LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

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_N\METHODS\82N070820W.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 | 7.551 | 1778 | 1797 | 1807 | rBV | 132508 | 333791 | 1.58% | 0.374% |
| 2 | 7.625 | 1808 | 1820 | 1842 | rVB | 232410 | 548050 | 2.59% | 0.614% |
| 3 | 7.989 | 1914 | 1933 | 1960 | rBV2 | 155311 | 371665 | 1.76% | 0.416% |
| 4 | 8.551 | 2092 | 2108 | 2126 | rBV | 366510 | 771313 | 3.64% | 0.864% |
| 5 | 10.059 | 2563 | 2577 | 2590 | rBV | 603221 | 1087130 | 5.14% | 1.218% |
| 6 | 11.381 | 2975 | 2988 | 3009 | rBV | 554256 | 959773 | 4.53% | 1.075% |
| 7 | 11.590 | 3039 | 3053 | 3077 | rVB | 195607 | 360688 | 1.70% | 0.404% |
| 8 | 11.921 | 3144 | 3156 | 3177 | rVB2 | 133588 | 257392 | 1.22% | 0.288% |
| 9 | 12.226 | 3239 | 3251 | 3268 | rBV | 301488 | 516829 | 2.44% | 0.579% |
| 10 | 12.377 | 3280 | 3298 | 3312 | rBV | 440561 | 751097 | 3.55% | 0.842% |
| 11 | 12.631 | 3365 | 3377 | 3384 | rBV | 236527 | 406182 | 1.92% | 0.455% |
| 12 | 12.712 | 3393 | 3402 | 3404 | rBV | 247568 | 334495 | 1.58% | 0.375% |
| 13 | 13.014 | 3481 | 3496 | 3510 | rBV | 474975 | 851626 | 4.02% | 0.954% |
| 14 | 13.236 | 3549 | 3565 | 3580 | rBV | 12220202 | 19311133 | 91.23% | 21.636% |
| 15 | 13.320 | 3580 | 3591 | 3608 | rVB2 | 619816 | 1215654 | 5.74% | 1.362% |
| 16 | 13.519 | 3634 | 3653 | 3663 | rBV | 1395509 | 2355357 | 11.13% | 2.639% |
| 17 | 13.699 | 3697 | 3709 | 3722 | rVB | 878110 | 1435553 | 6.78% | 1.608% |
| 18 | 13.969 | 3784 | 3793 | 3804 | rBV | 177729 | 271436 | 1.28% | 0.304% |
| 19 | 14.040 | 3804 | 3815 | 3827 | rVB | 390620 | 588689 | 2.78% | 0.660% |
| 20 | 14.156 | 3840 | 3851 | 3866 | rBV3 | 171562 | 372360 | 1.76% | 0.417% |
| 21 | 14.249 | 3866 | 3880 | 3895 | rVV2 | 303616 | 728112 | 3.44% | 0.816% |
| 22 | 14.451 | 3933 | 3943 | 3953 | rBV | 241687 | 394763 | 1.86% | 0.442% |
| 23 | 14.567 | 3966 | 3979 | 3990 | rBV2 | 410604 | 765167 | 3.61% | 0.857% |
| 24 | 14.631 | 3990 | 3999 | 4012 | rVB | 235614 | 394912 | 1.87% | 0.442% |
| 25 | 14.715 | 4013 | 4025 | 4040 | rVB | 321869 | 538165 | 2.54% | 0.603% |
| 26 | 15.033 | 4109 | 4124 | 4130 | rBV5 | 109140 | 242854 | 1.15% | 0.272% |
| 27 | 15.104 | 4133 | 4146 | 4163 | rVB | 9412082 | 17372094 | 82.07% | 19.463% |
| 28 | 15.197 | 4163 | 4175 | 4190 | rBV | 827023 | 1543281 | 7.29% | 1.729% |
| 29 | 16.062 | 4429 | 4444 | 4449 | rBV2 | 206209 | 428807 | 2.03% | 0.480% |
| 30 | 16.123 | 4449 | 4463 | 4482 | rVB | 10008898 | 21168300 | 100.00% | 23.717% |
| 31 | 16.239 | 4489 | 4499 | 4508 | rBV | 181879 | 385647 | 1.82% | 0.432% |
| 32 | 16.313 | 4508 | 4522 | 4544 | rVB | 5587812 | 12193028 | 57.60% | 13.661% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

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_N\METHODS\82N070820W.M
Title : SW846 8260

Sum of corrected areas: 89255343

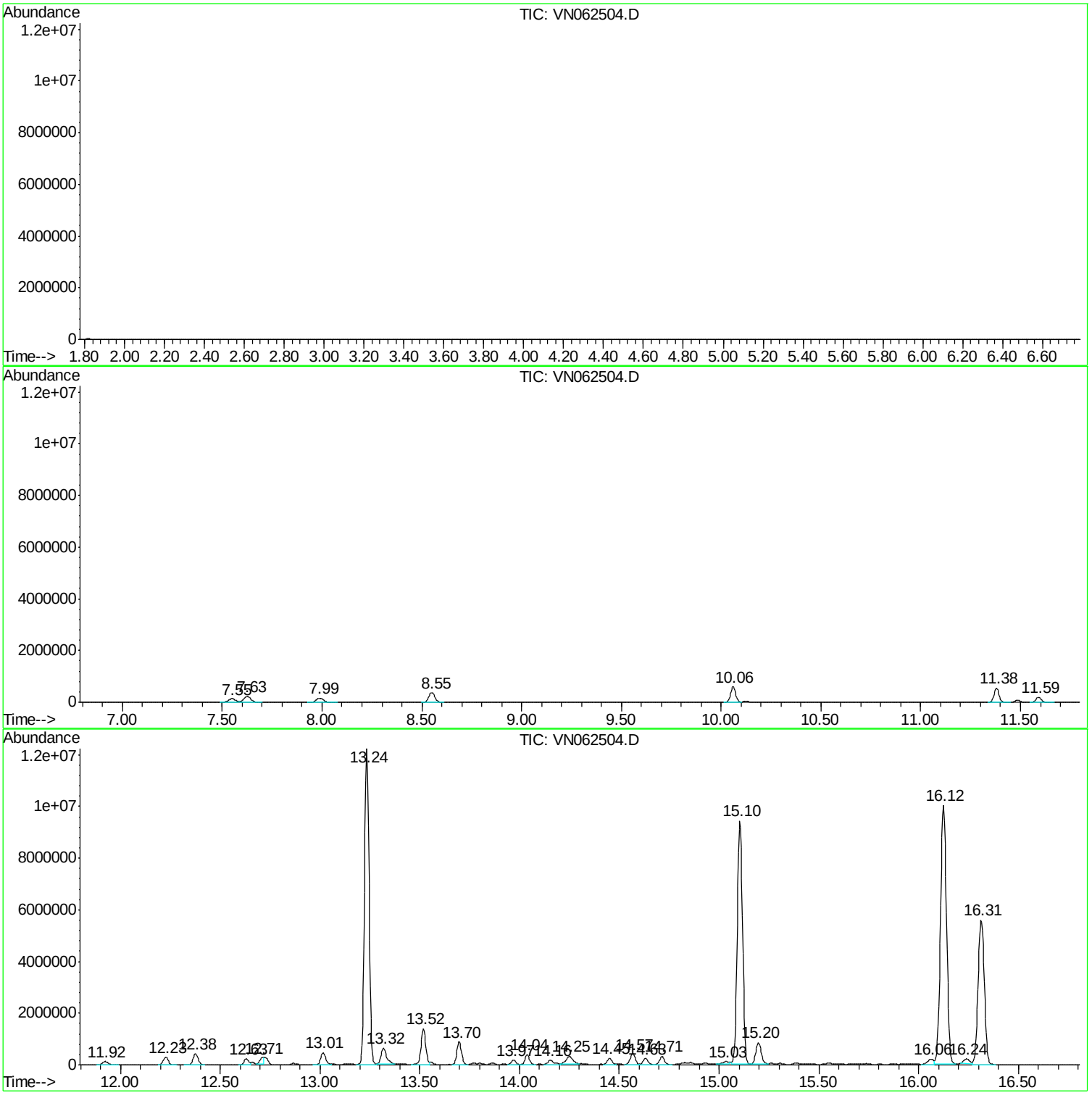
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.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 N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

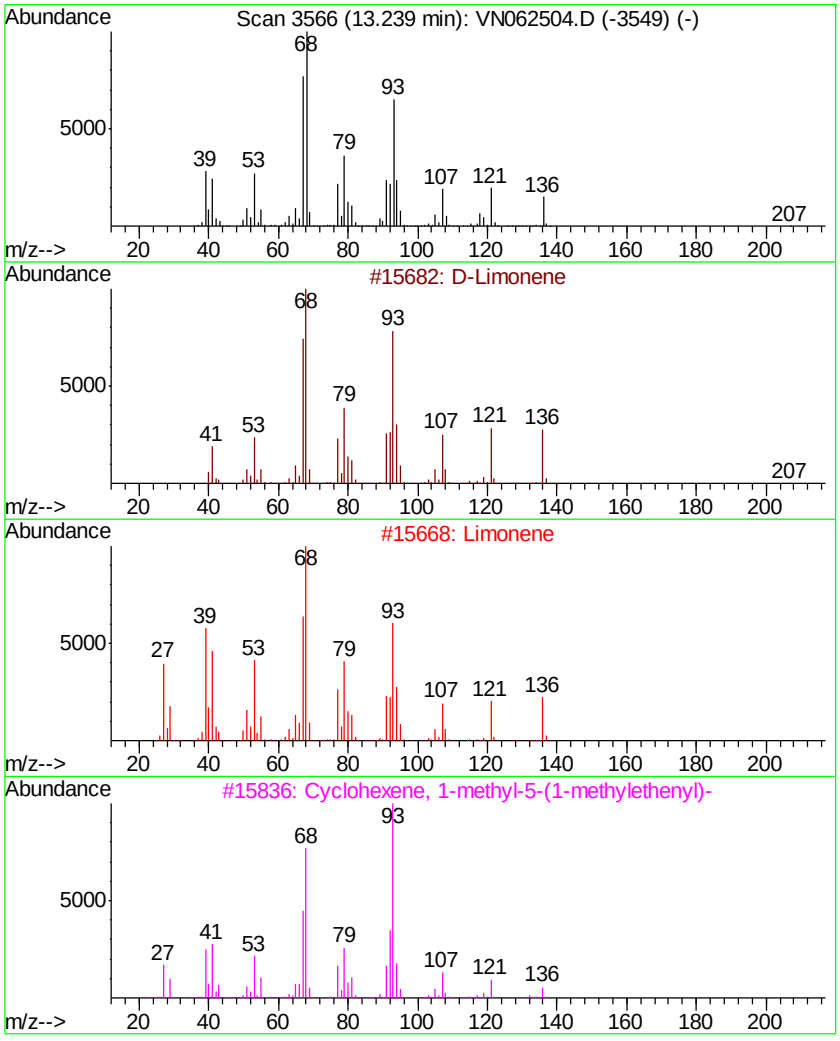
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

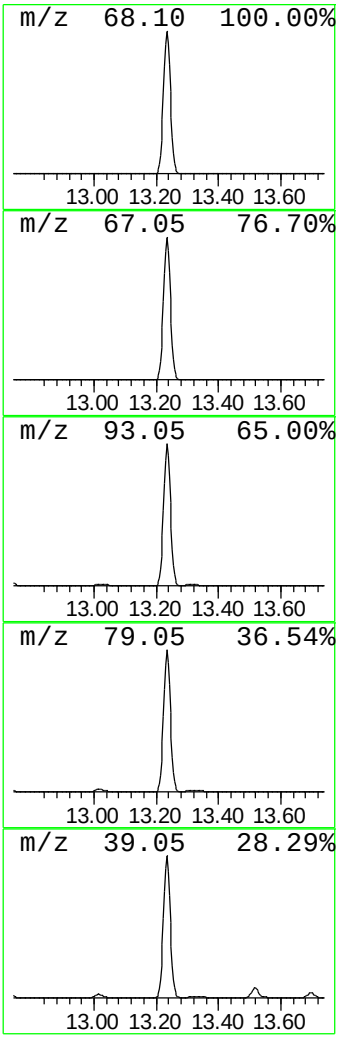
**********

Peak Number 1 D-Limonene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.24 | 794.27 ug/l | 19311100 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | D-Limonene | 136 | C10H16 | 005989-27-5 | 97 |
| 2 | Limonene | 136 | C10H16 | 000138-86-3 | 91 |
| 3 | Cyclohexene, 1-methyl-5-(1-methy... | 136 | C10H16 | 013898-73-2 | 90 |
| 4 | Cyclohexene, 4-ethenyl-1,4-dimet... | 136 | C10H16 | 001743-61-9 | 70 |
| 5 | 1,5-Cyclooctadiene, 1,5-dimethyl- | 136 | C10H16 | 003760-14-3 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

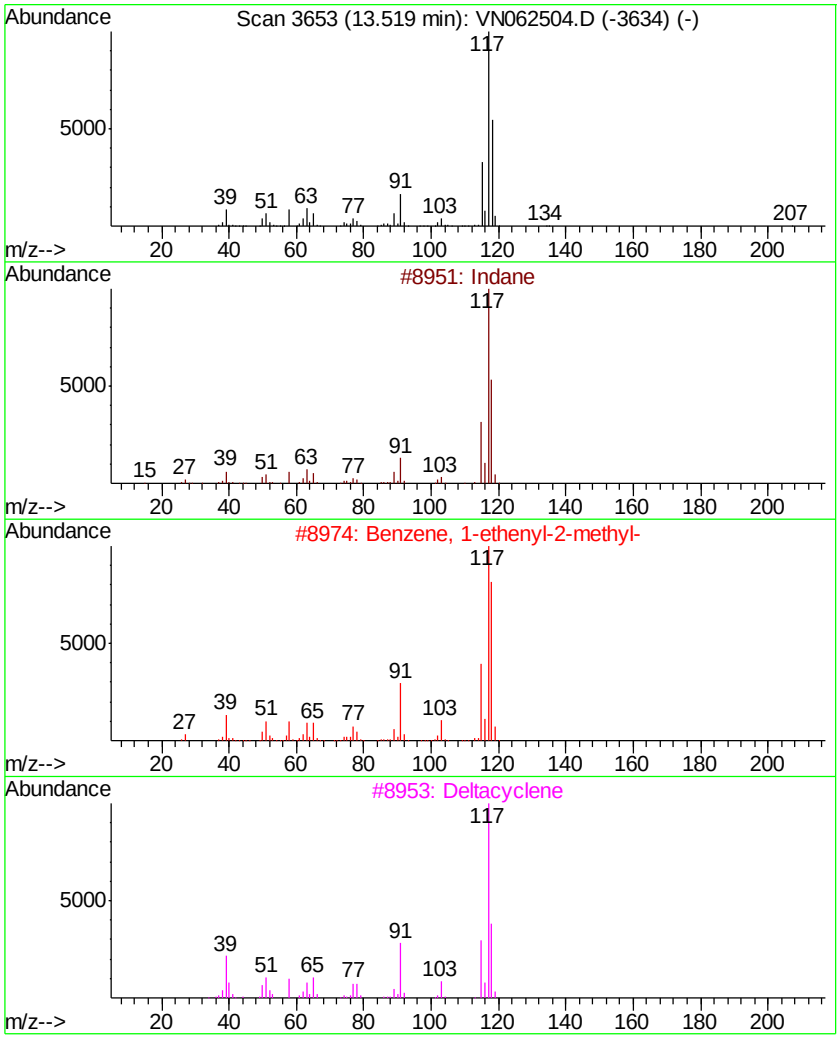
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

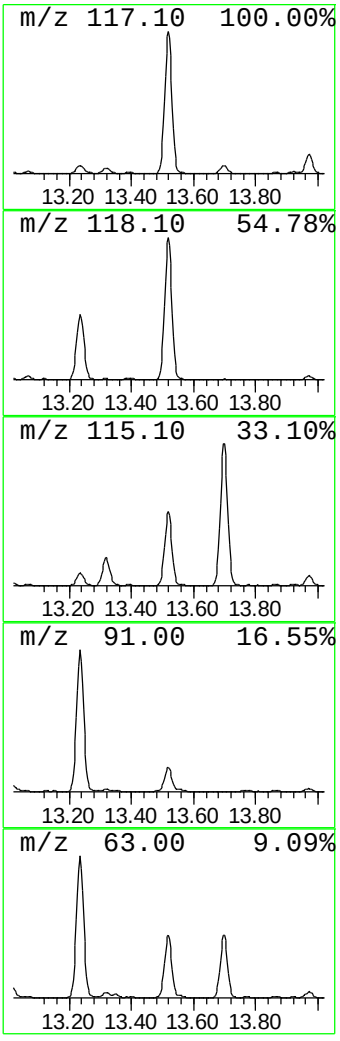
**********

Peak Number 2 Indane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.52 | 96.88 ug/l | 2355360 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 94 |
| 2 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 78 |
| 3 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 68 |
| 4 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 64 |
| 5 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 64 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

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

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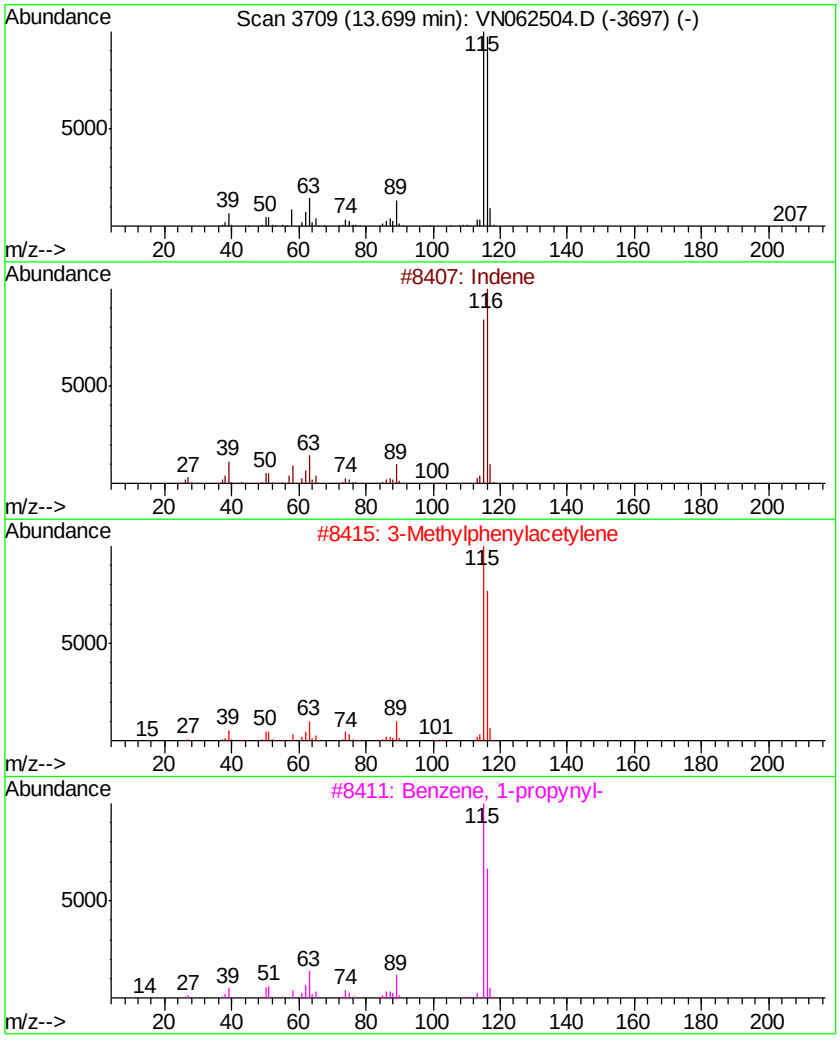
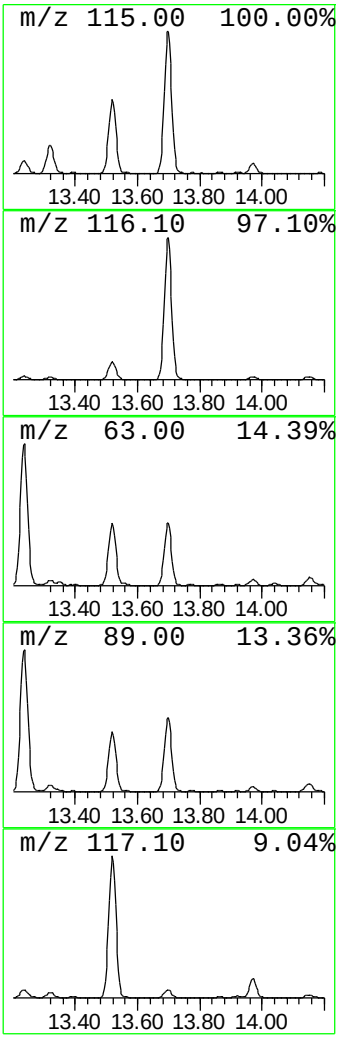
Peak Number 3 Indene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.70 | 59.04 ug/l | 1435550 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 2 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 94 |
| 3 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 91 |
| 4 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 91 |
| 5 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

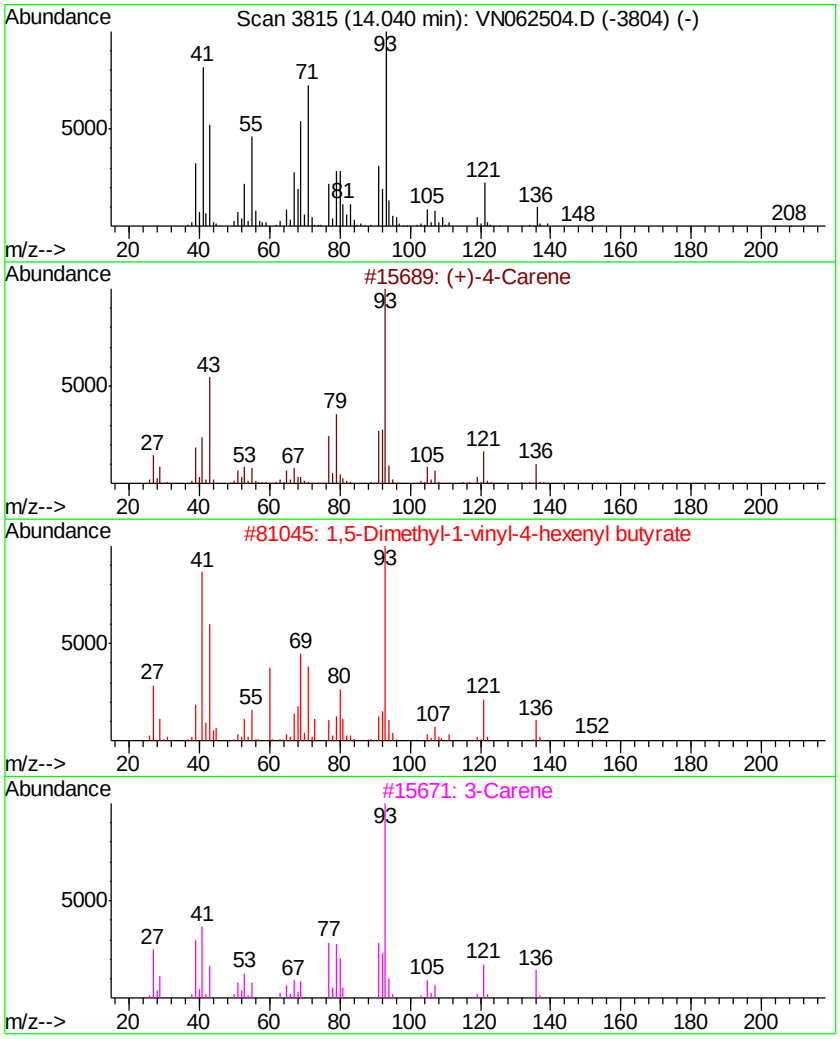
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

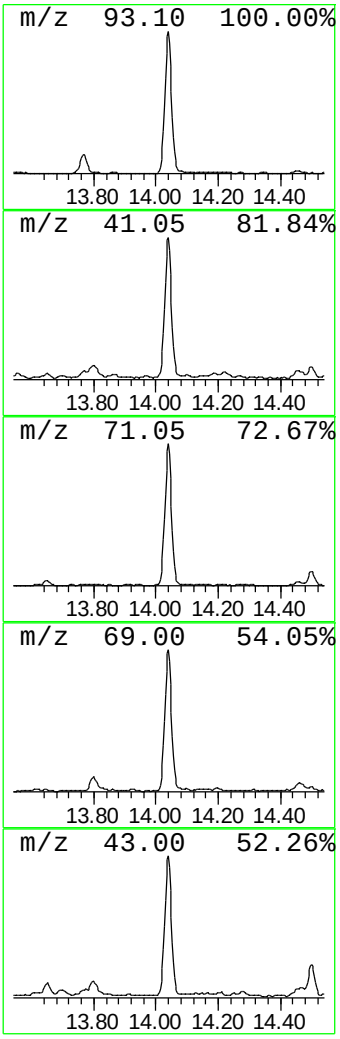
**********

Peak Number 4 (+)-4-Carene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.04 | 24.21 ug/l | 588689 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (+)-4-Carene | 136 | C10H16 | 029050-33-7 | 90 |
| 2 | 1,5-Dimethyl-1-vinyl-4-hexenyl b... | 224 | C14H24O2 | 000078-36-4 | 72 |
| 3 | 3-Carene | 136 | C10H16 | 013466-78-9 | 64 |
| 4 | .beta.-Myrcene | 136 | C10H16 | 000123-35-3 | 64 |
| 5 | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16 | 000508-32-7 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

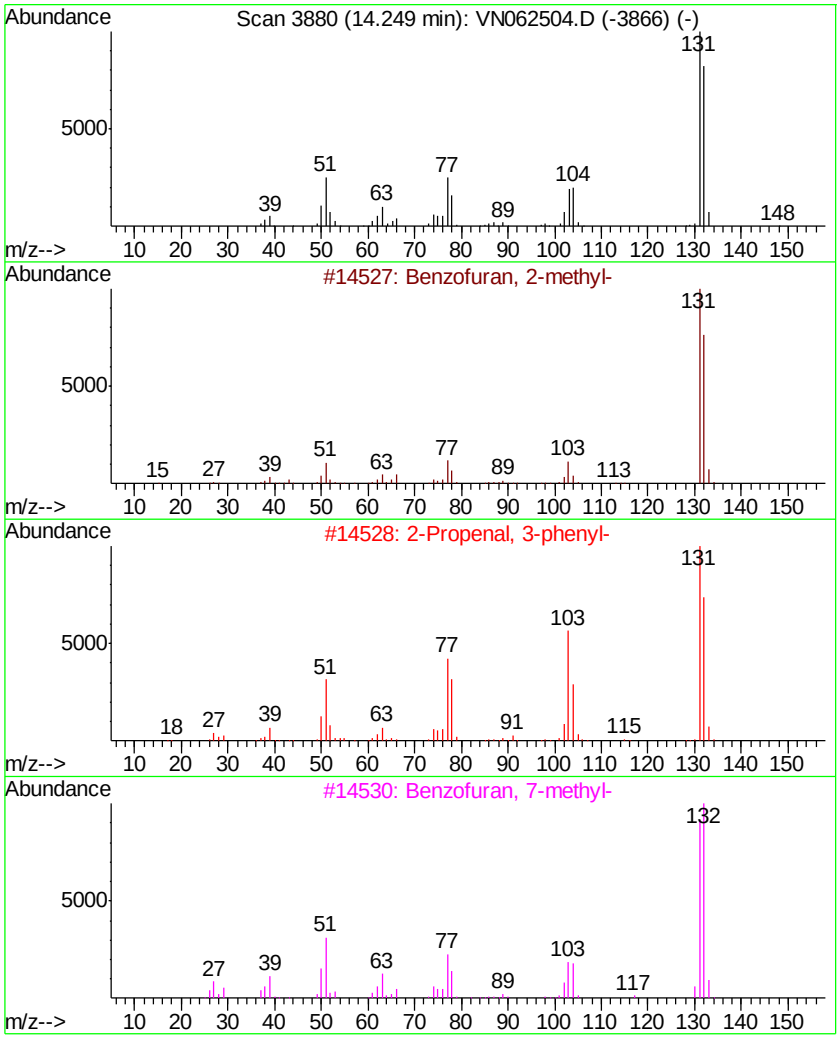
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

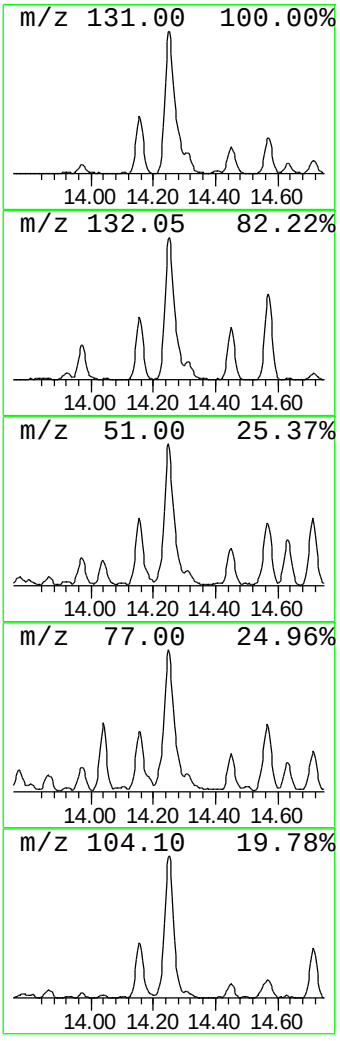
**********

Peak Number 5 Benzofuran, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.25 | 29.95 ug/l | 728112 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 95 |
| 2 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 94 |
| 3 | Benzofuran, 7-methyl- | 132 | C9H8O | 017059-52-8 | 94 |
| 4 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 90 |
| 5 | Benzene, (2-propynyloxy)- | 132 | C9H8O | 013610-02-1 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

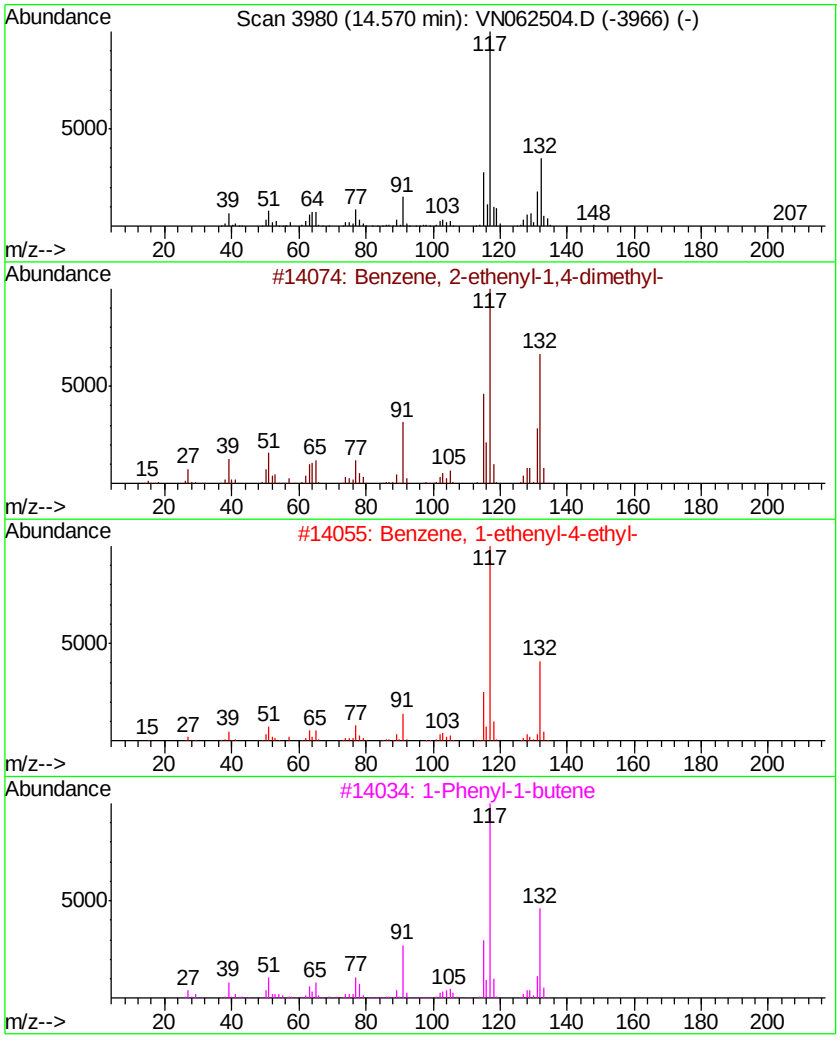
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

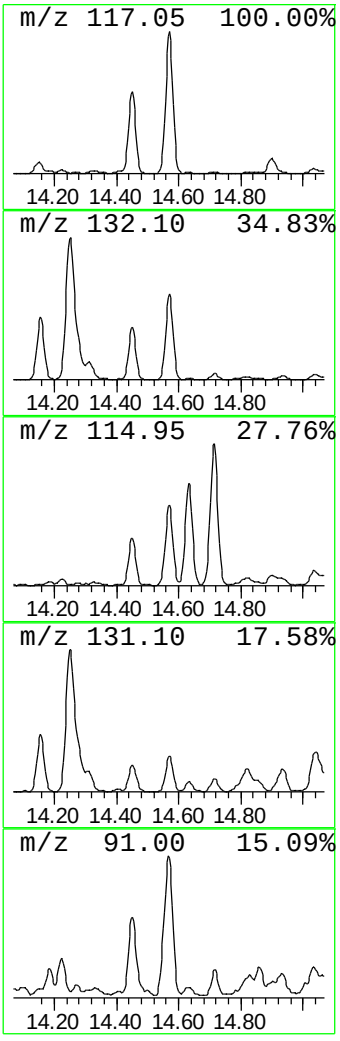
**********

Peak Number 6 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.57 | 31.47 ug/l | 765167 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 96 |
| 2 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 94 |
| 3 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 93 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 90 |
| 5 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

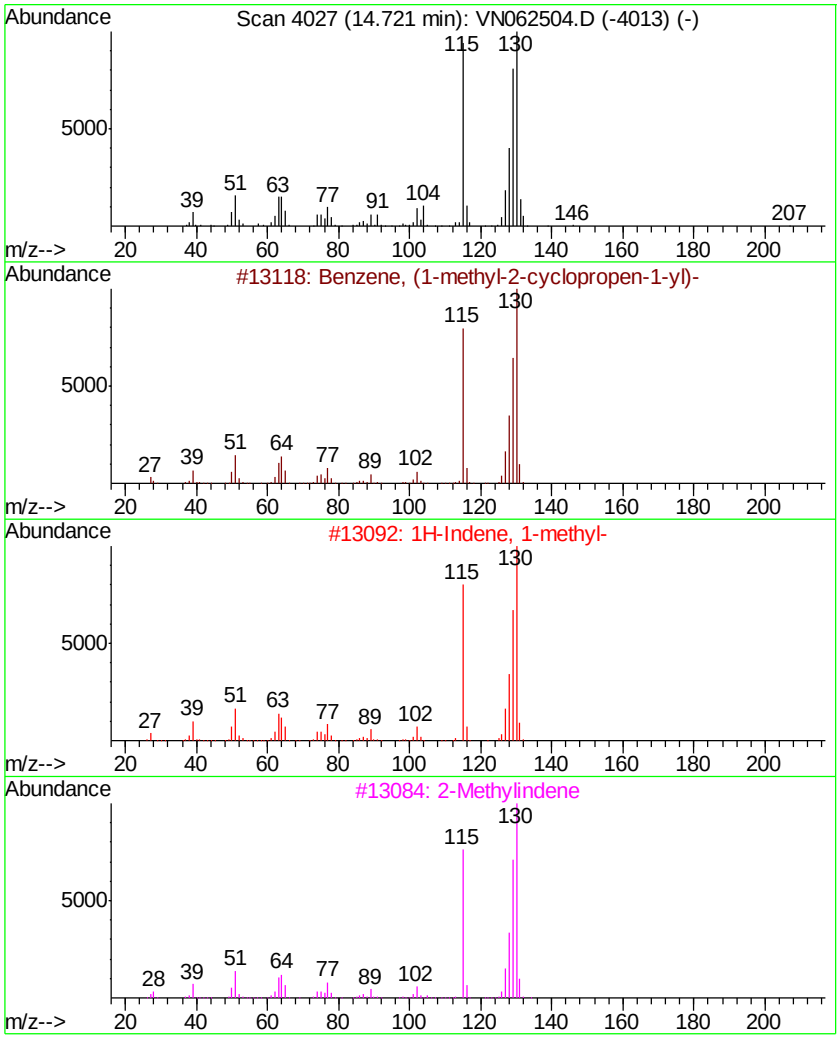
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

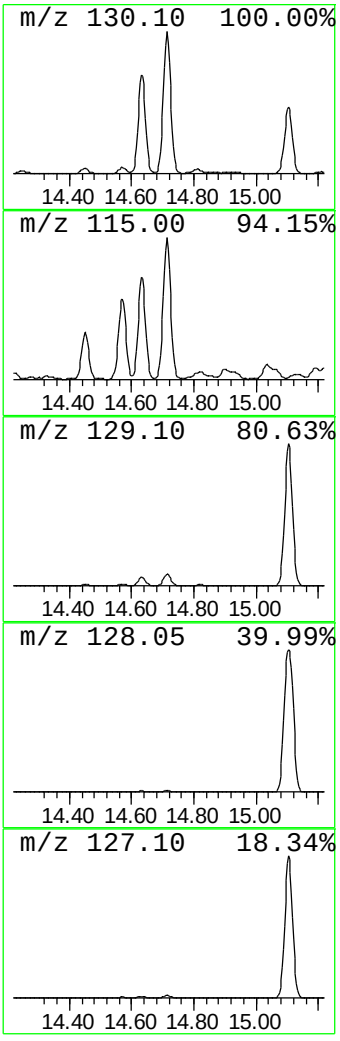
**********

Peak Number 7 Benzene, (1-methyl-2-cyclop... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.72 | 22.13 ug/l | 538165 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 96 |
| 2 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 96 |
| 3 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 95 |
| 4 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 95 |
| 5 | 1,4-Dihydronaphthalene | 130 | C10H10 | 000612-17-9 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

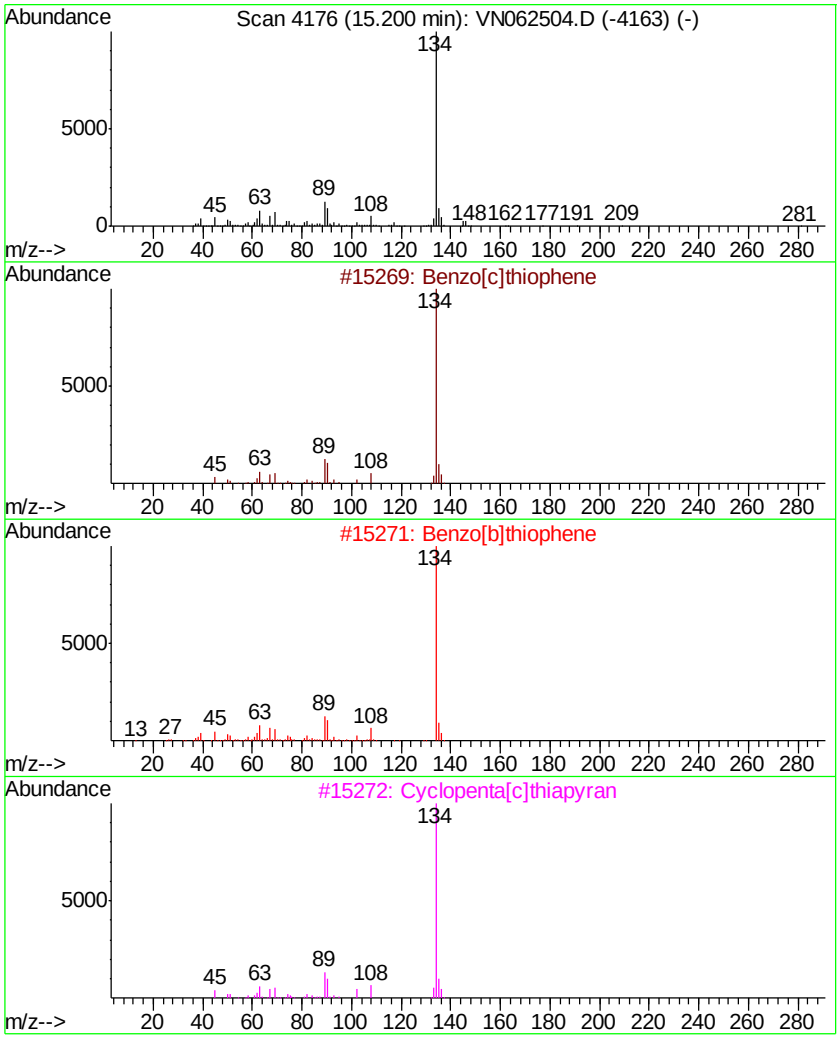
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

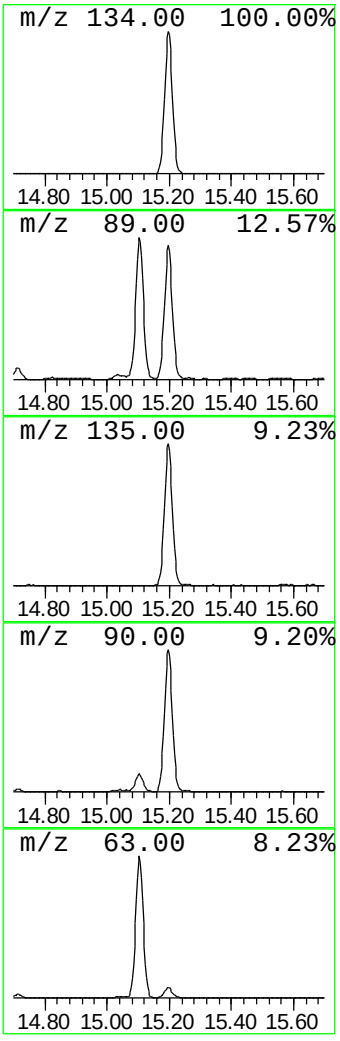
**********

Peak Number 8 Benzo[c]thiophene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.20 | 63.48 ug/l | 1543280 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 97 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 95 |
| 3 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 94 |
| 4 | 5H-Pyrrolo(3,2-d)pyrimidin-4-amine | 134 | C6H6N4 | 002227-98-7 | 42 |
| 5 | [1]Benzothieno[2',3':3,4]cyclobu... | 246 | C13H10O3S | 034002-19-2 | 39 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260

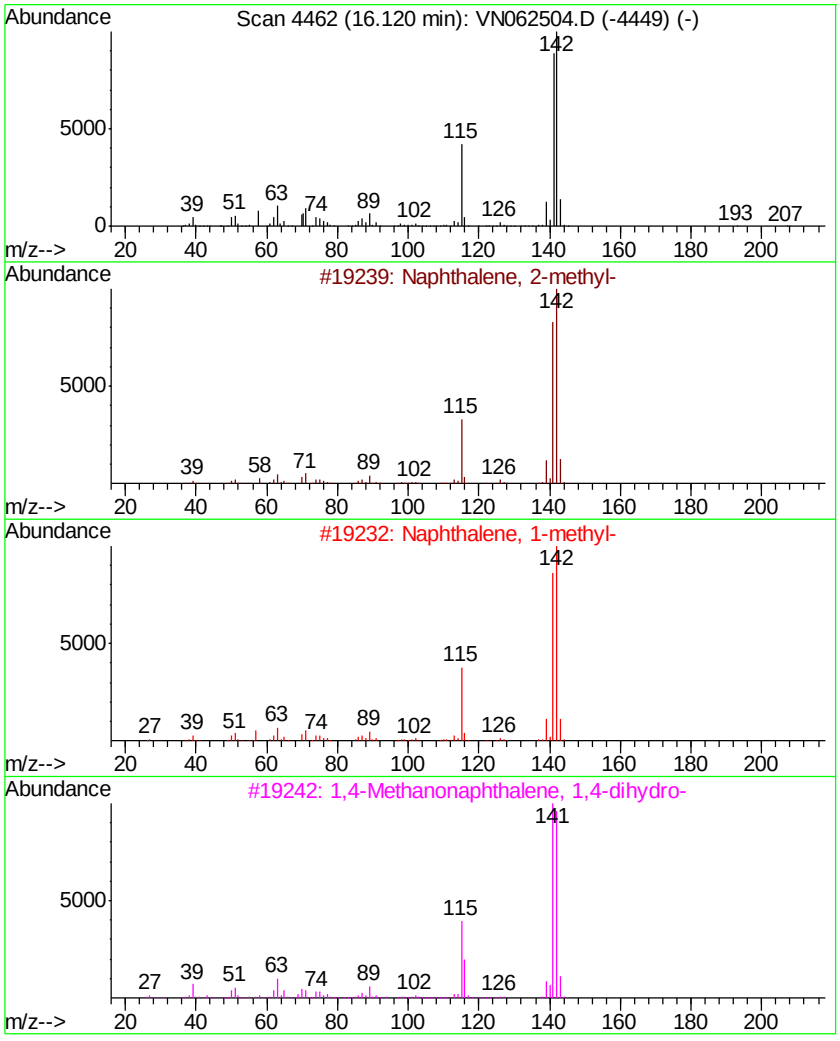
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

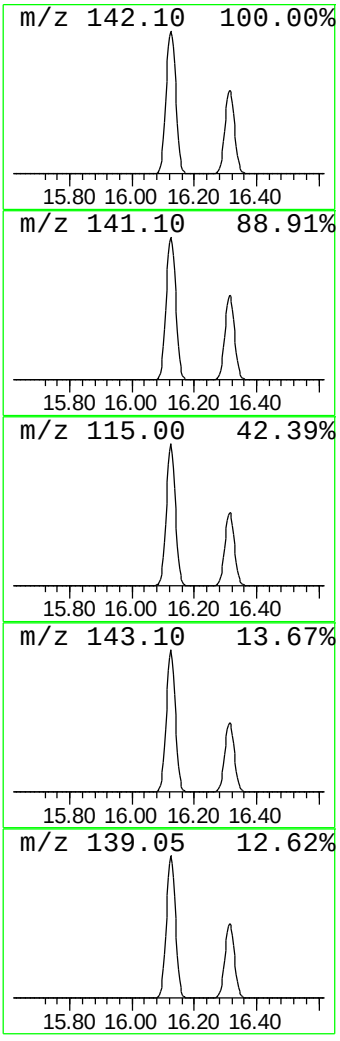
**********

Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.12 | 870.66 ug/l | 21168300 | 1,4-Dichlorobenzene-d4 | 13.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 93 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 93 |
| 5 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN071020\
Data File : VN062504.D
Acq On : 10 Jul 2020 19:58
Operator : JC/MD
Sample : L3217-09 100X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** E3-41-NHL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.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 |
| D-Limonene | 13.24 | 794.3 | ug/l | 19311100 | 4 | 13.32 | 1215650 | 50.0 |
| Indane | 13.52 | 96.9 | ug/l | 2355360 | 4 | 13.32 | 1215650 | 50.0 |
| Indene | 13.70 | 59.0 | ug/l | 1435550 | 4 | 13.32 | 1215650 | 50.0 |
| (+)-4-Carene | 14.04 | 24.2 | ug/l | 588689 | 4 | 13.32 | 1215650 | 50.0 |
| Benzofuran, 2-met... | 14.25 | 29.9 | ug/l | 728112 | 4 | 13.32 | 1215650 | 50.0 |
| Benzene, 2-etheny... | 14.57 | 31.5 | ug/l | 765167 | 4 | 13.32 | 1215650 | 50.0 |
| Benzene, (1-methy... | 14.72 | 22.1 | ug/l | 538165 | 4 | 13.32 | 1215650 | 50.0 |
| Benzo[c]thiophene | 15.20 | 63.5 | ug/l | 1543280 | 4 | 13.32 | 1215650 | 50.0 |
| Naphthalene, 1-me... | 16.12 | 870.7 | ug/l | 21168300 | 4 | 13.32 | 1215650 | 50.0 |