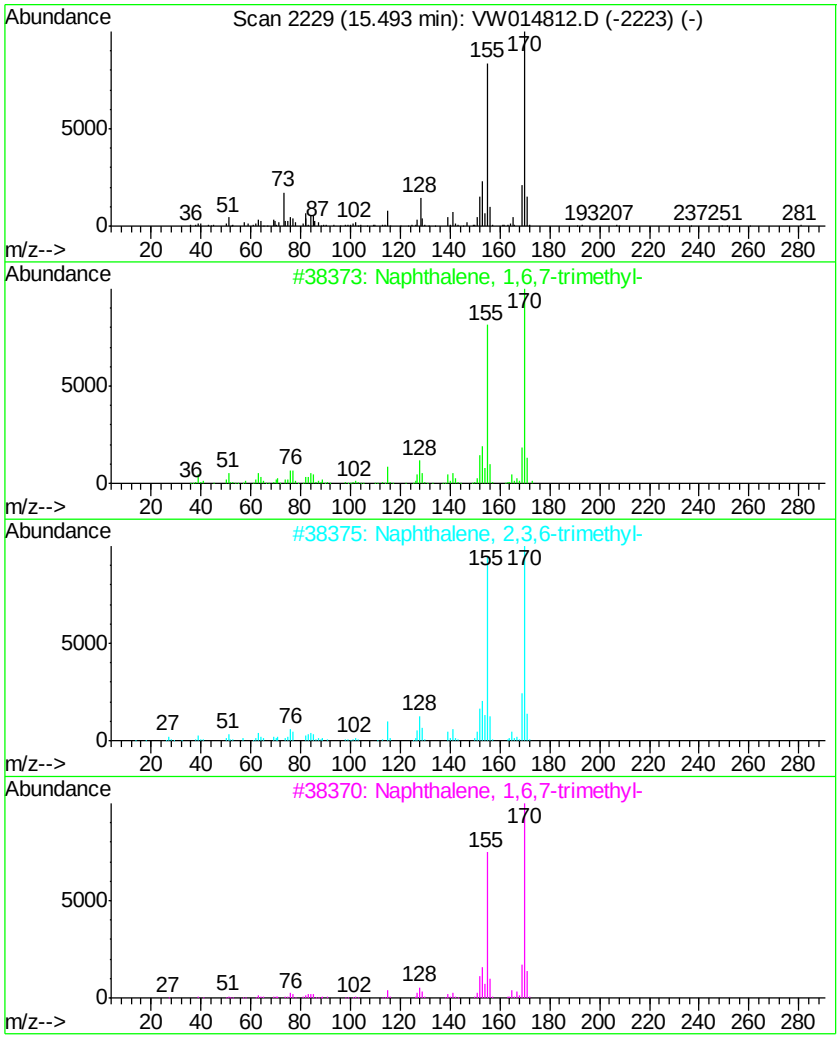
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

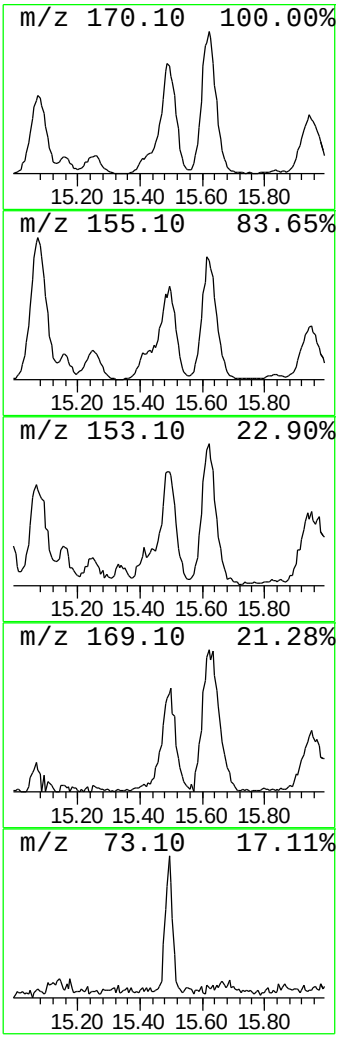
**********

Peak Number 20 Naphthalene, 1,6,7-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.49 | 5.70 ug/L | 581871 | 1,4-Dichlorobenzene-d4 | 13.55 |

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

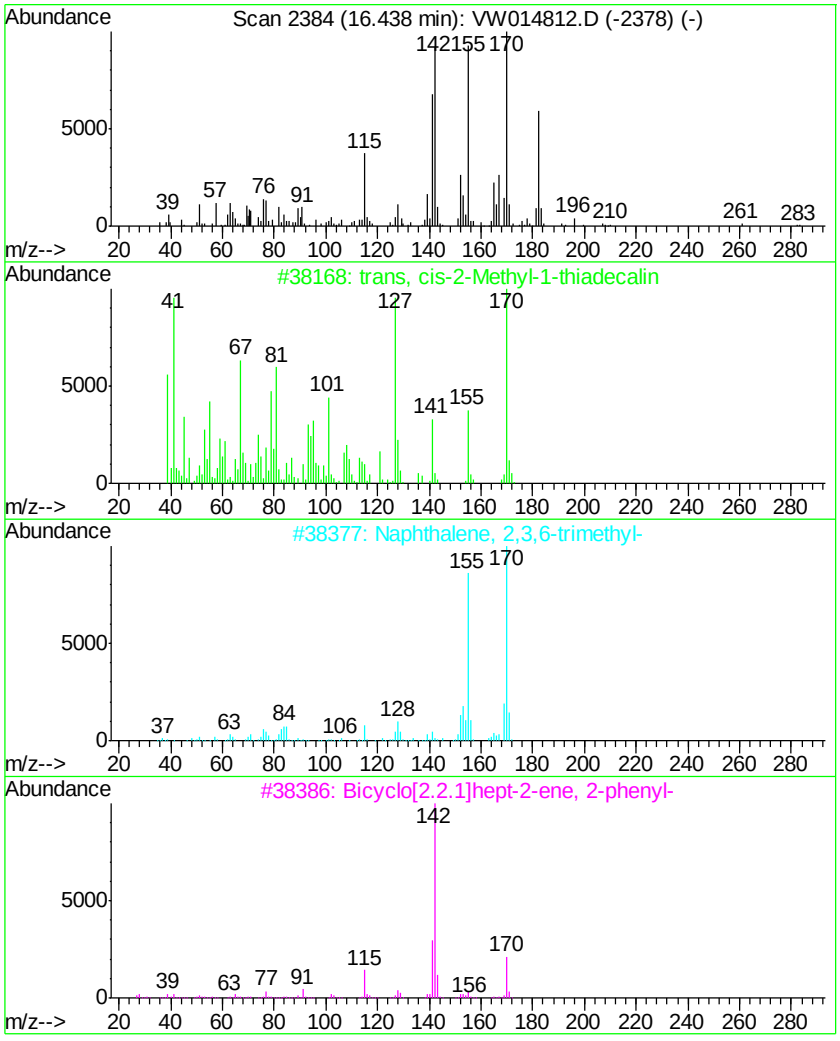
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

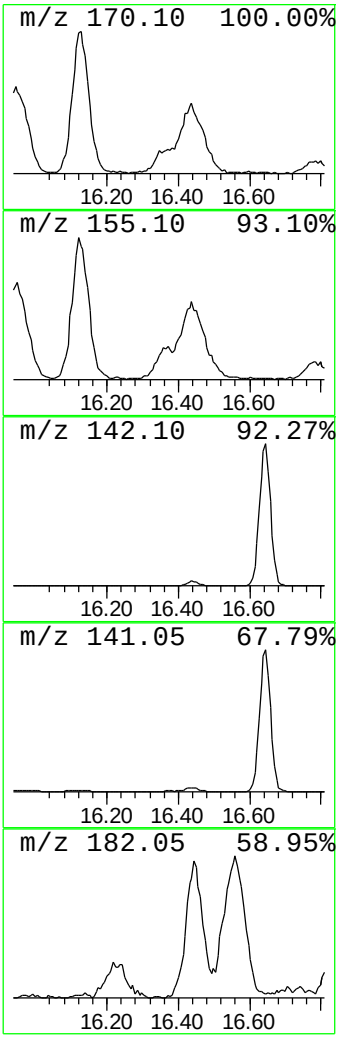
**********

Peak Number 24 unknown-01 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.44 | 4.00 ug/L | 408028 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans, cis-2-Methyl-1-thiadecalin | 170 | C10H18S | 042900-29-8 | 43 |
| 2 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 41 |
| 3 | Bicyclo[2.2.1]hept-2-ene, 2-phenyl- | 170 | C13H14 | 004237-08-5 | 38 |
| 4 | Anthracene, 1,2,3,4-tetrahydro- | 182 | C14H14 | 002141-42-6 | 35 |
| 5 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 35 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

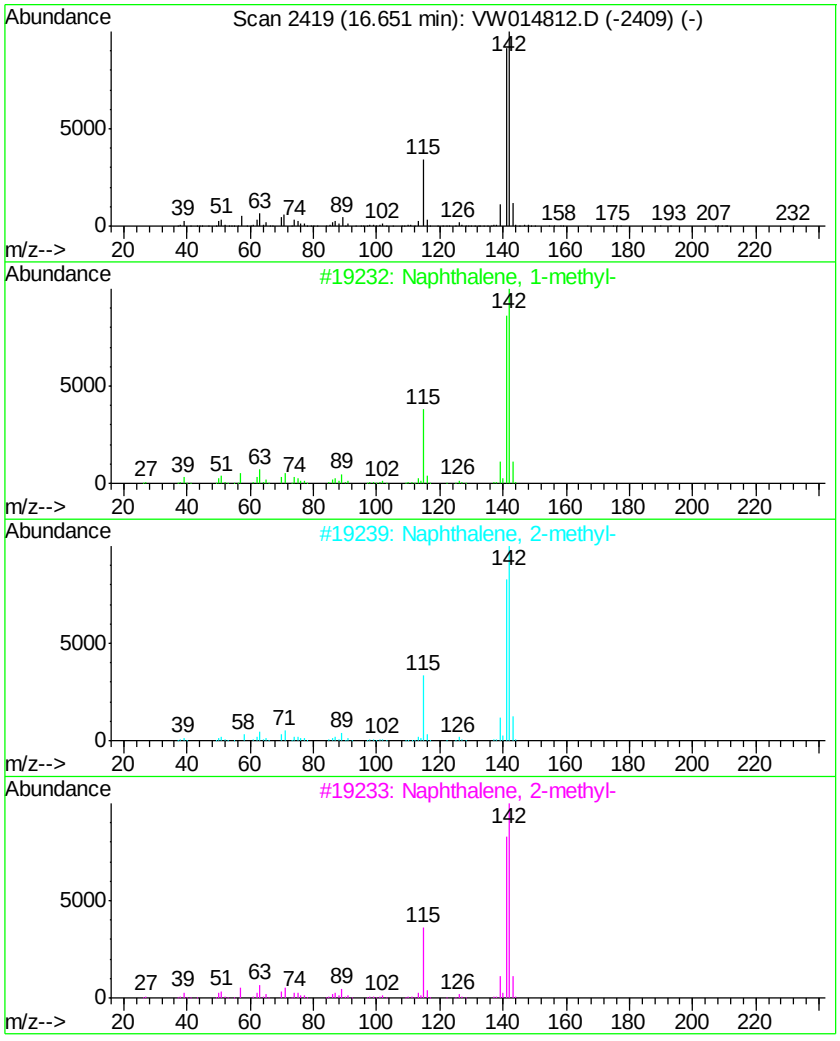
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

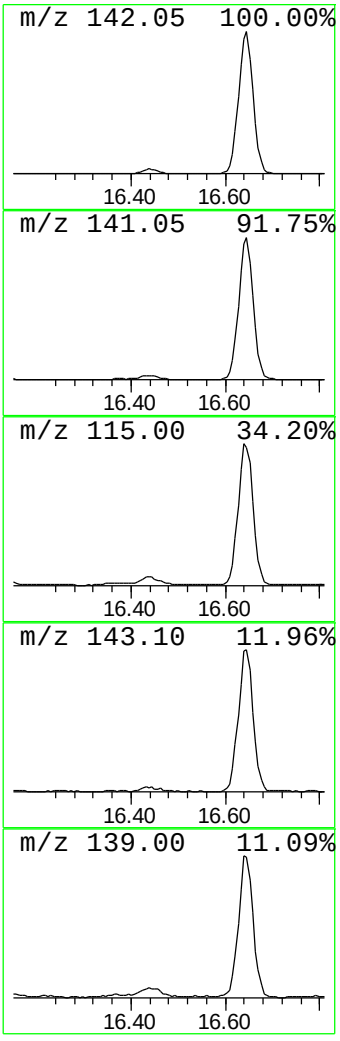
**********

Peak Number 25 Naphthalene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.65 | 17.79 ug/L | 1815550 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 97 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |
| 5 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013020\
Data File : VW014812.D
Acq On : 30 Jan 2020 15:42
Operator : SY/VA
Sample : VIBLK01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VIBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
Quant Title : VOC Analysis

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Naphthalene, 1-et... | 12.42 | 3.5 | ug/L | 397458 | 2 | 11.63 | 2833960 | 25.0 |
| Naphthalene, 2,6-... | 12.87 | 49.3 | ug/L | 5031630 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 2,3-... | 13.30 | 37.8 | ug/L | 3860330 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 1,5-... | 13.44 | 19.3 | ug/L | 1964360 | 3 | 13.55 | 2551770 | 25.0 |
| Benzoic acid, 2-[... | 14.07 | 1.8 | ug/L | 184015 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 1,3-... | 14.30 | 6.5 | ug/L | 666589 | 3 | 13.55 | 2551770 | 25.0 |
| 1,1'-Biphenyl, 3-... | 14.53 | 16.0 | ug/L | 1630640 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 2-et... | 14.95 | 2.9 | ug/L | 290895 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 2-(1... | 15.07 | 5.9 | ug/L | 604372 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 1,4,... | 15.24 | 1.5 | ug/L | 148797 | 3 | 13.55 | 2551770 | 25.0 |
| Benzene, 1,3-bis(... | 15.44 | 2.9 | ug/L | 295719 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 1,6,... | 15.49 | 5.7 | ug/L | 581871 | 3 | 13.55 | 2551770 | 25.0 |
| unknown-01 | 16.44 | 4.0 | ug/L | 408028 | 3 | 13.55 | 2551770 | 25.0 |
| Naphthalene, 1-me... | 16.65 | 17.8 | ug/L | 1815550 | 3 | 13.55 | 2551770 | 25.0 |