LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

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\82D072919S.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 | 1.478 | 3 | 5 | 26 | rVB | 1877322 | 4838777 | 100.00% | 17.862% |
| 2 | 1.833 | 39 | 41 | 47 | rVB2 | 33783 | 60900 | 1.26% | 0.225% |
| 3 | 1.951 | 49 | 53 | 62 | rBV | 52782 | 145150 | 3.00% | 0.536% |
| 4 | 2.354 | 90 | 94 | 99 | rBV2 | 99730 | 200898 | 4.15% | 0.742% |
| 5 | 2.630 | 118 | 122 | 126 | rBV4 | 18800 | 50046 | 1.03% | 0.185% |
| 6 | 3.782 | 232 | 239 | 255 | rBV | 183184 | 864152 | 17.86% | 3.190% |
| 7 | 4.215 | 276 | 283 | 290 | rBV2 | 59621 | 182042 | 3.76% | 0.672% |
| 8 | 4.678 | 325 | 330 | 336 | rBV3 | 17621 | 62252 | 1.29% | 0.230% |
| 9 | 5.682 | 424 | 432 | 434 | rBV3 | 25745 | 68059 | 1.41% | 0.251% |
| 10 | 5.790 | 438 | 443 | 449 | rVV2 | 90688 | 302591 | 6.25% | 1.117% |
| 11 | 5.898 | 449 | 454 | 460 | rVV4 | 18226 | 55763 | 1.15% | 0.206% |
| 12 | 6.154 | 474 | 480 | 488 | rBV | 95844 | 287310 | 5.94% | 1.061% |
| 13 | 6.646 | 523 | 530 | 536 | rVB5 | 20477 | 71751 | 1.48% | 0.265% |
| 14 | 6.922 | 549 | 558 | 565 | rBV2 | 507923 | 1856089 | 38.36% | 6.852% |
| 15 | 7.040 | 565 | 570 | 582 | rVV | 833393 | 2589913 | 53.52% | 9.561% |
| 16 | 7.286 | 586 | 595 | 605 | rVB7 | 26661 | 145571 | 3.01% | 0.537% |
| 17 | 7.444 | 605 | 611 | 621 | rBV | 359441 | 1026032 | 21.20% | 3.788% |
| 18 | 7.611 | 621 | 628 | 631 | rVV3 | 92556 | 290099 | 6.00% | 1.071% |
| 19 | 7.690 | 631 | 636 | 644 | rVV4 | 184225 | 688411 | 14.23% | 2.541% |
| 20 | 7.788 | 644 | 646 | 653 | rVB5 | 24712 | 64406 | 1.33% | 0.238% |
| 21 | 8.212 | 683 | 689 | 700 | rBV | 977868 | 2608286 | 53.90% | 9.629% |
| 22 | 8.852 | 746 | 754 | 759 | rBV4 | 76515 | 273753 | 5.66% | 1.011% |
| 23 | 8.930 | 759 | 762 | 766 | rVV3 | 32385 | 77729 | 1.61% | 0.287% |
| 24 | 8.999 | 766 | 769 | 774 | rVB3 | 25492 | 62042 | 1.28% | 0.229% |
| 25 | 9.294 | 793 | 799 | 805 | rBV3 | 17615 | 49438 | 1.02% | 0.183% |
| 26 | 9.541 | 816 | 824 | 833 | rVB | 101616 | 288482 | 5.96% | 1.065% |
| 27 | 9.718 | 833 | 842 | 847 | rBV3 | 96941 | 331843 | 6.86% | 1.225% |
| 28 | 10.407 | 902 | 912 | 918 | rBV | 905145 | 2222544 | 45.93% | 8.205% |
| 29 | 10.496 | 918 | 921 | 928 | rVB | 57460 | 143558 | 2.97% | 0.530% |
| 30 | 10.633 | 930 | 935 | 938 | rBV3 | 36614 | 100857 | 2.08% | 0.372% |
| 31 | 10.919 | 958 | 964 | 971 | rBV4 | 39009 | 105632 | 2.18% | 0.390% |
| 32 | 11.106 | 973 | 983 | 988 | rBV7 | 44255 | 152590 | 3.15% | 0.563% |
| 33 | 11.224 | 988 | 995 | 1003 | rVV2 | 89432 | 255751 | 5.29% | 0.944% |
| 34 | 11.874 | 1058 | 1061 | 1067 | rVB | 36110 | 74721 | 1.54% | 0.276% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

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\82D072919S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.307 | 1098 | 1105 | 1107 | rVV5 | 37373 | 91843 | 1.90% | 0.339% |
| 36 | 12.356 | 1107 | 1110 | 1115 | rVV | 1337856 | 2280252 | 47.12% | 8.418% |
| 37 | 12.464 | 1118 | 1121 | 1124 | rVV3 | 34338 | 80888 | 1.67% | 0.299% |
| 38 | 12.514 | 1124 | 1126 | 1131 | rVV | 117128 | 200042 | 4.13% | 0.738% |
| 39 | 12.651 | 1135 | 1140 | 1146 | rVV | 113257 | 259015 | 5.35% | 0.956% |
| 40 | 12.730 | 1146 | 1148 | 1154 | rVB5 | 20819 | 52933 | 1.09% | 0.195% |
| 41 | 13.045 | 1177 | 1180 | 1183 | rVB | 53605 | 76198 | 1.57% | 0.281% |
| 42 | 13.400 | 1211 | 1216 | 1219 | rBV | 39060 | 62284 | 1.29% | 0.230% |
| 43 | 13.547 | 1228 | 1231 | 1240 | rBV | 691178 | 1019646 | 21.07% | 3.764% |
| 44 | 13.705 | 1244 | 1247 | 1250 | rVV | 102310 | 160526 | 3.32% | 0.593% |
| 45 | 13.764 | 1250 | 1253 | 1257 | rVB | 33622 | 50064 | 1.03% | 0.185% |
| 46 | 13.843 | 1258 | 1261 | 1263 | rBV | 42060 | 57220 | 1.18% | 0.211% |
| 47 | 14.079 | 1281 | 1285 | 1287 | rBV | 37311 | 55324 | 1.14% | 0.204% |
| 48 | 14.227 | 1298 | 1300 | 1303 | rVB2 | 69173 | 101381 | 2.10% | 0.374% |
| 49 | 14.404 | 1315 | 1318 | 1325 | rVV3 | 33966 | 64722 | 1.34% | 0.239% |
| 50 | 14.512 | 1326 | 1329 | 1332 | rVV | 1022693 | 1234575 | 25.51% | 4.557% |
| 51 | 14.620 | 1338 | 1340 | 1344 | rVV2 | 29474 | 48551 | 1.00% | 0.179% |
| 52 | 14.699 | 1345 | 1348 | 1353 | rVV2 | 155901 | 220042 | 4.55% | 0.812% |
| 53 | 14.768 | 1353 | 1355 | 1361 | rVB5 | 45937 | 86806 | 1.79% | 0.320% |
| 54 | 15.053 | 1381 | 1384 | 1386 | rBV | 40873 | 51987 | 1.07% | 0.192% |
| 55 | 15.132 | 1386 | 1392 | 1397 | rVB3 | 52165 | 122746 | 2.54% | 0.453% |
| 56 | 15.664 | 1443 | 1446 | 1451 | rVB | 37562 | 54518 | 1.13% | 0.201% |
| 57 | 16.205 | 1499 | 1501 | 1504 | rVB2 | 49046 | 60088 | 1.24% | 0.222% |

Sum of corrected areas: 27089089

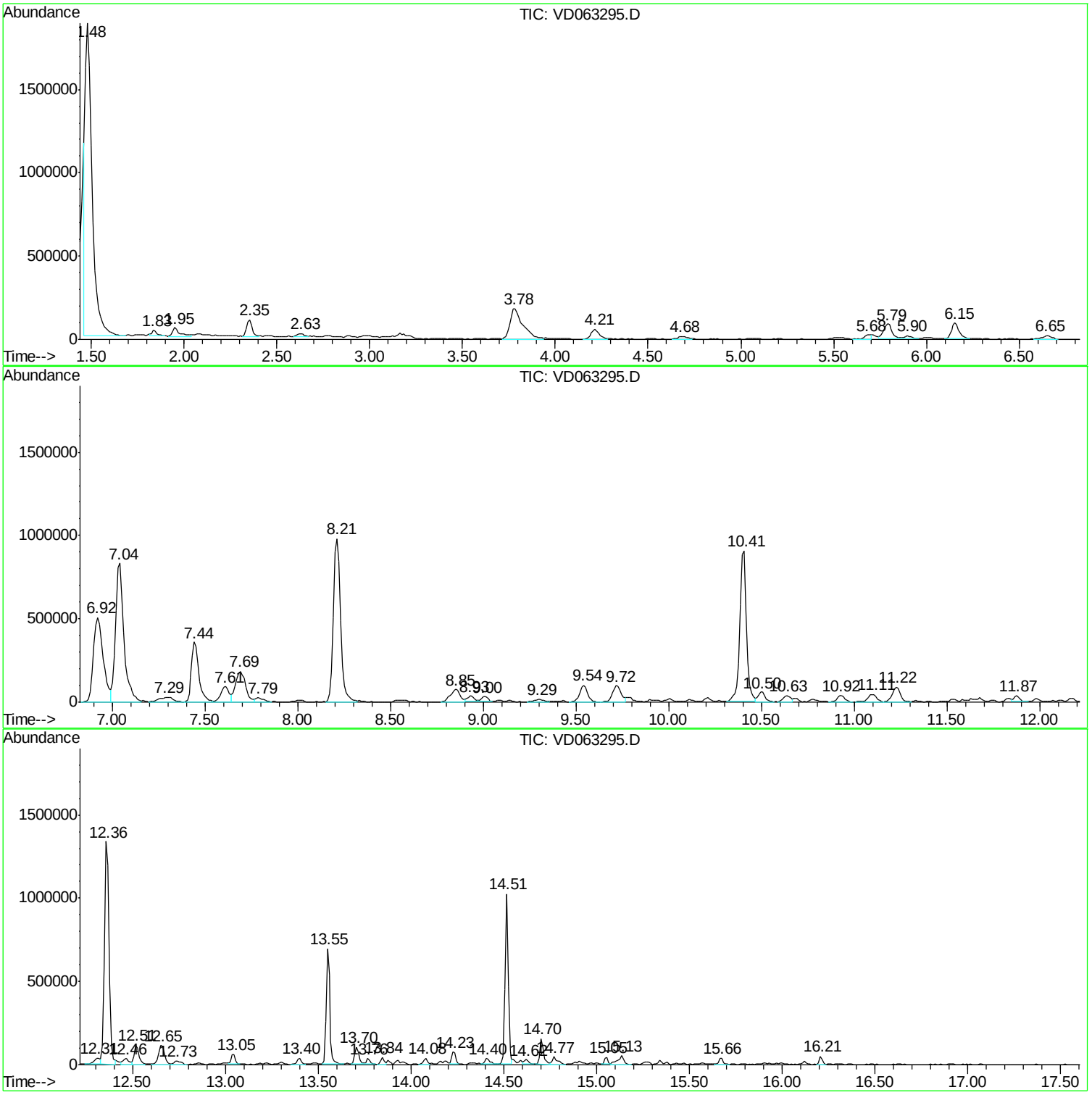
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.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\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

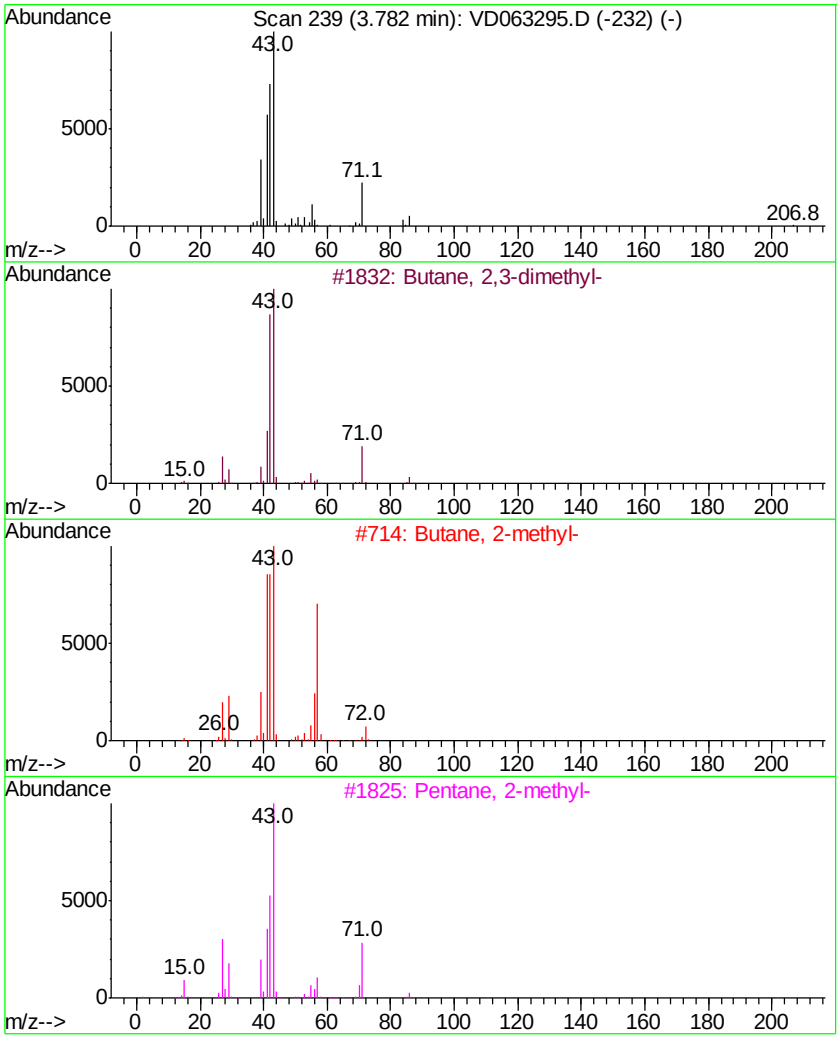
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

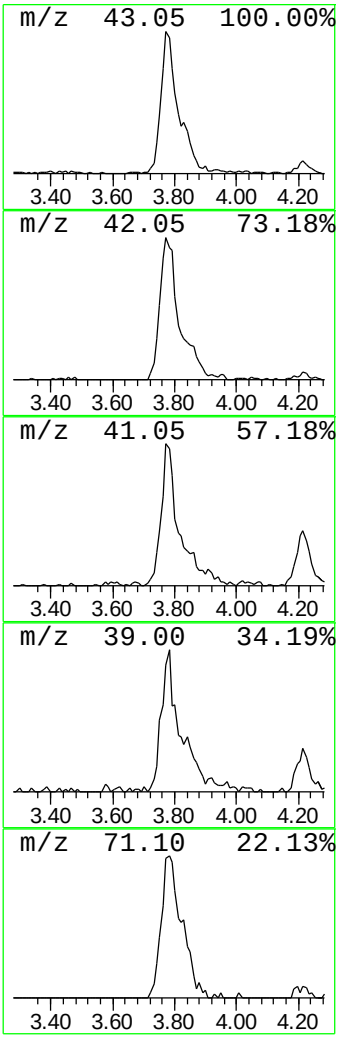
**********

Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.78 | 16.68 ug/l | 864152 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 72 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 36 |
| 3 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 28 |
| 4 | Propanoyl chloride, 2-methyl- | 106 | C4H7ClO | 000079-30-1 | 9 |
| 5 | Butane, 2-chloro-3-methyl- | 106 | C5H11Cl | 000631-65-2 | 9 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

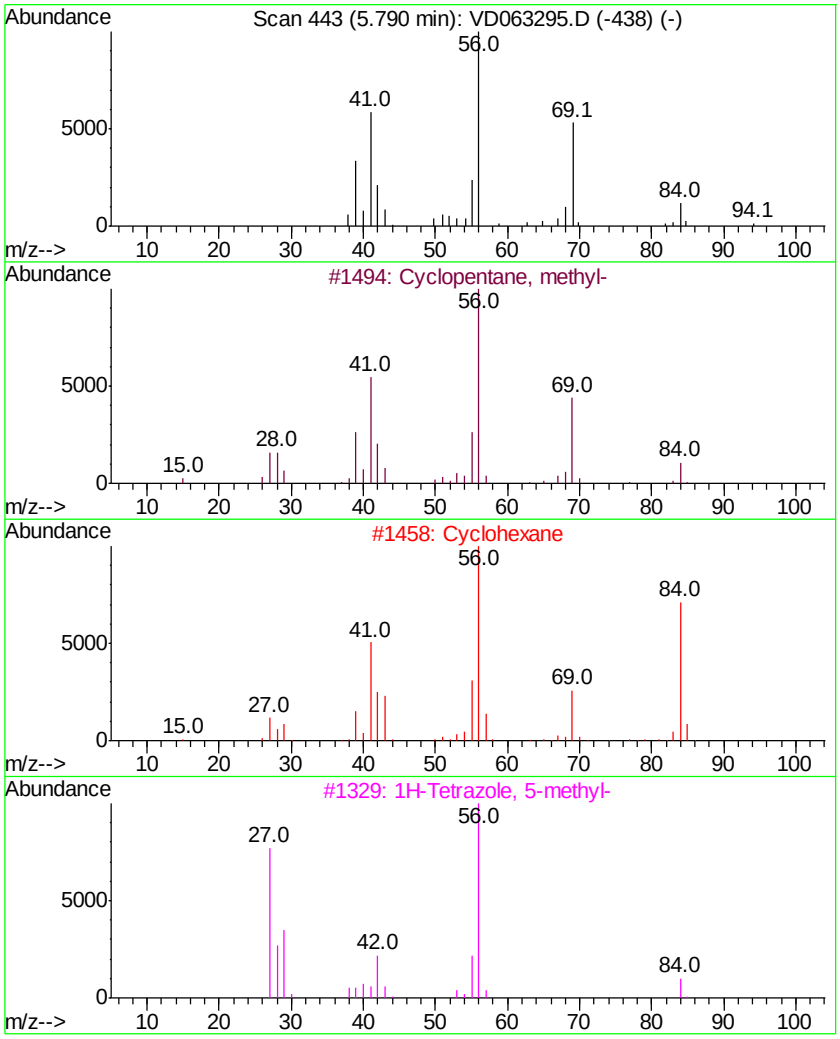
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

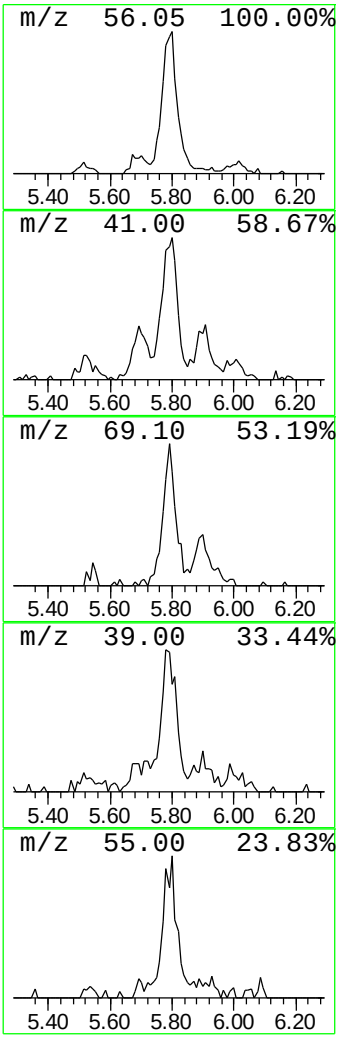
**********

Peak Number 3 Cyclopentane, methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.79 | 5.84 ug/l | 302591 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 91 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 72 |
| 3 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 64 |
| 4 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 59 |
| 5 | Cyclobutane, 1,2-diethyl-, trans- | 112 | C8H16 | 019341-98-1 | 50 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

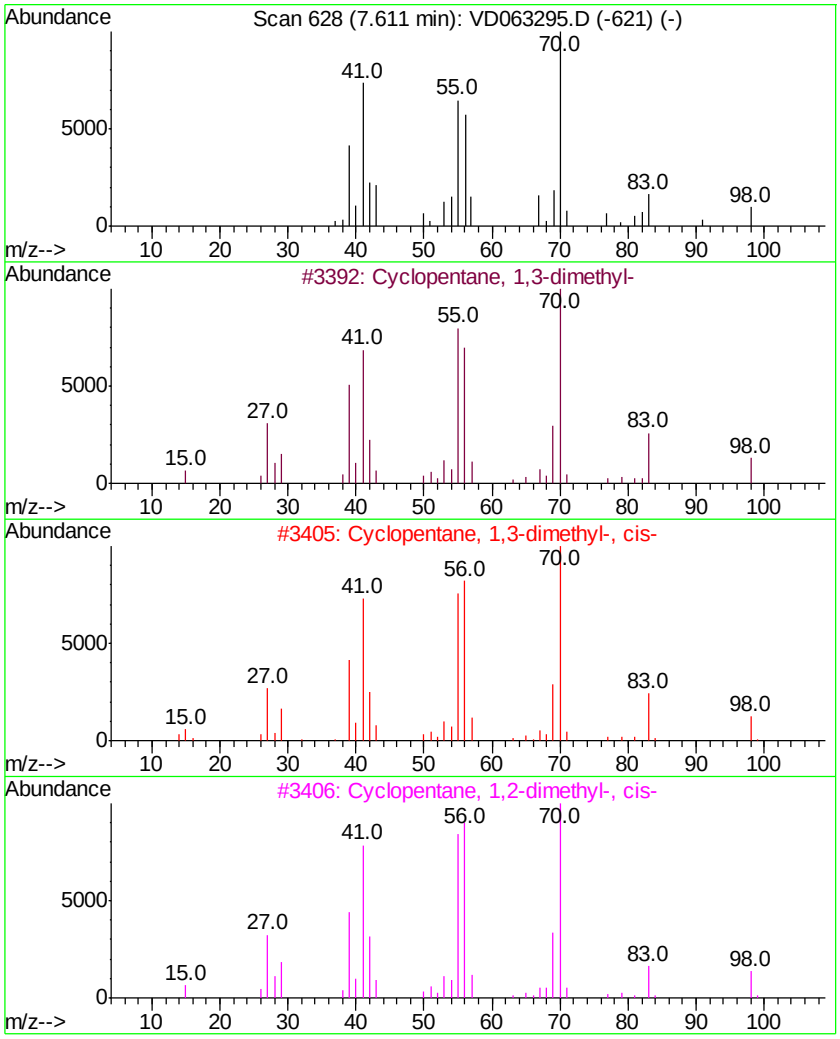
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

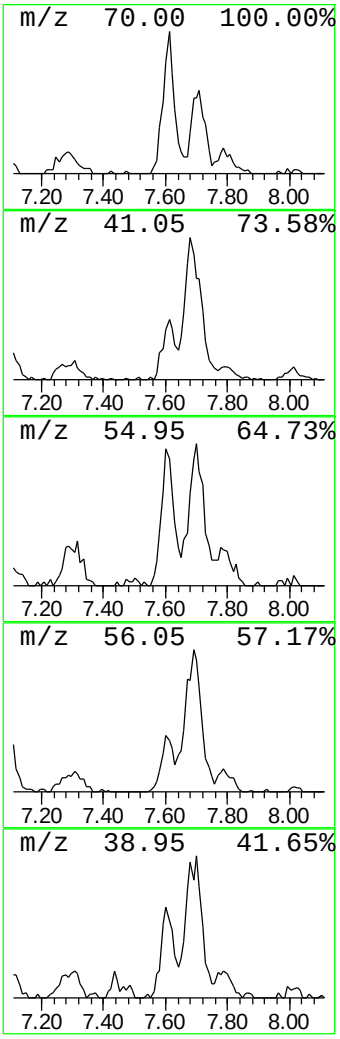
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.61 | 5.60 ug/l | 290099 | Pentafluorobenzene | 7.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 64 |
| 2 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 58 |
| 3 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 49 |
| 4 | Undecane, 3-methylene- | 168 | C12H24 | 071138-64-2 | 47 |
| 5 | 1-Hexene, 3-methyl- | 98 | C7H14 | 003404-61-3 | 46 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

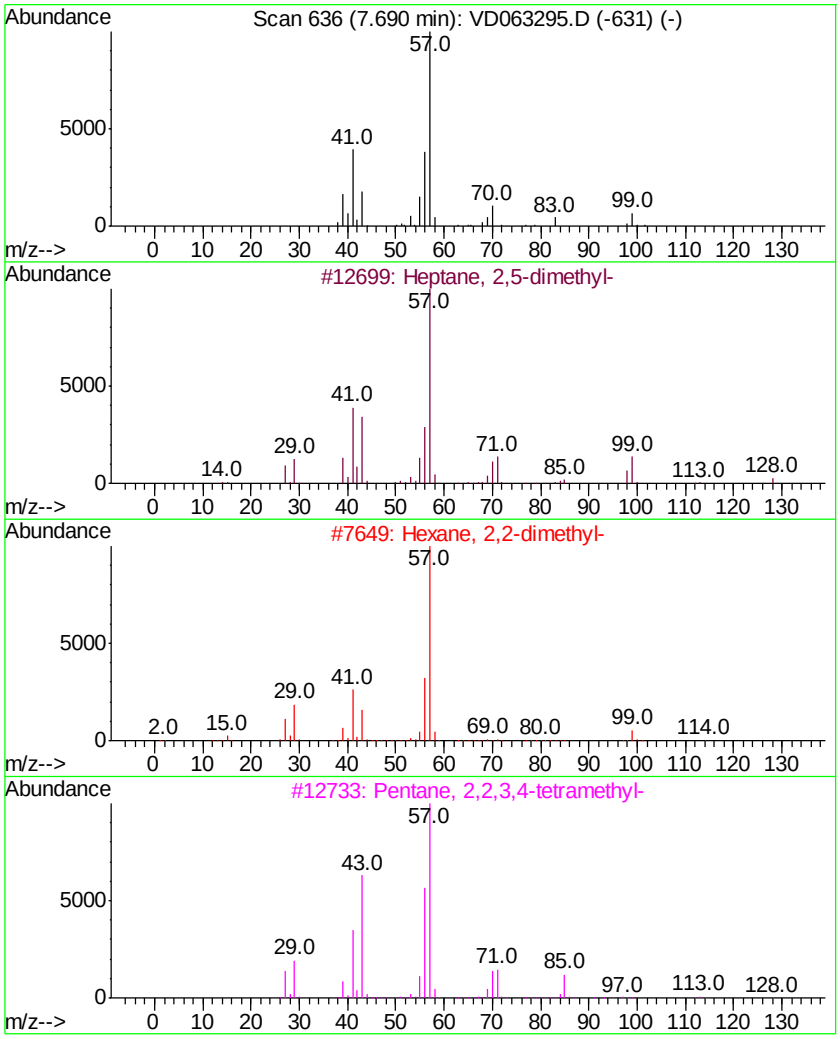
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

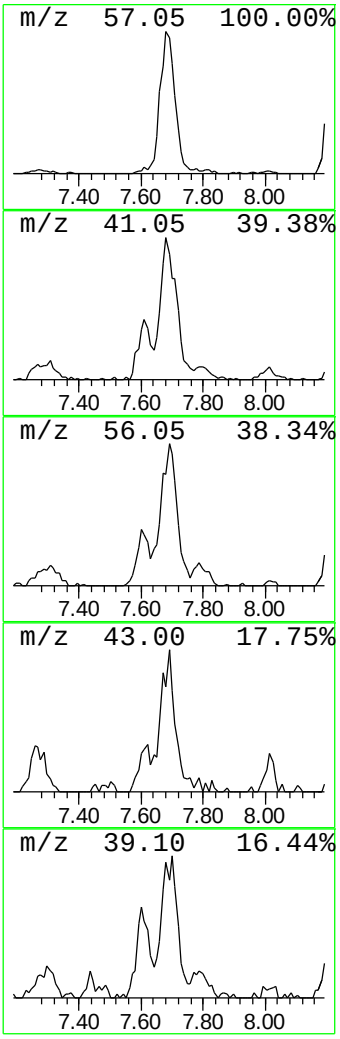
**********

Peak Number 6 Heptane, 2,5-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.69 | 13.20 ug/l | 688411 | 1,4-Difluorobenzene | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 72 |
| 2 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 59 |
| 3 | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20 | 001186-53-4 | 56 |
| 4 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 53 |
| 5 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 50 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

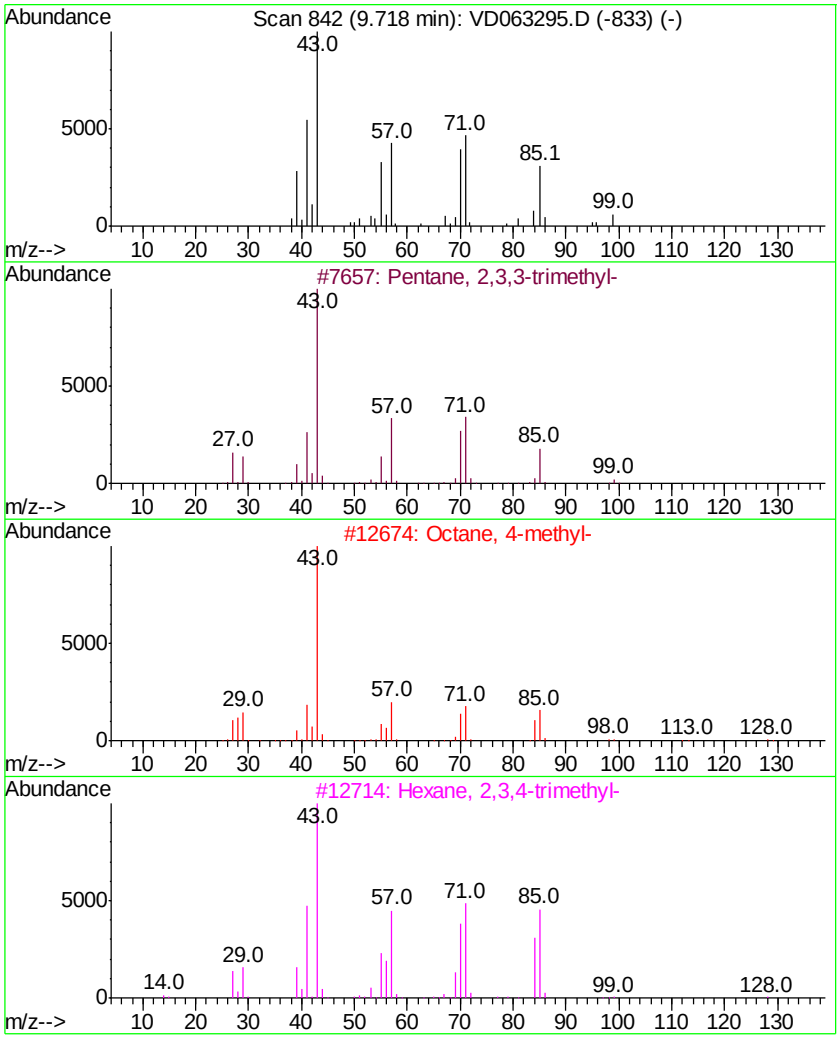
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

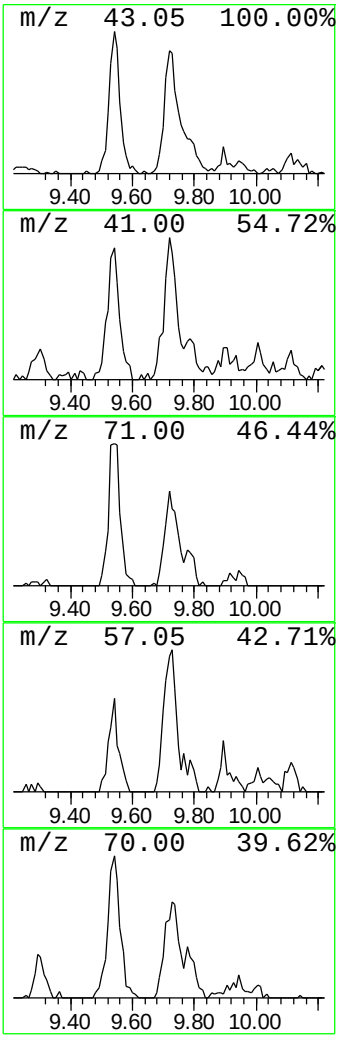
**********

Peak Number 7 Pentane, 2,3,3-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.72 | 6.36 ug/l | 331843 | 1,4-Difluorobenzene | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 72 |
| 2 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 64 |
| 3 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 56 |
| 4 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 53 |
| 5 | Heptane, 3,4-dimethyl- | 128 | C9H20 | 000922-28-1 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

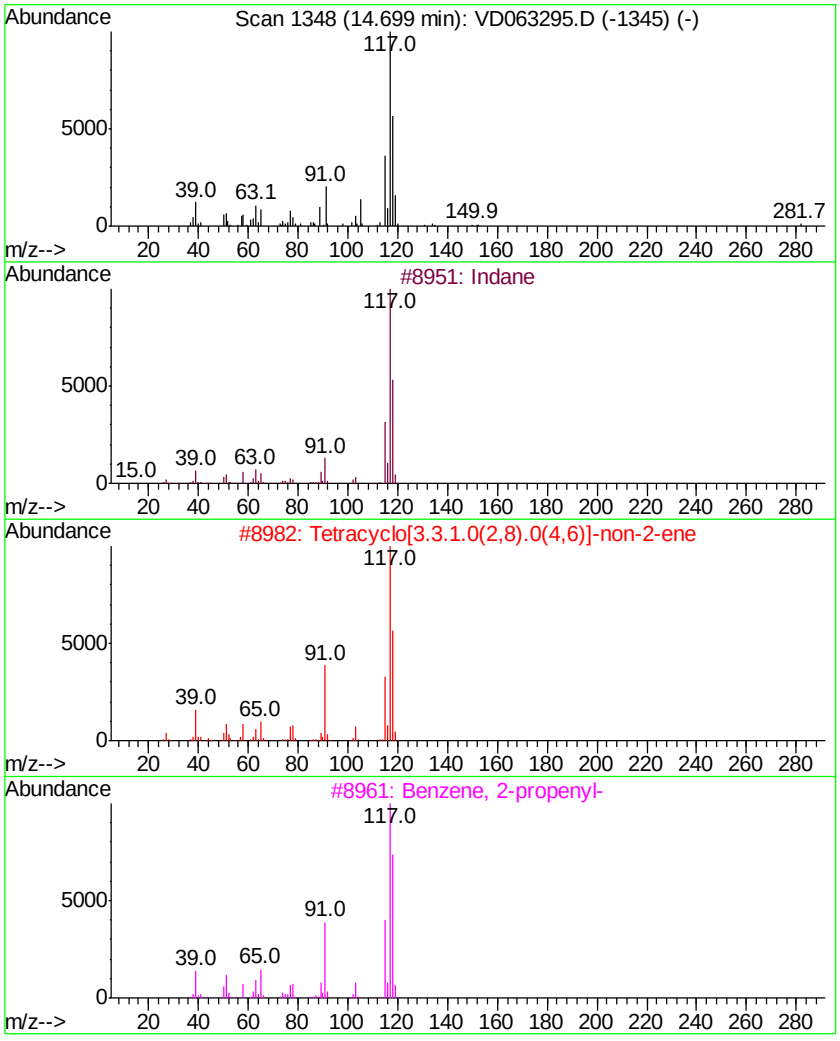
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

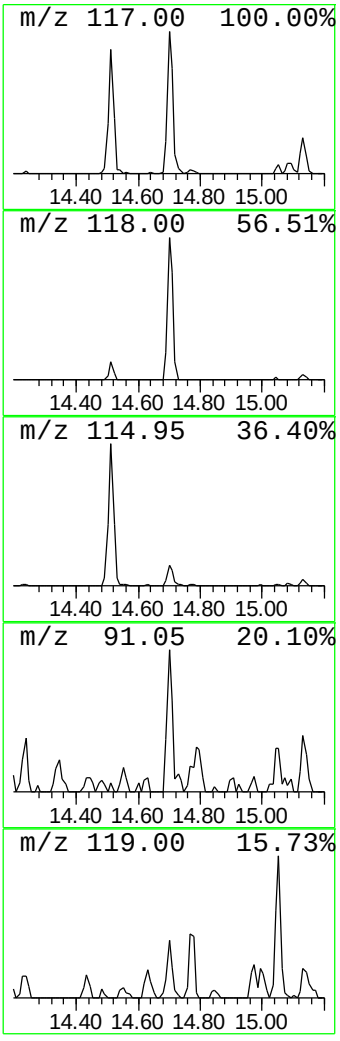
**********

Peak Number 10 Indane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.70 | 8.91 ug/l | 220042 | 1,4-Dichlorobenzene-d4 | 14.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 2 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 68 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 64 |
| 4 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 64 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 055337-80-9 | 59 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080119\
Data File : VD063295.D
Acq On : 1 Aug 2019 16:29
Operator : VA/AP
Sample : K4120-05
Misc : 5.29g/5ml/MSVOA_D/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** T2-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.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 |
| Butane, 2,3-dimet... | 3.78 | 16.7 | ug/l | 864152 | 1 | 7.04 | 2589910 | 50.0 |
| Cyclopentane, met... | 5.79 | 5.8 | ug/l | 302591 | 1 | 7.04 | 2589910 | 50.0 |
| Cyclopentane, 1,3... | 7.61 | 5.6 | ug/l | 290099 | 1 | 7.04 | 2589910 | 50.0 |
| Heptane, 2,5-dime... | 7.69 | 13.2 | ug/l | 688411 | 2 | 8.21 | 2608290 | 50.0 |
| Pentane, 2,3,3-tr... | 9.72 | 6.4 | ug/l | 331843 | 2 | 8.21 | 2608290 | 50.0 |
| Indane | 14.70 | 8.9 | ug/l | 220042 | 4 | 14.51 | 1234580 | 50.0 |