LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

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_U\METHOD\82U072718W.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 | 1.089 | 138 | 155 | 170 | rBV | 480947 | 533439 | 11.86% | 2.015% |
| 2 | 1.307 | 216 | 223 | 236 | rVB | 54388 | 58171 | 1.29% | 0.220% |
| 3 | 1.404 | 245 | 253 | 263 | rBV | 729497 | 749252 | 16.66% | 2.831% |
| 4 | 1.760 | 354 | 364 | 382 | rBV | 728572 | 947861 | 21.08% | 3.581% |
| 5 | 1.950 | 413 | 423 | 440 | rVB | 342575 | 458179 | 10.19% | 1.731% |
| 6 | 2.304 | 521 | 533 | 547 | rVB3 | 29476 | 60123 | 1.34% | 0.227% |
| 7 | 2.712 | 647 | 660 | 664 | rBV2 | 32928 | 62851 | 1.40% | 0.237% |
| 8 | 2.748 | 665 | 671 | 677 | rVV | 62295 | 112713 | 2.51% | 0.426% |
| 9 | 2.796 | 677 | 686 | 707 | rVB | 188353 | 359332 | 7.99% | 1.358% |
| 10 | 3.002 | 732 | 750 | 767 | rBV | 69577 | 148363 | 3.30% | 0.561% |
| 11 | 4.101 | 1072 | 1092 | 1115 | rVB | 206863 | 545619 | 12.14% | 2.062% |
| 12 | 4.889 | 1319 | 1337 | 1354 | rBV | 195806 | 444194 | 9.88% | 1.678% |
| 13 | 4.992 | 1354 | 1369 | 1388 | rVV2 | 348930 | 849244 | 18.89% | 3.209% |
| 14 | 5.088 | 1389 | 1399 | 1415 | rVB5 | 18888 | 46938 | 1.04% | 0.177% |
| 15 | 5.227 | 1426 | 1442 | 1450 | rBV2 | 25146 | 63119 | 1.40% | 0.238% |
| 16 | 5.313 | 1458 | 1469 | 1489 | rVB | 191050 | 402579 | 8.95% | 1.521% |
| 17 | 5.487 | 1508 | 1523 | 1534 | rBV4 | 25503 | 58823 | 1.31% | 0.222% |
| 18 | 5.558 | 1535 | 1545 | 1556 | rVV4 | 21939 | 49987 | 1.11% | 0.189% |
| 19 | 5.628 | 1556 | 1567 | 1582 | rVB5 | 20422 | 47201 | 1.05% | 0.178% |
| 20 | 5.892 | 1633 | 1649 | 1674 | rBV | 379378 | 751490 | 16.71% | 2.839% |
| 21 | 6.419 | 1794 | 1813 | 1826 | rBV6 | 63006 | 157566 | 3.50% | 0.595% |
| 22 | 7.571 | 2148 | 2171 | 2189 | rBV | 708078 | 1276924 | 28.40% | 4.825% |
| 23 | 9.095 | 2632 | 2645 | 2666 | rBV | 573948 | 950983 | 21.15% | 3.593% |
| 24 | 9.252 | 2682 | 2694 | 2719 | rBV | 1140590 | 1818073 | 40.44% | 6.869% |
| 25 | 9.378 | 2719 | 2733 | 2763 | rVB | 2713298 | 4496036 | 100.00% | 16.987% |
| 26 | 10.169 | 2968 | 2979 | 2992 | rBV | 200020 | 310075 | 6.90% | 1.172% |
| 27 | 10.310 | 3011 | 3023 | 3039 | rBV | 596110 | 952656 | 21.19% | 3.599% |
| 28 | 10.590 | 3098 | 3110 | 3125 | rBV | 214847 | 331030 | 7.36% | 1.251% |
| 29 | 10.683 | 3127 | 3139 | 3157 | rVV | 609034 | 1297028 | 28.85% | 4.901% |
| 30 | 10.776 | 3157 | 3168 | 3188 | rVB | 474708 | 729721 | 16.23% | 2.757% |
| 31 | 10.976 | 3217 | 3230 | 3249 | rVB | 350559 | 555788 | 12.36% | 2.100% |
| 32 | 11.152 | 3273 | 3285 | 3299 | rVB | 1387374 | 2084374 | 46.36% | 7.875% |
| 33 | 11.432 | 3357 | 3372 | 3378 | rBV | 40534 | 60790 | 1.35% | 0.230% |
| 34 | 11.487 | 3378 | 3389 | 3404 | rVV | 797986 | 1250815 | 27.82% | 4.726% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

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_U\METHOD\82U072718W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.574 | 3404 | 3416 | 3439 | rVB | 570897 | 869462 | 19.34% | 3.285% |
| 36 | 11.770 | 3465 | 3477 | 3486 | rBV | 160852 | 281255 | 6.26% | 1.063% |
| 37 | 11.812 | 3486 | 3490 | 3499 | rVV2 | 49085 | 69766 | 1.55% | 0.264% |
| 38 | 11.876 | 3499 | 3510 | 3526 | rVB6 | 55660 | 124111 | 2.76% | 0.469% |
| 39 | 12.149 | 3578 | 3595 | 3599 | rBV | 40940 | 60852 | 1.35% | 0.230% |
| 40 | 12.178 | 3600 | 3604 | 3614 | rVV | 49608 | 70601 | 1.57% | 0.267% |
| 41 | 12.255 | 3616 | 3628 | 3635 | rVV | 57591 | 92569 | 2.06% | 0.350% |
| 42 | 12.361 | 3650 | 3661 | 3689 | rVB3 | 43641 | 130239 | 2.90% | 0.492% |
| 43 | 12.554 | 3711 | 3721 | 3731 | rVB3 | 35605 | 64077 | 1.43% | 0.242% |
| 44 | 12.654 | 3731 | 3752 | 3760 | rBV | 50871 | 91686 | 2.04% | 0.346% |
| 45 | 12.705 | 3760 | 3768 | 3785 | rVB | 78656 | 122581 | 2.73% | 0.463% |
| 46 | 13.123 | 3889 | 3898 | 3913 | rVB3 | 135635 | 217316 | 4.83% | 0.821% |
| 47 | 13.291 | 3941 | 3950 | 3961 | rVB | 70029 | 108227 | 2.41% | 0.409% |
| 48 | 13.744 | 4079 | 4091 | 4118 | rVB | 473309 | 784767 | 17.45% | 2.965% |
| 49 | 14.352 | 4266 | 4280 | 4292 | rBV7 | 20397 | 47099 | 1.05% | 0.178% |
| 50 | 14.882 | 4434 | 4445 | 4456 | rBV | 97177 | 171349 | 3.81% | 0.647% |
| 51 | 15.065 | 4492 | 4502 | 4517 | rBV | 81605 | 139744 | 3.11% | 0.528% |

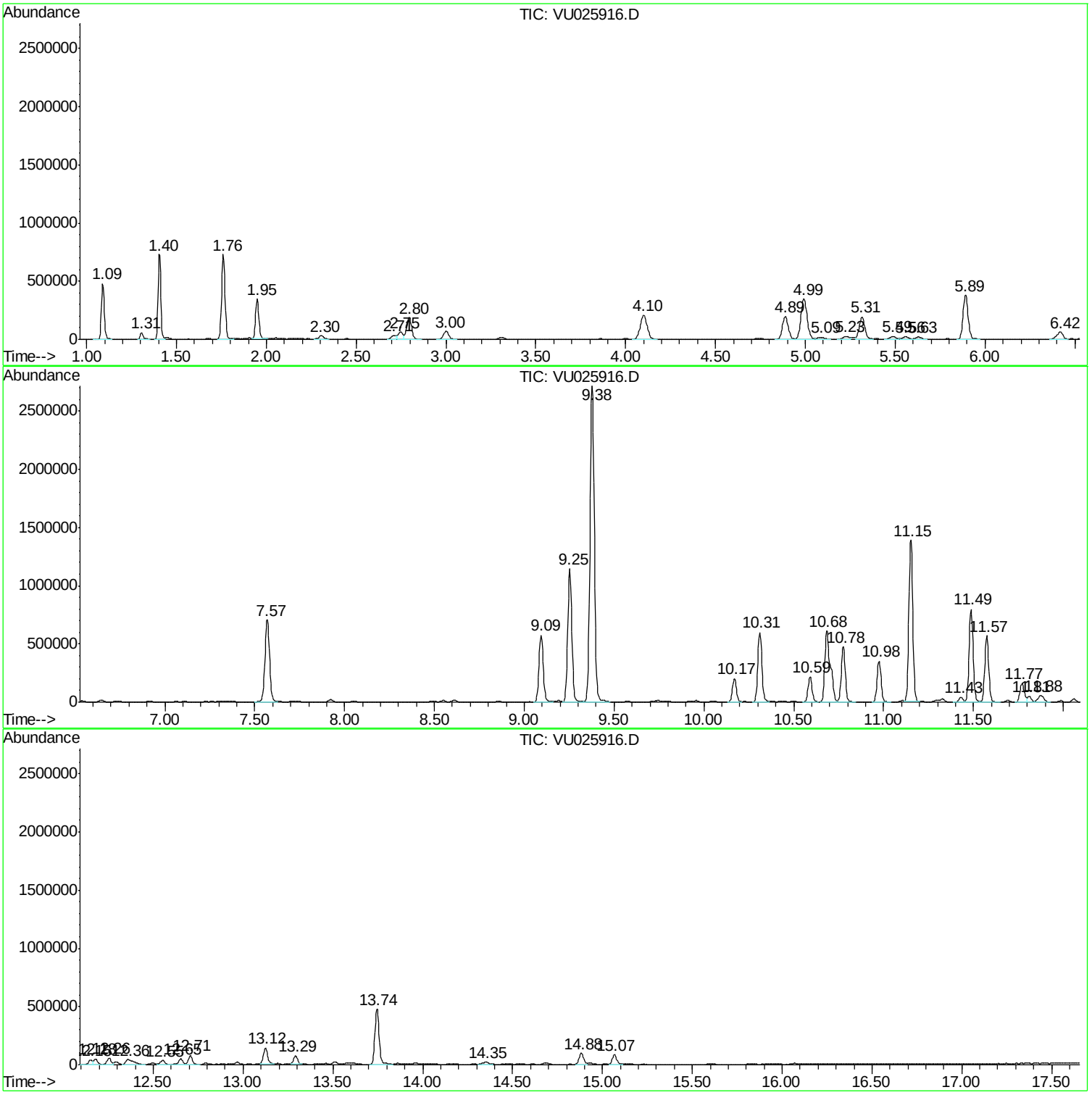
Sum of corrected areas: 26467038

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.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_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

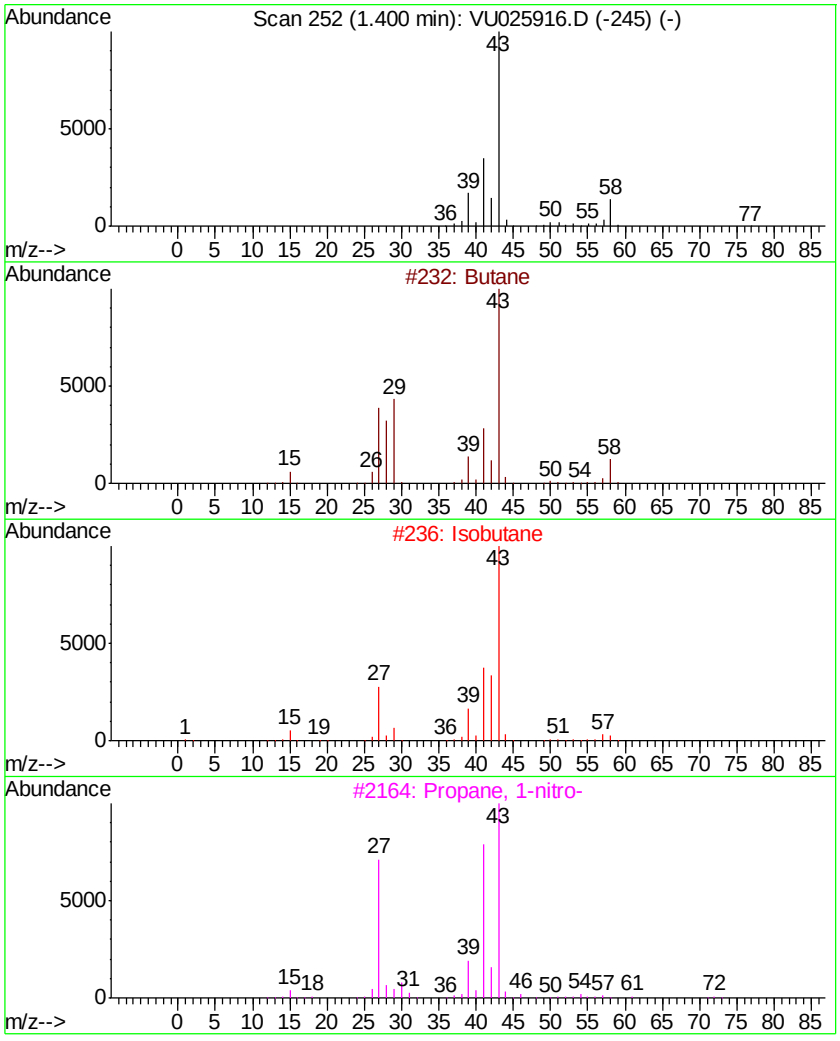
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

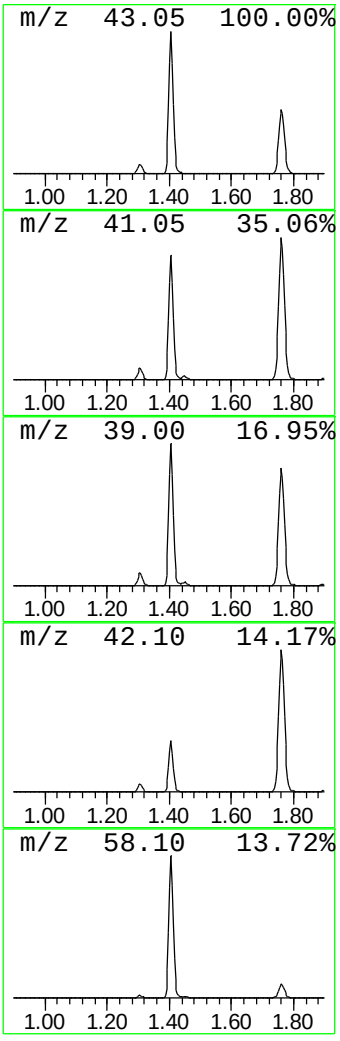
**********

Peak Number 2 Butane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.40 | 44.11 ug/l | 749252 | Pentafluorobenzene | 4.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 2 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |
| 3 | Propane, 1-nitro- | 89 | C3H7NO2 | 000108-03-2 | 9 |
| 4 | Isopropylsulfonyl chloride | 142 | C3H7ClO2S | 010147-37-2 | 9 |
| 5 | Diazene, dimethyl- | 58 | C2H6N2 | 000503-28-6 | 4 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

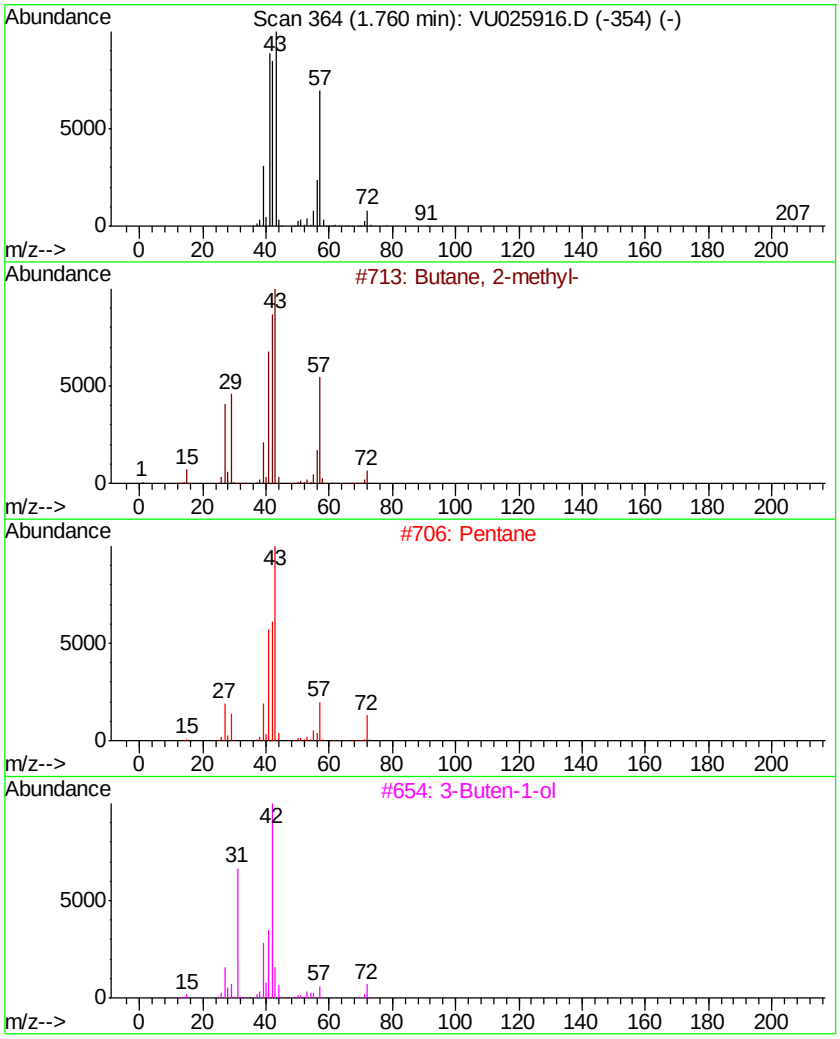
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

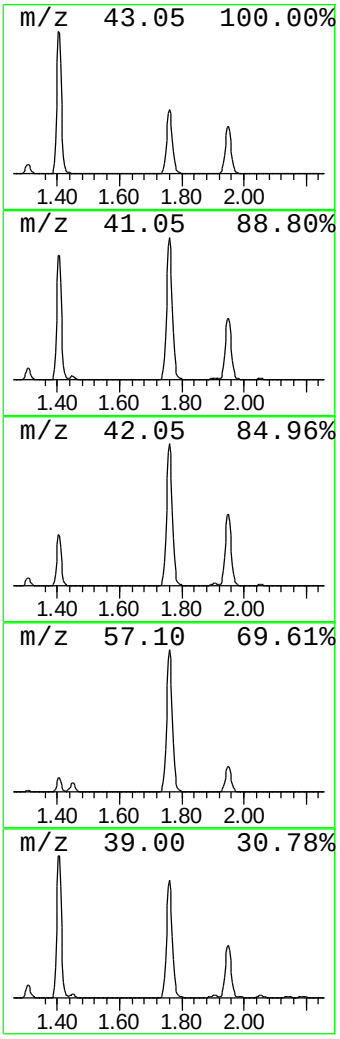
**********

Peak Number 3 Butane, 2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.76 | 55.81 ug/l | 947861 | Pentafluorobenzene | 4.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 91 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 36 |
| 3 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 28 |
| 4 | Butane, 1-chloro-2-methyl- | 106 | C5H11Cl | 000616-13-7 | 16 |
| 5 | 1-Butene | 56 | C4H8 | 000106-98-9 | 9 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

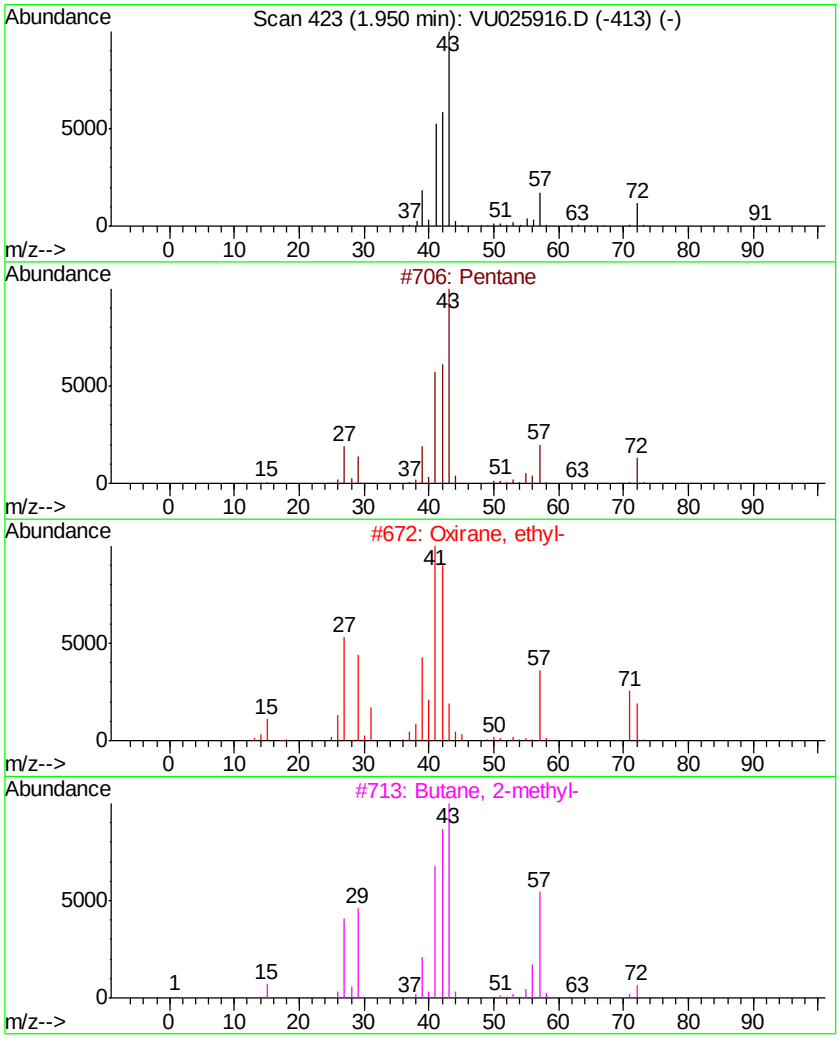
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

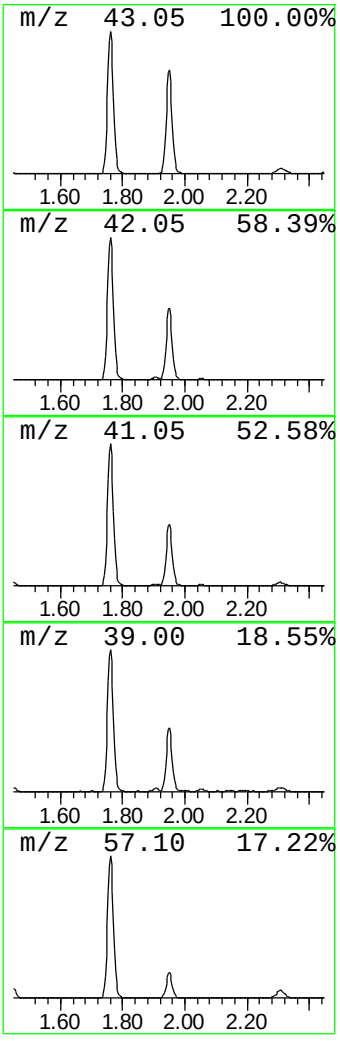
**********

Peak Number 4 Pentane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.95 | 26.98 ug/l | 458179 | Pentafluorobenzene | 4.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 91 |
| 2 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 50 |
| 3 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 38 |
| 4 | Diaziridine,3,3-dimethyl- | 72 | C3H8N2 | 004901-76-2 | 25 |
| 5 | Isobutyl nitrite | 103 | C4H9NO2 | 000542-56-3 | 9 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

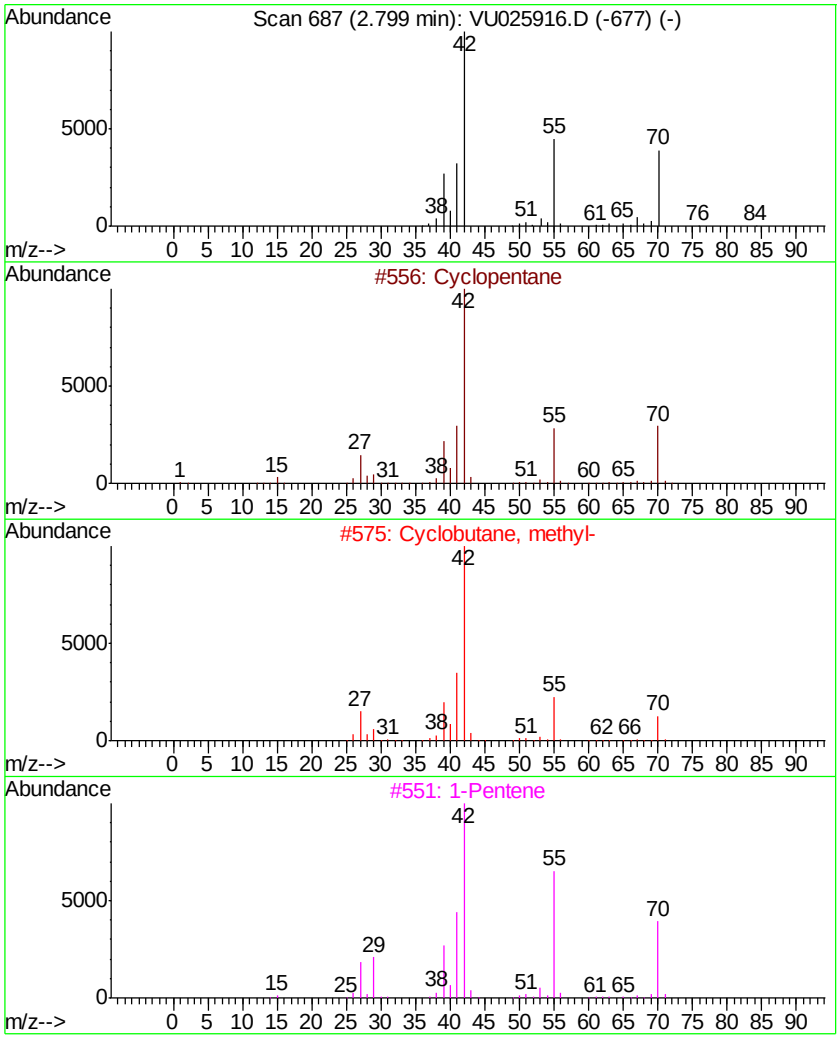
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

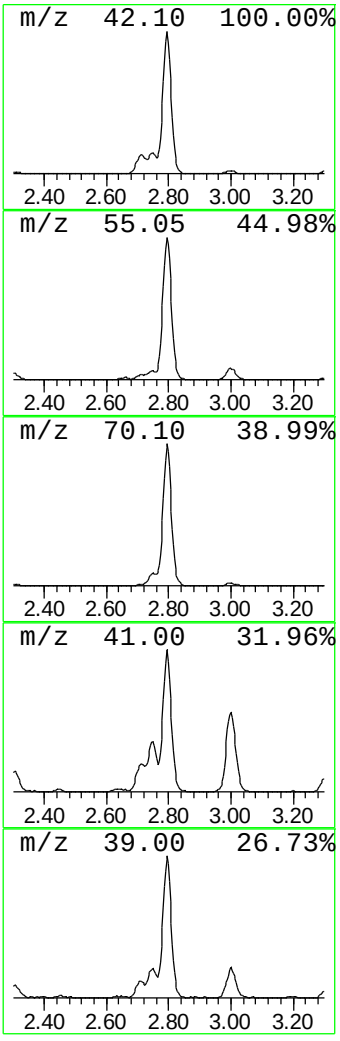
**********

Peak Number 5 Cyclopentane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.80 | 21.16 ug/l | 359332 | Pentafluorobenzene | 4.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane | 70 | C5H10 | 000287-92-3 | 86 |
| 2 | Cyclobutane, methyl- | 70 | C5H10 | 000598-61-8 | 78 |
| 3 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 72 |
| 4 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 9 |
| 5 | Methyl propargyl ether | 70 | C4H6O | 000627-41-8 | 7 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

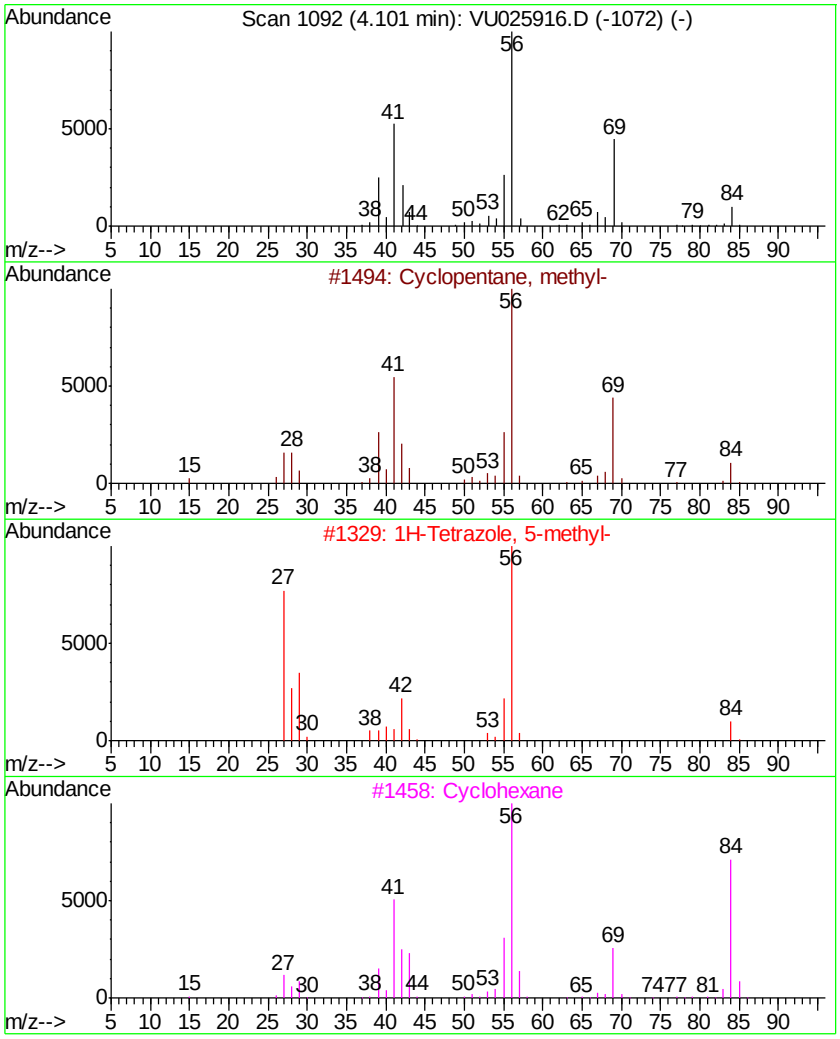
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

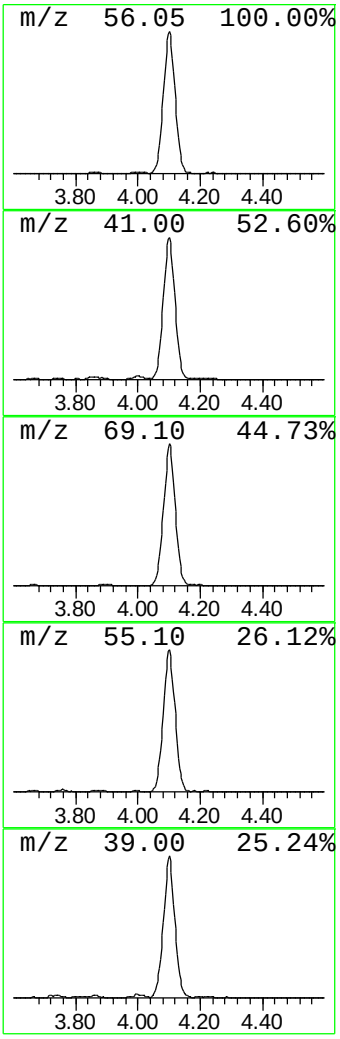
**********

Peak Number 6 Cyclopentane, methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.10 | 32.12 ug/l | 545619 | Pentafluorobenzene | 4.99 |

| 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 | 80 |
| 3 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 64 |
| 4 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 64 |
| 5 | Cyclobutane | 56 | C4H8 | 000287-23-0 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

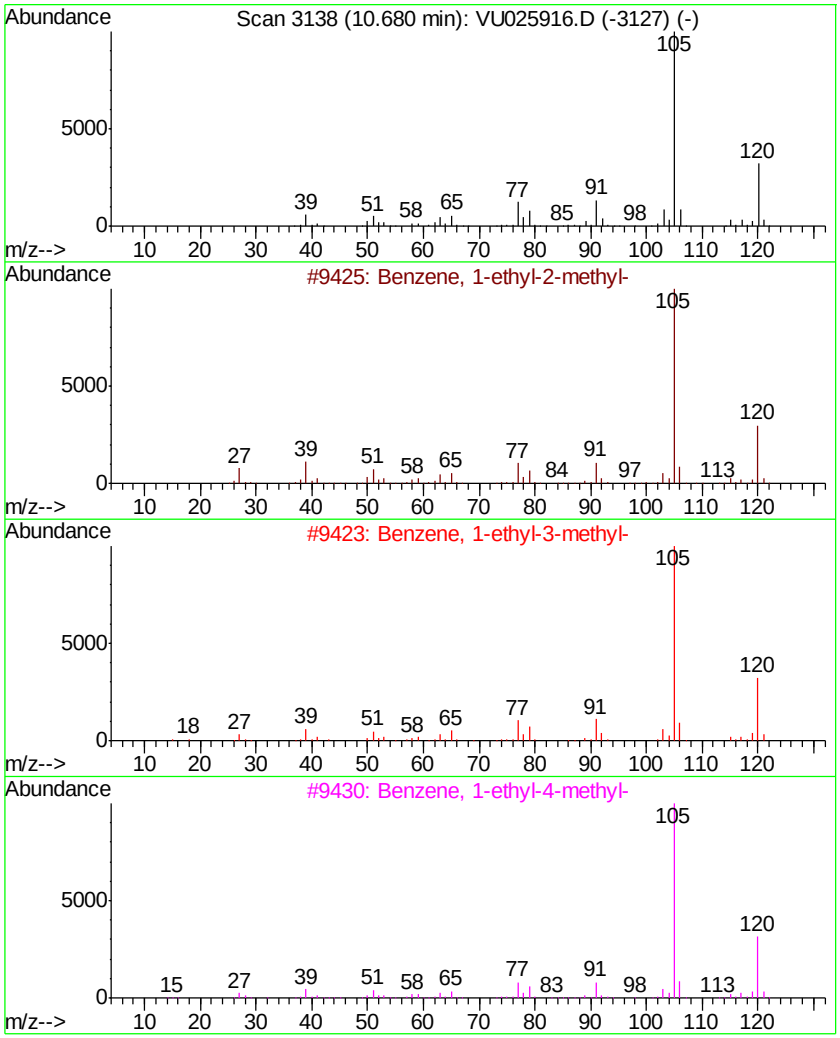
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

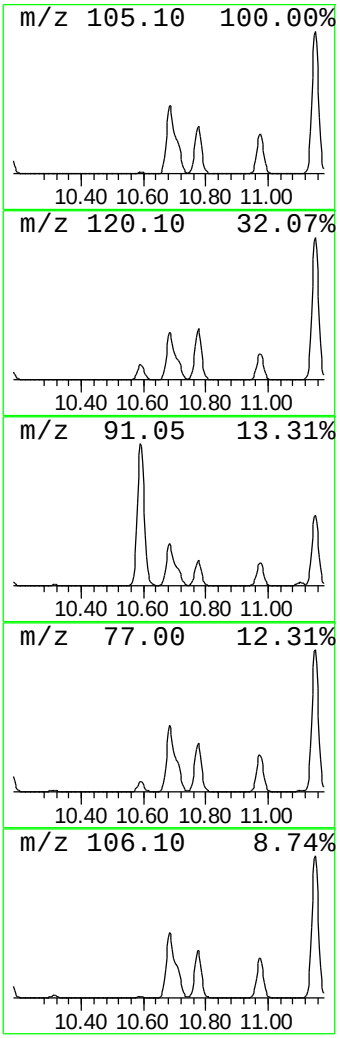
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.68 | 51.85 ug/l | 1297030 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

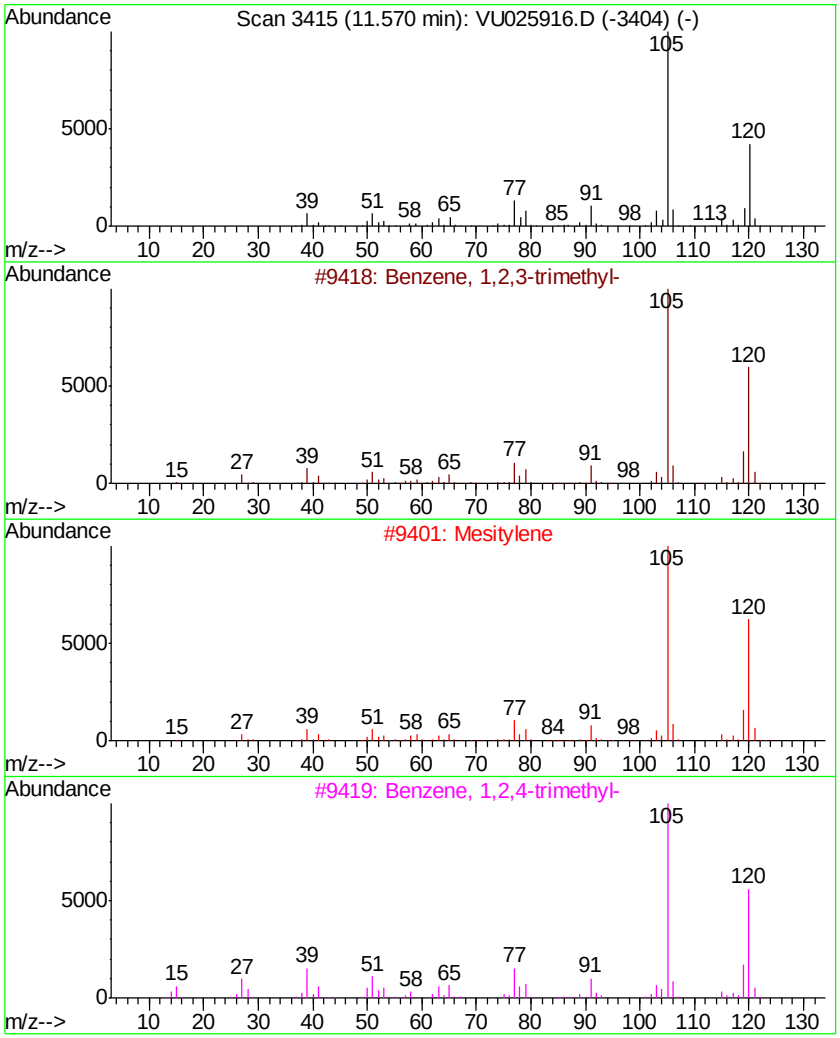
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

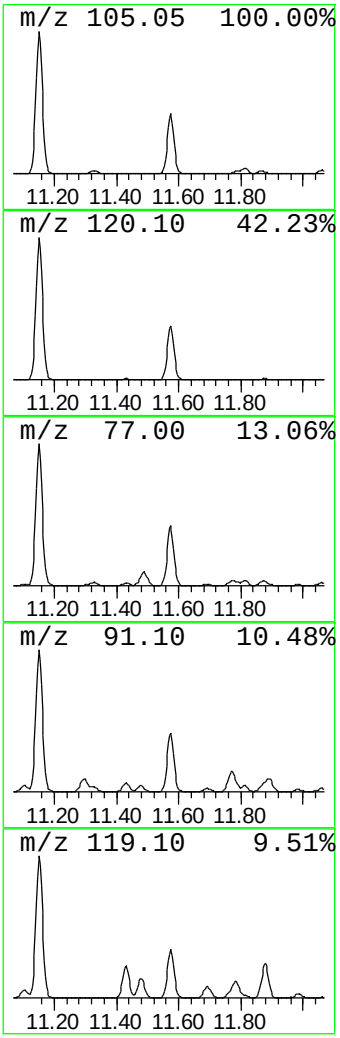
**********

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.57 | 34.76 ug/l | 869462 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |



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Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260

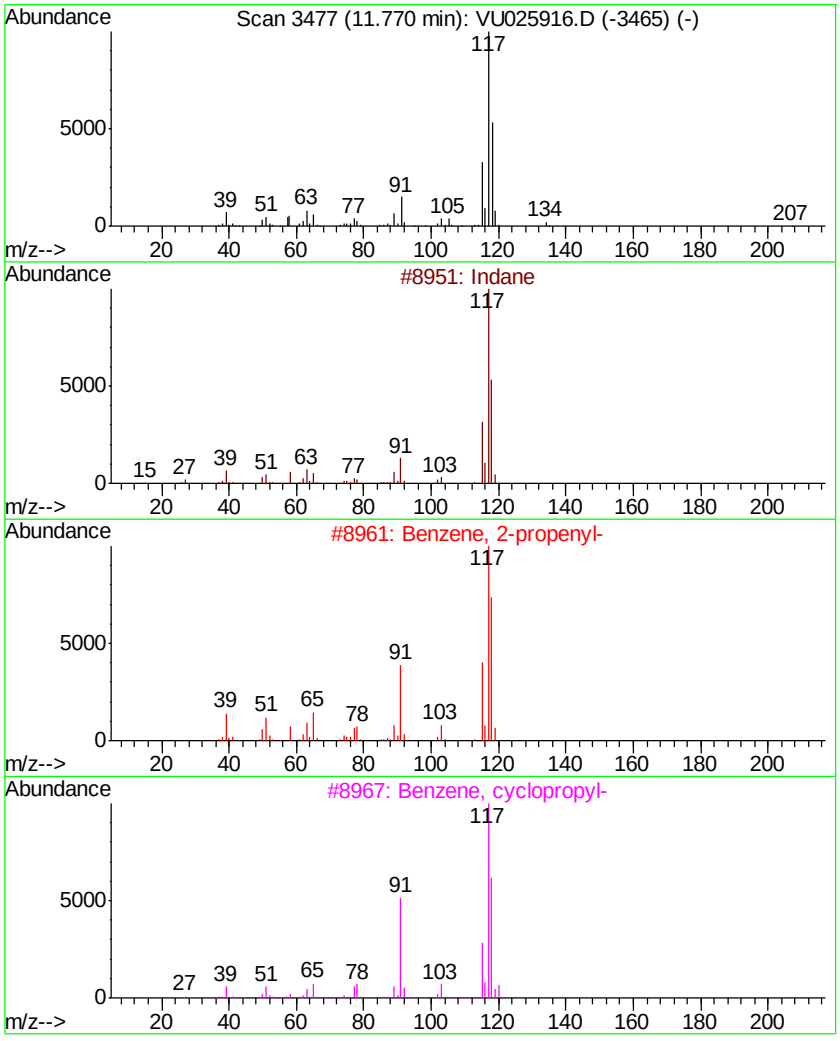
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

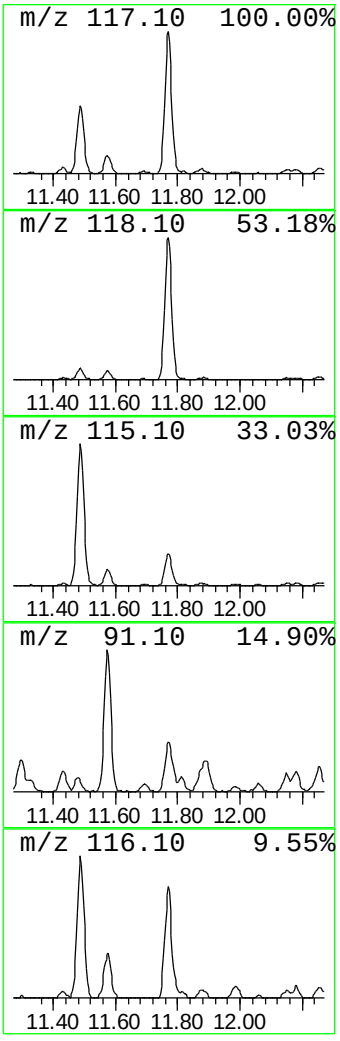
**********

Peak Number 10 Indane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 11.24 ug/l | 281255 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 95 |
| 2 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 83 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 83 |
| 4 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 64 |
| 5 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 60 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
Data File : VU025916.D
Acq On : 07 Aug 2018 03:51
Operator : MD/SY
Sample : J4344-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** FL-0562

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.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 | 1.40 | 44.1 | ug/l | 749252 | 1 | 4.99 | 849244 | 50.0 |
| Butane, 2-methyl- | 1.76 | 55.8 | ug/l | 947861 | 1 | 4.99 | 849244 | 50.0 |
| Pentane | 1.95 | 27.0 | ug/l | 458179 | 1 | 4.99 | 849244 | 50.0 |
| Cyclopentane | 2.80 | 21.2 | ug/l | 359332 | 1 | 4.99 | 849244 | 50.0 |
| Cyclopentane, met... | 4.10 | 32.1 | ug/l | 545619 | 1 | 4.99 | 849244 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 51.9 | ug/l | 1297030 | 4 | 11.49 | 1250820 | 50.0 |
| Benzene, 1,2,3-tr... | 11.57 | 34.8 | ug/l | 869462 | 4 | 11.49 | 1250820 | 50.0 |
| Indane | 11.77 | 11.2 | ug/l | 281255 | 4 | 11.49 | 1250820 | 50.0 |