# LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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_V\METHOD\SOMVTR060419WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.222 | 33 | 41 | 62 | rBV | 806911 | 1972899 | 100.00% | 25.410% |
| 2 | 1.576 | 146 | 151 | 165 | rVB | 67209 | 84733 | 4.29% | 1.091% |
| 3 | 2.119 | 311 | 320 | 335 | rVB | 133386 | 186207 | 9.44% | 2.398% |
| 4 | 2.206 | 340 | 347 | 369 | rVB2 | 21601 | 51961 | 2.63% | 0.669% |
| 5 | 2.309 | 371 | 379 | 386 | rBV | 57784 | 86984 | 4.41% | 1.120% |
| 6 | 2.647 | 479 | 484 | 494 | rVB2 | 12756 | 21037 | 1.07% | 0.271% |
| 7 | 2.778 | 501 | 525 | 527 | rBV | 37025 | 119061 | 6.03% | 1.533% |
| 8 | 3.753 | 810 | 828 | 830 | rBV5 | 10417 | 19984 | 1.01% | 0.257% |
| 9 | 3.978 | 881 | 898 | 931 | rBV2 | 44907 | 212328 | 10.76% | 2.735% |
| 10 | 4.396 | 1009 | 1028 | 1053 | rBV2 | 91393 | 230167 | 11.67% | 2.964% |
| 11 | 5.090 | 1226 | 1244 | 1271 | rBV4 | 226626 | 536046 | 27.17% | 6.904% |
| 12 | 5.659 | 1405 | 1421 | 1441 | rBV | 199993 | 407071 | 20.63% | 5.243% |
| 13 | 6.116 | 1541 | 1563 | 1579 | rBV | 125990 | 264549 | 13.41% | 3.407% |
| 14 | 6.634 | 1711 | 1724 | 1737 | rBV | 51919 | 103279 | 5.23% | 1.330% |
| 15 | 7.029 | 1834 | 1847 | 1868 | rBV | 50215 | 94289 | 4.78% | 1.214% |
| 16 | 7.357 | 1931 | 1949 | 1966 | rBV | 249482 | 447651 | 22.69% | 5.765% |
| 17 | 7.662 | 2035 | 2044 | 2062 | rVB2 | 26807 | 46432 | 2.35% | 0.598% |
| 18 | 8.138 | 2178 | 2192 | 2230 | rBV | 293170 | 590491 | 29.93% | 7.605% |
| 19 | 8.894 | 2414 | 2427 | 2444 | rBV | 292546 | 488901 | 24.78% | 6.297% |
| 20 | 9.273 | 2535 | 2545 | 2560 | rVB5 | 13698 | 27333 | 1.39% | 0.352% |
| 21 | 9.431 | 2585 | 2594 | 2603 | rBV2 | 18712 | 30900 | 1.57% | 0.398% |
| 22 | 10.260 | 2841 | 2852 | 2865 | rBV | 88928 | 141730 | 7.18% | 1.825% |
| 23 | 11.293 | 3160 | 3173 | 3193 | rVB | 263127 | 424628 | 21.52% | 5.469% |
| 24 | 11.572 | 3250 | 3260 | 3279 | rBV3 | 33846 | 68377 | 3.47% | 0.881% |
| 25 | 11.669 | 3279 | 3290 | 3307 | rVB | 223806 | 365078 | 18.50% | 4.702% |
| 26 | 13.678 | 3904 | 3915 | 3929 | rBV2 | 36645 | 61235 | 3.10% | 0.789% |
| 27 | 15.167 | 4370 | 4378 | 4389 | rBV2 | 13639 | 24517 | 1.24% | 0.316% |
| 28 | 16.234 | 4700 | 4710 | 4734 | rBV3 | 69231 | 145797 | 7.39% | 1.878% |
| 29 | 16.360 | 4738 | 4749 | 4769 | rVB | 342577 | 510703 | 25.89% | 6.578% |

Sum of corrected areas: 7764368

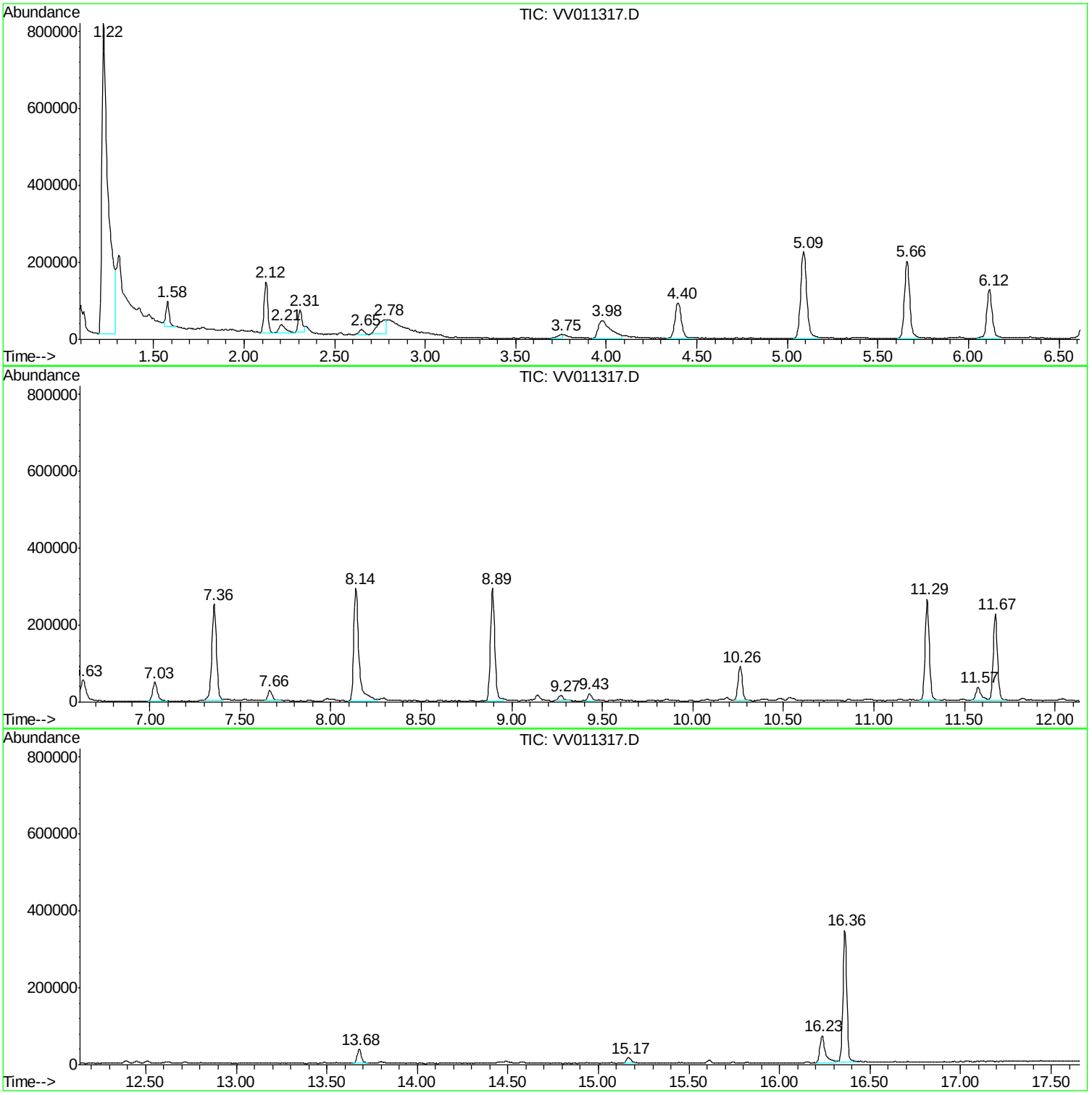
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

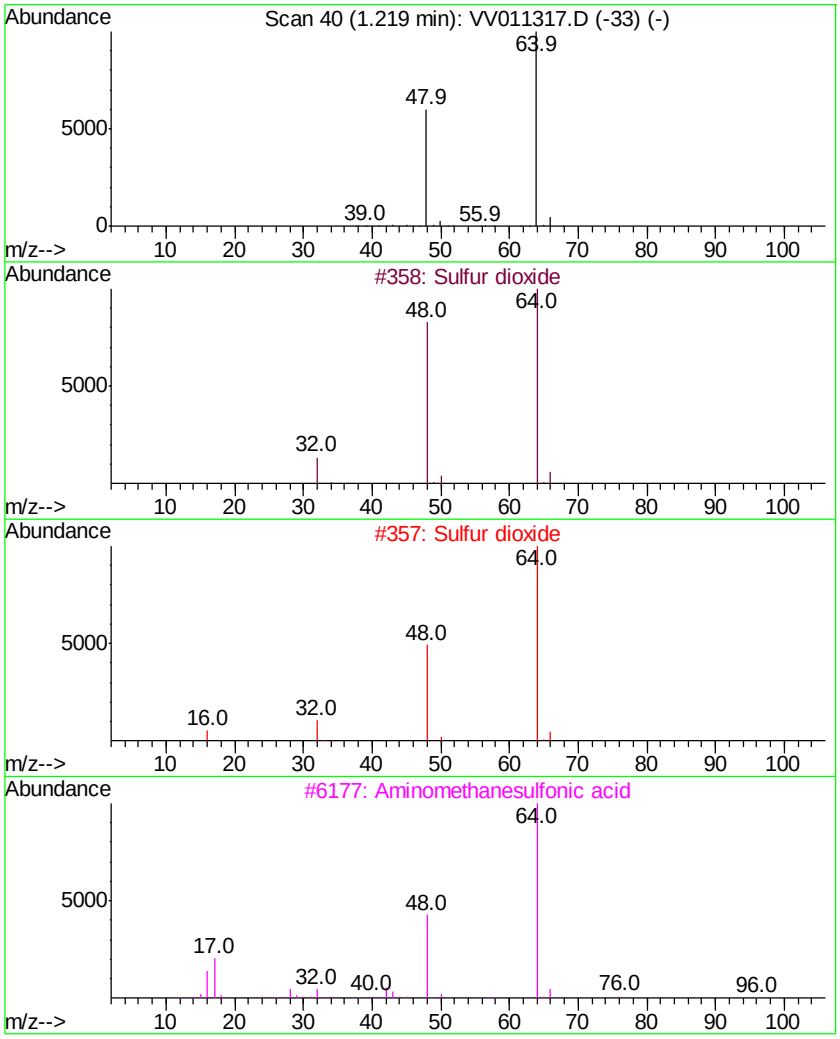
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

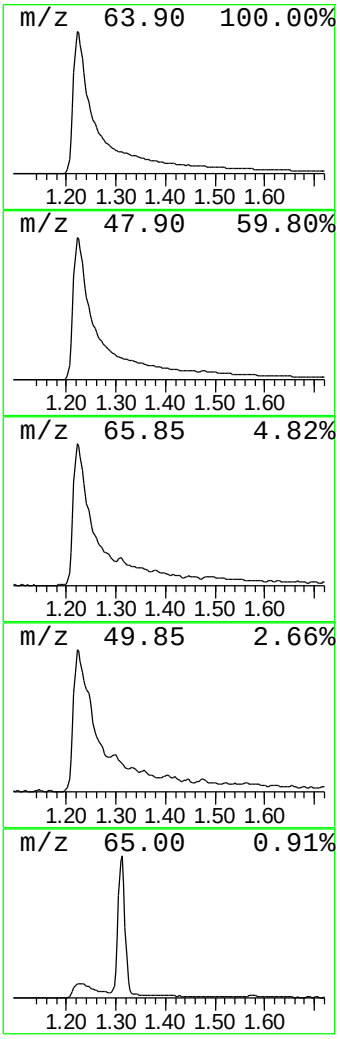
**********

Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.22 | 24.23 ug/L | 1972900 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 83 |
| 2 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 83 |
| 3 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 74 |
| 4 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 9 |
| 5 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 9 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

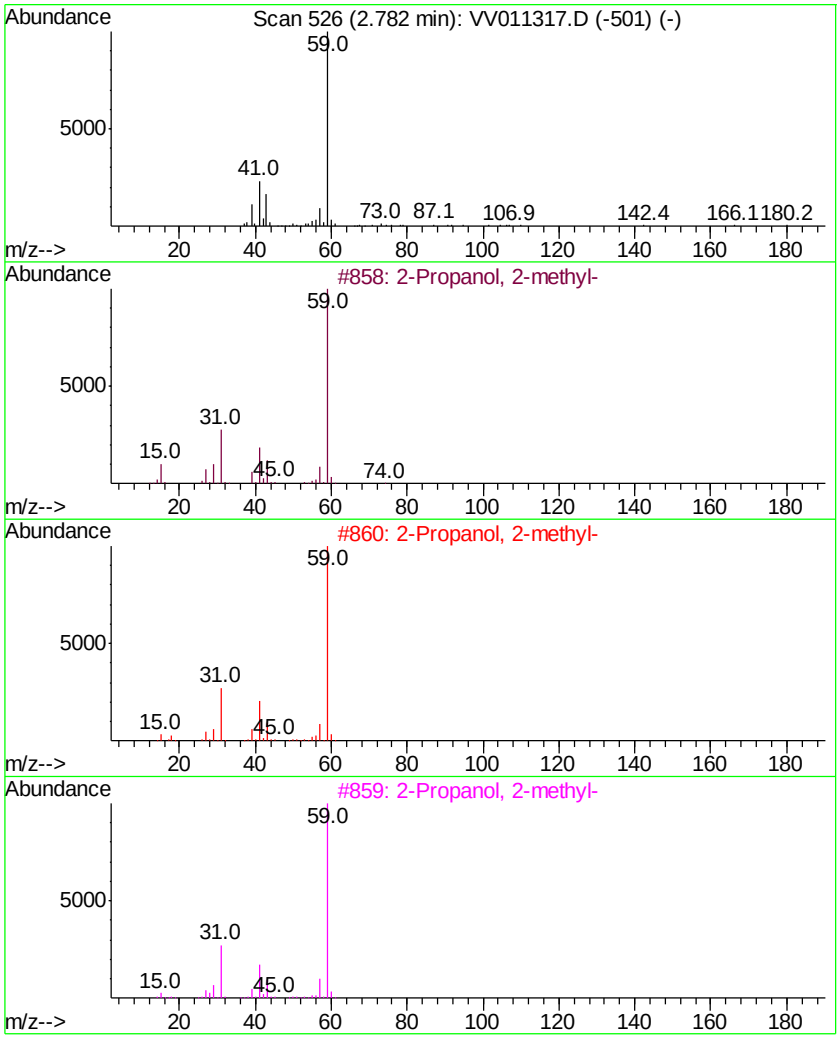
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

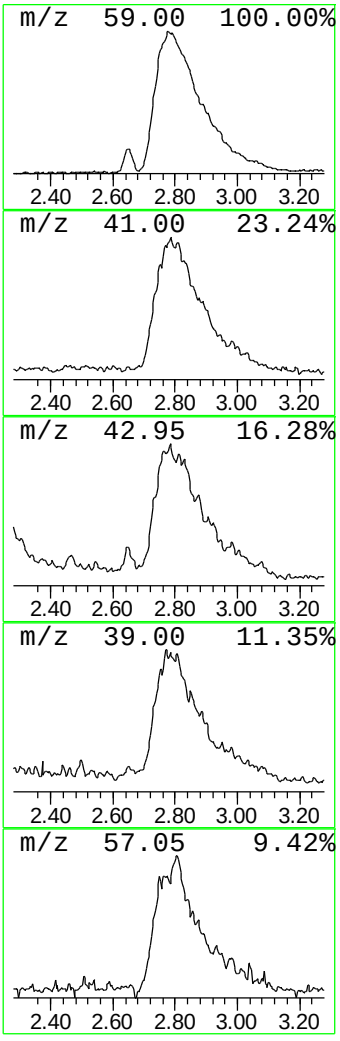
**********

Peak Number 2 2-Propanol, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.78 | 1.46 ug/L | 119061 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 2-methyl- | 74 | C4H10O | 000075-65-0 | 64 |
| 2 | 2-Propanol, 2-methyl- | 74 | C4H10O | 000075-65-0 | 56 |
| 3 | 2-Propanol, 2-methyl- | 74 | C4H10O | 000075-65-0 | 56 |
| 4 | 3-Pentanol | 88 | C5H12O | 000584-02-1 | 40 |
| 5 | Propanoic acid, 2-hydroxy-2-methyl- | 104 | C4H8O3 | 000594-61-6 | 38 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

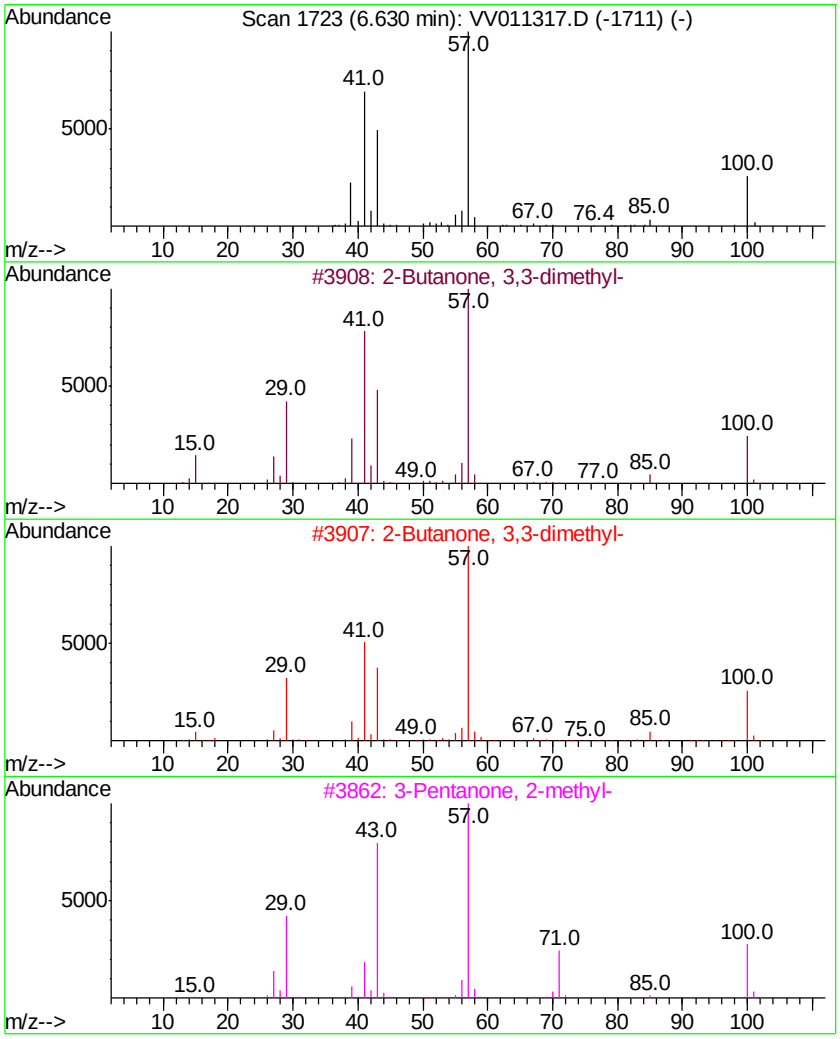
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

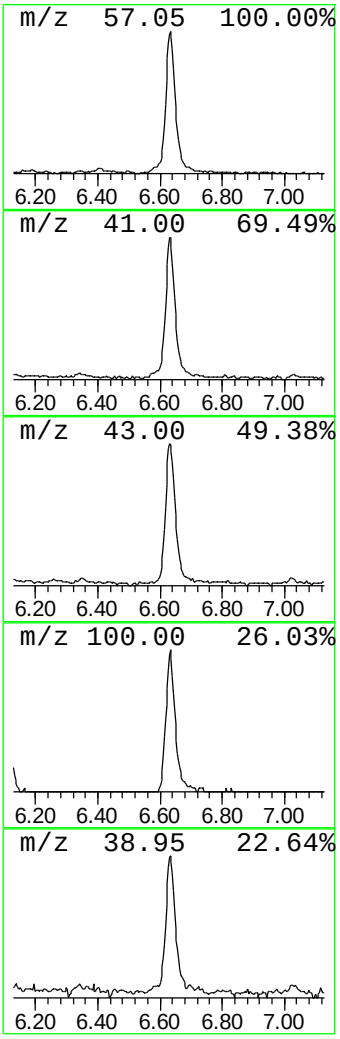
**********

Peak Number 3 2-Butanone, 3,3-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.63 | 1.27 ug/L | 103279 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Butanone, 3,3-dimethyl- | 100 | C6H12O | 000075-97-8 | 91 |
| 2 | 2-Butanone, 3,3-dimethyl- | 100 | C6H12O | 000075-97-8 | 80 |
| 3 | 3-Pentanone, 2-methyl- | 100 | C6H12O | 000565-69-5 | 72 |
| 4 | 3-Pentanone, 2-methyl- | 100 | C6H12O | 000565-69-5 | 72 |
| 5 | 3-Hexanone | 100 | C6H12O | 000589-38-8 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

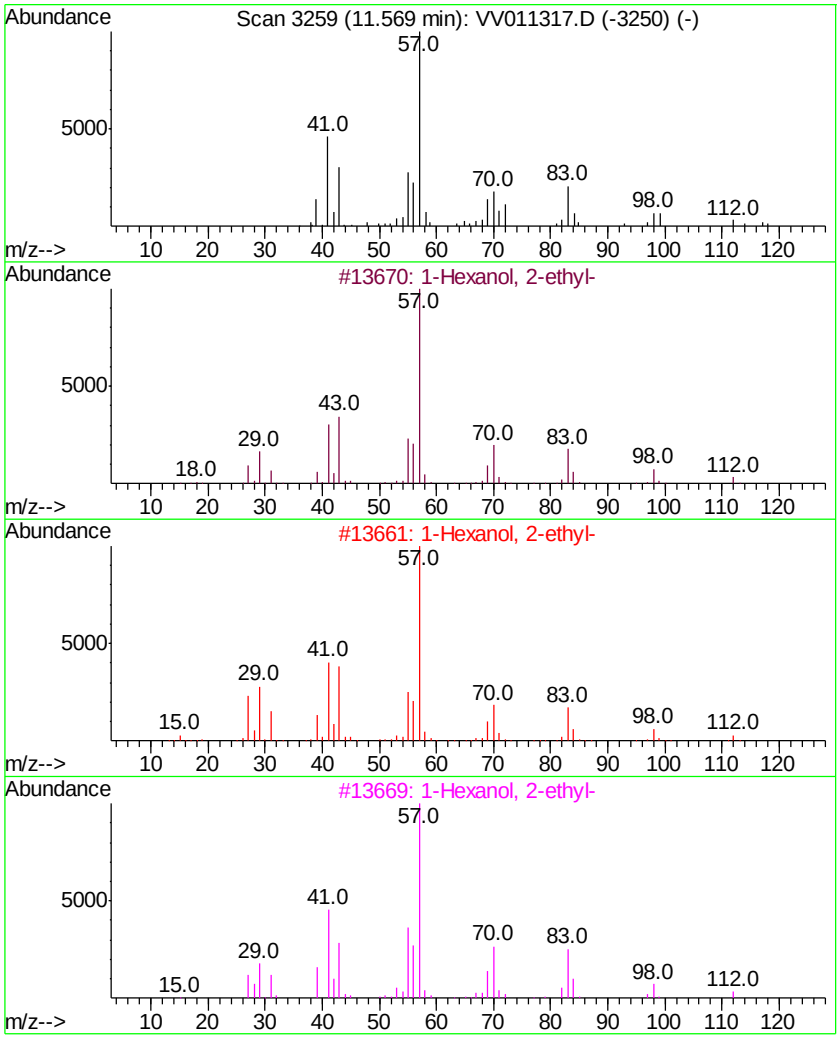
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

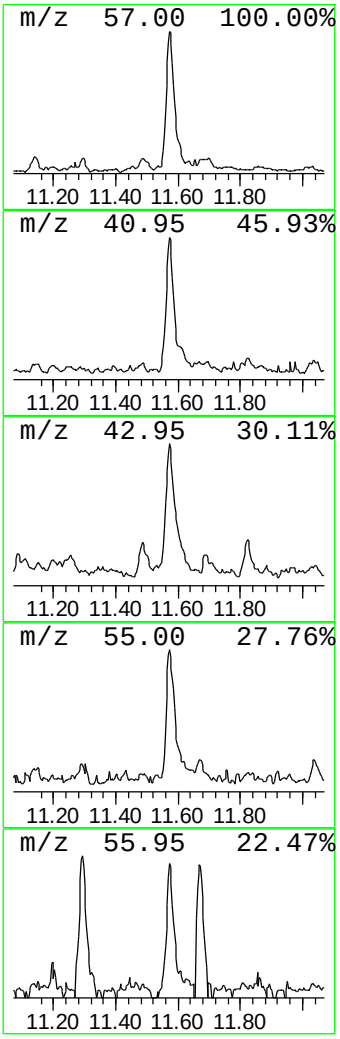
**********

Peak Number 5 1-Hexanol, 2-ethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.57 | 0.81 ug/L | 68377 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 72 |
| 2 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 72 |
| 3 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 59 |
| 4 | 1-Pentanol, 2-ethyl-4-methyl- | 130 | C8H18O | 000106-67-2 | 50 |
| 5 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 47 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
Acq On : 08 Jun 2019 06:15
Operator : SY/MD
Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

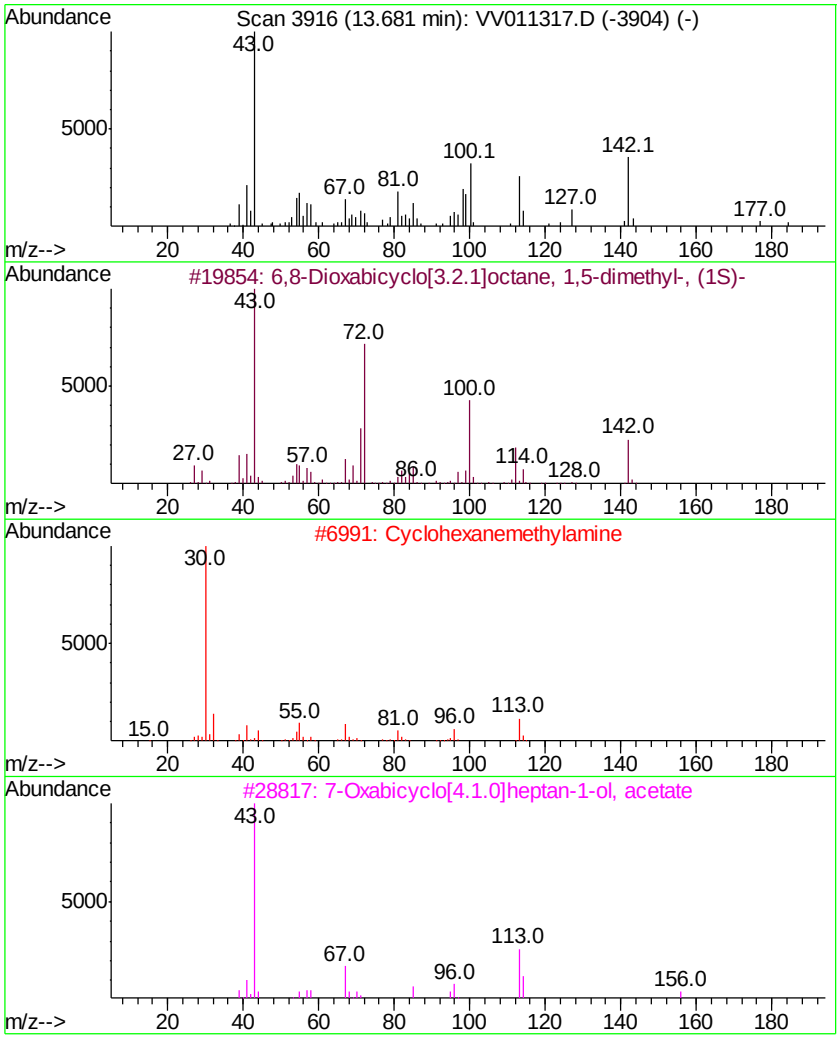
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

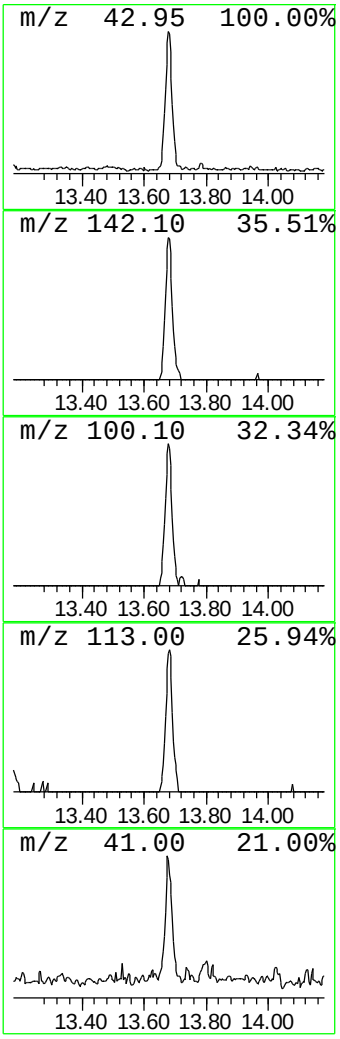
**********

Peak Number 6 unknown-01 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.68 | 0.72 ug/L | 61235 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6,8-Dioxabicyclo[3.2.1]octane, 1... | 142 | C8H14O2 | 028401-39-0 | 27 |
| 2 | Cyclohexanemethylamine | 113 | C7H15N | 003218-02-8 | 18 |
| 3 | 7-Oxabicyclo[4.1.0]heptan-1-ol, ... | 156 | C8H12O3 | 014161-46-7 | 14 |
| 4 | 1,2,4-Oxadiazole-3-carboximidami... | 142 | C4H6N4O2 | 162969-65-5 | 14 |
| 5 | 3-n-Propyl-5-methylhexan-2-one | 156 | C10H20O | 1000202-22-8 | 14 |



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Acq On : 08 Jun 2019 06:15
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Sample : K3228-19
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

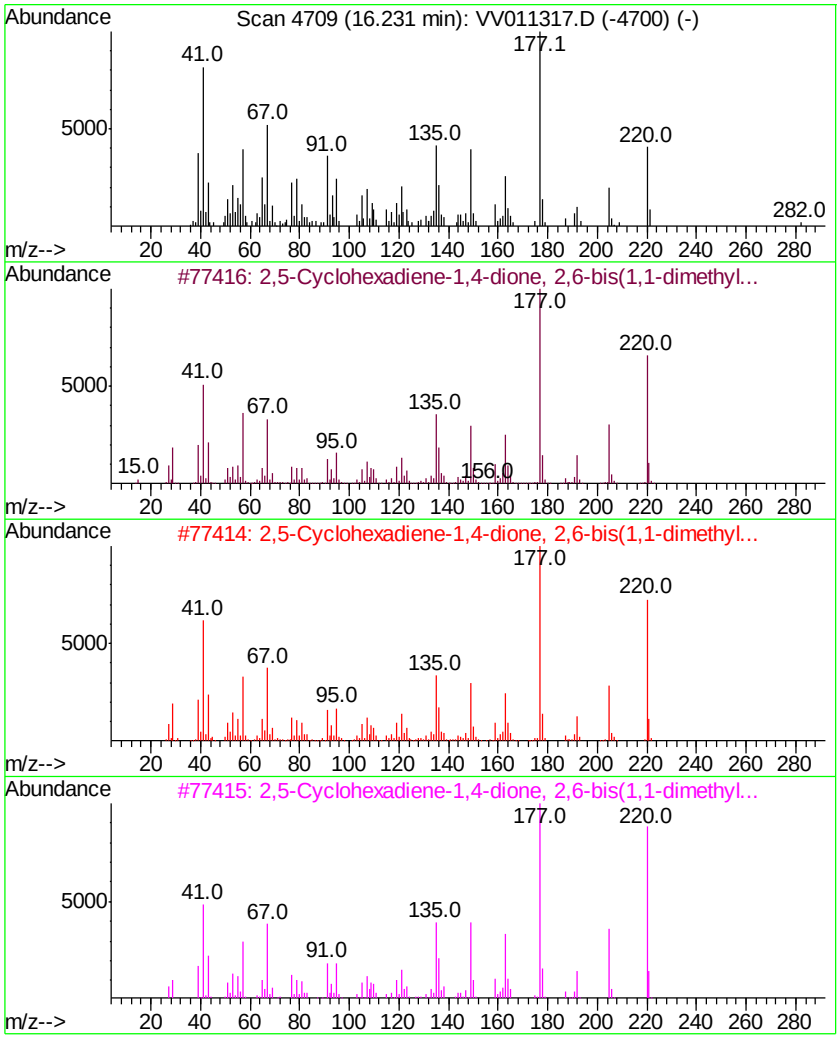
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

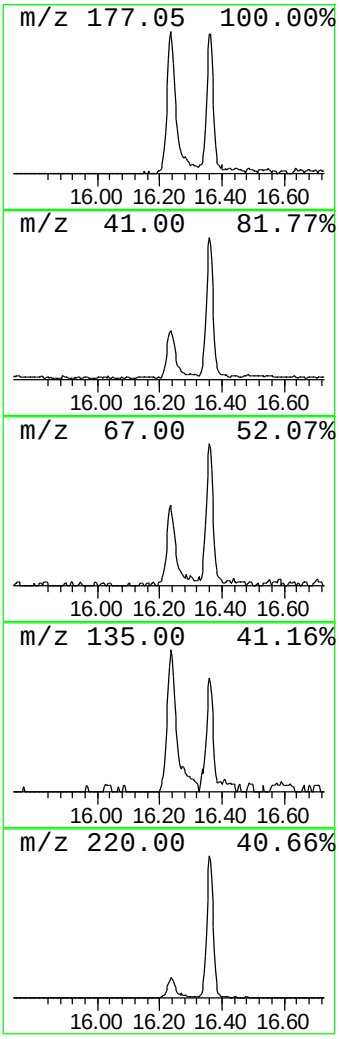
**********

Peak Number 7 2,5-Cyclohexadiene-1,4-dion... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.23 | 1.72 ug/L | 145797 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5-Cyclohexadiene-1,4-dione, 2,... | 220 | C14H20O2 | 000719-22-2 | 99 |
| 2 | 2,5-Cyclohexadiene-1,4-dione, 2,... | 220 | C14H20O2 | 000719-22-2 | 99 |
| 3 | 2,5-Cyclohexadiene-1,4-dione, 2,... | 220 | C14H20O2 | 000719-22-2 | 97 |
| 4 | Octamethyl-1,4-cyclohexadiene | 192 | C14H24 | 172684-93-4 | 38 |
| 5 | 2-Butanone, 3-(4-tert-butylpheno... | 220 | C14H20O2 | 160875-28-5 | 35 |



Library Search Compound Report

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**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

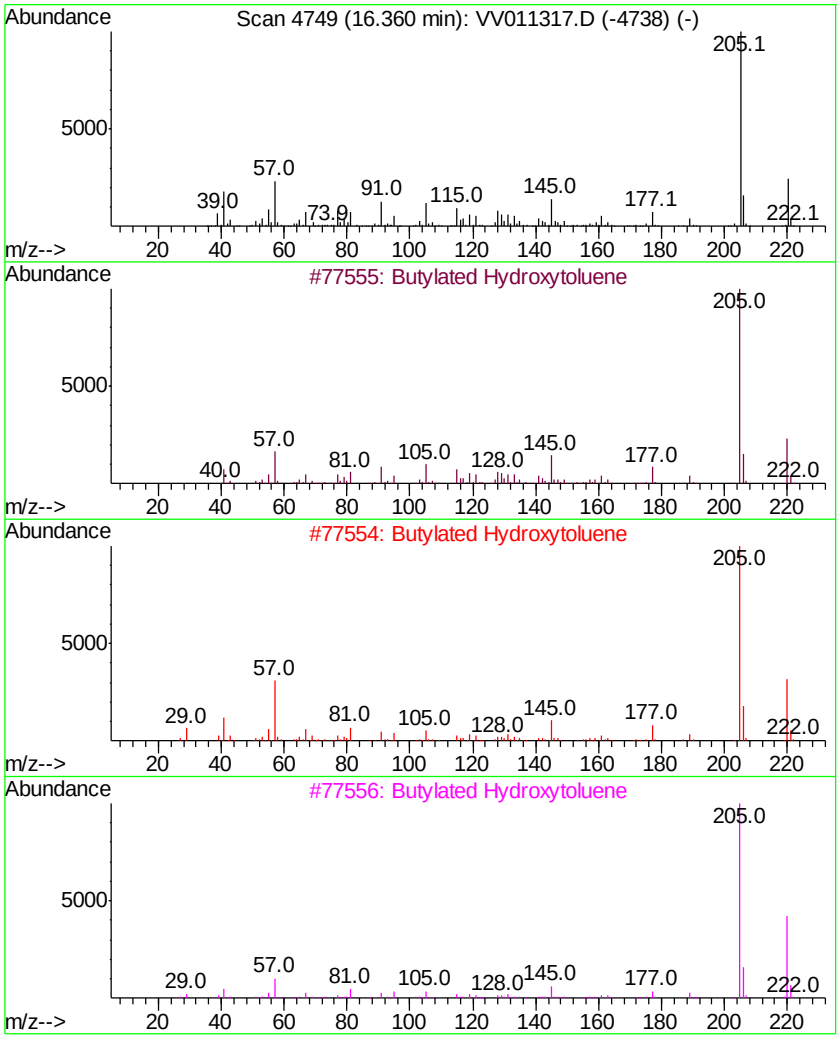
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

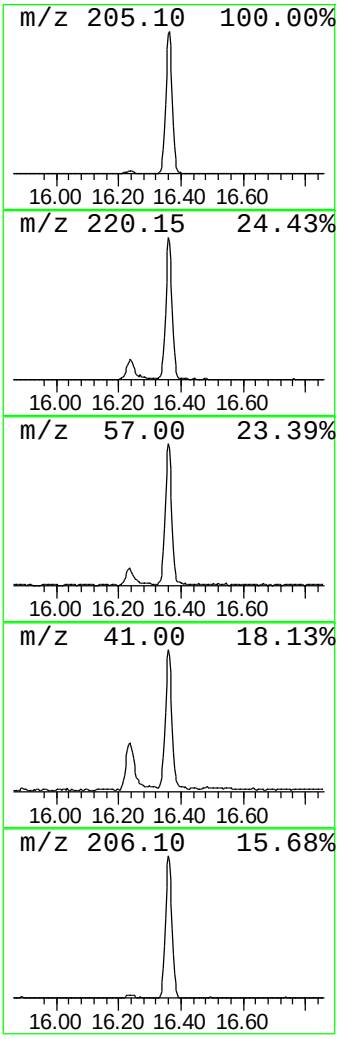
**********

Peak Number 8 Butylated Hydroxytoluene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.36 | 6.01 ug/L | 510703 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 98 |
| 2 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 97 |
| 3 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 94 |
| 4 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 93 |
| 5 | Phenol, 2,4,6-tris(1-methylethyl)- | 220 | C15H24O | 002934-07-8 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Data File : VV011317.D
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Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** F9P63

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Sulfur dioxide | 1.22 | 24.2 | ug/L | 1972900 | 1 | 5.66 | 407071 | 5.0 |
| 2-Propanol, 2-met... | 2.78 | 1.5 | ug/L | 119061 | 1 | 5.66 | 407071 | 5.0 |
| 2-Butanone, 3,3-d... | 6.63 | 1.3 | ug/L | 103279 | 1 | 5.66 | 407071 | 5.0 |
| 1-Hexanol, 2-ethyl- | 11.57 | 0.8 | ug/L | 68377 | 3 | 11.29 | 424628 | 5.0 |
| unknown-01 | 13.68 | 0.7 | ug/L | 61235 | 3 | 11.29 | 424628 | 5.0 |
| 2,5-Cyclohexadien... | 16.23 | 1.7 | ug/L | 145797 | 3 | 11.29 | 424628 | 5.0 |
| Butylated Hydroxy... | 16.36 | 6.0 | ug/L | 510703 | 3 | 11.29 | 424628 | 5.0 |