LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.192 | 75 | 78 | 83 | rBV | 61695 | 112519 | 4.66% | 0.270% |
| 2 | 2.350 | 89 | 94 | 103 | rBV | 206653 | 455366 | 18.86% | 1.092% |
| 3 | 2.635 | 118 | 123 | 126 | rBV | 46142 | 93419 | 3.87% | 0.224% |
| 4 | 3.167 | 172 | 177 | 189 | rBV3 | 115482 | 446786 | 18.50% | 1.071% |
| 5 | 3.836 | 232 | 245 | 268 | rBV | 568795 | 2331870 | 96.57% | 5.592% |
| 6 | 4.220 | 277 | 284 | 300 | rBV | 412121 | 1400672 | 58.00% | 3.359% |
| 7 | 4.692 | 325 | 332 | 342 | rBV | 66649 | 211673 | 8.77% | 0.508% |
| 8 | 5.066 | 363 | 370 | 379 | rBV2 | 23615 | 85078 | 3.52% | 0.204% |
| 9 | 5.529 | 408 | 417 | 426 | rBV4 | 37355 | 161774 | 6.70% | 0.388% |
| 10 | 5.706 | 426 | 435 | 440 | rBV2 | 149883 | 536257 | 22.21% | 1.286% |
| 11 | 5.804 | 440 | 445 | 452 | rVB | 160032 | 504945 | 20.91% | 1.211% |
| 12 | 6.650 | 522 | 531 | 540 | rVB5 | 34972 | 137168 | 5.68% | 0.329% |
| 13 | 6.926 | 549 | 559 | 561 | rBV | 361345 | 983607 | 40.73% | 2.359% |
| 14 | 7.044 | 567 | 571 | 575 | rBV | 456179 | 1234653 | 51.13% | 2.961% |
| 15 | 7.270 | 588 | 594 | 607 | rVB | 546278 | 1650683 | 68.36% | 3.958% |
| 16 | 7.457 | 607 | 613 | 622 | rVB | 228328 | 571807 | 23.68% | 1.371% |
| 17 | 7.615 | 622 | 629 | 632 | rBV2 | 192633 | 551362 | 22.83% | 1.322% |
| 18 | 7.694 | 632 | 637 | 644 | rVV | 702153 | 2358177 | 97.66% | 5.655% |
| 19 | 7.802 | 644 | 648 | 654 | rVB | 88942 | 264231 | 10.94% | 0.634% |
| 20 | 8.028 | 662 | 671 | 678 | rVB3 | 42665 | 160606 | 6.65% | 0.385% |
| 21 | 8.225 | 684 | 691 | 701 | rBV | 842292 | 2241797 | 92.84% | 5.376% |
| 22 | 8.451 | 710 | 714 | 719 | rVB2 | 33793 | 78836 | 3.26% | 0.189% |
| 23 | 8.865 | 746 | 756 | 760 | rBV4 | 200440 | 803883 | 33.29% | 1.928% |
| 24 | 8.943 | 760 | 764 | 768 | rVV | 149788 | 393569 | 16.30% | 0.944% |
| 25 | 9.022 | 768 | 772 | 776 | rVV | 186865 | 479814 | 19.87% | 1.151% |
| 26 | 9.101 | 776 | 780 | 783 | rVV | 60995 | 172736 | 7.15% | 0.414% |
| 27 | 9.160 | 783 | 786 | 795 | rVV | 85536 | 233073 | 9.65% | 0.559% |
| 28 | 9.317 | 795 | 802 | 807 | rVV2 | 77330 | 249959 | 10.35% | 0.599% |
| 29 | 9.553 | 819 | 826 | 834 | rVV | 391538 | 1191985 | 49.36% | 2.858% |
| 30 | 9.740 | 837 | 845 | 848 | rVV | 565198 | 1675376 | 69.38% | 4.018% |
| 31 | 9.790 | 848 | 850 | 859 | rVV | 202494 | 588286 | 24.36% | 1.411% |
| 32 | 9.918 | 859 | 863 | 864 | rVV | 98545 | 226066 | 9.36% | 0.542% |
| 33 | 9.957 | 864 | 867 | 871 | rVV | 146440 | 379535 | 15.72% | 0.910% |
| 34 | 10.065 | 874 | 878 | 880 | rVV3 | 54145 | 147123 | 6.09% | 0.353% |

LSC Area Percent Report

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Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.124 | 880 | 884 | 895 | rVV | 266142 | 835112 | 34.58% | 2.003% |
| 36 | 10.272 | 895 | 899 | 904 | rVV | 46223 | 123031 | 5.09% | 0.295% |
| 37 | 10.410 | 904 | 913 | 921 | rVV | 812693 | 2414800 | 100.00% | 5.791% |
| 38 | 10.518 | 921 | 924 | 929 | rVB2 | 30543 | 67307 | 2.79% | 0.161% |
| 39 | 10.626 | 929 | 935 | 938 | rBV2 | 108891 | 288867 | 11.96% | 0.693% |
| 40 | 10.675 | 938 | 940 | 948 | rVV4 | 80569 | 326079 | 13.50% | 0.782% |
| 41 | 10.784 | 948 | 951 | 957 | rVV4 | 52808 | 163316 | 6.76% | 0.392% |
| 42 | 10.931 | 961 | 966 | 971 | rVB3 | 71202 | 198736 | 8.23% | 0.477% |
| 43 | 11.108 | 976 | 984 | 990 | rVV5 | 123560 | 430485 | 17.83% | 1.032% |
| 44 | 11.197 | 990 | 993 | 996 | rVV3 | 36527 | 96794 | 4.01% | 0.232% |
| 45 | 11.256 | 996 | 999 | 1004 | rVB3 | 31062 | 75144 | 3.11% | 0.180% |
| 46 | 11.344 | 1004 | 1008 | 1013 | rBV | 42493 | 85137 | 3.53% | 0.204% |
| 47 | 11.492 | 1018 | 1023 | 1027 | rBV2 | 111369 | 229600 | 9.51% | 0.551% |
| 48 | 11.640 | 1031 | 1038 | 1041 | rBV | 108704 | 297130 | 12.30% | 0.713% |
| 49 | 11.758 | 1046 | 1050 | 1054 | rVB | 104427 | 221647 | 9.18% | 0.532% |
| 50 | 11.836 | 1054 | 1058 | 1062 | rBV2 | 86044 | 210425 | 8.71% | 0.505% |
| 51 | 11.905 | 1062 | 1065 | 1070 | rVB4 | 39095 | 86894 | 3.60% | 0.208% |
| 52 | 11.984 | 1070 | 1073 | 1078 | rVB3 | 40140 | 107706 | 4.46% | 0.258% |
| 53 | 12.073 | 1078 | 1082 | 1084 | rBV | 55681 | 94700 | 3.92% | 0.227% |
| 54 | 12.122 | 1084 | 1087 | 1090 | rBV2 | 106543 | 210746 | 8.73% | 0.505% |
| 55 | 12.181 | 1090 | 1093 | 1098 | rVB2 | 180248 | 384312 | 15.91% | 0.922% |
| 56 | 12.319 | 1102 | 1107 | 1109 | rBV | 203565 | 392882 | 16.27% | 0.942% |
| 57 | 12.378 | 1109 | 1113 | 1116 | rVB | 1162798 | 1948050 | 80.67% | 4.671% |
| 58 | 12.466 | 1120 | 1122 | 1126 | rVB2 | 49990 | 101836 | 4.22% | 0.244% |
| 59 | 12.545 | 1126 | 1130 | 1134 | rBV4 | 59882 | 157930 | 6.54% | 0.379% |
| 60 | 12.653 | 1134 | 1141 | 1144 | rBV5 | 63928 | 195650 | 8.10% | 0.469% |
| 61 | 12.702 | 1144 | 1146 | 1149 | rVB | 74852 | 106980 | 4.43% | 0.257% |
| 62 | 12.762 | 1149 | 1152 | 1158 | rVB2 | 99821 | 221238 | 9.16% | 0.531% |
| 63 | 12.850 | 1158 | 1161 | 1166 | rBV4 | 26693 | 66483 | 2.75% | 0.159% |
| 64 | 12.929 | 1166 | 1169 | 1173 | rBV3 | 28150 | 62159 | 2.57% | 0.149% |
| 65 | 13.008 | 1173 | 1177 | 1180 | rBV3 | 126956 | 277102 | 11.48% | 0.664% |
| 66 | 13.096 | 1184 | 1186 | 1190 | rVB2 | 90510 | 150756 | 6.24% | 0.362% |
| 67 | 13.224 | 1194 | 1199 | 1202 | rVB3 | 122312 | 217412 | 9.00% | 0.521% |
| 68 | 13.313 | 1202 | 1208 | 1213 | rVB7 | 110445 | 308909 | 12.79% | 0.741% |
| 69 | 13.490 | 1222 | 1226 | 1229 | rBV4 | 76653 | 190508 | 7.89% | 0.457% |
| 70 | 13.559 | 1230 | 1233 | 1238 | rVB2 | 905848 | 1437902 | 59.55% | 3.448% |
| 71 | 13.667 | 1242 | 1244 | 1247 | rBV2 | 71044 | 110824 | 4.59% | 0.266% |

LSC Area Percent Report

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Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.716 | 1247 | 1249 | 1252 | rVB | 112067 | 170881 | 7.08% | 0.410% |
| 73 | 13.824 | 1257 | 1260 | 1264 | rBV4 | 38319 | 72827 | 3.02% | 0.175% |
| 74 | 13.933 | 1264 | 1271 | 1273 | rBV5 | 45760 | 118109 | 4.89% | 0.283% |
| 75 | 13.982 | 1273 | 1276 | 1278 | rVB3 | 72243 | 133756 | 5.54% | 0.321% |
| 76 | 14.129 | 1287 | 1291 | 1293 | rBV | 85589 | 139260 | 5.77% | 0.334% |
| 77 | 14.169 | 1293 | 1295 | 1297 | rBV | 46756 | 64970 | 2.69% | 0.156% |
| 78 | 14.267 | 1302 | 1305 | 1309 | rVB3 | 73537 | 135454 | 5.61% | 0.325% |
| 79 | 14.336 | 1309 | 1312 | 1313 | rBV | 62757 | 94456 | 3.91% | 0.227% |
| 80 | 14.375 | 1313 | 1316 | 1318 | rBV3 | 44429 | 69377 | 2.87% | 0.166% |
| 81 | 14.444 | 1321 | 1323 | 1325 | rVB | 52680 | 62354 | 2.58% | 0.150% |
| 82 | 14.523 | 1328 | 1331 | 1337 | rBV | 1518389 | 1858058 | 76.94% | 4.456% |
| 83 | 14.631 | 1337 | 1342 | 1343 | rBV4 | 43243 | 86759 | 3.59% | 0.208% |
| 84 | 14.710 | 1347 | 1350 | 1355 | rVB | 178623 | 245320 | 10.16% | 0.588% |
| 85 | 14.789 | 1355 | 1358 | 1359 | rBV2 | 95062 | 134805 | 5.58% | 0.323% |
| 86 | 14.917 | 1368 | 1371 | 1373 | rBV | 78163 | 138480 | 5.73% | 0.332% |
| 87 | 15.064 | 1383 | 1386 | 1389 | rVV | 250906 | 333581 | 13.81% | 0.800% |
| 88 | 15.153 | 1391 | 1395 | 1400 | rVV4 | 105129 | 266512 | 11.04% | 0.639% |
| 89 | 15.232 | 1400 | 1403 | 1406 | rVB2 | 41370 | 76604 | 3.17% | 0.184% |
| 90 | 15.291 | 1406 | 1409 | 1411 | rBV3 | 41299 | 66893 | 2.77% | 0.160% |
| 91 | 15.330 | 1411 | 1413 | 1414 | rVV | 62303 | 102806 | 4.26% | 0.247% |
| 92 | 15.350 | 1414 | 1415 | 1418 | rVB | 155694 | 152310 | 6.31% | 0.365% |
| 93 | 15.428 | 1421 | 1423 | 1426 | rBV | 163091 | 227870 | 9.44% | 0.546% |
| 94 | 15.537 | 1431 | 1434 | 1436 | rVV3 | 52823 | 98586 | 4.08% | 0.236% |
| 95 | 15.684 | 1446 | 1449 | 1453 | rVV2 | 117704 | 211232 | 8.75% | 0.507% |
| 96 | 15.743 | 1453 | 1455 | 1458 | rVV | 127249 | 150037 | 6.21% | 0.360% |
| 97 | 15.920 | 1469 | 1473 | 1477 | rVV3 | 87290 | 231279 | 9.58% | 0.555% |
| 98 | 15.999 | 1479 | 1481 | 1486 | rVB3 | 59430 | 108622 | 4.50% | 0.260% |
| 99 | 16.137 | 1491 | 1495 | 1500 | rVV5 | 26871 | 69899 | 2.89% | 0.168% |
| 100 | 16.235 | 1500 | 1505 | 1507 | rVV2 | 42361 | 70804 | 2.93% | 0.170% |

Sum of corrected areas: 41701181

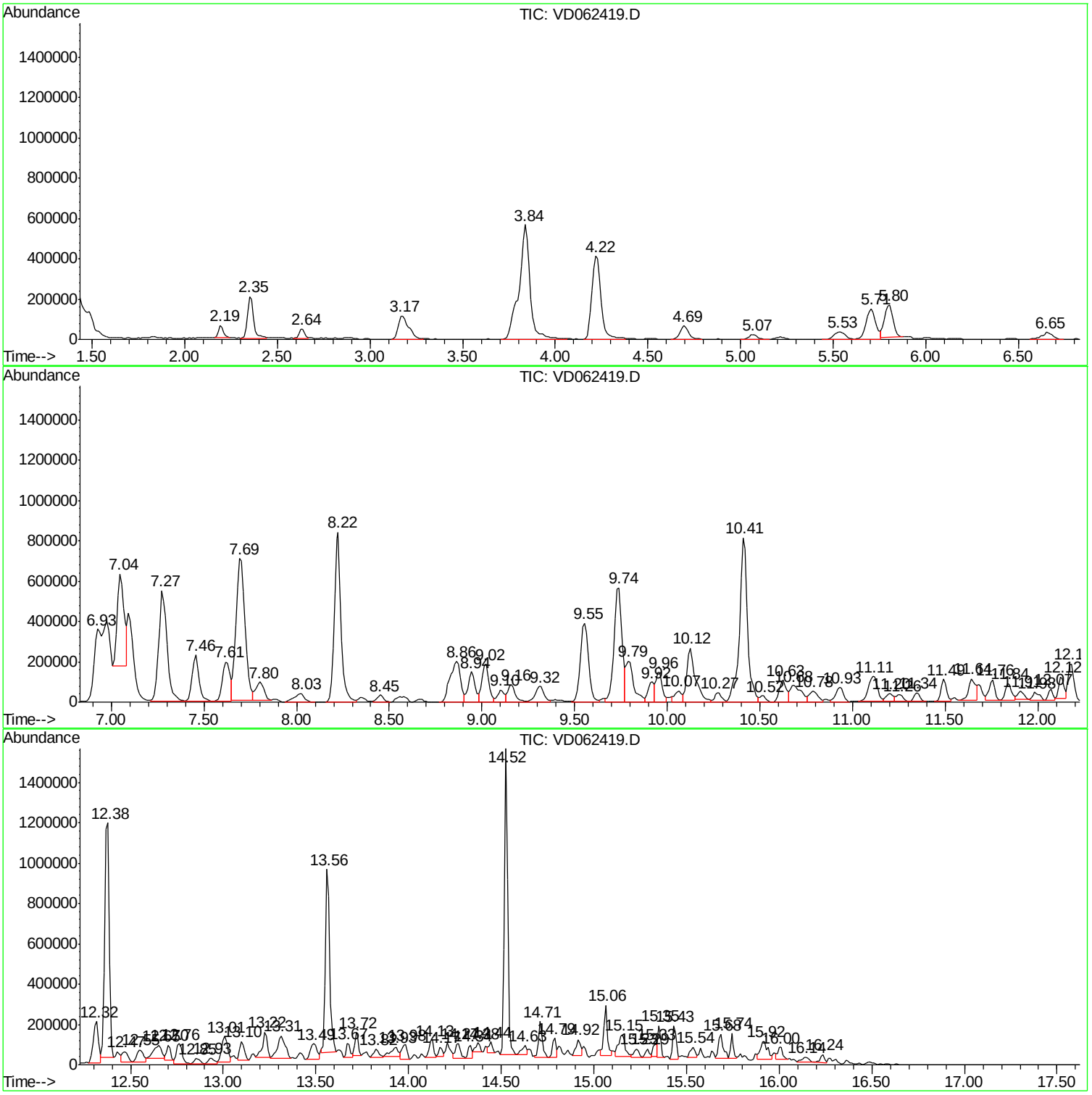
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA_D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

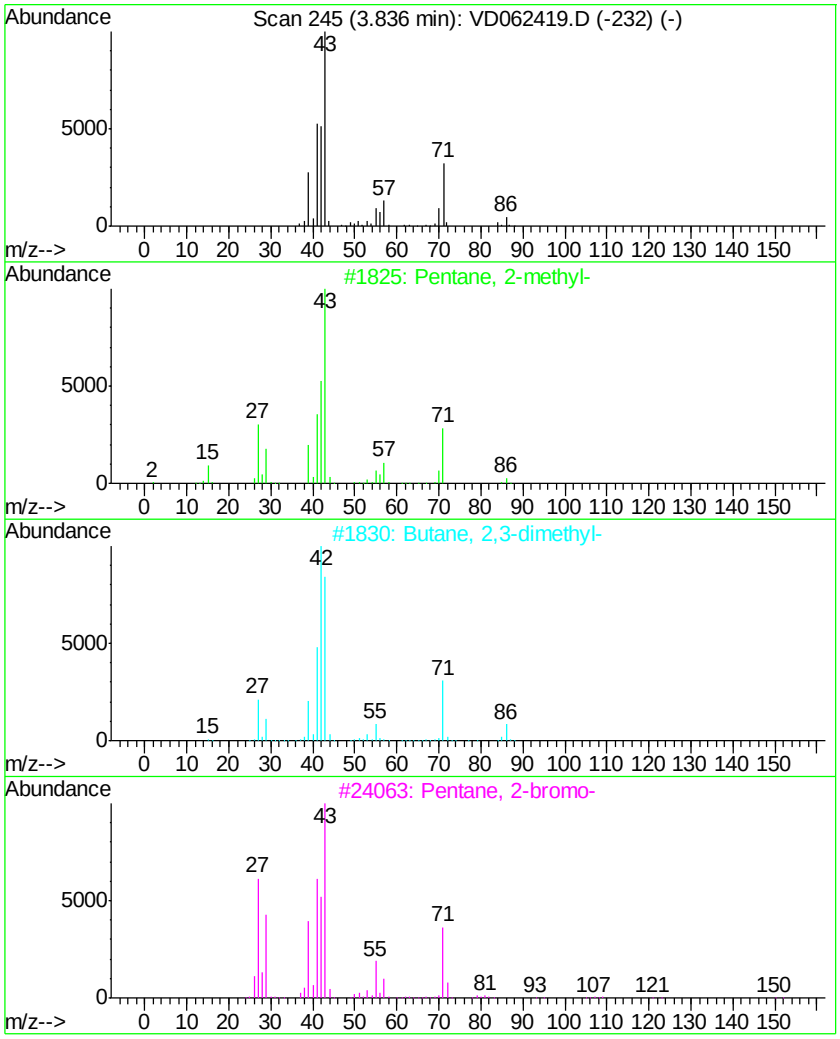
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

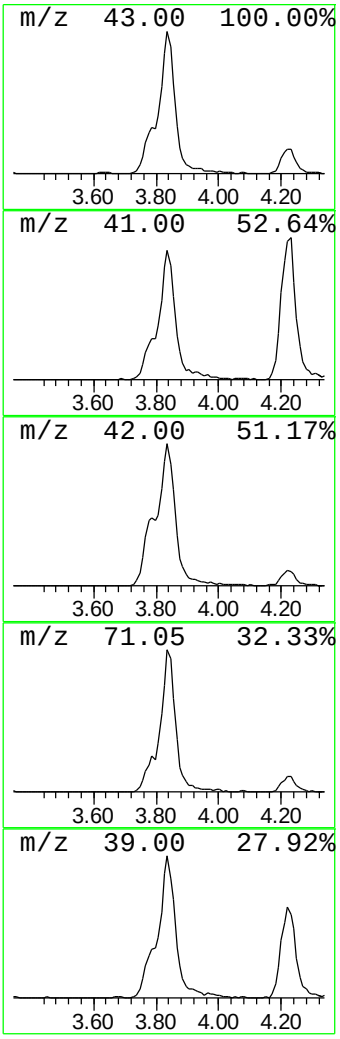
**********

Peak Number 1 Pentane, 2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.84 | 94.43 ug/l | 2331870 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 86 |
| 2 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 50 |
| 3 | Pentane, 2-bromo- | 150 | C5H11Br | 000107-81-3 | 45 |
| 4 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 25 |
| 5 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 25 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

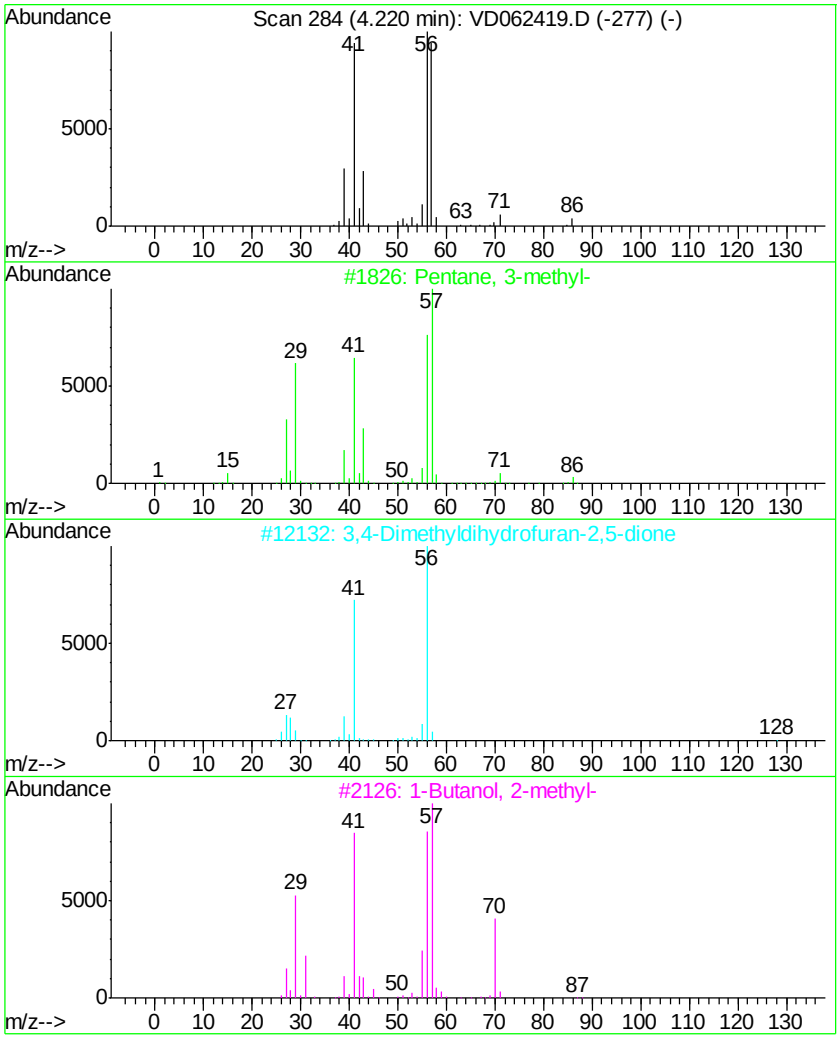
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

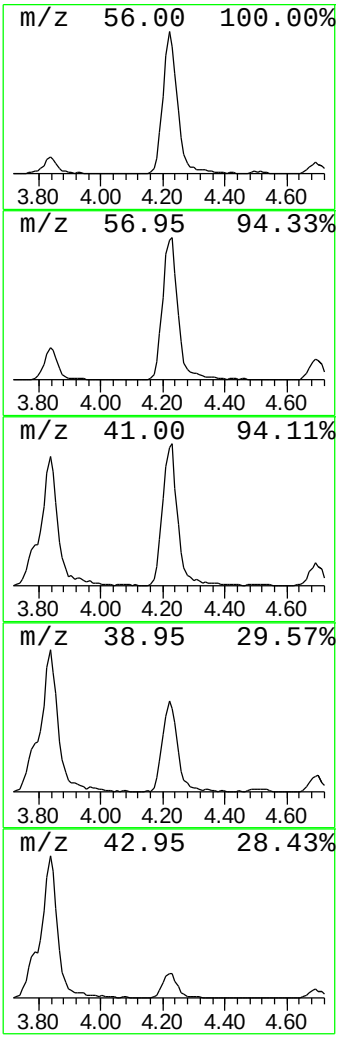
**********

Peak Number 2 Pentane, 3-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.22 | 56.72 ug/l | 1400670 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 86 |
| 2 | 3,4-Dimethyldihydrofuran-2,5-dione | 128 | C6H8O3 | 007475-92-5 | 59 |
| 3 | 1-Butanol, 2-methyl- | 88 | C5H12O | 000137-32-6 | 56 |
| 4 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 38 |
| 5 | Oxetane, 2,3,4-trimethyl-, (2.al... | 100 | C6H12O | 032347-12-9 | 38 |



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Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

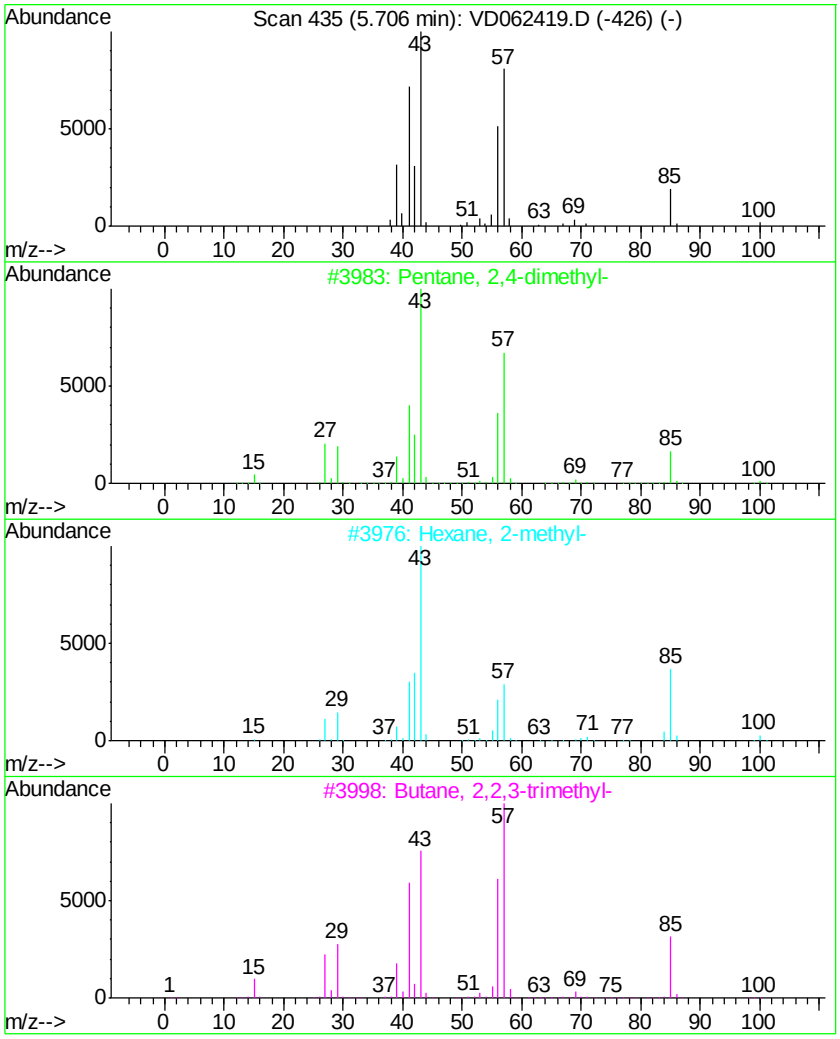
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

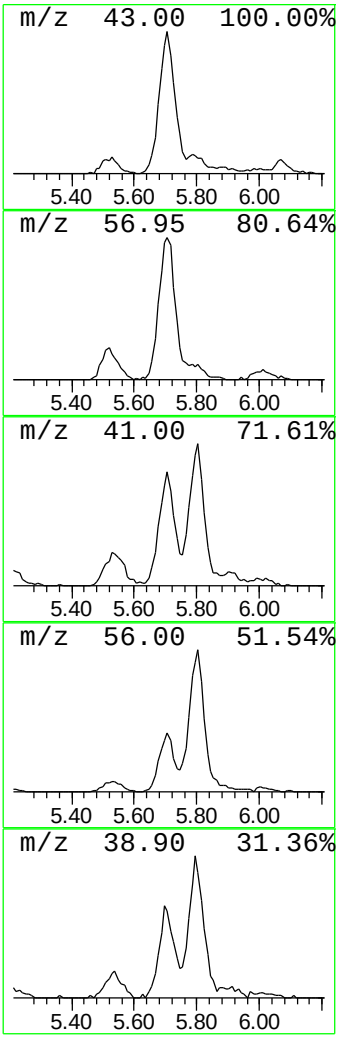
**********

Peak Number 3 Pentane, 2,4-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.71 | 21.72 ug/l | 536257 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,4-dimethyl- | 100 | C7H16 | 000108-08-7 | 91 |
| 2 | Hexane, 2-methyl- | 100 | C7H16 | 000591-76-4 | 83 |
| 3 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 59 |
| 4 | 2,2,6,6-Tetramethylheptane | 156 | C11H24 | 040117-45-1 | 50 |
| 5 | .alpha.-Amino-.gamma.-butyrolactone | 101 | C4H7NO2 | 001192-20-7 | 45 |



# Library Search Compound Report

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Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

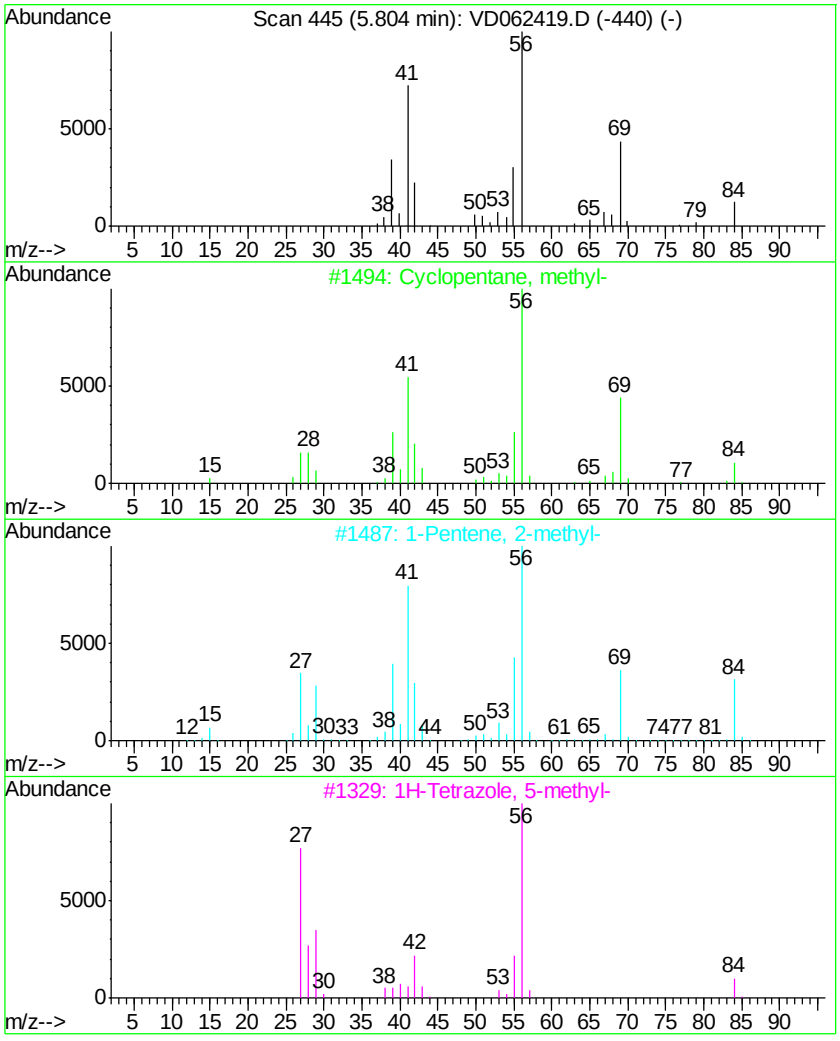
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

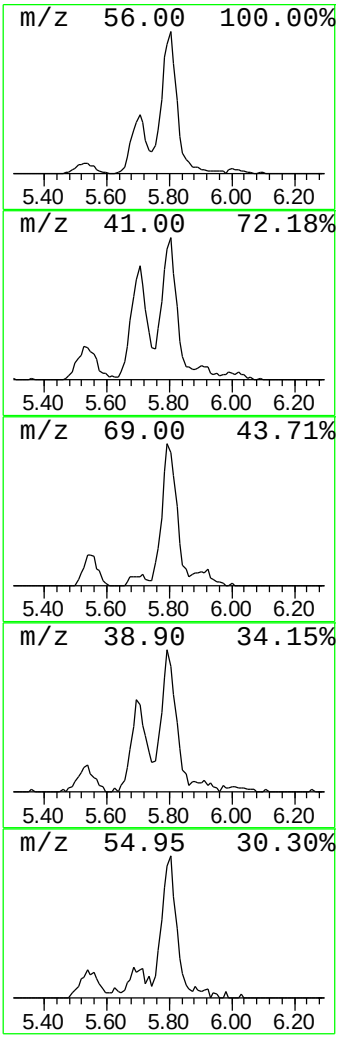
**********

Peak Number 4 Cyclopentane, methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.80 | 20.45 ug/l | 504945 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 91 |
| 2 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 72 |
| 3 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 64 |
| 4 | Cyclopentane, 1,1-dimethyl- | 98 | C7H14 | 001638-26-2 | 56 |
| 5 | Cyclobutane | 56 | C4H8 | 000287-23-0 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

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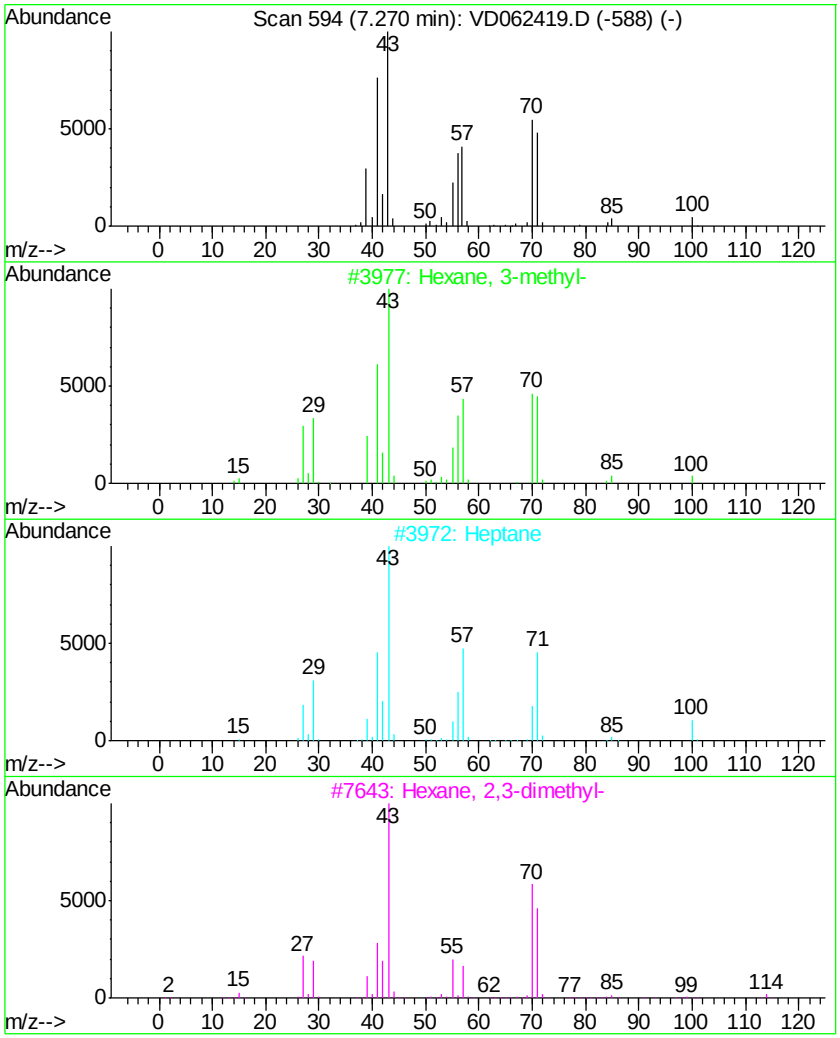
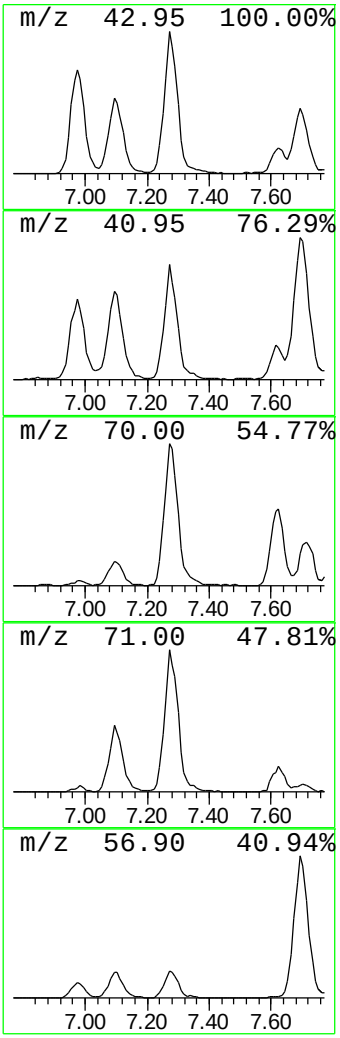
Peak Number 5 Hexane, 3-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.27 | 66.85 ug/l | 1650680 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 95 |
| 2 | Heptane | 100 | C7H16 | 000142-82-5 | 53 |
| 3 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 53 |
| 4 | Pyrrolidine | 71 | C4H9N | 000123-75-1 | 52 |
| 5 | Octane, 4,5-dimethyl- | 142 | C10H22 | 015869-96-2 | 47 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

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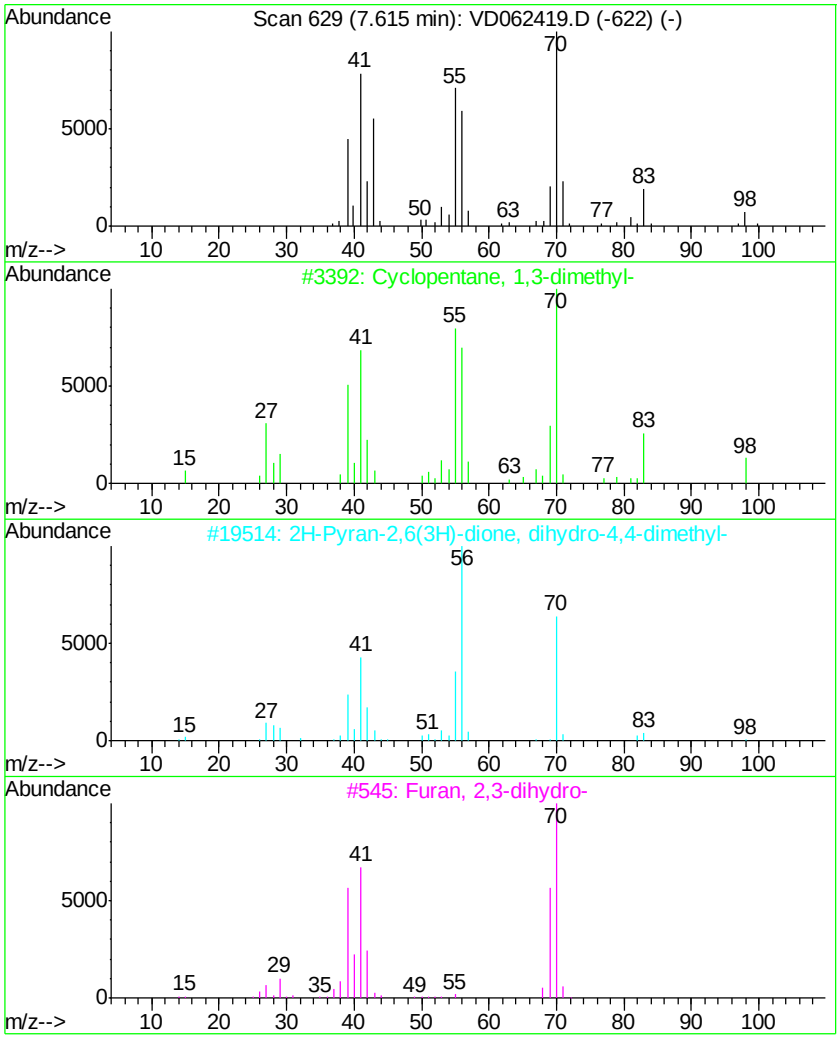
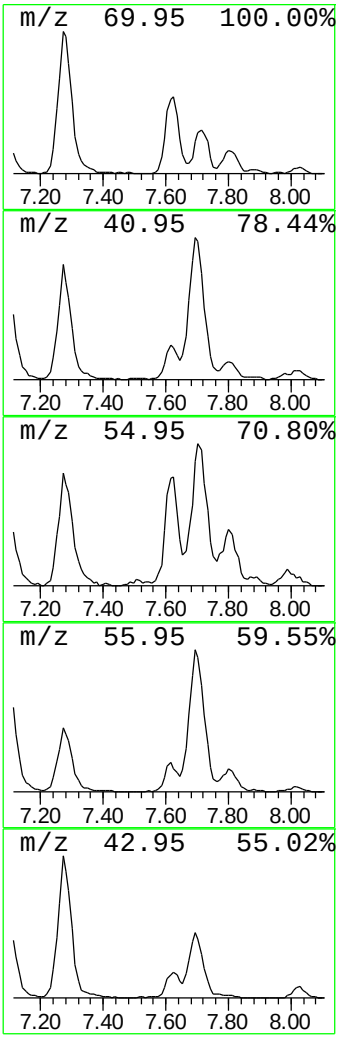
Peak Number 6 Cyclopentane, 1,3-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.61 | 22.33 ug/l | 551362 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 52 |
| 2 | 2H-Pyran-2,6(3H)-dione, dihydro-... | 142 | C7H10O3 | 004160-82-1 | 47 |
| 3 | Furan, 2,3-dihydro- | 70 | C4H6O | 001191-99-7 | 47 |
| 4 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 43 |
| 5 | 1-Hexene, 5-methyl- | 98 | C7H14 | 003524-73-0 | 43 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

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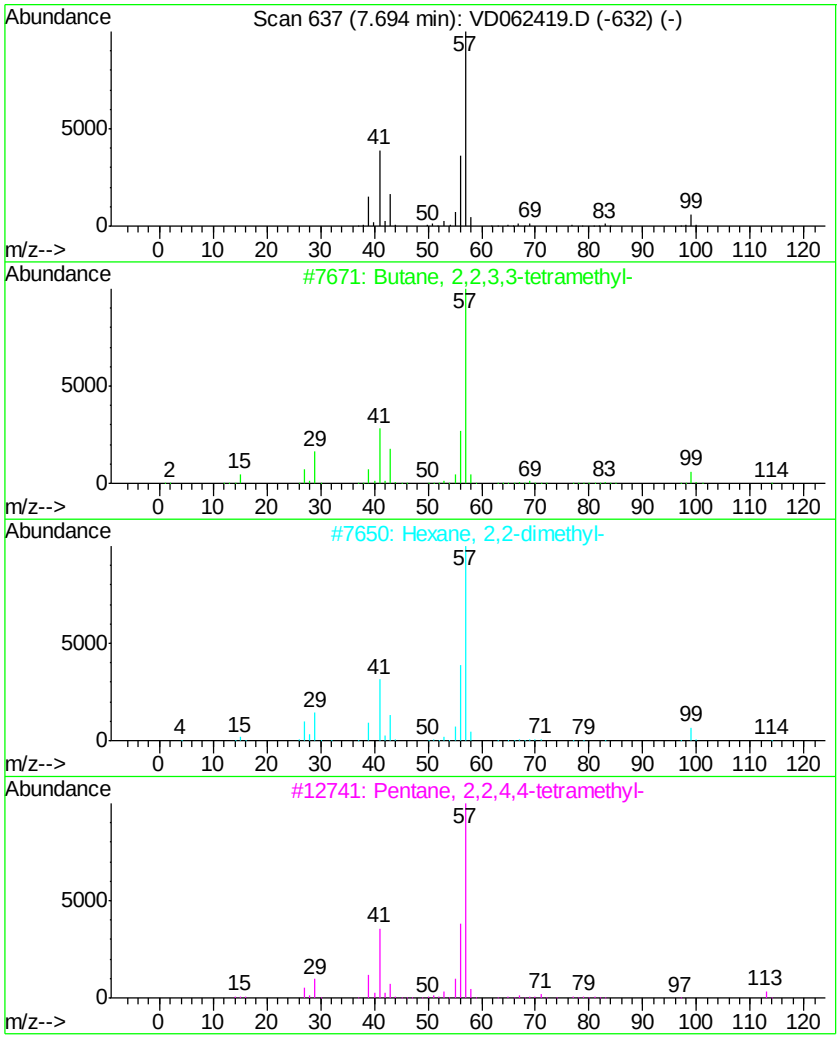
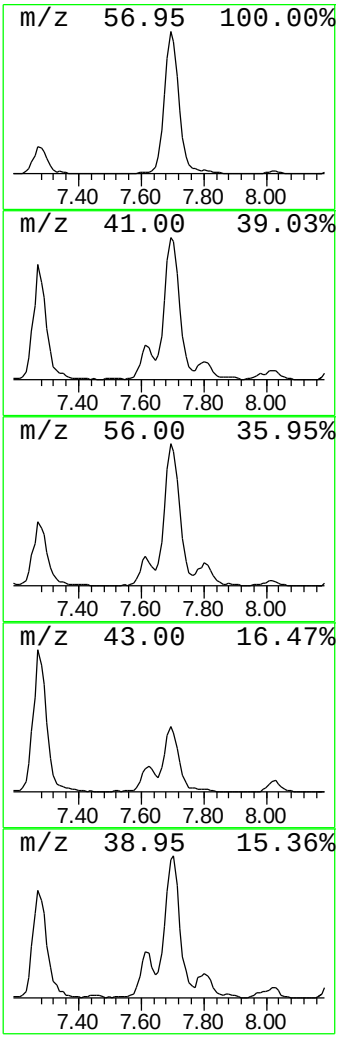
Peak Number 7 Butane, 2,2,3,3-tetramethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.69 | 52.60 ug/l | 2358180 | 1,4-Difluorobenzene | 8.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 78 |
| 2 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 78 |
| 3 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 64 |
| 4 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 64 |
| 5 | Methane, isocyanato- | 57 | C2H3NO | 000624-83-9 | 40 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

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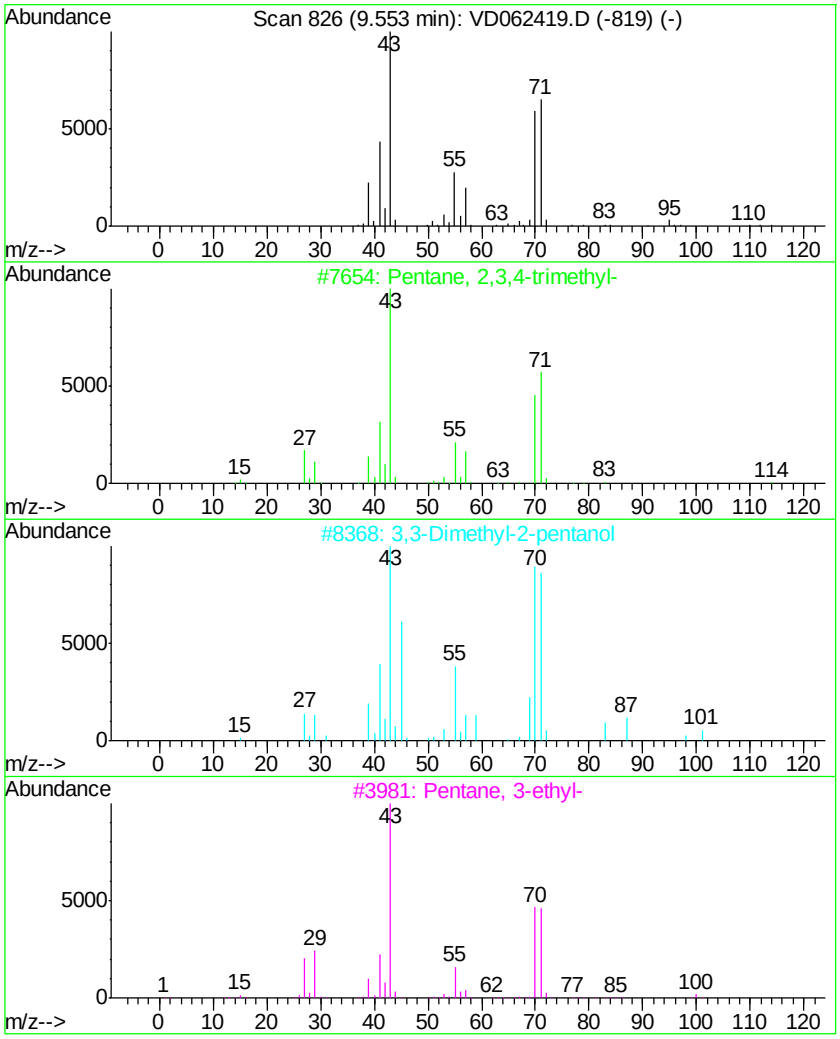
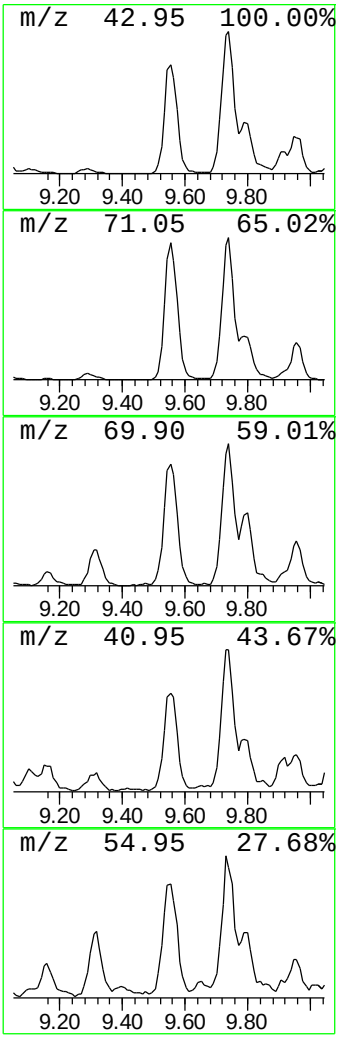
Peak Number 8 Pentane, 2,3,4-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.55 | 26.59 ug/l | 1191990 | 1,4-Difluorobenzene | 8.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 91 |
| 2 | 3,3-Dimethyl-2-pentanol | 116 | C7H16O | 019781-24-9 | 83 |
| 3 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 83 |
| 4 | Decane, 3,3,4-trimethyl- | 184 | C13H28 | 049622-18-6 | 78 |
| 5 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 74 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

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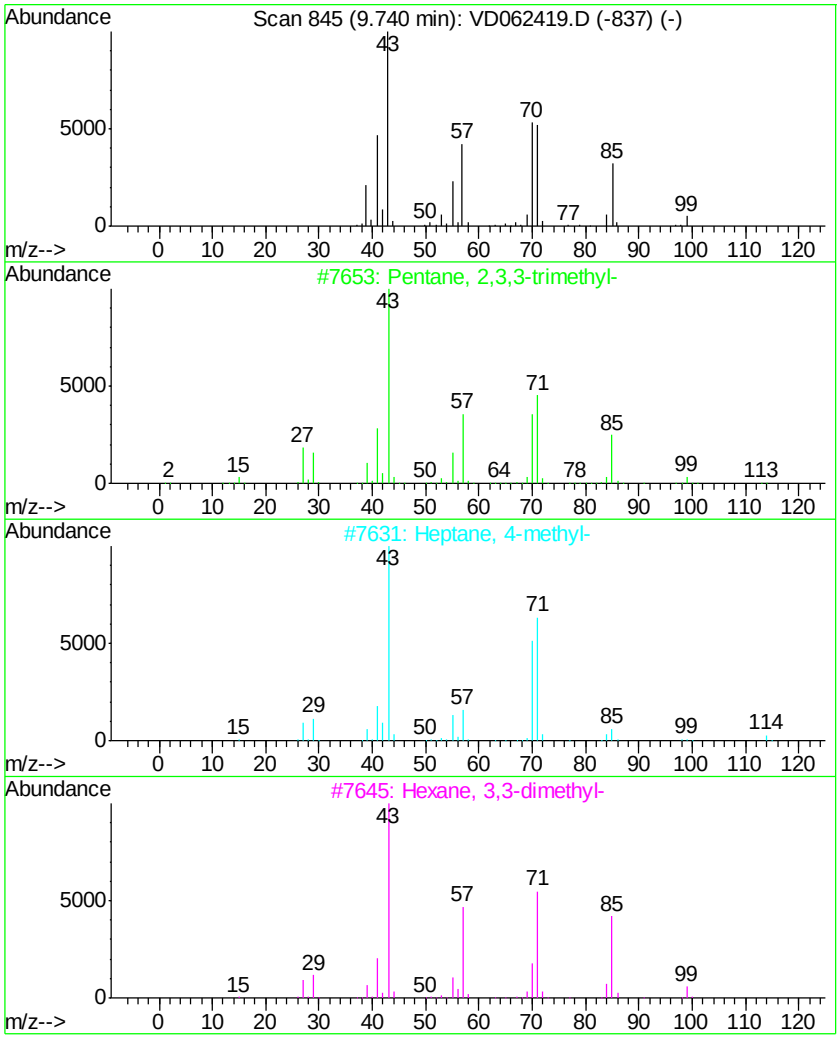
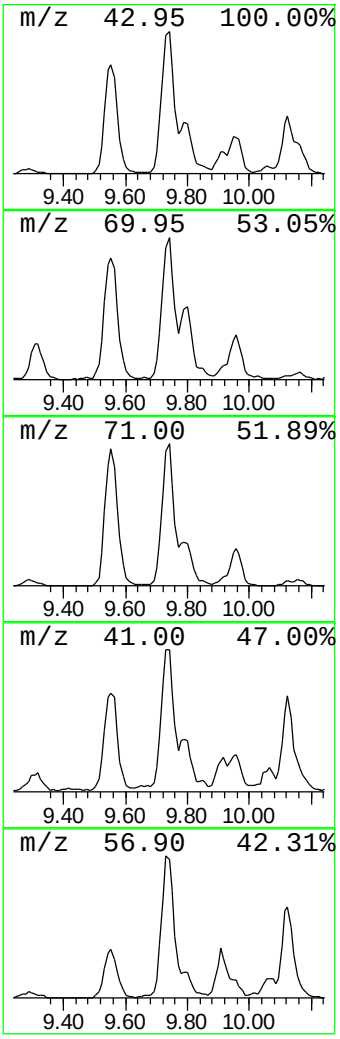
Peak Number 9 Pentane, 2,3,3-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.74 | 37.37 ug/l | 1675380 | 1,4-Difluorobenzene | 8.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 90 |
| 2 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 64 |
| 3 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 64 |
| 4 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 59 |
| 5 | Decane, 3,3,4-trimethyl- | 184 | C13H28 | 049622-18-6 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

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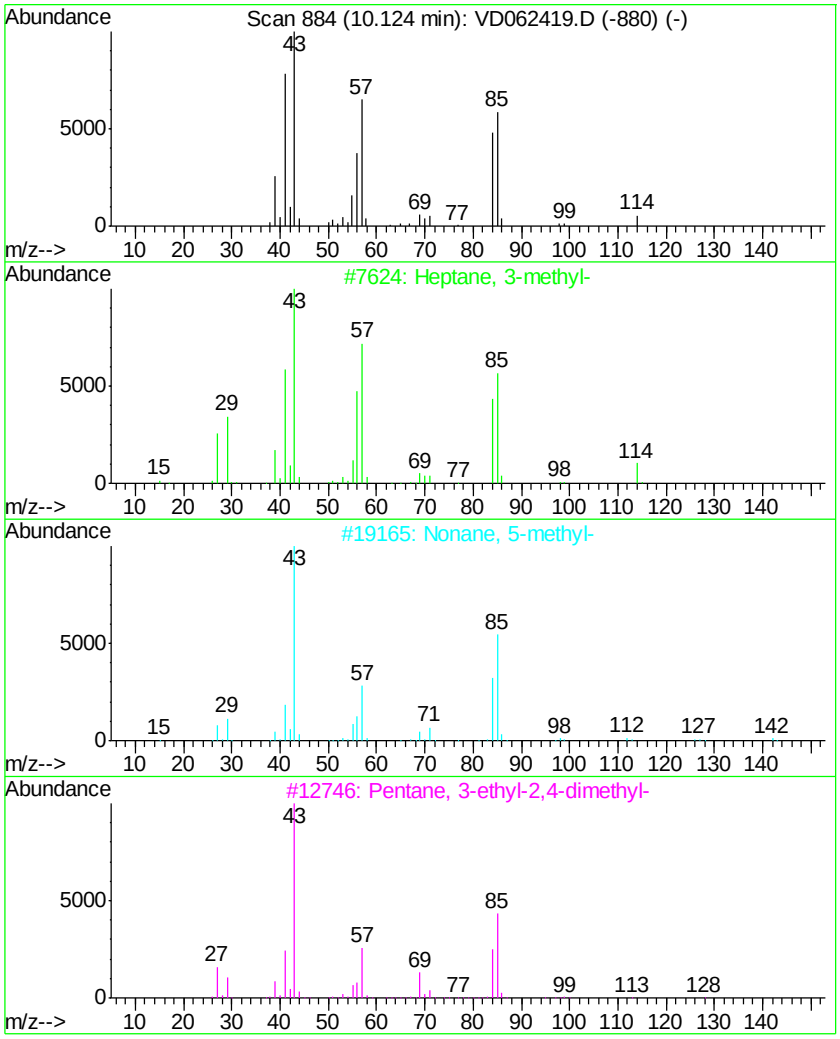
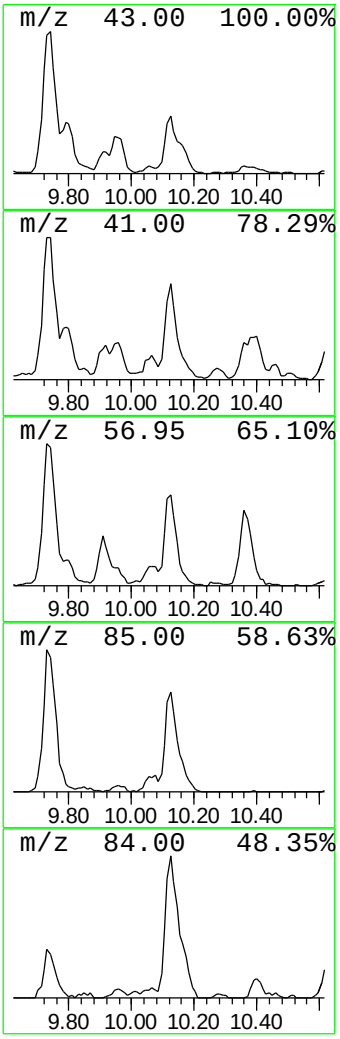
Peak Number 10 Heptane, 3-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.12 | 18.63 ug/l | 835112 | 1,4-Difluorobenzene | 8.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 90 |
| 2 | Nonane, 5-methyl- | 142 | C10H22 | 015869-85-9 | 72 |
| 3 | Pentane, 3-ethyl-2,4-dimethyl- | 128 | C9H20 | 001068-87-7 | 59 |
| 4 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 59 |
| 5 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 59 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD051619\
Data File : VD062419.D
Acq On : 16 May 2019 16:00
Operator : FY/SY
Sample : K2823-05
Misc : 6.09g/5mL/MSVOA_D/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 12-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
Quant Title : SW846 8260

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

| | | | | | Internal Standard | | |
|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Pentane, 2-methyl- | 3.84 | 94.4 | ug/l | 2331870 | 1 | 7.04 | 1234650 | 50.0 |
| Pentane, 3-methyl- | 4.22 | 56.7 | ug/l | 1400670 | 1 | 7.04 | 1234650 | 50.0 |
| Pentane, 2,4-dime... | 5.71 | 21.7 | ug/l | 536257 | 1 | 7.04 | 1234650 | 50.0 |
| Cyclopentane, met... | 5.80 | 20.4 | ug/l | 504945 | 1 | 7.04 | 1234650 | 50.0 |
| Hexane, 3-methyl- | 7.27 | 66.8 | ug/l | 1650680 | 1 | 7.04 | 1234650 | 50.0 |
| Cyclopentane, 1,3... | 7.61 | 22.3 | ug/l | 551362 | 1 | 7.04 | 1234650 | 50.0 |
| Butane, 2,2,3,3-t... | 7.69 | 52.6 | ug/l | 2358180 | 2 | 8.22 | 2241800 | 50.0 |
| Pentane, 2,3,4-tr... | 9.55 | 26.6 | ug/l | 1191990 | 2 | 8.22 | 2241800 | 50.0 |
| Pentane, 2,3,3-tr... | 9.74 | 37.4 | ug/l | 1675380 | 2 | 8.22 | 2241800 | 50.0 |
| Heptane, 3-methyl- | 10.12 | 18.6 | ug/l | 835112 | 2 | 8.22 | 2241800 | 50.0 |