LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

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\82D031921S.M
Title : SW846 8260

Signal : TIC: VD068711.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.344 | 61 | 72 | 82 | rBV | 891092 | 1433241 | 6.42% | 0.612% |
| 2 | 3.032 | 179 | 189 | 201 | rBV | 3153745 | 6788620 | 30.41% | 2.898% |
| 3 | 3.409 | 243 | 253 | 273 | rVB2 | 1302455 | 3475646 | 15.57% | 1.484% |
| 4 | 3.609 | 277 | 287 | 301 | rBV | 301130 | 692999 | 3.10% | 0.296% |
| 5 | 3.879 | 324 | 333 | 348 | rVB | 1279587 | 3337261 | 14.95% | 1.425% |
| 6 | 4.138 | 365 | 377 | 394 | rVB5 | 163044 | 580750 | 2.60% | 0.248% |
| 7 | 4.838 | 482 | 496 | 503 | rBV3 | 119414 | 404602 | 1.81% | 0.173% |
| 8 | 4.950 | 503 | 515 | 518 | rVV2 | 579353 | 1780202 | 7.97% | 0.760% |
| 9 | 5.020 | 520 | 527 | 554 | rVV4 | 1152984 | 5320901 | 23.84% | 2.271% |
| 10 | 5.479 | 588 | 605 | 628 | rBV2 | 4262774 | 15256543 | 68.34% | 6.513% |
| 11 | 5.809 | 650 | 661 | 673 | rVB2 | 116369 | 380462 | 1.70% | 0.162% |
| 12 | 5.997 | 679 | 693 | 706 | rBV | 924855 | 2826291 | 12.66% | 1.206% |
| 13 | 6.344 | 743 | 752 | 765 | rVB | 554123 | 1670035 | 7.48% | 0.713% |
| 14 | 6.485 | 765 | 776 | 785 | rBV2 | 259655 | 816787 | 3.66% | 0.349% |
| 15 | 6.779 | 815 | 826 | 839 | rBV2 | 519454 | 1566823 | 7.02% | 0.669% |
| 16 | 6.926 | 839 | 851 | 859 | rVV2 | 715356 | 2162667 | 9.69% | 0.923% |
| 17 | 7.032 | 859 | 869 | 878 | rVV | 1494920 | 4527328 | 20.28% | 1.933% |
| 18 | 7.103 | 878 | 881 | 890 | rVV3 | 166392 | 378976 | 1.70% | 0.162% |
| 19 | 7.732 | 980 | 988 | 998 | rVB | 724774 | 1761518 | 7.89% | 0.752% |
| 20 | 7.973 | 1008 | 1029 | 1038 | rBV5 | 1967274 | 7578550 | 33.95% | 3.235% |
| 21 | 8.067 | 1038 | 1045 | 1056 | rVB2 | 1677448 | 4198457 | 18.81% | 1.792% |
| 22 | 8.191 | 1056 | 1066 | 1073 | rBV | 1663979 | 3711314 | 16.63% | 1.584% |
| 23 | 8.350 | 1083 | 1093 | 1104 | rBV | 9402171 | 22058537 | 98.81% | 9.416% |
| 24 | 8.509 | 1104 | 1120 | 1131 | rVV | 8378436 | 22323539 | 100.00% | 9.529% |
| 25 | 8.603 | 1131 | 1136 | 1146 | rVB3 | 452108 | 1089425 | 4.88% | 0.465% |
| 26 | 8.720 | 1146 | 1156 | 1170 | rVB2 | 1190508 | 2588975 | 11.60% | 1.105% |
| 27 | 8.861 | 1170 | 1180 | 1193 | rBV2 | 1836541 | 4880669 | 21.86% | 2.083% |
| 28 | 9.020 | 1201 | 1207 | 1214 | rVB | 231527 | 431865 | 1.93% | 0.184% |
| 29 | 9.097 | 1214 | 1220 | 1223 | rBV | 152350 | 290340 | 1.30% | 0.124% |
| 30 | 9.138 | 1223 | 1227 | 1248 | rVB2 | 294257 | 733894 | 3.29% | 0.313% |
| 31 | 9.356 | 1248 | 1264 | 1269 | rBV | 2803338 | 6774518 | 30.35% | 2.892% |
| 32 | 9.408 | 1269 | 1273 | 1280 | rVB | 1244796 | 2342758 | 10.49% | 1.000% |
| 33 | 9.491 | 1280 | 1287 | 1291 | rBV | 520620 | 1026245 | 4.60% | 0.438% |
| 34 | 9.538 | 1291 | 1295 | 1301 | rVB | 398843 | 732992 | 3.28% | 0.313% |
| 35 | 9.626 | 1301 | 1310 | 1317 | rVB4 | 222964 | 560990 | 2.51% | 0.239% |
| 36 | 9.779 | 1328 | 1336 | 1346 | rVB | 5575237 | 10895094 | 48.81% | 4.651% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

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\82D031921S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 9.914 | 1346 | 1359 | 1366 | rBV2 | 7148361 | 15897487 | 71.21% | 6.786% |
| 38 | 9.979 | 1366 | 1370 | 1374 | rBV | 535201 | 851379 | 3.81% | 0.363% |
| 39 | 10.114 | 1383 | 1393 | 1405 | rBV2 | 1080195 | 2748358 | 12.31% | 1.173% |
| 40 | 10.220 | 1405 | 1411 | 1414 | rVV | 285350 | 515251 | 2.31% | 0.220% |
| 41 | 10.267 | 1414 | 1419 | 1425 | rVV2 | 1038871 | 1907850 | 8.55% | 0.814% |
| 42 | 10.338 | 1425 | 1431 | 1439 | rVV | 2132506 | 4267760 | 19.12% | 1.822% |
| 43 | 10.403 | 1440 | 1442 | 1447 | rVV | 234891 | 404756 | 1.81% | 0.173% |
| 44 | 10.461 | 1447 | 1452 | 1455 | rVV3 | 204258 | 420931 | 1.89% | 0.180% |
| 45 | 10.520 | 1455 | 1462 | 1469 | rVV4 | 873235 | 1954425 | 8.75% | 0.834% |
| 46 | 10.679 | 1484 | 1489 | 1497 | rBV3 | 174585 | 408064 | 1.83% | 0.174% |
| 47 | 10.773 | 1497 | 1505 | 1515 | rVV5 | 448170 | 1381200 | 6.19% | 0.590% |
| 48 | 10.861 | 1515 | 1520 | 1526 | rVB2 | 183933 | 353916 | 1.59% | 0.151% |
| 49 | 10.955 | 1526 | 1536 | 1541 | rBV2 | 149048 | 367089 | 1.64% | 0.157% |
| 50 | 11.032 | 1541 | 1549 | 1560 | rBV3 | 329831 | 1195740 | 5.36% | 0.510% |
| 51 | 11.155 | 1566 | 1570 | 1573 | rVV3 | 175750 | 319423 | 1.43% | 0.136% |
| 52 | 11.191 | 1573 | 1576 | 1581 | rVV | 181397 | 331116 | 1.48% | 0.141% |
| 53 | 11.244 | 1581 | 1585 | 1589 | rVV2 | 137718 | 255591 | 1.14% | 0.109% |
| 54 | 11.355 | 1599 | 1604 | 1607 | rVV4 | 139521 | 232664 | 1.04% | 0.099% |
| 55 | 11.426 | 1607 | 1616 | 1628 | rVB4 | 473231 | 1313134 | 5.88% | 0.561% |
| 56 | 11.526 | 1628 | 1633 | 1643 | rBV | 440945 | 813953 | 3.65% | 0.347% |
| 57 | 11.644 | 1645 | 1653 | 1660 | rBV | 1710991 | 2989820 | 13.39% | 1.276% |
| 58 | 11.744 | 1661 | 1670 | 1680 | rVV | 7461395 | 12401999 | 55.56% | 5.294% |
| 59 | 11.855 | 1680 | 1689 | 1699 | rVB | 6112616 | 11524903 | 51.63% | 4.920% |
| 60 | 12.179 | 1733 | 1744 | 1752 | rBV2 | 232440 | 684940 | 3.07% | 0.292% |
| 61 | 12.350 | 1763 | 1773 | 1777 | rBV5 | 103586 | 262826 | 1.18% | 0.112% |
| 62 | 12.479 | 1789 | 1795 | 1801 | rBV | 616269 | 1025469 | 4.59% | 0.438% |
| 63 | 12.632 | 1814 | 1821 | 1830 | rVB | 1632040 | 3043686 | 13.63% | 1.299% |
| 64 | 12.820 | 1846 | 1853 | 1858 | rVB | 1080546 | 1773196 | 7.94% | 0.757% |
| 65 | 12.879 | 1858 | 1863 | 1865 | rVV | 341627 | 504575 | 2.26% | 0.215% |
| 66 | 12.914 | 1865 | 1869 | 1873 | rVV | 1096309 | 1770939 | 7.93% | 0.756% |
| 67 | 12.955 | 1873 | 1876 | 1884 | rVB | 495883 | 777305 | 3.48% | 0.332% |
| 68 | 13.120 | 1895 | 1904 | 1911 | rBV | 390595 | 718909 | 3.22% | 0.307% |
| 69 | 13.267 | 1922 | 1929 | 1935 | rBV | 3847131 | 6008990 | 26.92% | 2.565% |
| 70 | 13.391 | 1942 | 1950 | 1954 | rBV3 | 145673 | 377873 | 1.69% | 0.161% |
| 71 | 13.573 | 1974 | 1981 | 1984 | rVV | 1682027 | 3027565 | 13.56% | 1.292% |
| 72 | 13.602 | 1984 | 1986 | 1996 | rVB | 1170046 | 1554319 | 6.96% | 0.663% |
| 73 | 13.738 | 2002 | 2009 | 2011 | rBV | 178954 | 310119 | 1.39% | 0.132% |
| 74 | 13.773 | 2011 | 2015 | 2019 | rVV | 550095 | 837538 | 3.75% | 0.358% |
| 75 | 13.967 | 2041 | 2048 | 2053 | rVV | 139083 | 224742 | 1.01% | 0.096% |
| 76 | 14.026 | 2053 | 2058 | 2061 | rVV | 156182 | 272356 | 1.22% | 0.116% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
B2-0-2

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\82D031921S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 14.114 | 2067 | 2073 | 2079 | rVB | 299664 | 479695 | 2.15% | 0.205% |
| 78 | 14.226 | 2087 | 2092 | 2098 | rVB2 | 230651 | 370869 | 1.66% | 0.158% |

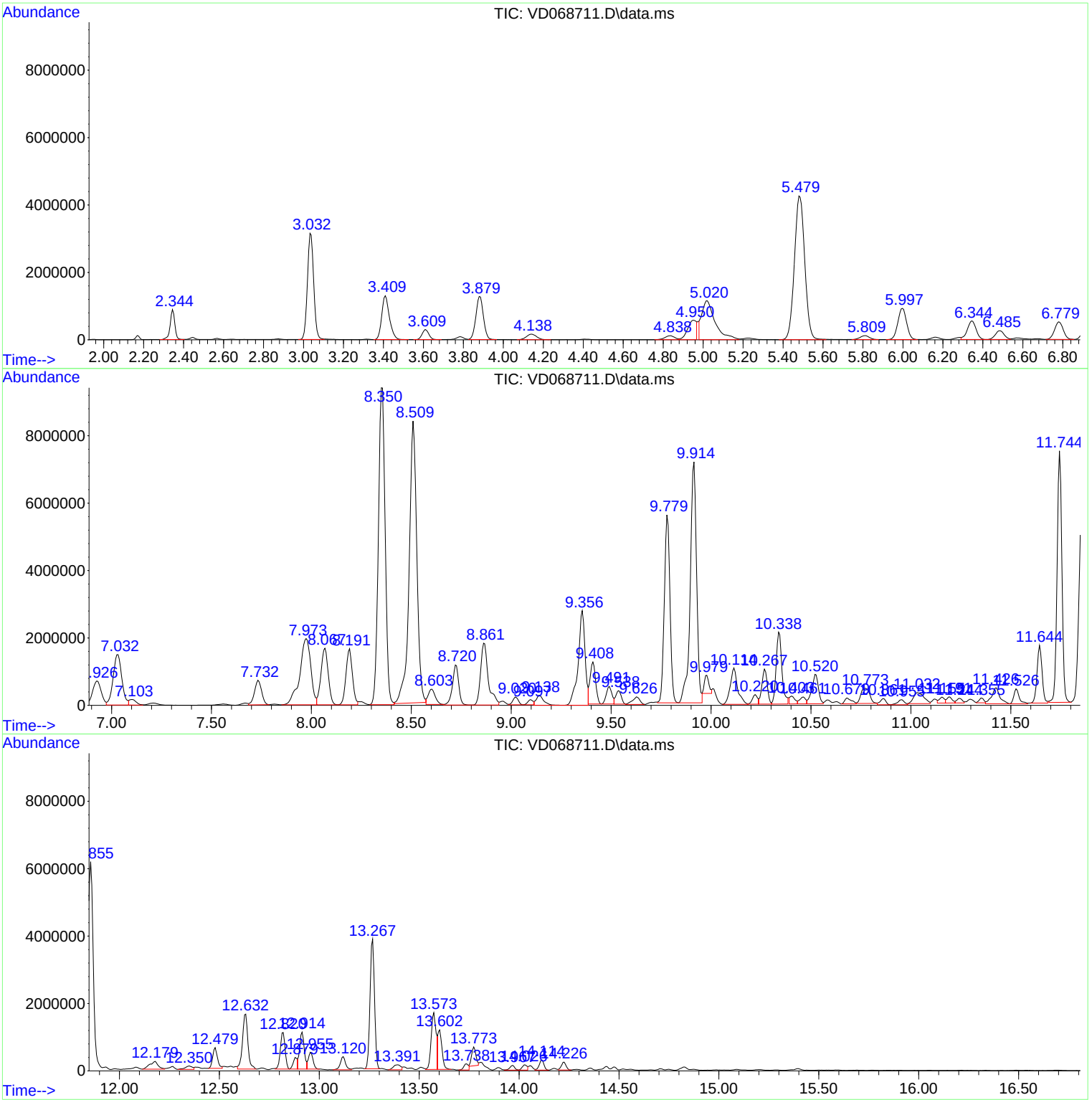
Sum of corrected areas: 234262534

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
B2-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
B2-0-2

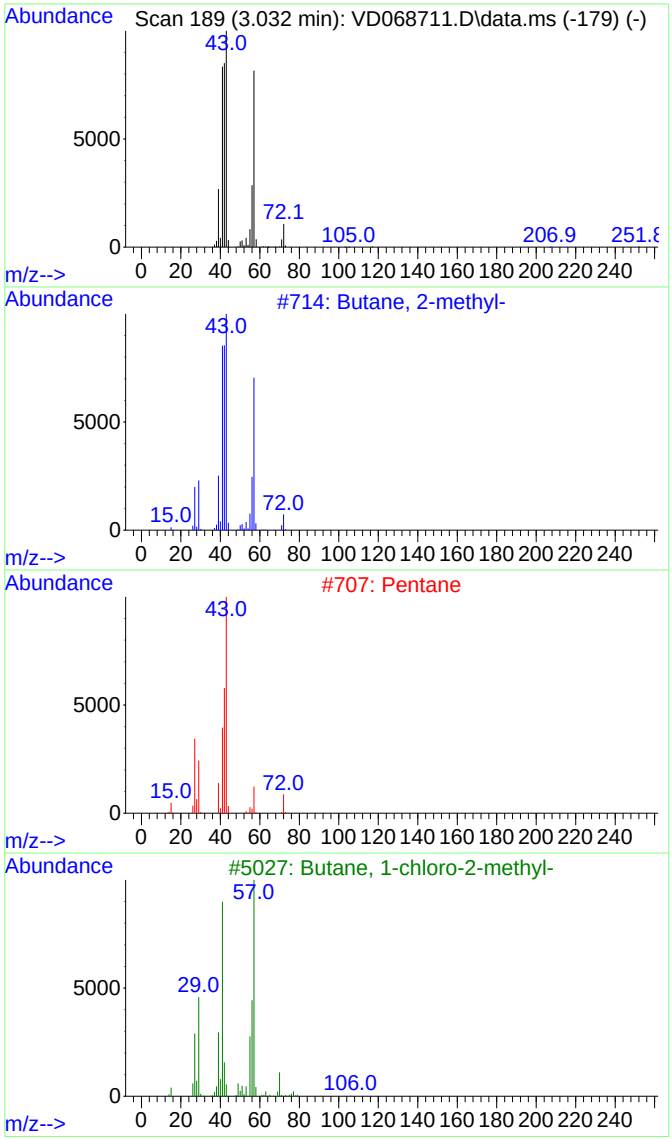
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

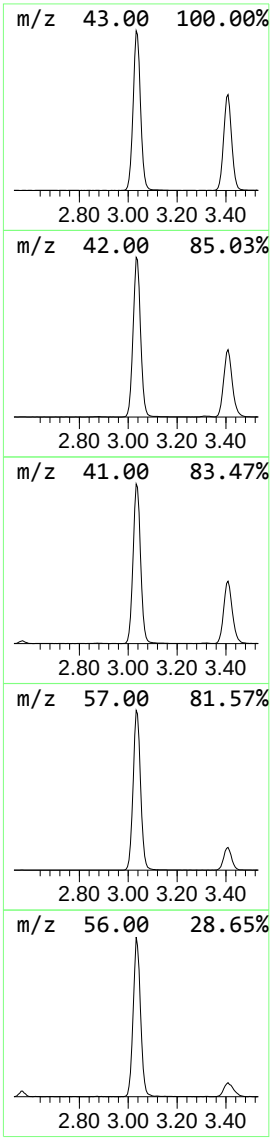
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Butane, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.032 | 44.79 ug/l | 6788620 | Pentafluorobenzene | 7.979 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 94 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 42 |
| 3 | Butane, 1-chloro-2-methyl- | 106 | C5H11Cl | 000616-13-7 | 16 |
| 4 | 1-Butene | 56 | C4H8 | 000106-98-9 | 10 |
| 5 | Butane, 2-nitro- | 103 | C4H9NO2 | 000600-24-8 | 10 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

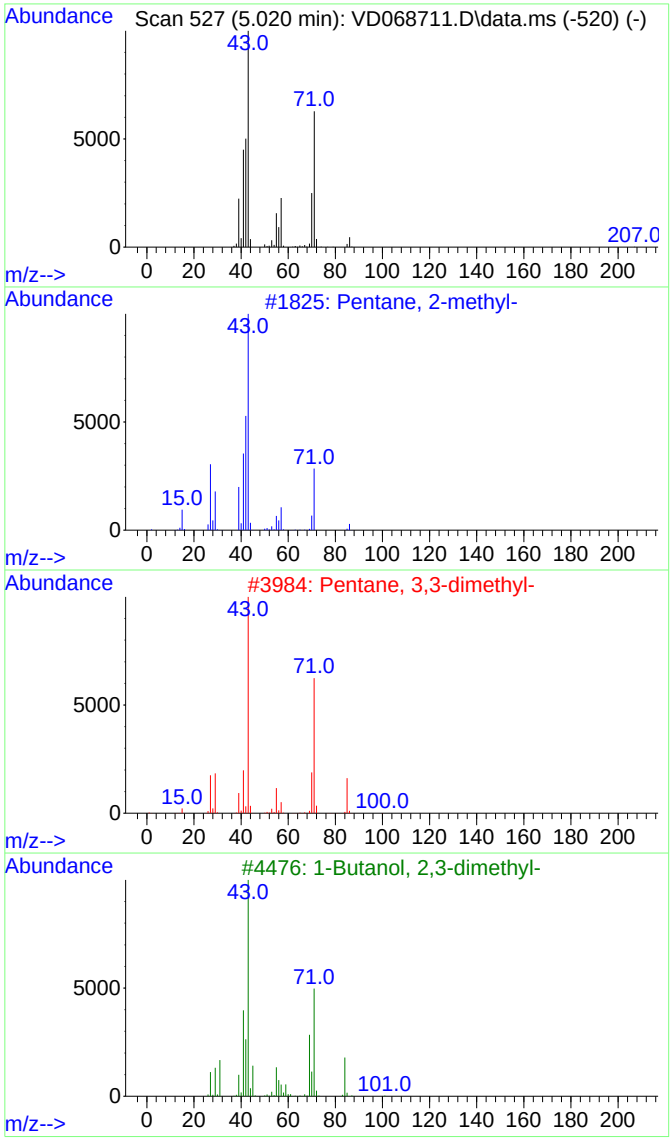
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

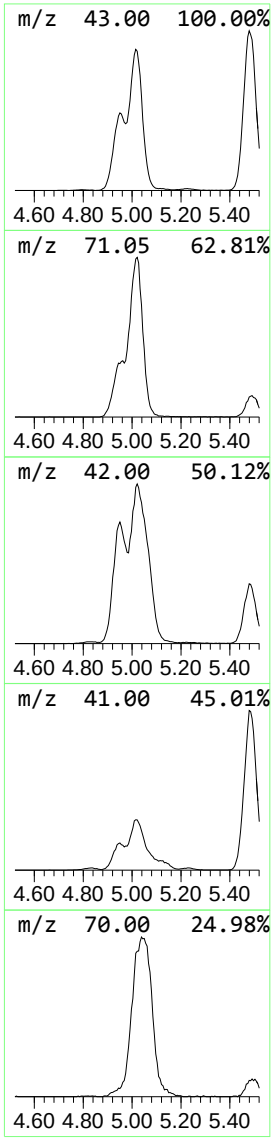
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Pentane, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.020 | 35.10 ug/l | 5320900 | Pentafluorobenzene | 7.979 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 59 |
| 2 | Pentane, 3,3-dimethyl- | 100 | C7H16 | 000562-49-2 | 50 |
| 3 | 1-Butanol, 2,3-dimethyl- | 102 | C6H14O | 019550-30-2 | 38 |
| 4 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 38 |
| 5 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

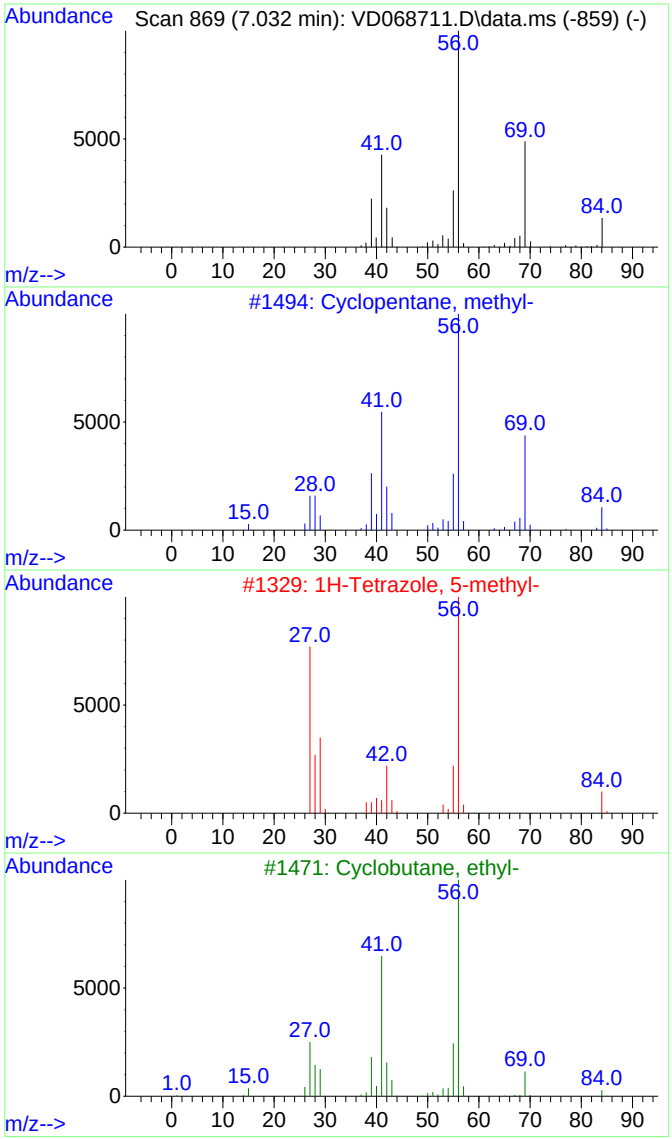
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

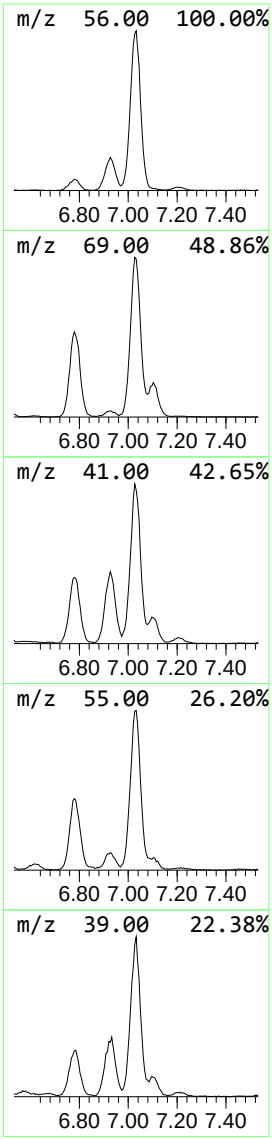
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Cyclopentane, methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.032 | 29.87 ug/l | 4527330 | Pentafluorobenzene | 7.979 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 91 |
| 2 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 72 |
| 3 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 72 |
| 4 | Propane, 2-cyclopropyl- | 84 | C6H12 | 003638-35-5 | 56 |
| 5 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 52 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

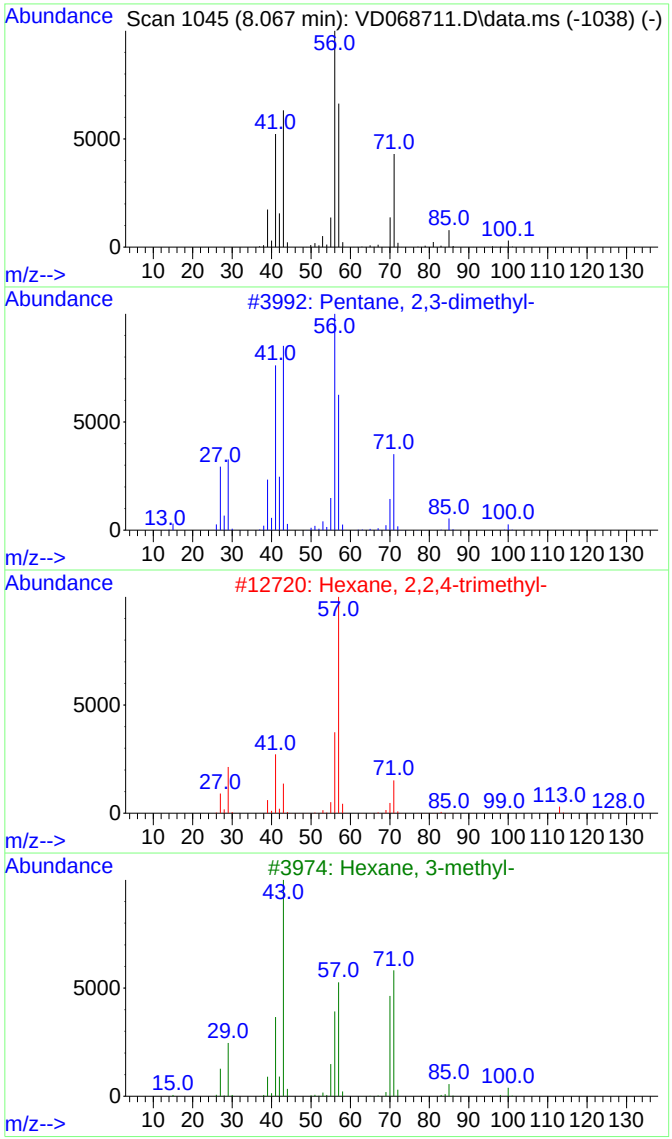
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

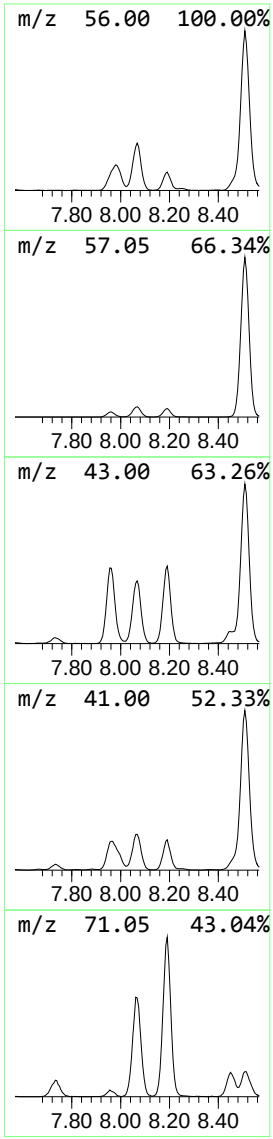
**********

Peak Number 4 Pentane, 2,3-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.067 | 27.70 ug/l | 4198460 | Pentafluorobenzene | 7.979 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 2 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 56 |
| 3 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 38 |
| 4 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 35 |
| 5 | 2(3H)-Furanone, dihydro-3,3-dime... | 114 | C6H10O2 | 003709-08-8 | 33 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

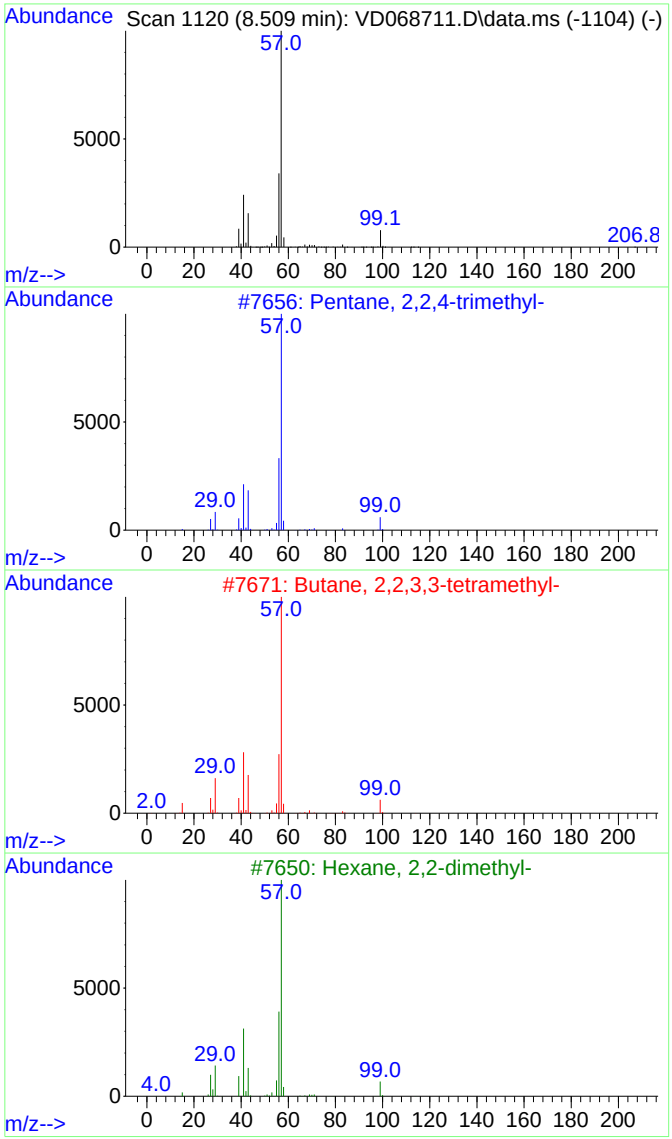
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

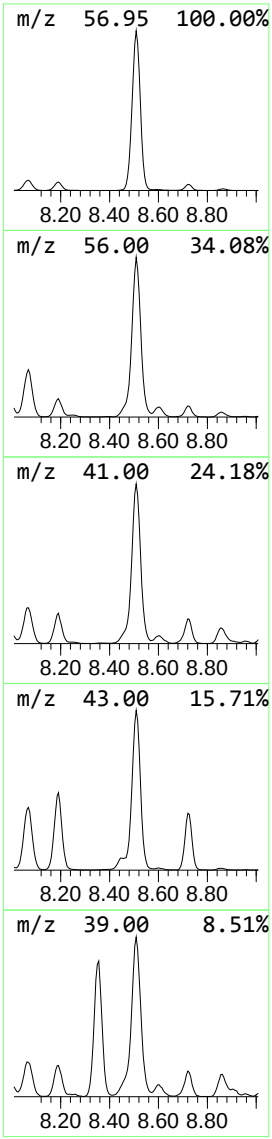
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Pentane, 2,2,4-trimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.509 | 228.69 ug/l | 22323500 | 1,4-Difluorobenzene | 8.867 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 78 |
| 2 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 72 |
| 3 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 72 |
| 4 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 59 |
| 5 | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26 | 013475-82-6 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

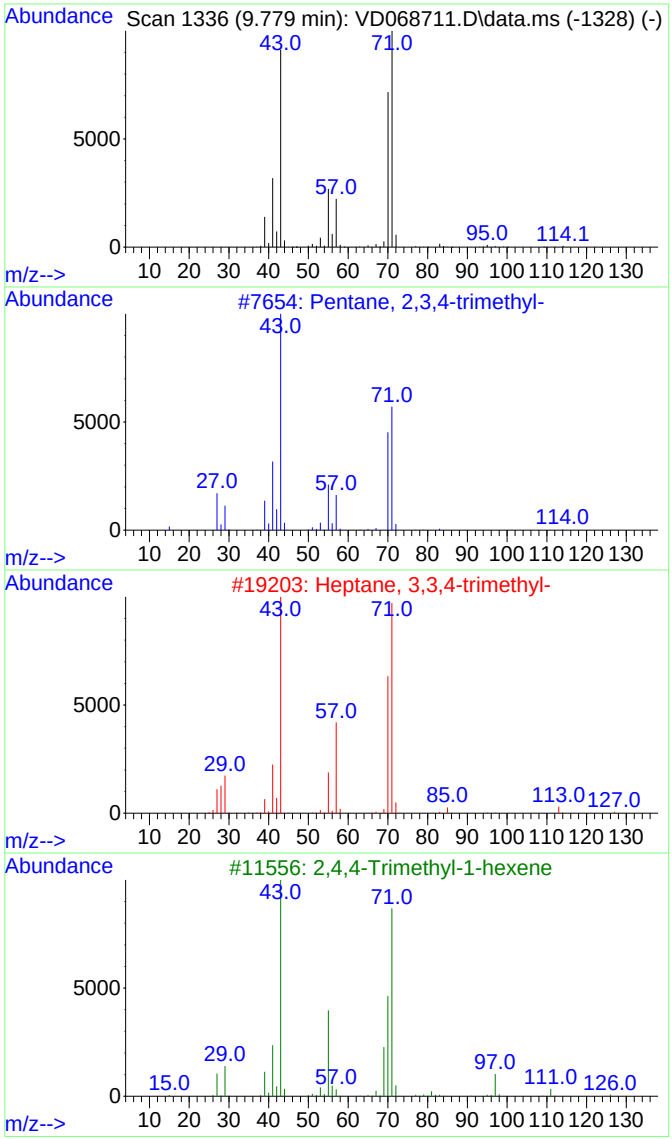
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

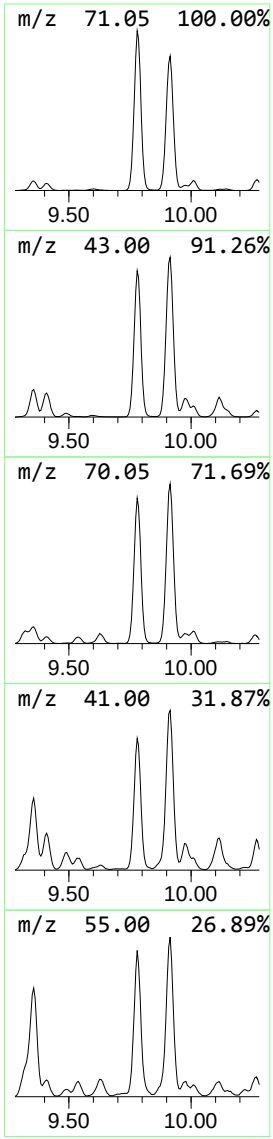
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.779 | 111.61 ug/l | 10895100 | 1,4-Difluorobenzene | 8.867 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 91 |
| 2 | Heptane, 3,3,4-trimethyl- | 142 | C10H22 | 020278-87-9 | 78 |
| 3 | 2,4,4-Trimethyl-1-hexene | 126 | C9H18 | 051174-12-0 | 78 |
| 4 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 74 |
| 5 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

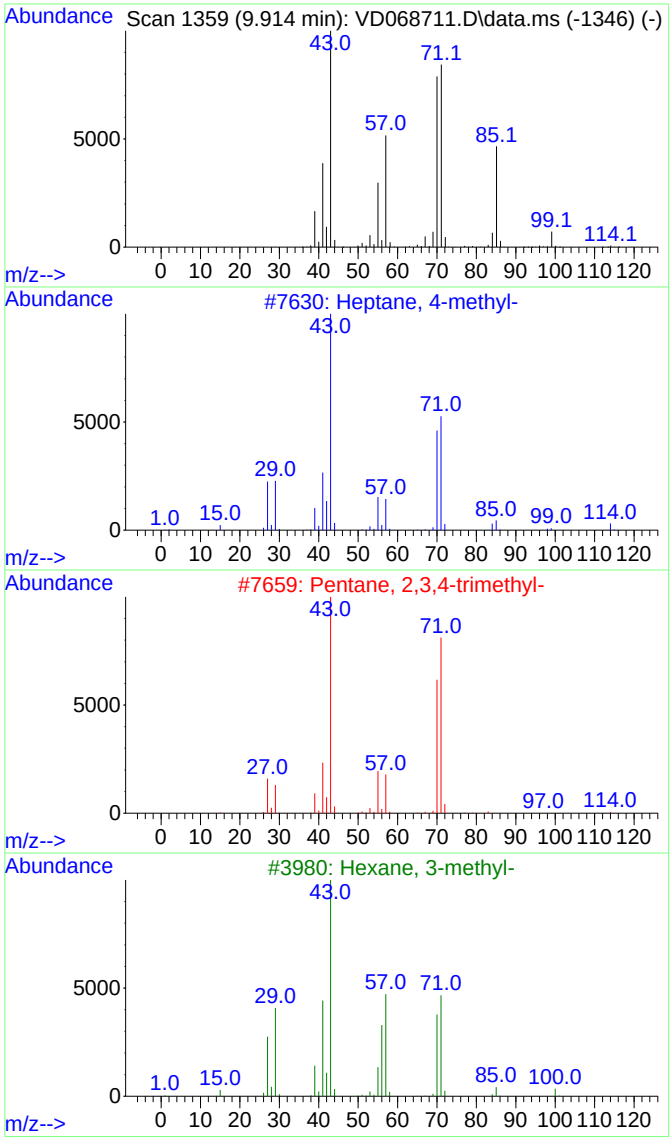
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

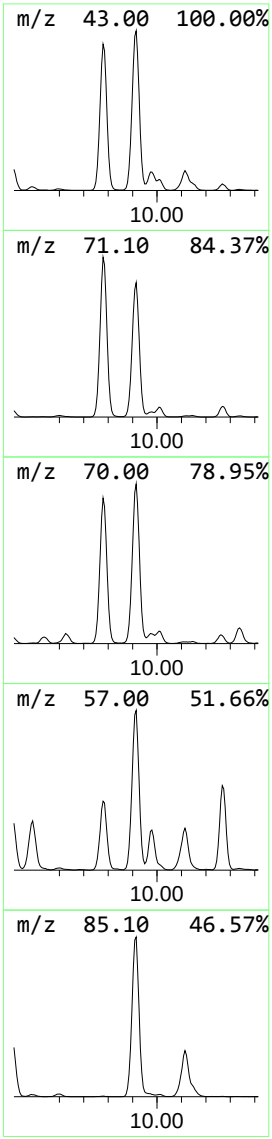
**********

Peak Number 7 Heptane, 4-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.914 | 162.86 ug/l | 15897500 | 1,4-Difluorobenzene | 8.867 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 72 |
| 2 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 72 |
| 3 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 64 |
| 4 | Decane, 3,3,4-trimethyl- | 184 | C13H28 | 049622-18-6 | 64 |
| 5 | Heptane, 3,3,4-trimethyl- | 142 | C10H22 | 020278-87-9 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

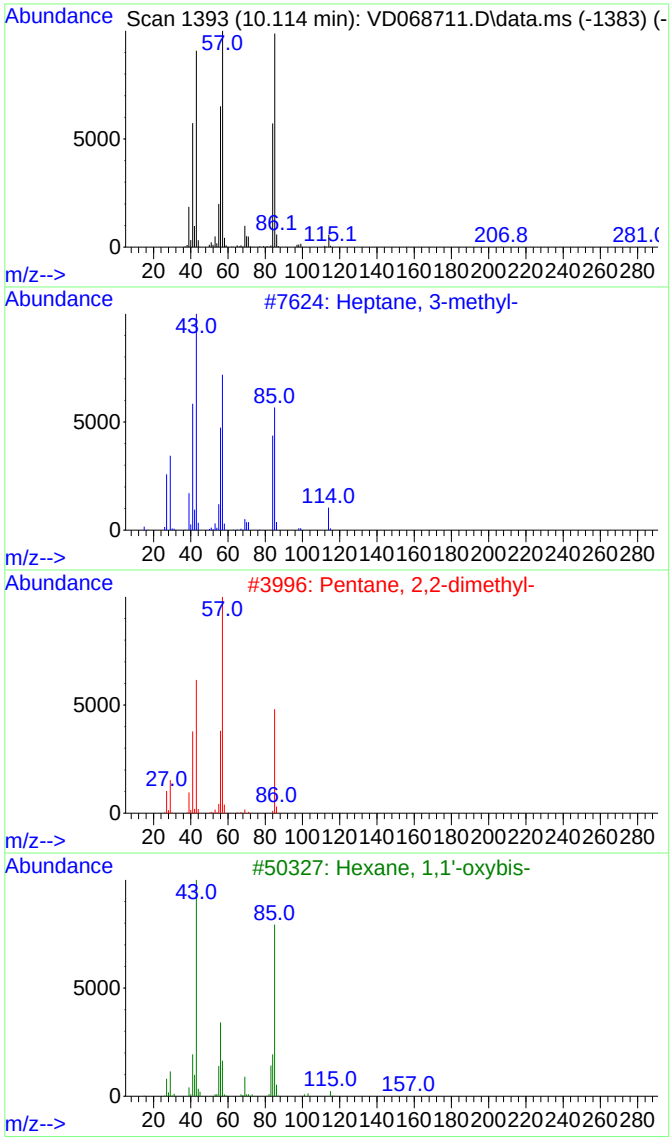
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

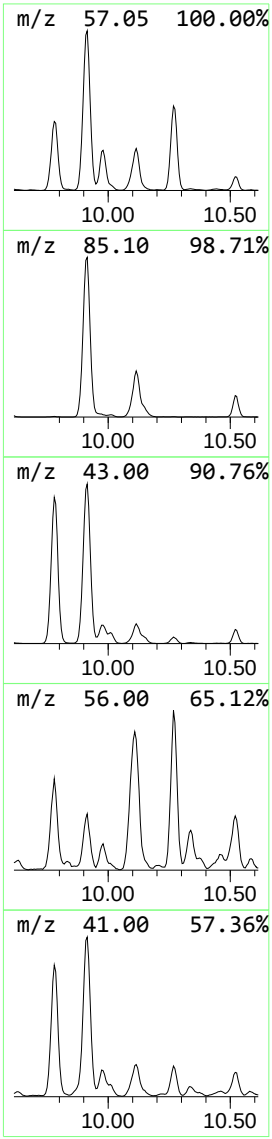
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Heptane, 3-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.114 | 28.16 ug/l | 2748360 | 1,4-Difluorobenzene | 8.867 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 91 |
| 2 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 59 |
| 3 | Hexane, 1,1'-oxybis- | 186 | C12H26O | 000112-58-3 | 59 |
| 4 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 53 |
| 5 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
B2-0-2

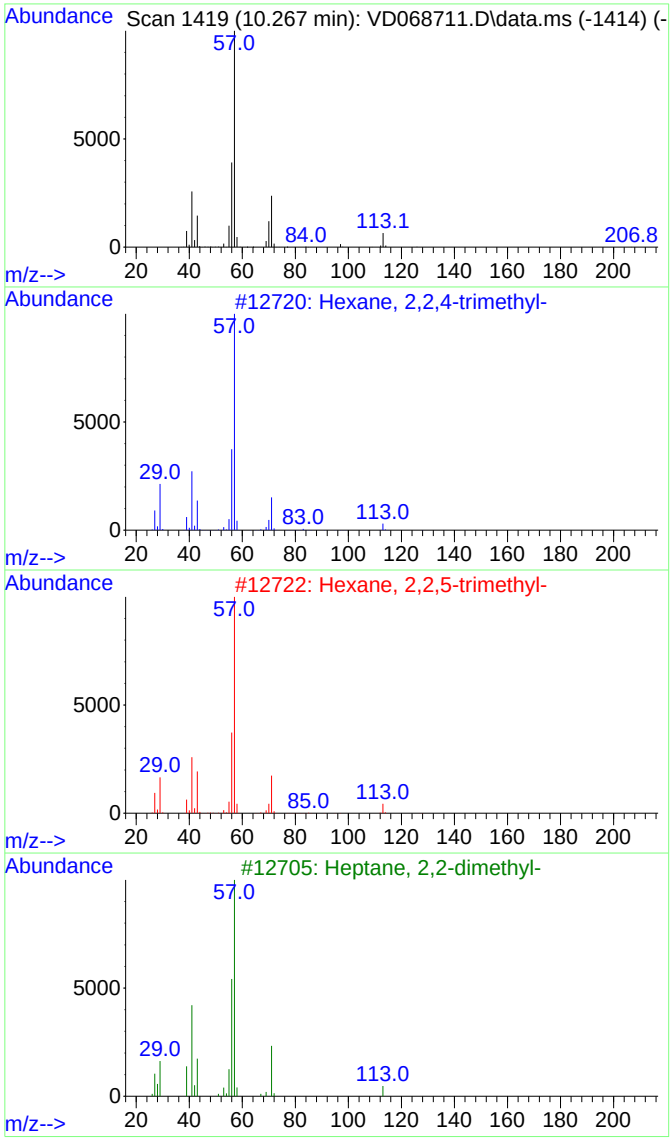
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

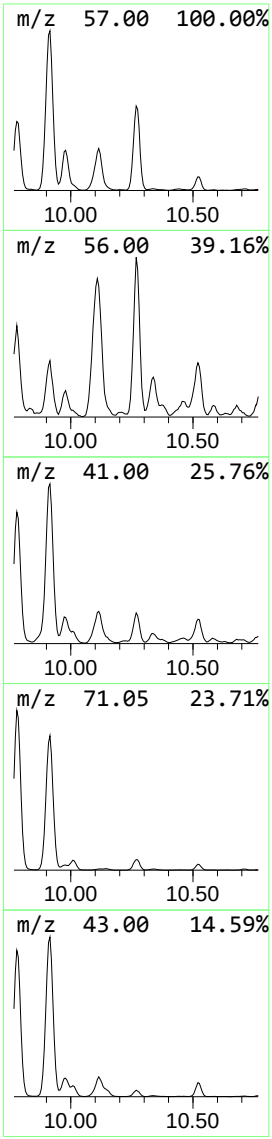
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Hexane, 2,2,4-trimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.267 | 31.91 ug/l | 1907850 | Chlorobenzene-d5 | 11.644 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 78 |
| 2 | Hexane, 2,2,5-trimethyl- | 128 | C9H20 | 003522-94-9 | 78 |
| 3 | Heptane, 2,2-dimethyl- | 128 | C9H20 | 001071-26-7 | 72 |
| 4 | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20 | 016747-32-3 | 56 |
| 5 | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20 | 001186-53-4 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
B2-0-2

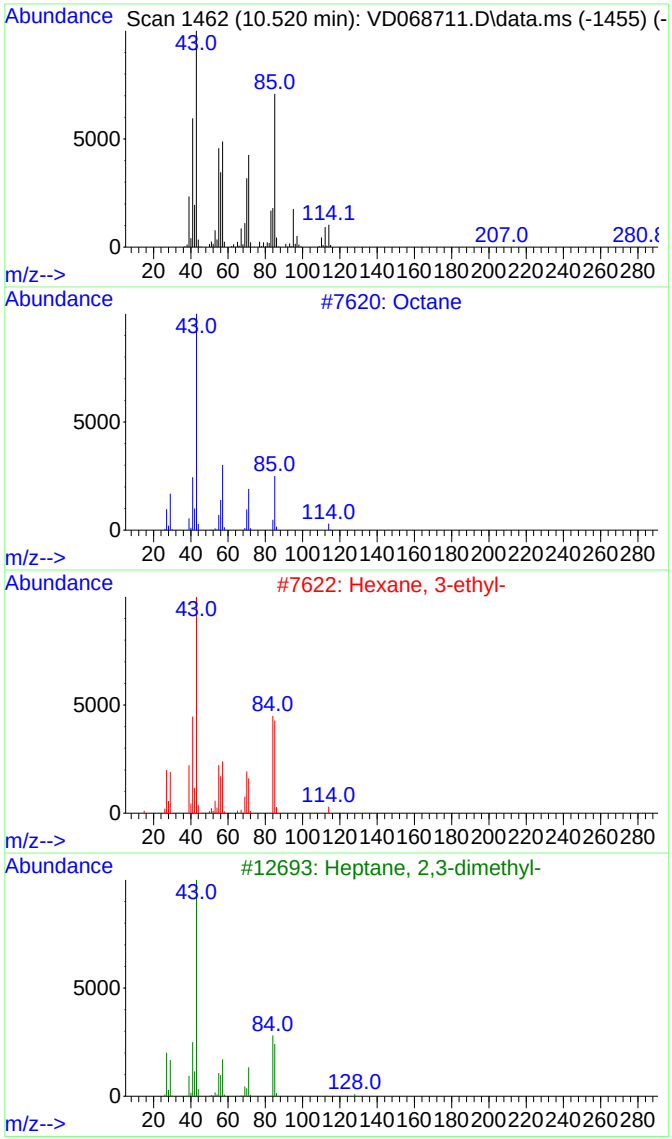
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260

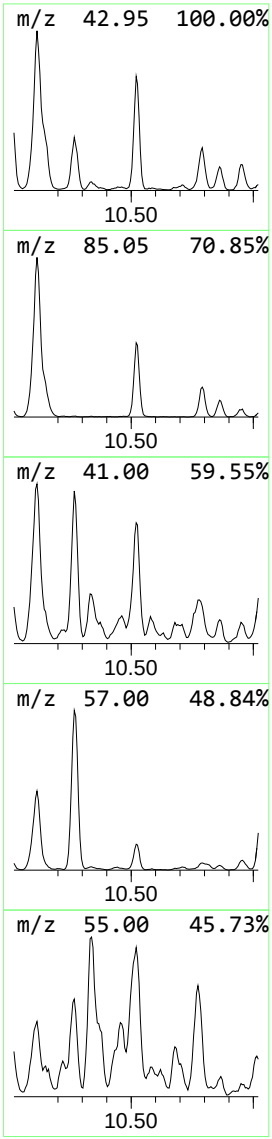
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 Octane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.520 | 32.68 ug/l | 1954430 | Chlorobenzene-d5 | 11.644 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane | 114 | C8H18 | 000111-65-9 | 72 |
| 2 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 58 |
| 3 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 53 |
| 4 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 50 |
| 5 | 1-Pentanol, 2-methyl- | 102 | C6H14O | 000105-30-6 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032921\
Data File : VD068711.D
Acq On : 29 Mar 2021 21:18
Operator : VA/SY
Sample : M1836-03
Misc : 8.68G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** B2-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.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-methyl- | 3.032 | 44.8 | ug/l | 6788620 | 1 | 7.979 | 7578550 | 50.0 |
| Pentane, 2-methyl- | 5.020 | 35.1 | ug/l | 5320900 | 1 | 7.979 | 7578550 | 50.0 |
| Cyclopentane, m... | 7.032 | 29.9 | ug/l | 4527330 | 1 | 7.979 | 7578550 | 50.0 |
| Pentane, 2,3-di... | 8.067 | 27.7 | ug/l | 4198460 | 1 | 7.979 | 7578550 | 50.0 |
| Pentane, 2,2,4-... | 8.509 | 228.7 | ug/l | 22323500 | 2 | 8.867 | 4880670 | 50.0 |
| Pentane, 2,3,4-... | 9.779 | 111.6 | ug/l | 10895100 | 2 | 8.867 | 4880670 | 50.0 |
| Heptane, 4-methyl- | 9.914 | 162.9 | ug/l | 15897500 | 2 | 8.867 | 4880670 | 50.0 |
| Heptane, 3-methyl- | 10.114 | 28.2 | ug/l | 2748360 | 2 | 8.867 | 4880670 | 50.0 |
| Hexane, 2,2,4-t... | 10.267 | 31.9 | ug/l | 1907850 | 3 | 11.644 | 2989820 | 50.0 |
| Octane | 10.520 | 32.7 | ug/l | 1954430 | 3 | 11.644 | 2989820 | 50.0 |