# LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121119\
Data File : VD064500.D
Acq On : 11 Dec 2019 14:48
Operator : VA/SY
Sample : K6247-01
Misc : 7.64G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

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\82D112719S.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 | 7.985 | 1025 | 1031 | 1042 | rVB | 450329 | 1001876 | 1.07% | 0.374% |
| 2 | 8.867 | 1171 | 1181 | 1193 | rBV | 650559 | 1300250 | 1.39% | 0.486% |
| 3 | 10.344 | 1421 | 1432 | 1438 | rBV | 977166 | 1793798 | 1.91% | 0.670% |
| 4 | 11.650 | 1644 | 1654 | 1663 | rBV | 901876 | 1577654 | 1.68% | 0.589% |
| 5 | 12.491 | 1786 | 1797 | 1806 | rBV | 1556357 | 2671506 | 2.85% | 0.998% |
| 6 | 12.638 | 1814 | 1822 | 1829 | rBV | 738779 | 1212847 | 1.29% | 0.453% |
| 7 | 12.885 | 1858 | 1864 | 1868 | rBV | 606942 | 1024832 | 1.09% | 0.383% |
| 8 | 12.967 | 1873 | 1878 | 1884 | rVV | 729460 | 1168469 | 1.25% | 0.436% |
| 9 | 13.273 | 1920 | 1930 | 1935 | rBV | 1425232 | 2343881 | 2.50% | 0.876% |
| 10 | 13.497 | 1958 | 1968 | 1977 | rBV2 | 1170939 | 2255057 | 2.41% | 0.842% |
| 11 | 13.585 | 1977 | 1983 | 1986 | rBV | 807688 | 1492950 | 1.59% | 0.558% |
| 12 | 13.785 | 2003 | 2017 | 2033 | rBV | 18206991 | 30343437 | 32.37% | 11.335% |
| 13 | 13.967 | 2040 | 2048 | 2055 | rBV | 13864628 | 22050639 | 23.52% | 8.237% |
| 14 | 14.238 | 2089 | 2094 | 2104 | rVB | 646167 | 1275932 | 1.36% | 0.477% |
| 15 | 14.426 | 2120 | 2126 | 2134 | rBV2 | 731860 | 1777105 | 1.90% | 0.664% |
| 16 | 14.520 | 2134 | 2142 | 2150 | rVB2 | 1537329 | 3759923 | 4.01% | 1.405% |
| 17 | 14.720 | 2171 | 2176 | 2182 | rBV | 1024509 | 1639011 | 1.75% | 0.612% |
| 18 | 14.844 | 2188 | 2197 | 2202 | rBV2 | 1227834 | 2240352 | 2.39% | 0.837% |
| 19 | 15.414 | 2285 | 2294 | 2303 | rVB2 | 51041346 | 93736630 | 100.00% | 35.017% |
| 20 | 15.514 | 2303 | 2311 | 2318 | rBV | 1417742 | 2719310 | 2.90% | 1.016% |
| 21 | 16.514 | 2472 | 2481 | 2494 | rVV | 29565078 | 63092128 | 67.31% | 23.569% |
| 22 | 16.638 | 2494 | 2502 | 2507 | rVV | 387867 | 937947 | 1.00% | 0.350% |
| 23 | 16.720 | 2507 | 2516 | 2527 | rVB | 11855031 | 26276554 | 28.03% | 9.816% |

Sum of corrected areas: 267692088

LSC Report - Integrated Chromatogram

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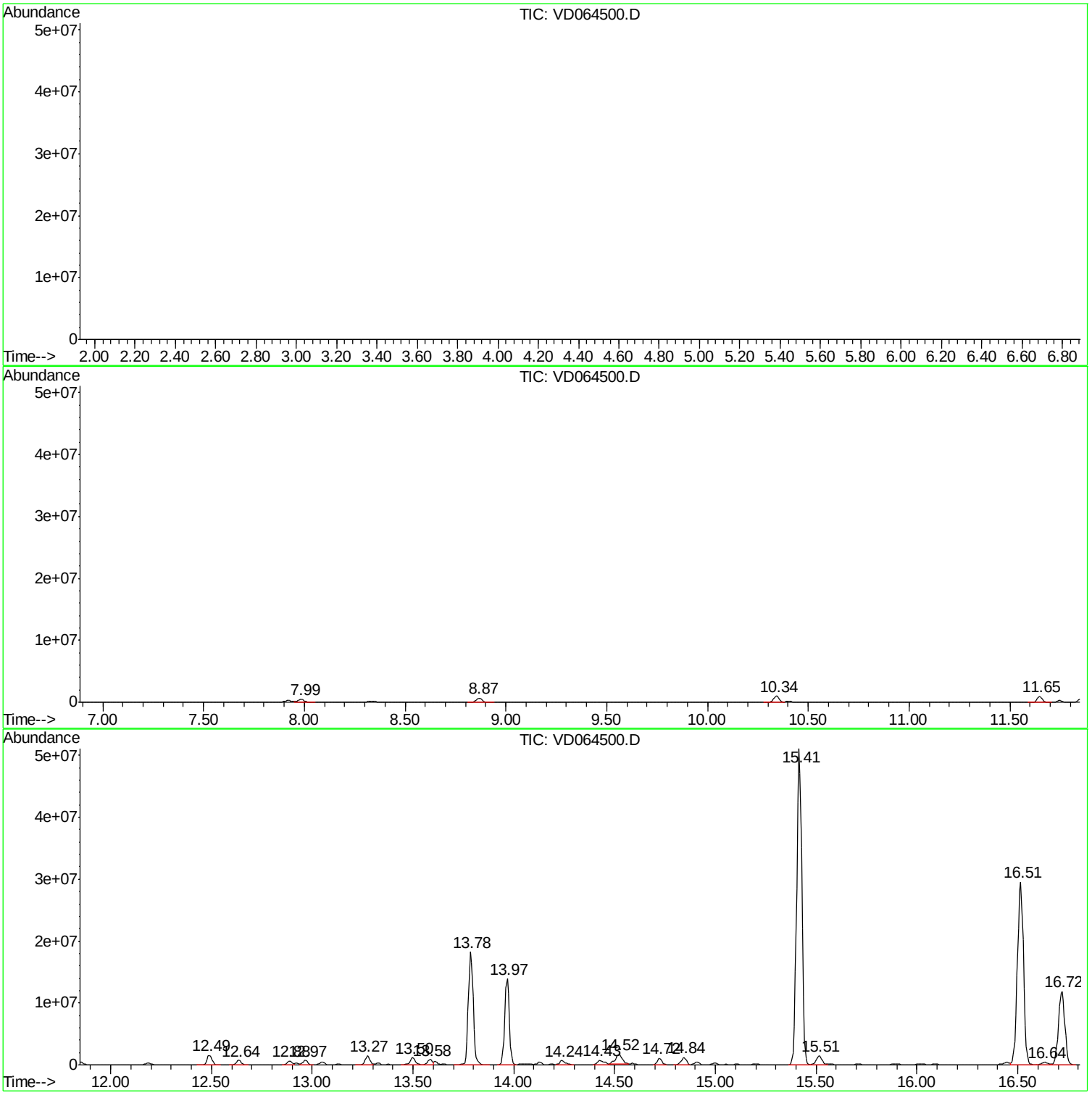
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

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



Library Search Compound Report

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ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

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

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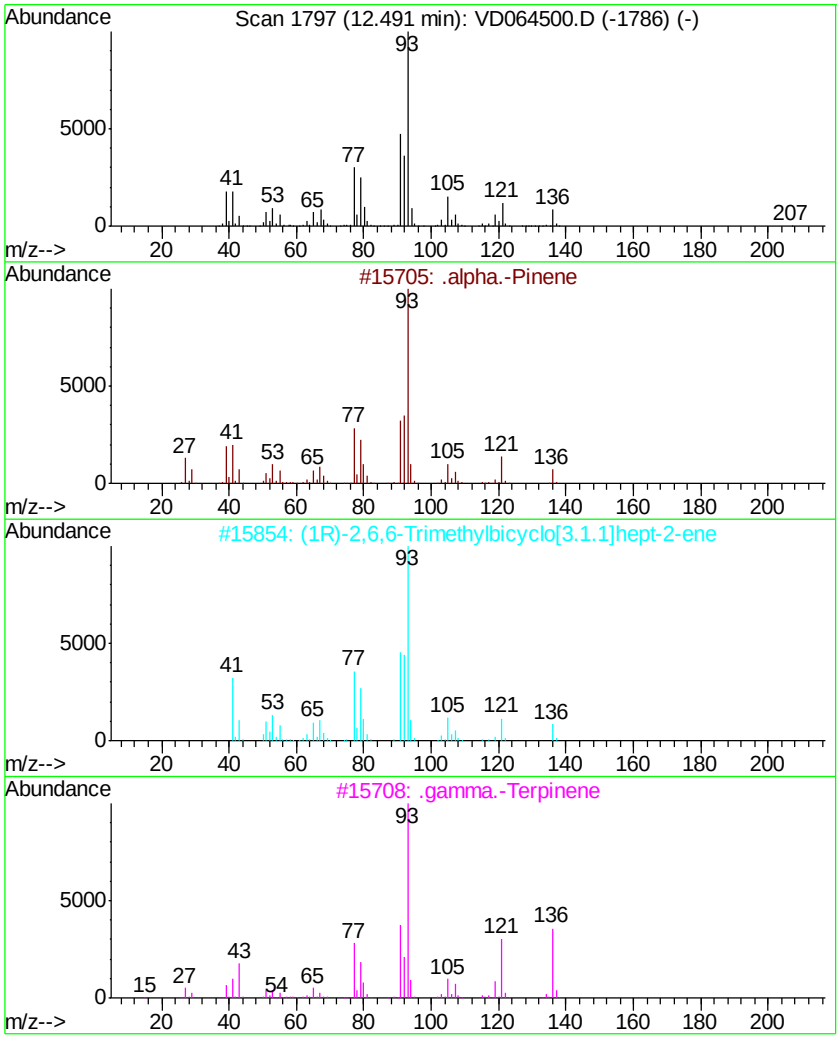
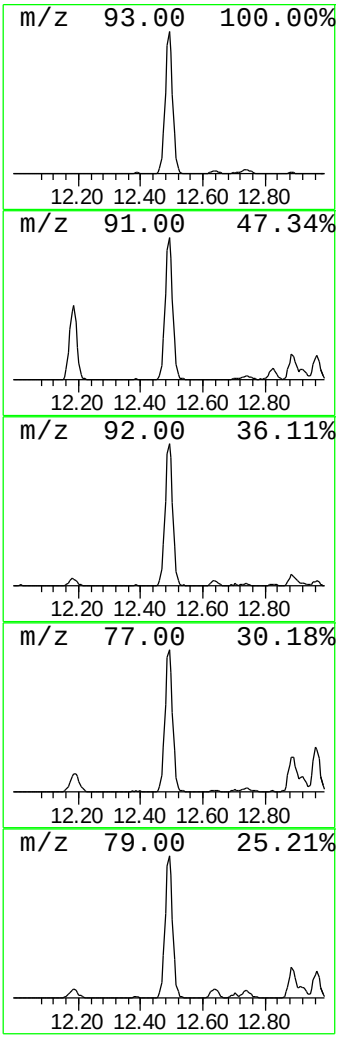
Peak Number 1 .alpha.-Pinene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 84.67 ug/l | 2671510 | Chlorobenzene-d5 | 11.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 97 |
| 2 | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-70-8 | 96 |
| 3 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 91 |
| 4 | 3,5-Methanocyclopentapyrazole, 3... | 164 | C10H16N2 | 087143-58-6 | 90 |
| 5 | 3-Carene | 136 | C10H16 | 013466-78-9 | 87 |



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Misc : 7.64G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

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

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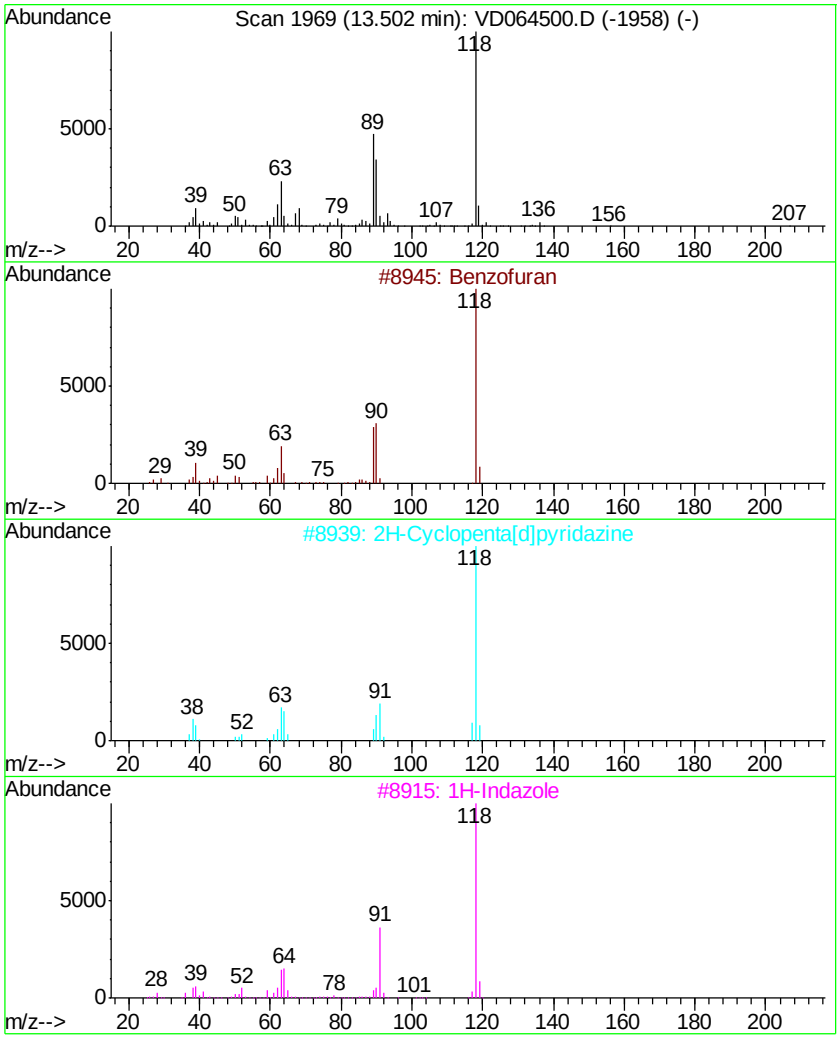
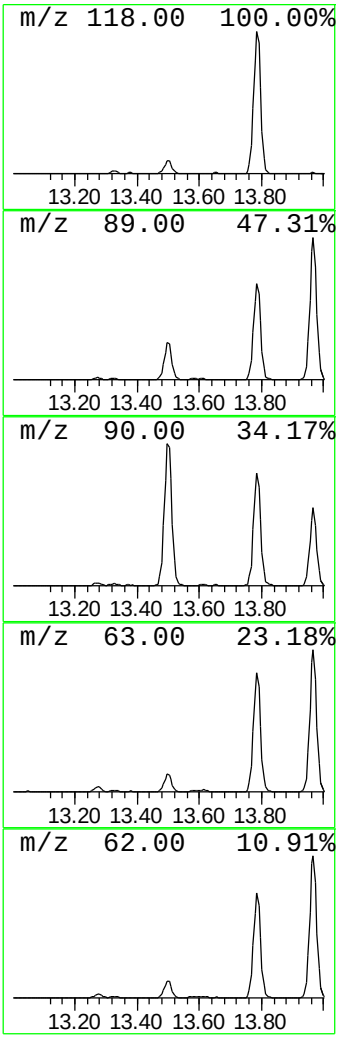
Peak Number 2 Benzofuran Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.50 | 75.52 ug/l | 2255060 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran | 118 | C8H6O | 000271-89-6 | 76 |
| 2 | 2H-Cyclopenta[d]pyridazine | 118 | C7H6N2 | 000270-64-4 | 52 |
| 3 | 1H-Indazole | 118 | C7H6N2 | 000271-44-3 | 47 |
| 4 | 3-Hydroxyphenylacetylene | 118 | C8H6O | 010401-11-3 | 38 |
| 5 | 1H-Pyrrolo[2,3-b]pyridine | 118 | C7H6N2 | 000271-63-6 | 37 |



Library Search Compound Report

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Acq On : 11 Dec 2019 14:48
Operator : VA/SY
Sample : K6247-01
Misc : 7.64G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

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

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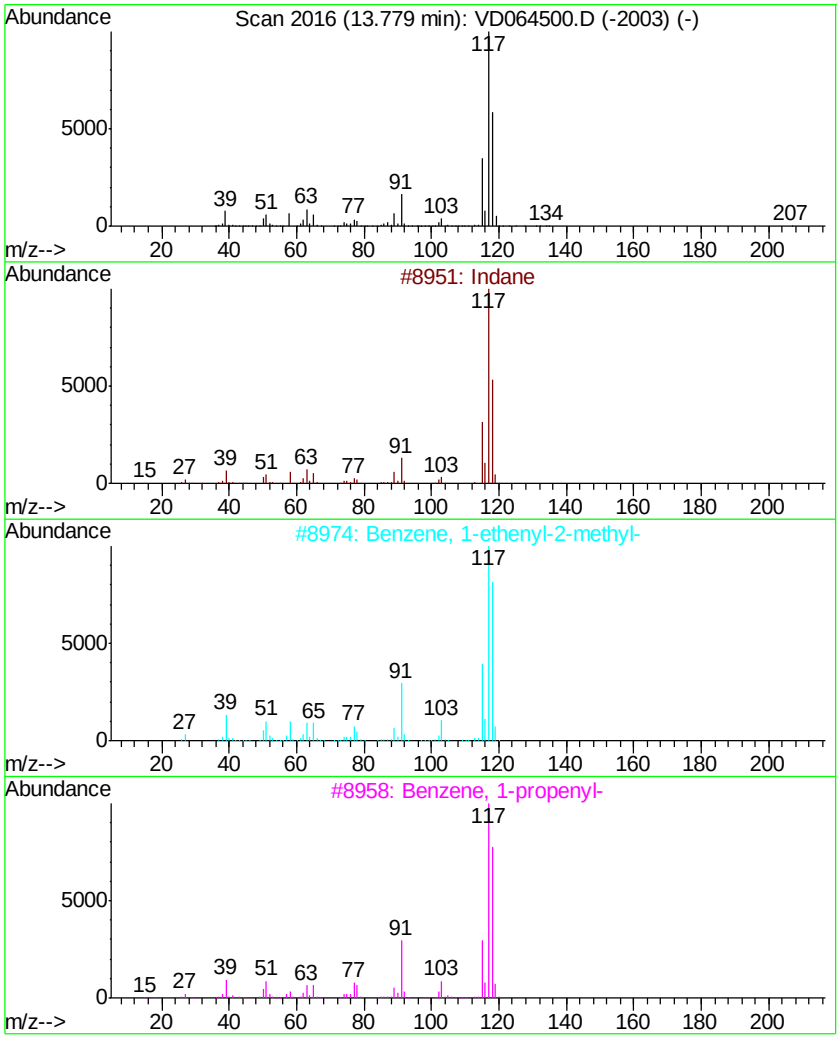
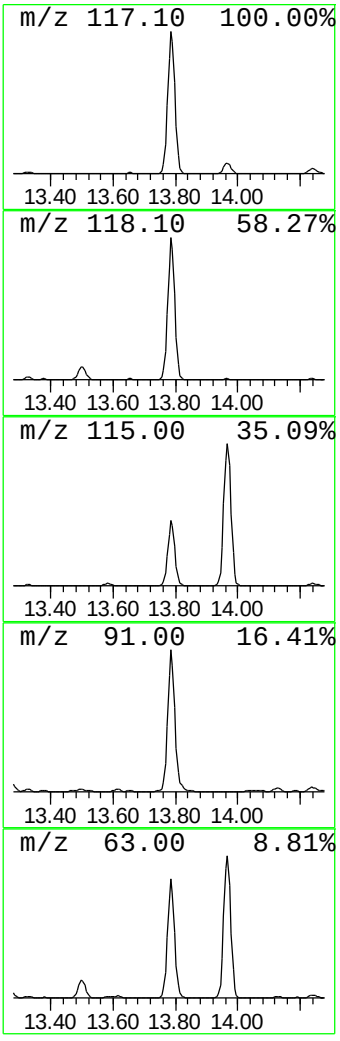
Peak Number 3 Indane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.78 | 1016.22 ug/l | 30343400 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 81 |
| 3 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 74 |
| 4 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 74 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 68 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121119\
Data File : VD064500.D
Acq On : 11 Dec 2019 14:48
Operator : VA/SY
Sample : K6247-01
Misc : 7.64G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
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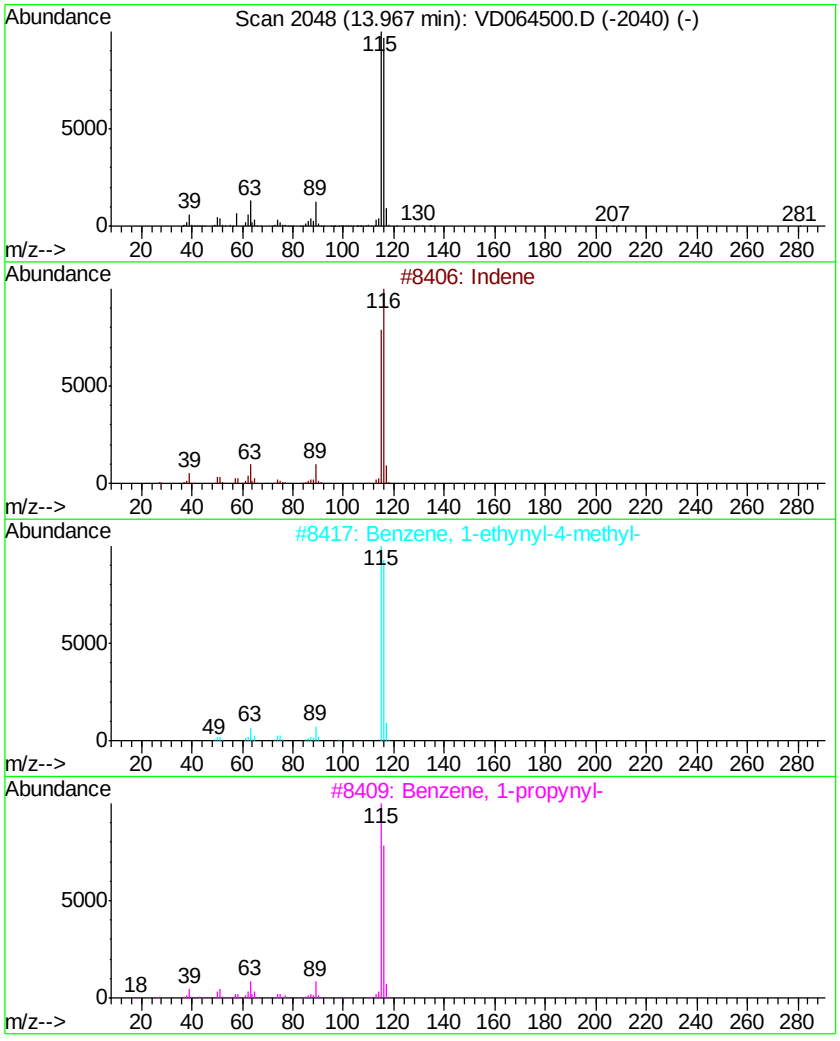
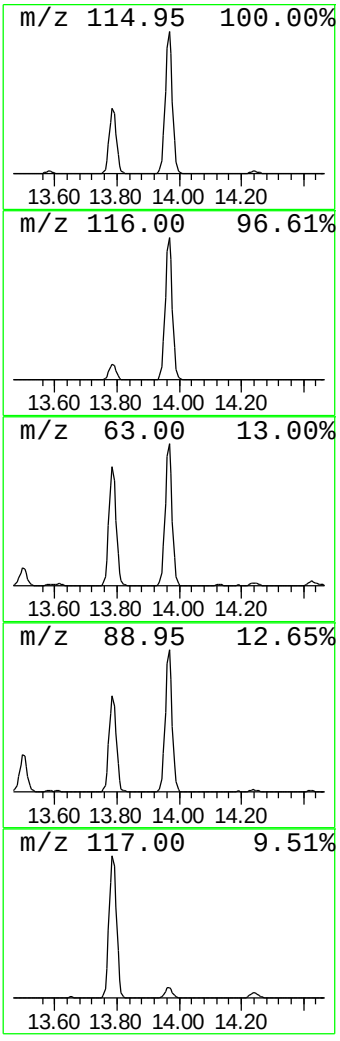
Peak Number 4 Indene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 738.49 ug/l | 22050600 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 97 |
| 2 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 91 |
| 3 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 91 |
| 4 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 91 |
| 5 | 1-Propyne, 3-phenyl- | 116 | C9H8 | 010147-11-2 | 90 |



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Sample : K6247-01
Misc : 7.64G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

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

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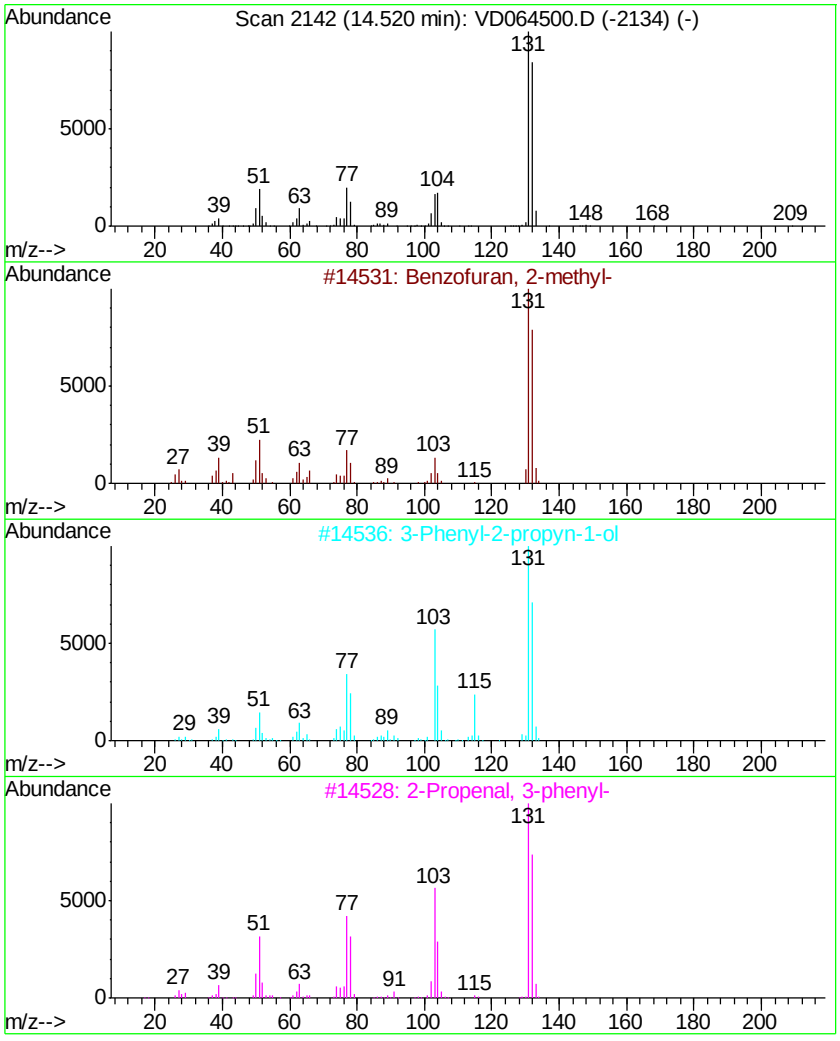
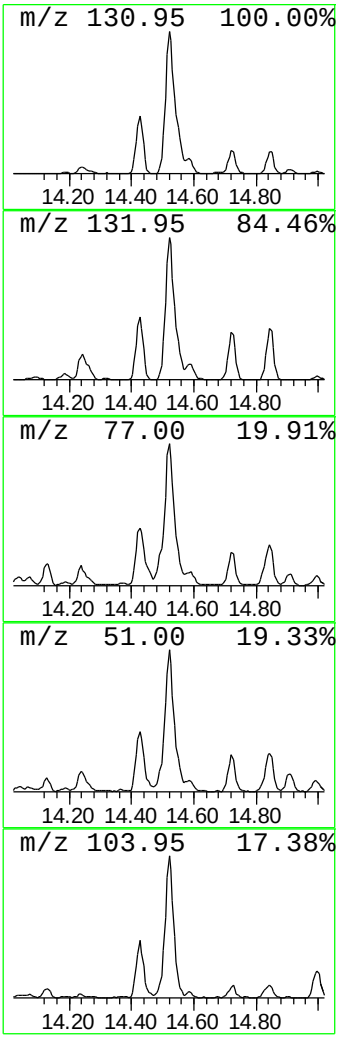
Peak Number 5 Benzofuran, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.52 | 125.92 ug/l | 3759920 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 91 |
| 2 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 91 |
| 3 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 91 |
| 4 | Cinnamaldehyde, (E)- | 132 | C9H8O | 014371-10-9 | 90 |
| 5 | Benzofuran, 7-methyl- | 132 | C9H8O | 017059-52-8 | 90 |



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Sample : K6247-01
Misc : 7.64G/5.00ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
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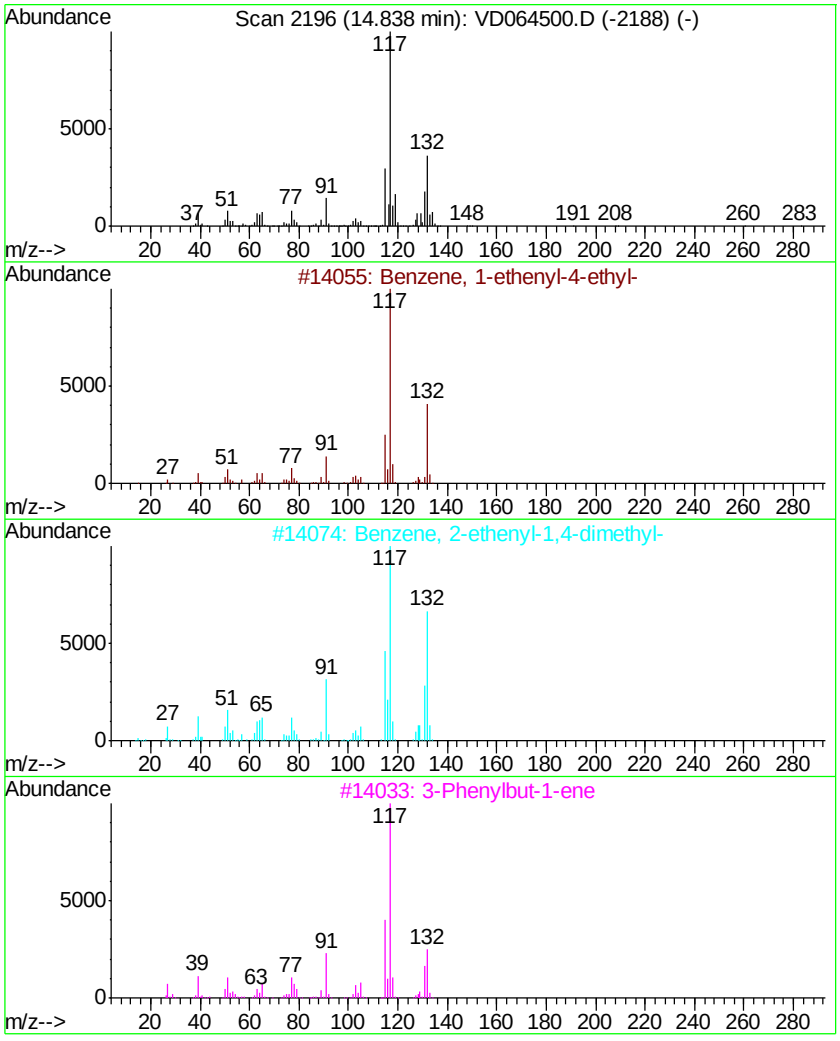
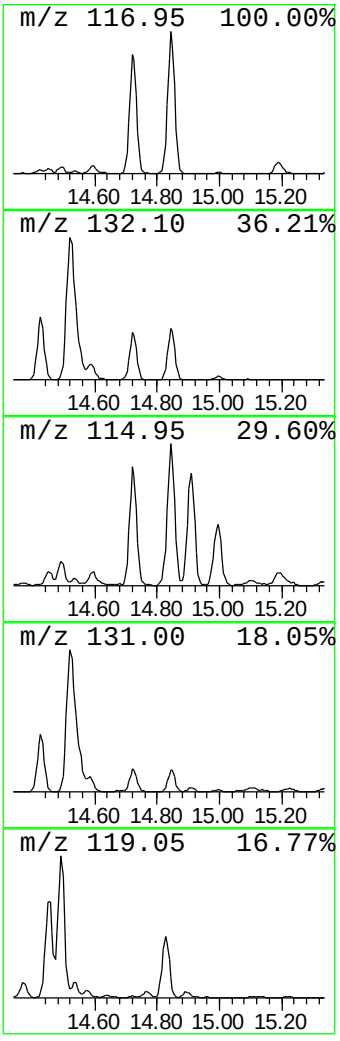
Peak Number 6 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.84 | 75.03 ug/l | 2240350 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 94 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 92 |
| 3 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 91 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 91 |
| 5 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 91 |



Library Search Compound Report

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Acq On : 11 Dec 2019 14:48
Operator : VA/SY
Sample : K6247-01
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ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
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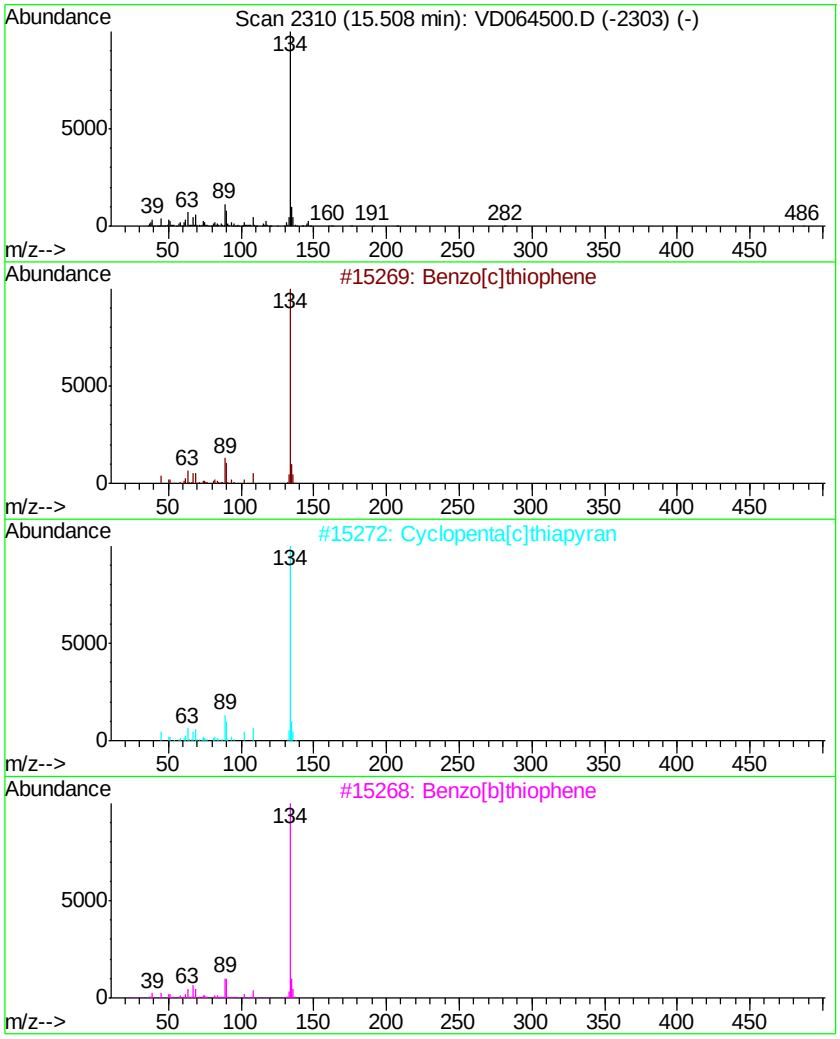
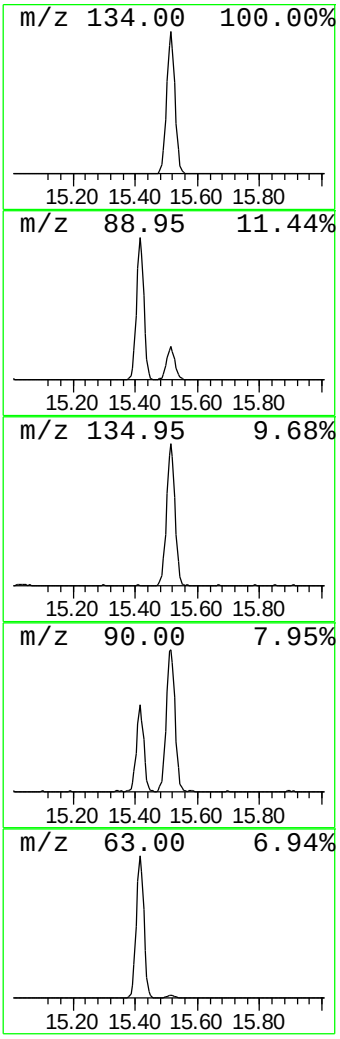
Peak Number 8 Benzo[c]thiophene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.51 | 91.07 ug/l | 2719310 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 95 |
| 2 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 94 |
| 3 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 93 |
| 4 | 5H-Pyrrolo(3,2-d)pyrimidin-4-amine | 134 | C6H6N4 | 002227-98-7 | 64 |
| 5 | [1]Benzothieno[2',3':3,4]cyclobu... | 246 | C13H10O3S | 034002-19-2 | 40 |



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TIC Integration Parameters: LSCINT.P

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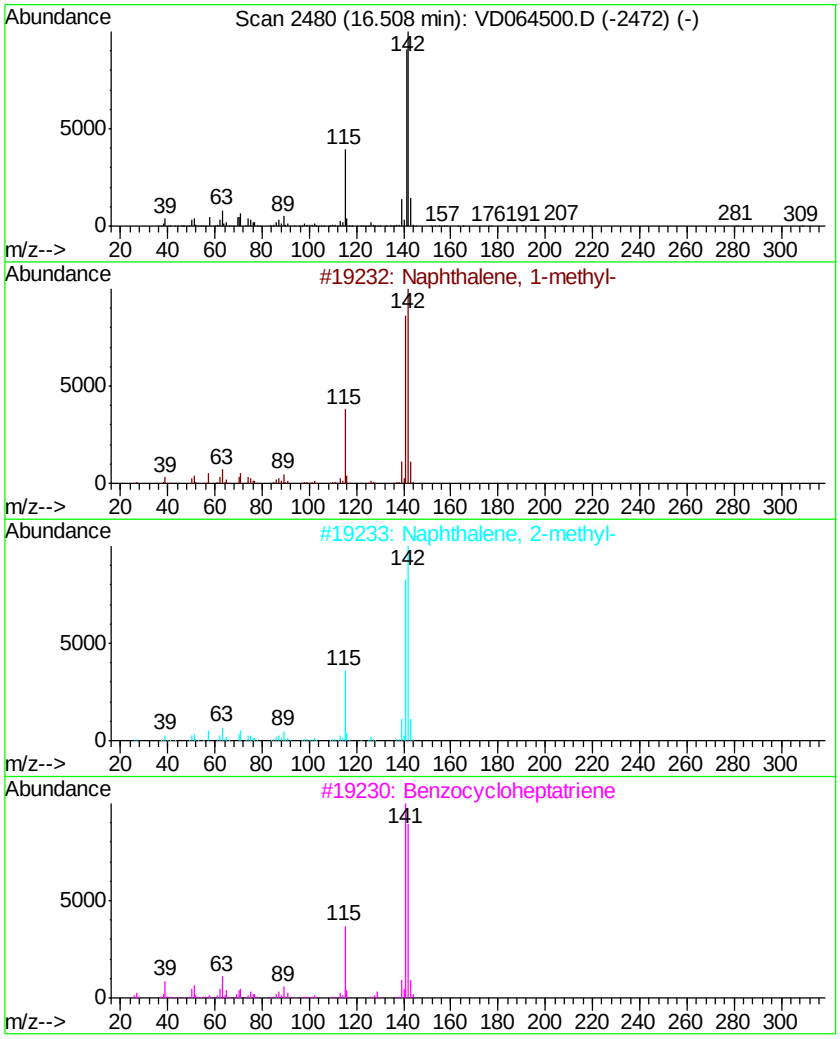
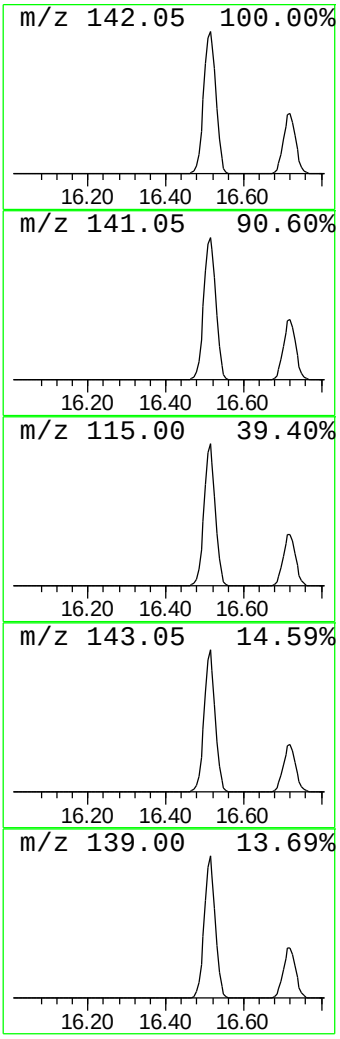
Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.51 | 2113.00 ug/l | 63092100 | 1,4-Dichlorobenzene-d4 | 13.58 |

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



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ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

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Quant Title : SW846 8260

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TIC Integration Parameters: LSCINT.P

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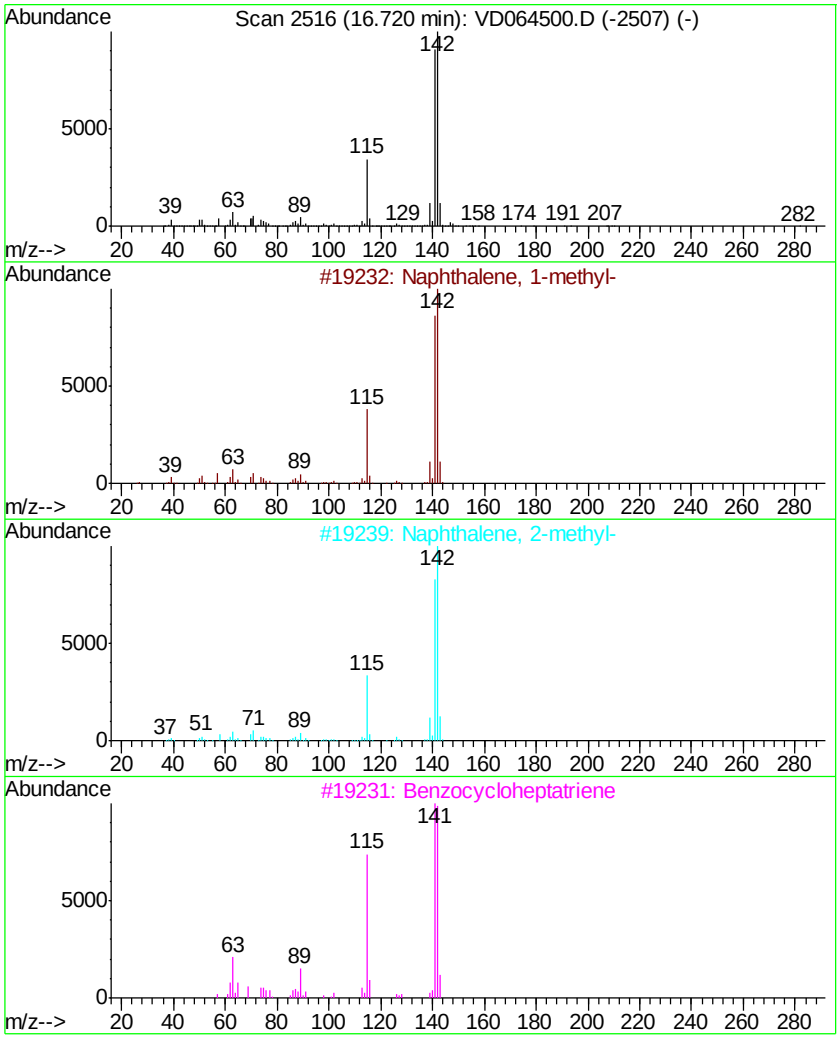
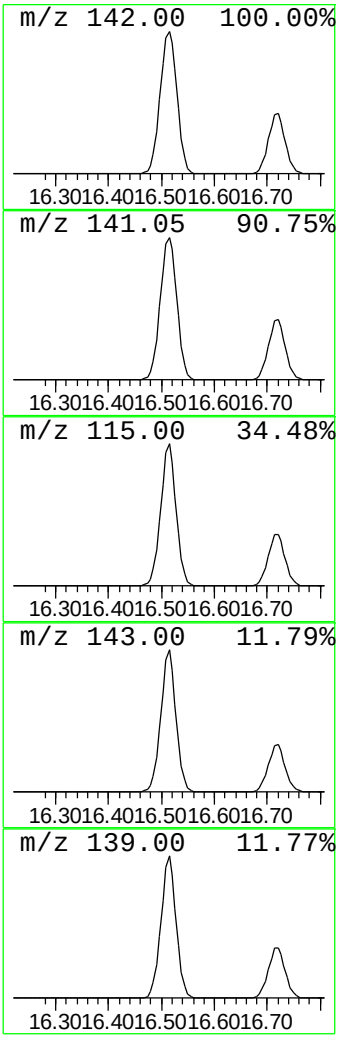
Peak Number 10 Benzocycloheptatriene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.72 | 880.02 ug/l | 26276600 | 1,4-Dichlorobenzene-d4 | 13.58 |

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



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121119\
Data File : VD064500.D
Acq On : 11 Dec 2019 14:48
Operator : VA/SY
Sample : K6247-01
Misc : 7.64G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** RBR200059

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.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 |
| .alpha.-Pinene | 12.49 | 84.7 | ug/l | 2671510 | 3 | 11.65 | 1577650 | 50.0 |
| Benzofuran | 13.50 | 75.5 | ug/l | 2255060 | 4 | 13.58 | 1492950 | 50.0 |
| Indane | 13.78 | 1016.2 | ug/l | 30343400 | 4 | 13.58 | 1492950 | 50.0 |
| Indene | 13.97 | 738.5 | ug/l | 22050600 | 4 | 13.58 | 1492950 | 50.0 |
| Benzofuran, 2-met... | 14.52 | 125.9 | ug/l | 3759920 | 4 | 13.58 | 1492950 | 50.0 |
| Benzene, 1-etheny... | 14.84 | 75.0 | ug/l | 2240350 | 4 | 13.58 | 1492950 | 50.0 |
| Benzo[c]thiophene | 15.51 | 91.1 | ug/l | 2719310 | 4 | 13.58 | 1492950 | 50.0 |
| Naphthalene, 1-me... | 16.51 | 2113.0 | ug/l | 63092100 | 4 | 13.58 | 1492950 | 50.0 |
| Benzocycloheptatr... | 16.72 | 880.0 | ug/l | 26276600 | 4 | 13.58 | 1492950 | 50.0 |