LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

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\82N120221W.M
Title : SW846 8260

Signal : TIC: VN070223.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.119 | 406 | 421 | 447 | rVB3 | 182463 | 424512 | 1.83% | 0.150% |
| 2 | 3.499 | 547 | 563 | 588 | rBV4 | 145752 | 356774 | 1.53% | 0.126% |
| 3 | 5.138 | 1119 | 1174 | 1209 | rBV3 | 836805 | 3863933 | 16.62% | 1.363% |
| 4 | 5.613 | 1321 | 1351 | 1393 | rBV2 | 587950 | 2044164 | 8.79% | 0.721% |
| 5 | 6.114 | 1503 | 1538 | 1569 | rBV3 | 588609 | 1830747 | 7.87% | 0.646% |
| 6 | 6.463 | 1651 | 1668 | 1691 | rVB5 | 111370 | 339502 | 1.46% | 0.120% |
| 7 | 6.895 | 1805 | 1829 | 1858 | rBV5 | 137547 | 439387 | 1.89% | 0.155% |
| 8 | 7.042 | 1858 | 1884 | 1903 | rBV2 | 656212 | 1994691 | 8.58% | 0.703% |
| 9 | 7.141 | 1904 | 1921 | 1944 | rVB | 642443 | 1836504 | 7.90% | 0.648% |
| 10 | 7.841 | 2168 | 2182 | 2201 | rVB3 | 190429 | 468110 | 2.01% | 0.165% |
| 11 | 8.021 | 2227 | 2249 | 2254 | rBV | 895475 | 1851268 | 7.96% | 0.653% |
| 12 | 8.075 | 2257 | 2269 | 2289 | rVV3 | 2750790 | 7854963 | 33.78% | 2.770% |
| 13 | 8.171 | 2290 | 2305 | 2330 | rVB3 | 1754619 | 4435688 | 19.07% | 1.564% |
| 14 | 8.295 | 2331 | 2351 | 2371 | rBV | 1869738 | 4362430 | 18.76% | 1.538% |
| 15 | 8.437 | 2386 | 2404 | 2433 | rBV | 1042268 | 2432208 | 10.46% | 0.858% |
| 16 | 8.614 | 2434 | 2470 | 2494 | rVV | 4613688 | 13283973 | 57.12% | 4.685% |
| 17 | 8.705 | 2495 | 2504 | 2526 | rVB2 | 350821 | 870977 | 3.75% | 0.307% |
| 18 | 8.826 | 2527 | 2549 | 2577 | rVB2 | 1221566 | 2682735 | 11.54% | 0.946% |
| 19 | 8.965 | 2580 | 2601 | 2629 | rBV2 | 3160112 | 7266114 | 31.25% | 2.562% |
| 20 | 9.123 | 2648 | 2660 | 2675 | rVB3 | 170375 | 335671 | 1.44% | 0.118% |
| 21 | 9.244 | 2697 | 2705 | 2742 | rVB4 | 164896 | 493546 | 2.12% | 0.174% |
| 22 | 9.456 | 2750 | 2784 | 2796 | rBV2 | 2300666 | 5921494 | 25.46% | 2.088% |
| 23 | 9.510 | 2796 | 2804 | 2821 | rVV | 1268332 | 2424014 | 10.42% | 0.855% |
| 24 | 9.590 | 2821 | 2834 | 2843 | rVV | 267823 | 561116 | 2.41% | 0.198% |
| 25 | 9.638 | 2844 | 2852 | 2865 | rVV | 405544 | 756240 | 3.25% | 0.267% |
| 26 | 9.730 | 2865 | 2886 | 2902 | rVB5 | 330945 | 872163 | 3.75% | 0.308% |
| 27 | 9.882 | 2926 | 2943 | 2964 | rVB | 2846304 | 5854950 | 25.18% | 2.065% |
| 28 | 10.014 | 2965 | 2992 | 3005 | rBV3 | 3738392 | 8478211 | 36.46% | 2.990% |
| 29 | 10.078 | 3006 | 3016 | 3026 | rBV | 1591555 | 2839794 | 12.21% | 1.001% |
| 30 | 10.215 | 3047 | 3067 | 3093 | rBV | 2092815 | 4905785 | 21.10% | 1.730% |
| 31 | 10.320 | 3094 | 3106 | 3112 | rBV4 | 180477 | 345783 | 1.49% | 0.122% |
| 32 | 10.368 | 3112 | 3124 | 3137 | rVV3 | 1405202 | 2568950 | 11.05% | 0.906% |
| 33 | 10.440 | 3137 | 3151 | 3175 | rVV | 5082429 | 9871883 | 42.45% | 3.481% |
| 34 | 10.623 | 3204 | 3219 | 3233 | rVB2 | 1911760 | 3803786 | 16.36% | 1.341% |
| 35 | 10.682 | 3234 | 3241 | 3252 | rVB3 | 201955 | 301381 | 1.30% | 0.106% |
| 36 | 10.784 | 3268 | 3279 | 3296 | rBV6 | 274781 | 672526 | 2.89% | 0.237% |

LSC Area Percent Report

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Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

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\82N120221W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 10.877 | 3296 | 3314 | 3335 | rBV8 | 708369 | 2119115 | 9.11% | 0.747% |
| 38 | 10.963 | 3336 | 3346 | 3359 | rVB2 | 470789 | 844891 | 3.63% | 0.298% |
| 39 | 11.052 | 3359 | 3379 | 3391 | rBV2 | 514785 | 1045083 | 4.49% | 0.369% |
| 40 | 11.154 | 3407 | 3417 | 3434 | rVB2 | 676004 | 1381933 | 5.94% | 0.487% |
| 41 | 11.221 | 3435 | 3442 | 3448 | rBV5 | 173050 | 253423 | 1.09% | 0.089% |
| 42 | 11.344 | 3480 | 3488 | 3500 | rBV3 | 252009 | 417559 | 1.80% | 0.147% |
| 43 | 11.454 | 3520 | 3529 | 3537 | rBV3 | 419195 | 659835 | 2.84% | 0.233% |
| 44 | 11.526 | 3539 | 3556 | 3581 | rVB3 | 2188224 | 5079536 | 21.84% | 1.791% |
| 45 | 11.626 | 3581 | 3593 | 3616 | rBV | 1641635 | 2944836 | 12.66% | 1.039% |
| 46 | 11.744 | 3619 | 3637 | 3653 | rBV | 5138017 | 9621360 | 41.37% | 3.393% |
| 47 | 11.843 | 3656 | 3674 | 3694 | rVB | 6291998 | 11264834 | 48.44% | 3.973% |
| 48 | 11.958 | 3702 | 3717 | 3739 | rVB | 6211039 | 11637709 | 50.05% | 4.104% |
| 49 | 12.181 | 3791 | 3800 | 3812 | rVB6 | 308656 | 540967 | 2.33% | 0.191% |
| 50 | 12.253 | 3816 | 3827 | 3854 | rVB6 | 566075 | 1481040 | 6.37% | 0.522% |
| 51 | 12.366 | 3860 | 3869 | 3880 | rVB2 | 536306 | 892477 | 3.84% | 0.315% |
| 52 | 12.578 | 3938 | 3948 | 3958 | rBV | 975752 | 1718126 | 7.39% | 0.606% |
| 53 | 12.728 | 3993 | 4004 | 4015 | rVB2 | 3534255 | 5819402 | 25.03% | 2.052% |
| 54 | 12.878 | 4050 | 4060 | 4063 | rBV4 | 236088 | 362388 | 1.56% | 0.128% |
| 55 | 12.918 | 4064 | 4075 | 4093 | rVB | 3593266 | 5975575 | 25.70% | 2.107% |
| 56 | 13.015 | 4098 | 4111 | 4119 | rBV | 5025033 | 8404029 | 36.14% | 2.964% |
| 57 | 13.055 | 4120 | 4126 | 4143 | rVB2 | 3213698 | 5396395 | 23.21% | 1.903% |
| 58 | 13.219 | 4171 | 4187 | 4204 | rBV | 2763621 | 5337086 | 22.95% | 1.882% |
| 59 | 13.366 | 4229 | 4242 | 4257 | rBV | 14451989 | 23254338 | 100.00% | 8.201% |
| 60 | 13.492 | 4274 | 4289 | 4298 | rBV4 | 542225 | 1437612 | 6.18% | 0.507% |
| 61 | 13.608 | 4324 | 4332 | 4339 | rBV2 | 502554 | 799582 | 3.44% | 0.282% |
| 62 | 13.675 | 4346 | 4357 | 4363 | rBV | 4862618 | 8231816 | 35.40% | 2.903% |
| 63 | 13.836 | 4406 | 4417 | 4423 | rBV | 1641428 | 2559265 | 11.01% | 0.903% |
| 64 | 13.876 | 4424 | 4432 | 4439 | rVV | 2427893 | 3505481 | 15.07% | 1.236% |
| 65 | 13.994 | 4467 | 4476 | 4489 | rVB3 | 1085837 | 1634854 | 7.03% | 0.577% |
| 66 | 14.069 | 4494 | 4504 | 4514 | rVB | 1183838 | 1817195 | 7.81% | 0.641% |
| 67 | 14.131 | 4515 | 4527 | 4532 | rBV | 2521763 | 4033224 | 17.34% | 1.422% |
| 68 | 14.217 | 4548 | 4559 | 4572 | rVB | 4041029 | 6278125 | 27.00% | 2.214% |
| 69 | 14.326 | 4589 | 4600 | 4613 | rVB3 | 1867019 | 3196714 | 13.75% | 1.127% |
| 70 | 14.461 | 4640 | 4650 | 4661 | rBV | 844976 | 1361043 | 5.85% | 0.480% |
| 71 | 14.538 | 4670 | 4679 | 4686 | rBV | 1795037 | 2701672 | 11.62% | 0.953% |
| 72 | 14.579 | 4687 | 4694 | 4703 | rVV | 2694086 | 3730140 | 16.04% | 1.315% |
| 73 | 14.621 | 4703 | 4710 | 4719 | rVB2 | 862492 | 1126959 | 4.85% | 0.397% |
| 74 | 14.764 | 4756 | 4763 | 4769 | rBV2 | 231387 | 272145 | 1.17% | 0.096% |
| 75 | 14.809 | 4769 | 4780 | 4788 | rBV | 1857822 | 3138167 | 13.49% | 1.107% |
| 76 | 14.927 | 4807 | 4824 | 4837 | rBV4 | 2765710 | 6724545 | 28.92% | 2.371% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

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\82N120221W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 14.981 | 4838 | 4844 | 4860 | rVB3 | 643372 | 1126931 | 4.85% | 0.397% |
| 78 | 15.083 | 4875 | 4882 | 4899 | rVB2 | 394956 | 711424 | 3.06% | 0.251% |
| 79 | 15.195 | 4903 | 4924 | 4951 | rVV5 | 1173891 | 3646450 | 15.68% | 1.286% |
| 80 | 15.311 | 4955 | 4967 | 4984 | rVB5 | 805413 | 1846828 | 7.94% | 0.651% |
| 81 | 15.504 | 5016 | 5039 | 5054 | rVB | 1740601 | 3509539 | 15.09% | 1.238% |
| 82 | 15.611 | 5069 | 5079 | 5090 | rBV4 | 348048 | 620040 | 2.67% | 0.219% |
| 83 | 15.804 | 5136 | 5151 | 5168 | rBV | 537890 | 1164528 | 5.01% | 0.411% |
| 84 | 16.107 | 5257 | 5264 | 5277 | rVB2 | 157659 | 258569 | 1.11% | 0.091% |
| 85 | 16.617 | 5439 | 5454 | 5489 | rVB | 862484 | 2035412 | 8.75% | 0.718% |

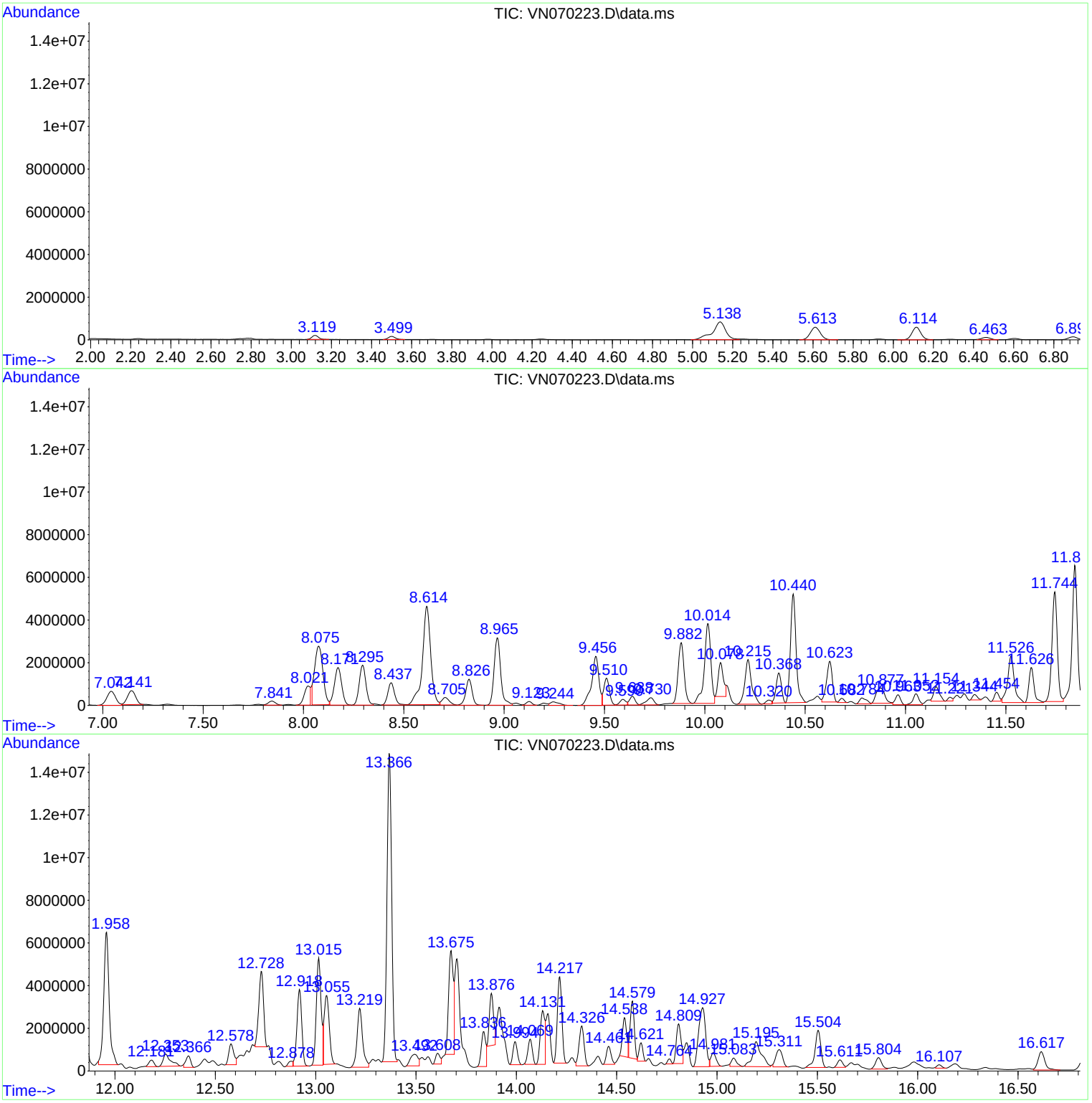
Sum of corrected areas: 283566170

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

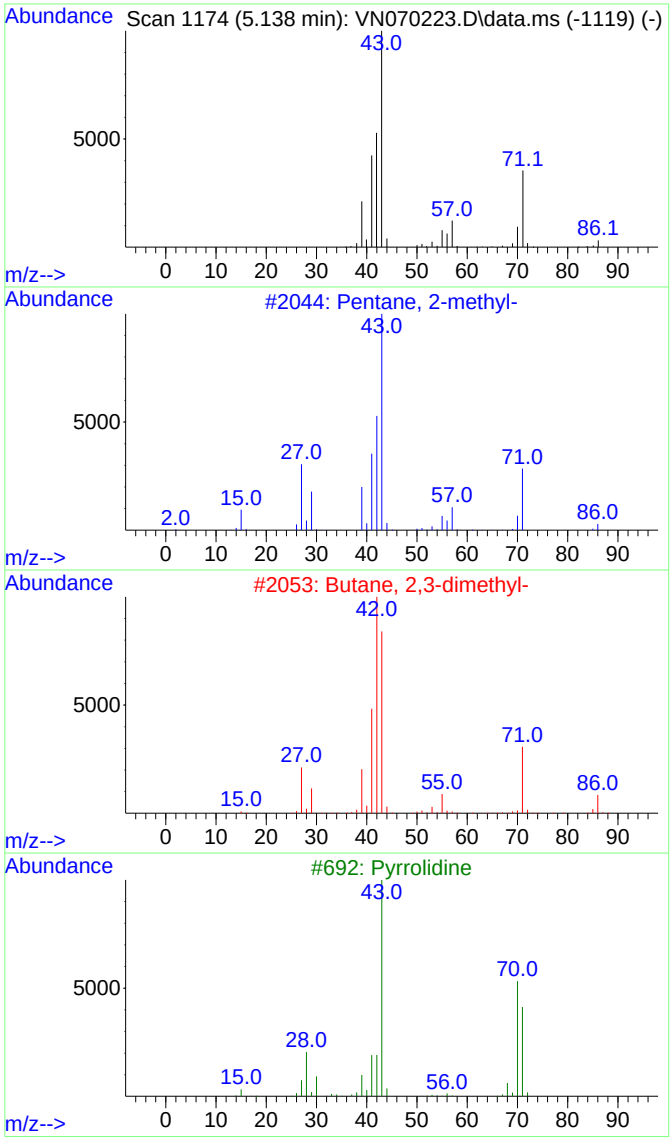
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

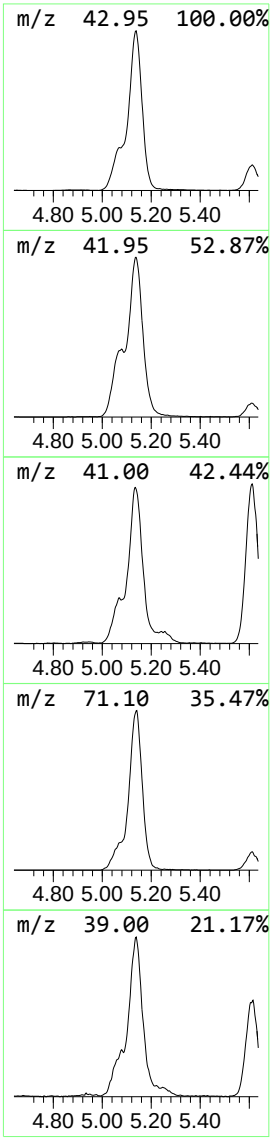
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Pentane, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.138 | 24.60 ug/l | 3863930 | Pentafluorobenzene | 8.086 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 91 |
| 2 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 53 |
| 3 | Pyrrolidine | 71 | C4H9N | 000123-75-1 | 37 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 33 |
| 5 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 33 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

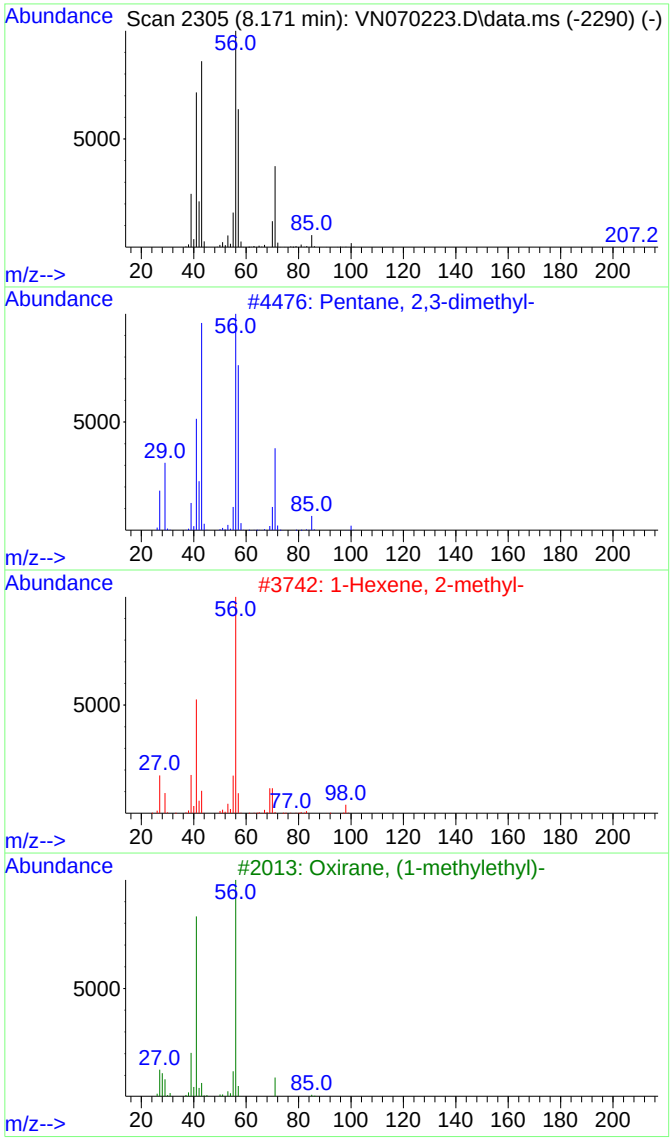
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

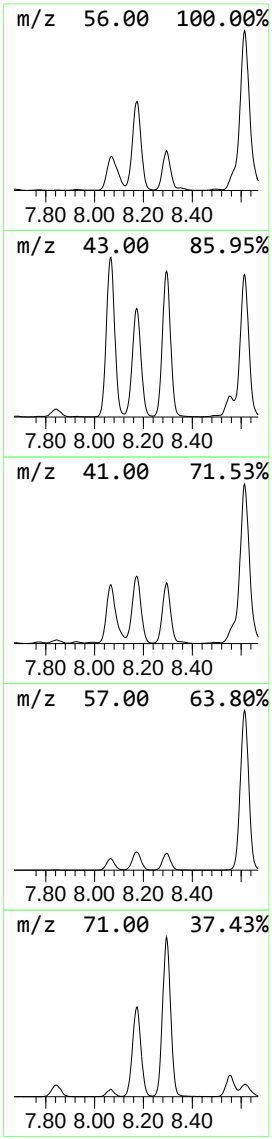
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Pentane, 2,3-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.171 | 28.23 ug/l | 4435690 | Pentafluorobenzene | 8.086 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 2 | 1-Hexene, 2-methyl- | 98 | C7H14 | 006094-02-6 | 38 |
| 3 | Oxirane, (1-methylethyl)- | 86 | C5H10O | 001438-14-8 | 37 |
| 4 | Hydroxylamine, O-(2-methylpropyl)- | 89 | C4H11NO | 005618-62-2 | 37 |
| 5 | Aziridine, 2-methyl- | 57 | C3H7N | 000075-55-8 | 28 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
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Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

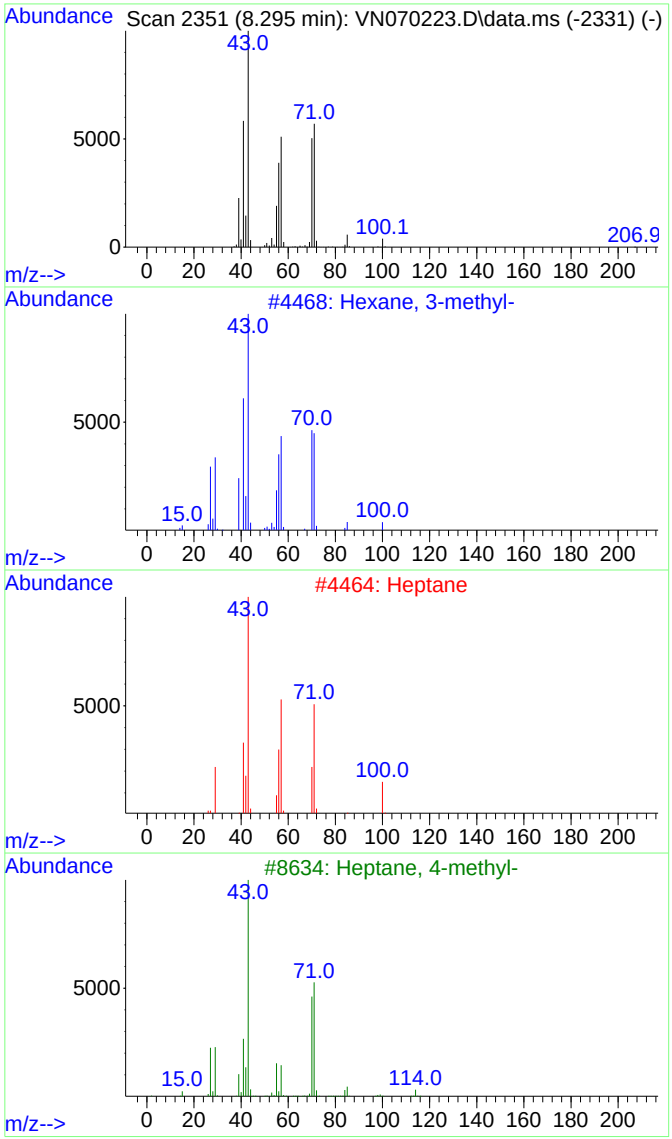
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

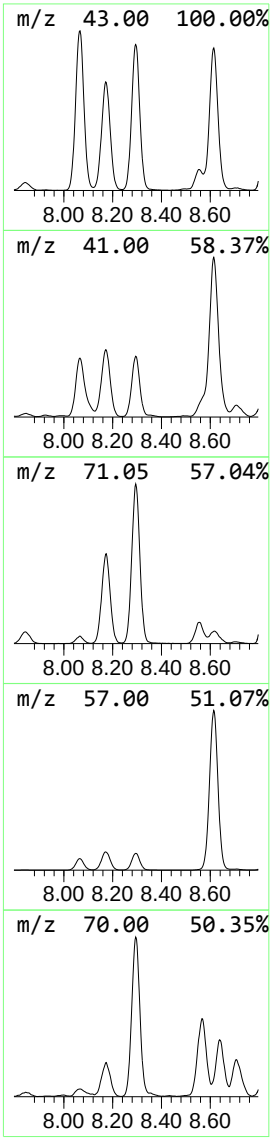
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Hexane, 3-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.295 | 27.77 ug/l | 4362430 | Pentafluorobenzene | 8.086 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 95 |
| 2 | Heptane | 100 | C7H16 | 000142-82-5 | 64 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 59 |
| 4 | Heptane, 3,4-dimethyl- | 128 | C9H20 | 000922-28-1 | 50 |
| 5 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

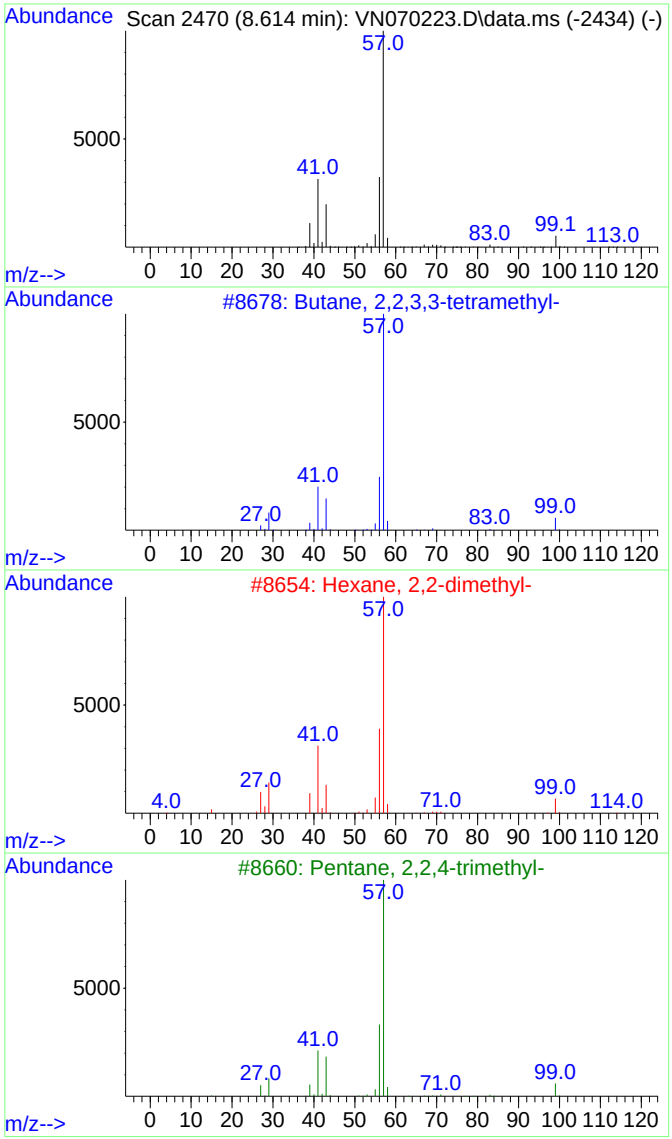
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

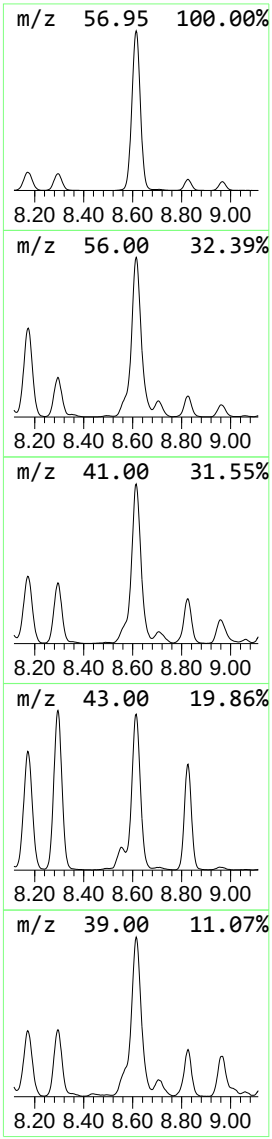
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.614 | 91.41 ug/l | 13284000 | 1,4-Difluorobenzene | 8.968 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 78 |
| 2 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 72 |
| 3 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 72 |
| 4 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 59 |
| 5 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

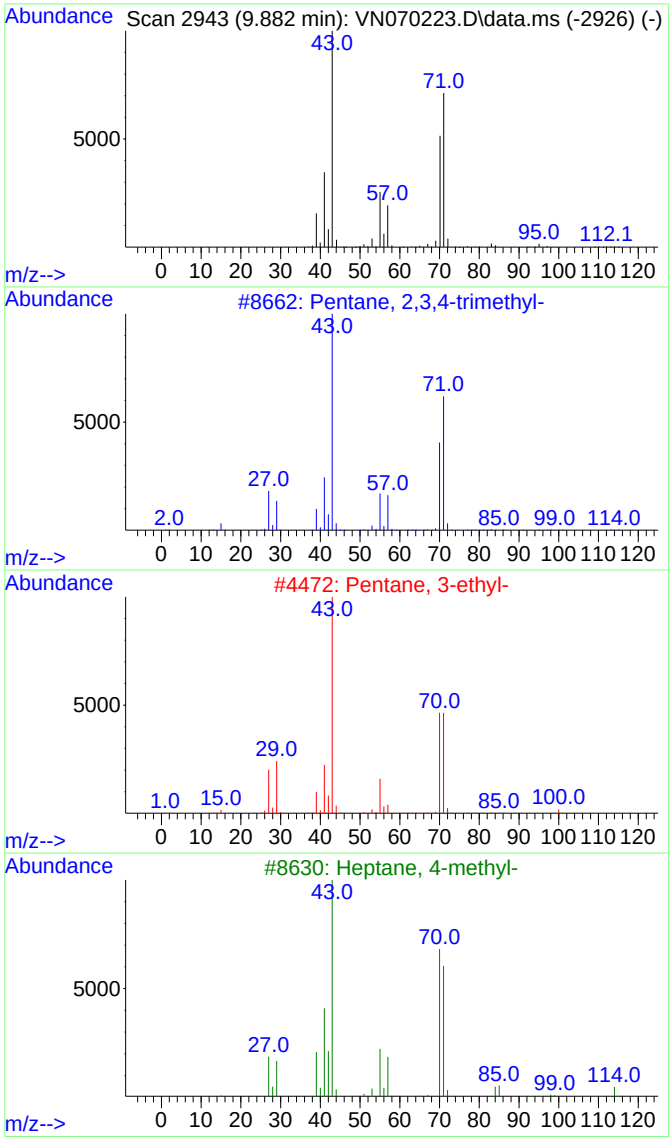
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

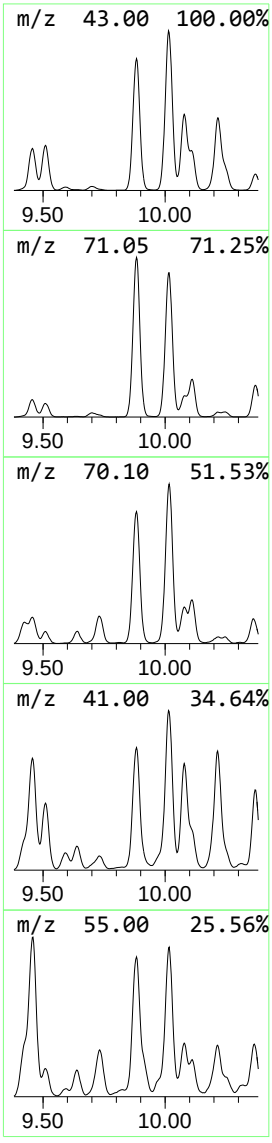
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Pentane, 2,3,4-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.882 | 40.29 ug/l | 5854950 | 1,4-Difluorobenzene | 8.968 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 91 |
| 2 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 83 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 74 |
| 4 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 74 |
| 5 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

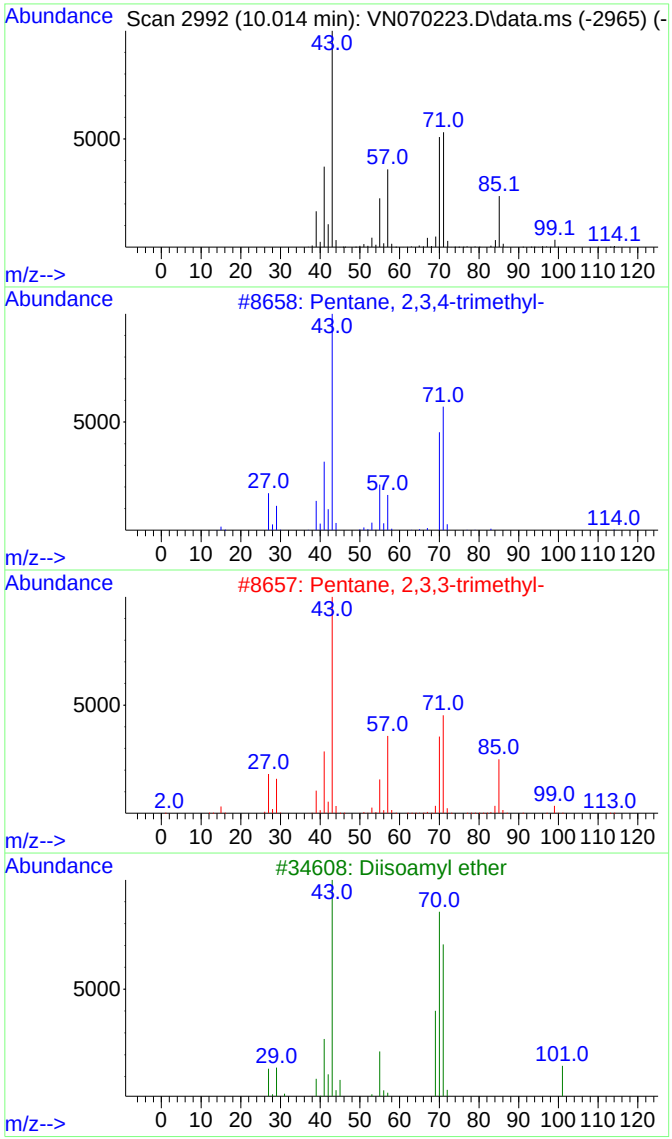
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

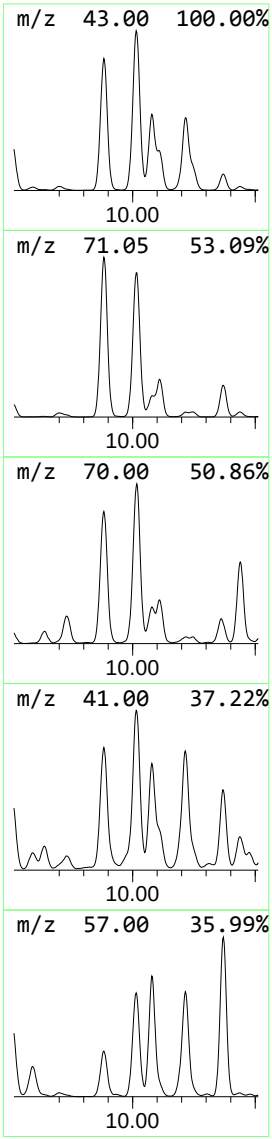
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.014 | 58.34 ug/l | 8478210 | 1,4-Difluorobenzene | 8.968 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 81 |
| 2 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 72 |
| 3 | Diisoamyl ether | 158 | C10H22O | 000544-01-4 | 59 |
| 4 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 56 |
| 5 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

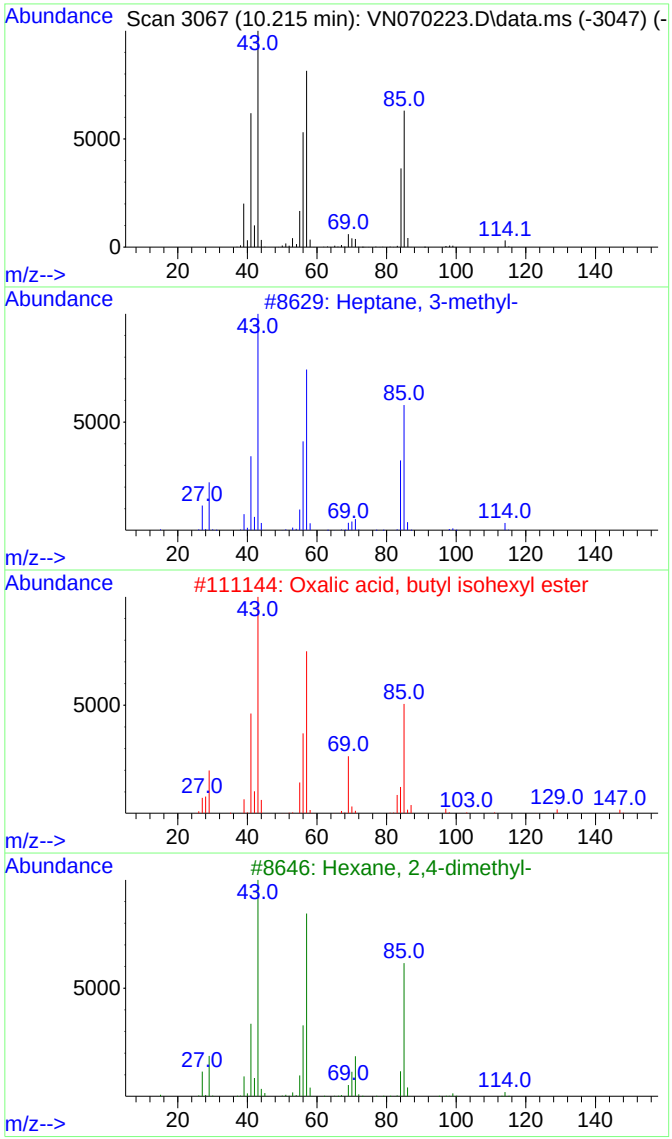
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

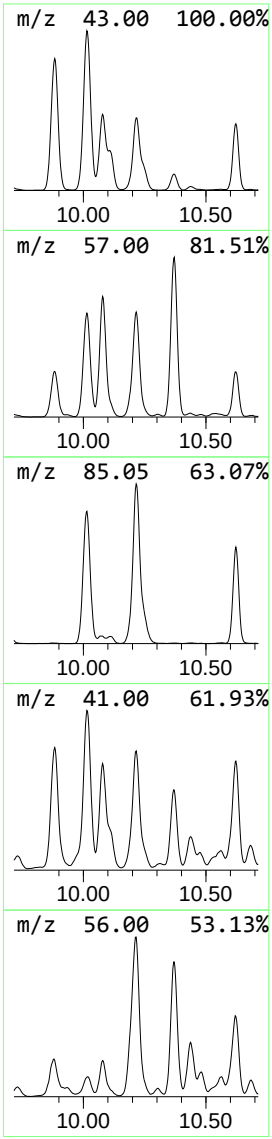
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Heptane, 3-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.215 | 33.76 ug/l | 4905790 | 1,4-Difluorobenzene | 8.968 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 91 |
| 2 | Oxalic acid, butyl isohexyl ester | 230 | C12H22O4 | 1000309-32-7 | 78 |
| 3 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 64 |
| 4 | Octane, 3,4-dimethyl- | 142 | C10H22 | 015869-92-8 | 59 |
| 5 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

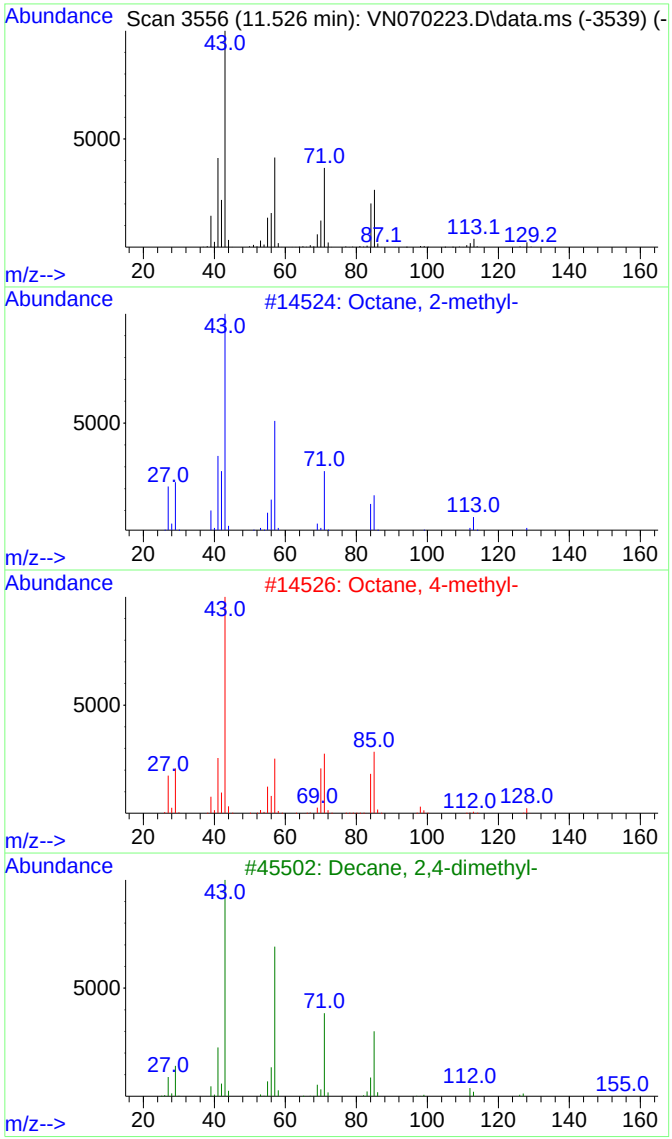
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

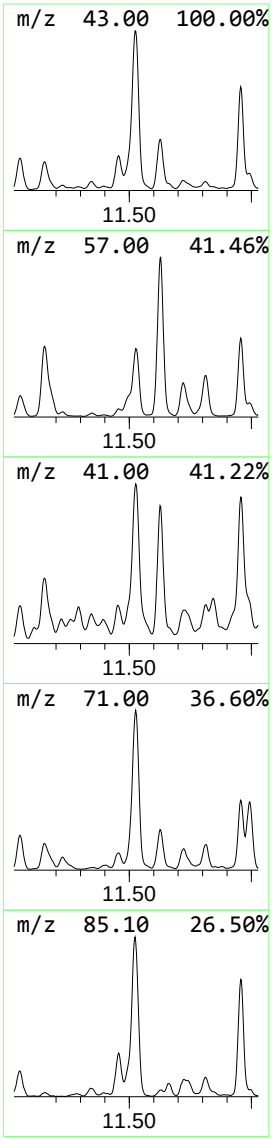
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Octane, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.527 | 26.40 ug/l | 5079540 | Chlorobenzene-d5 | 11.744 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 72 |
| 2 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 64 |
| 3 | Decane, 2,4-dimethyl- | 170 | C12H26 | 002801-84-5 | 53 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 53 |
| 5 | Ether, hexyl pentyl | 172 | C11H24O | 032357-83-8 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

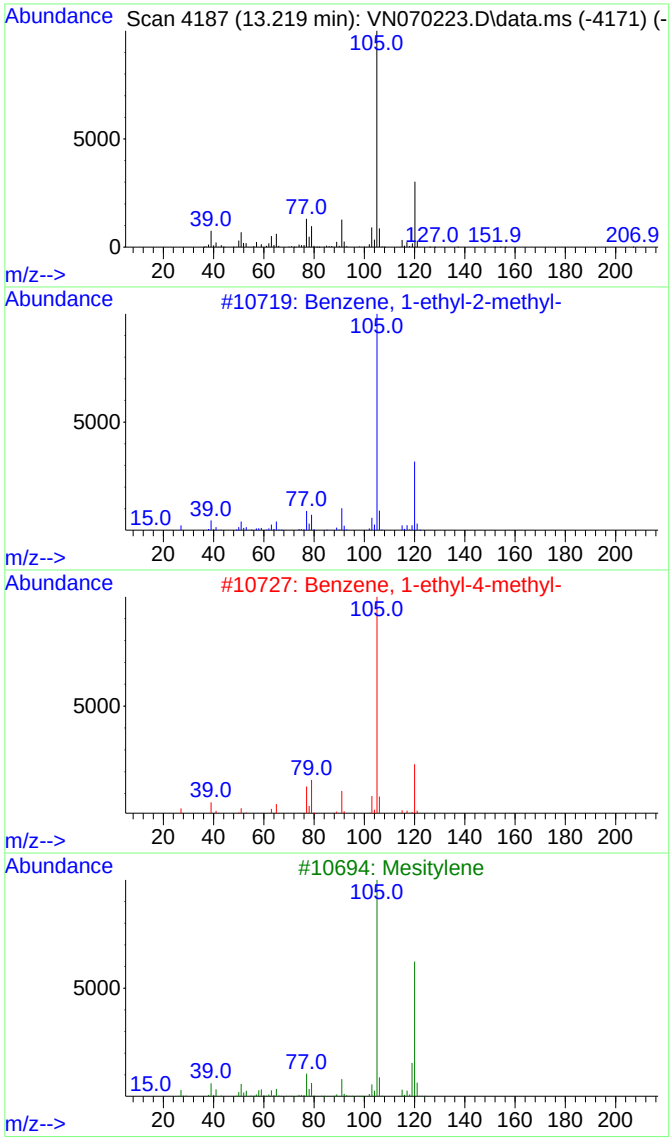
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

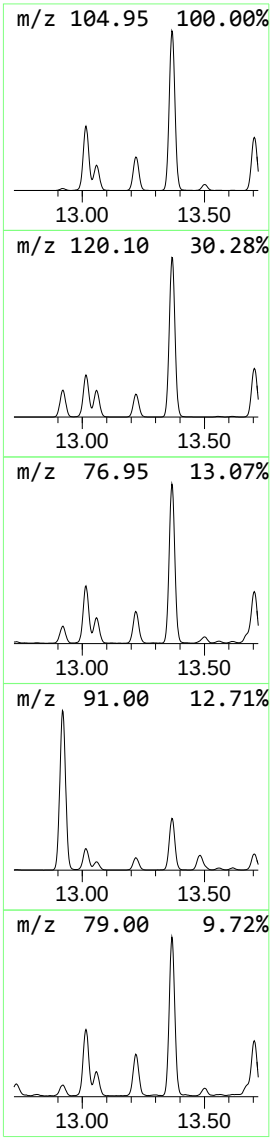
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.219 | 32.42 ug/l | 5337090 | 1,4-Dichlorobenzene-d4 | 13.675 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

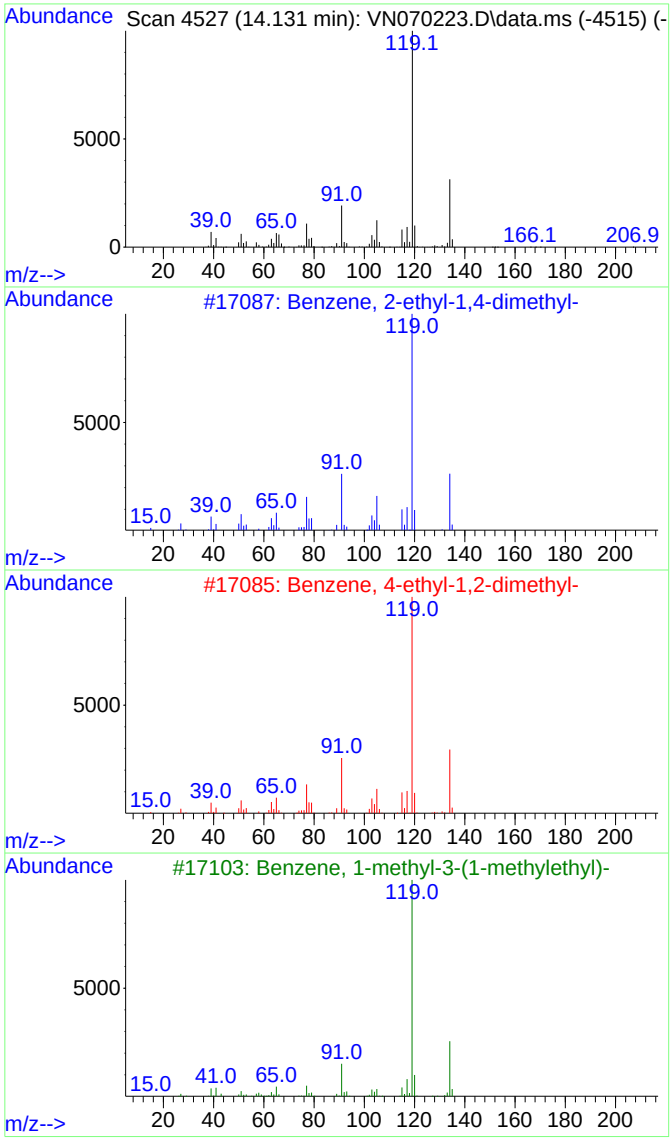
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

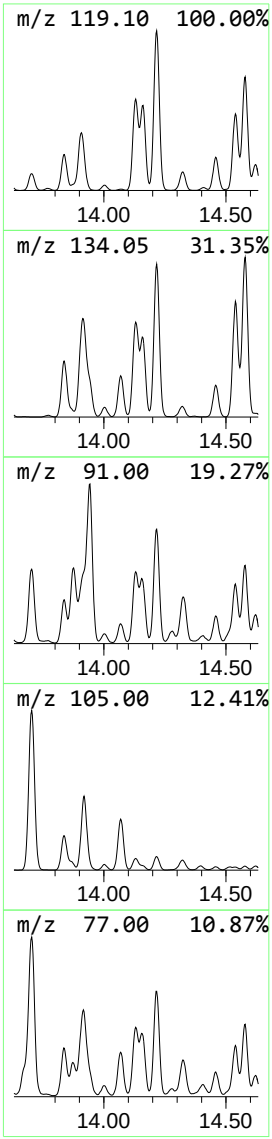
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.131 | 24.50 ug/l | 4033220 | 1,4-Dichlorobenzene-d4 | 13.675 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 95 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

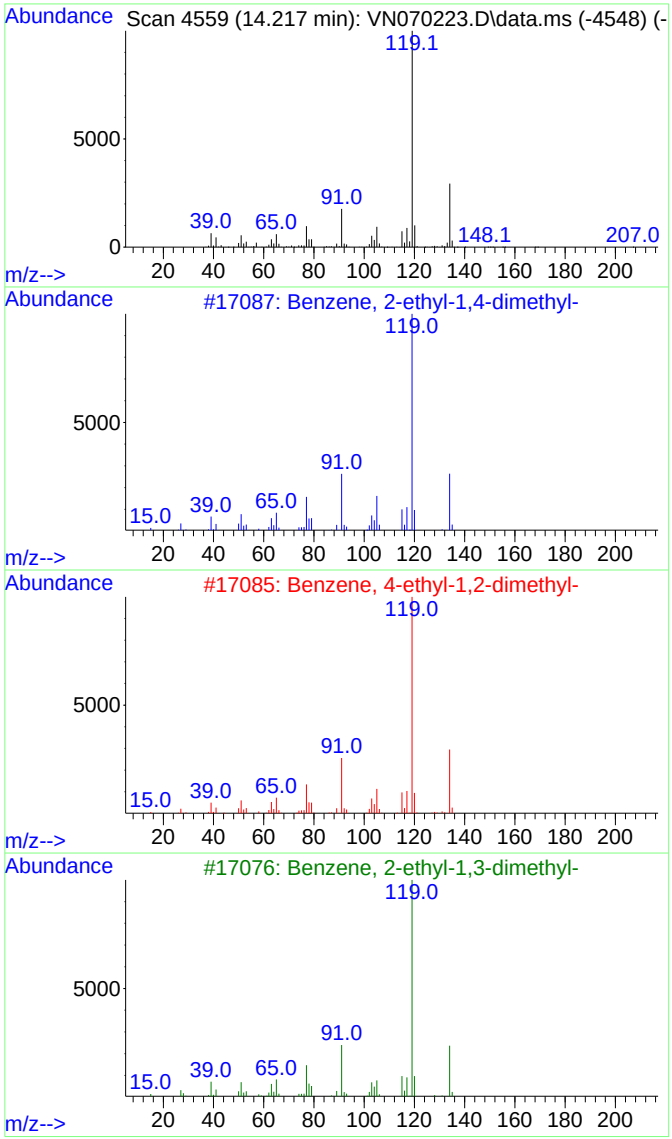
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

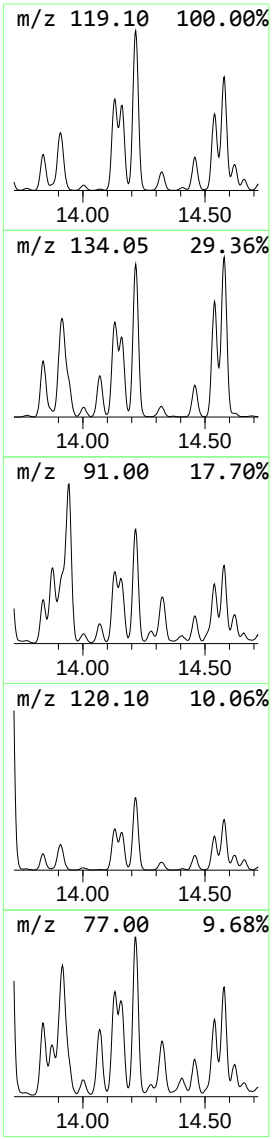
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.217 | 38.13 ug/l | 6278130 | 1,4-Dichlorobenzene-d4 | 13.675 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 3 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

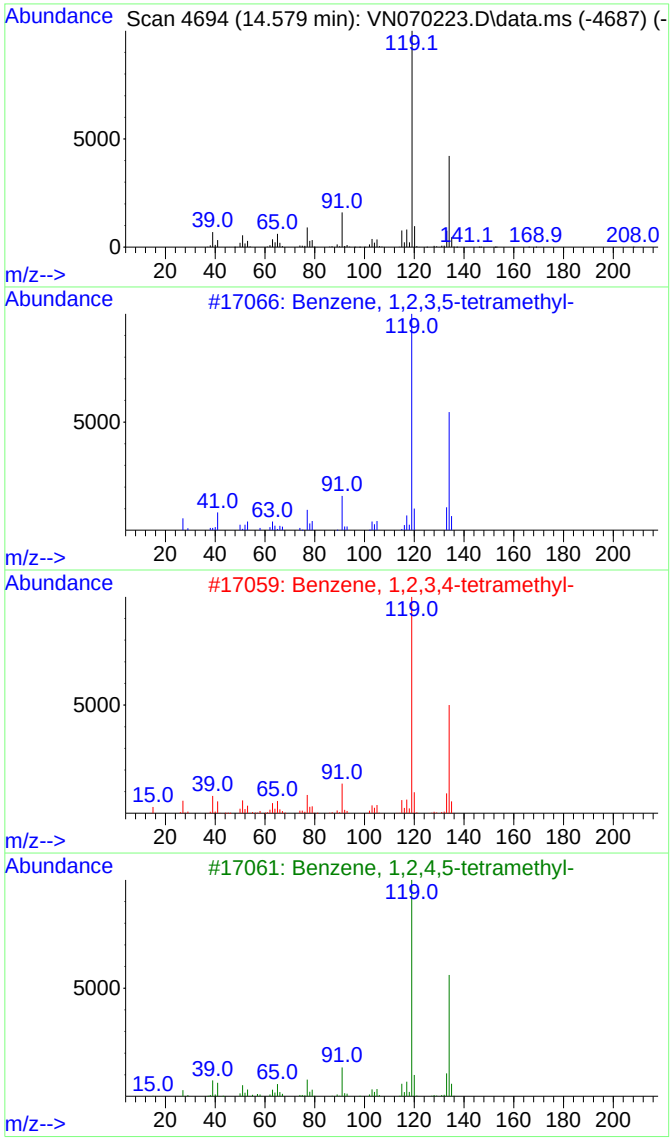
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

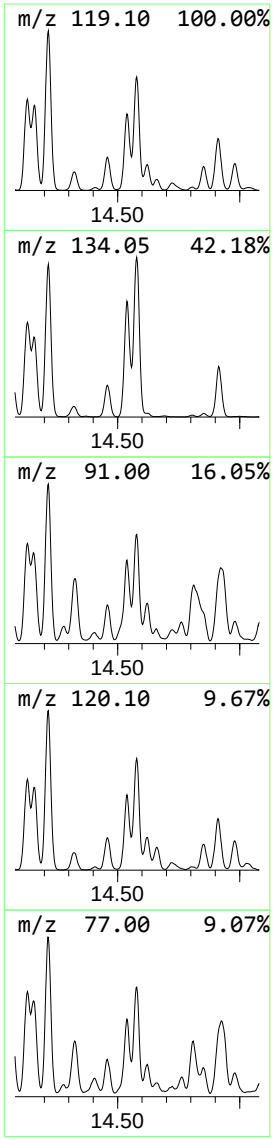
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.579 | 22.66 ug/l | 3730140 | 1,4-Dichlorobenzene-d4 | 13.675 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 97 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 94 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

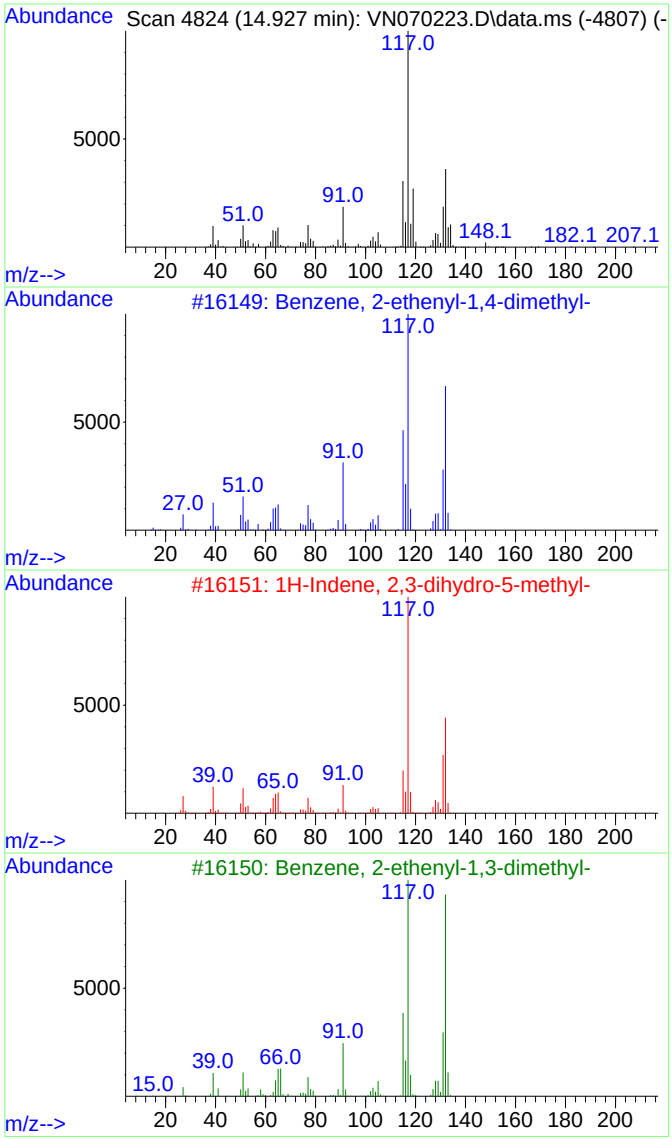
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

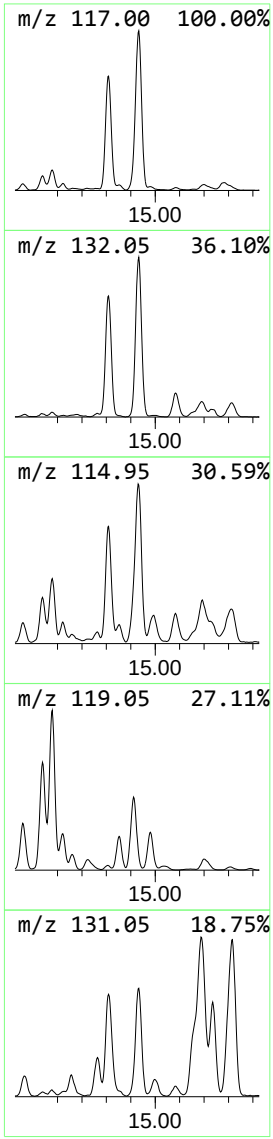
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.927 | 40.84 ug/l | 6724550 | 1,4-Dichlorobenzene-d4 | 13.675 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 96 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 93 |
| 3 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 81 |
| 4 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 81 |
| 5 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 81 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

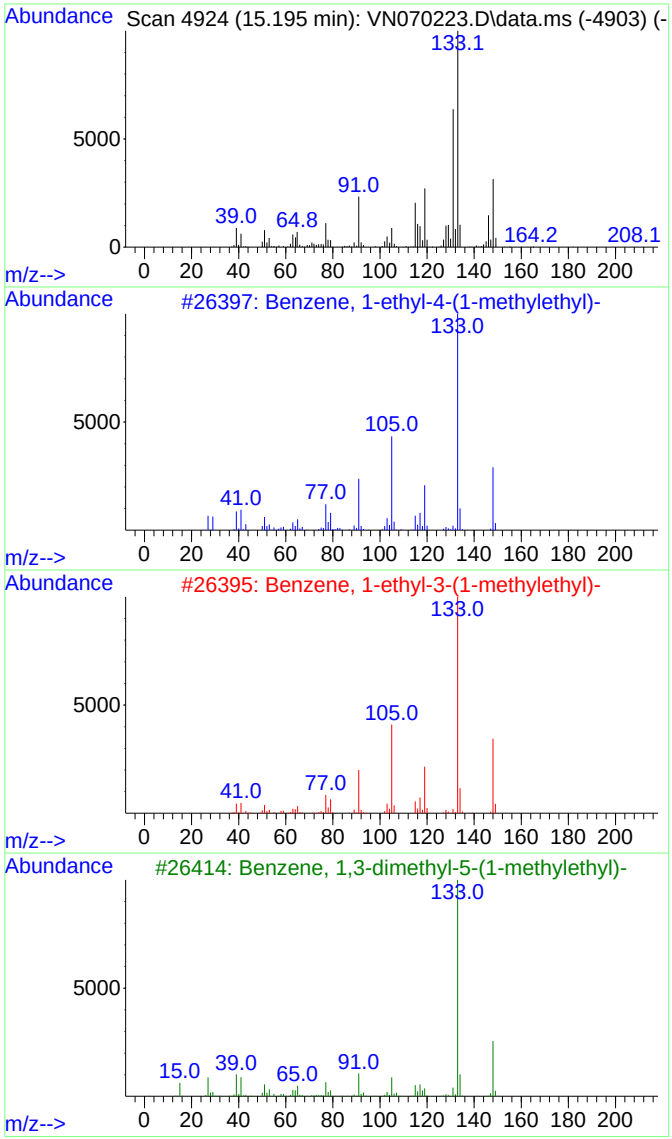
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

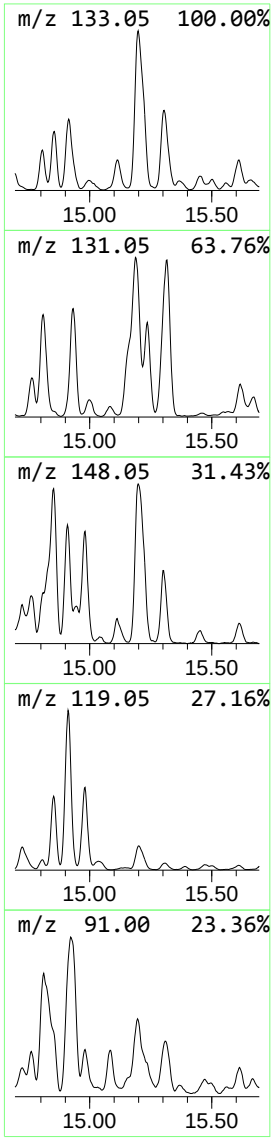
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.195 | 22.15 ug/l | 3646450 | 1,4-Dichlorobenzene-d4 | 13.675 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 64 |
| 2 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 58 |
| 3 | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16 | 004706-90-5 | 49 |
| 4 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 49 |
| 5 | Benzene, 2,4-dimethyl-1-(1-methy... | 148 | C11H16 | 004706-89-2 | 46 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121821\
Data File : VN070223.D
Acq On : 18 Dec 2021 19:26
Operator : JC/MD
Sample : M5044-14 10X
Misc : 6.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
DA-14-4.5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Pentane, 2-methyl- | 5.138 | 24.6 | ug/l | 3863930 | 1 | 8.086 | 7854960 | 50.0 |
| Pentane, 2,3-di... | 8.171 | 28.2 | ug/l | 4435690 | 1 | 8.086 | 7854960 | 50.0 |
| Hexane, 3-methyl- | 8.295 | 27.8 | ug/l | 4362430 | 1 | 8.086 | 7854960 | 50.0 |
| Butane, 2,2,3,3... | 8.614 | 91.4 | ug/l | 13284000 | 2 | 8.968 | 7266110 | 50.0 |
| Pentane, 2,3,4-... | 9.882 | 40.3 | ug/l | 5854950 | 2 | 8.968 | 7266110 | 50.0 |
| Pentane, 2,3,3-... | 10.014 | 58.3 | ug/l | 8478210 | 2 | 8.968 | 7266110 | 50.0 |
| Heptane, 3-methyl- | 10.215 | 33.8 | ug/l | 4905790 | 2 | 8.968 | 7266110 | 50.0 |
| Octane, 2-methyl- | 11.527 | 26.4 | ug/l | 5079540 | 3 | 11.744 | 9621360 | 50.0 |
| Benzene, 1-ethy... | 13.219 | 32.4 | ug/l | 5337090 | 4 | 13.675 | 8231820 | 50.0 |
| Benzene, 2-ethy... | 14.131 | 24.5 | ug/l | 4033220 | 4 | 13.675 | 8231820 | 50.0 |
| Benzene, 4-ethy... | 14.217 | 38.1 | ug/l | 6278130 | 4 | 13.675 | 8231820 | 50.0 |
| Benzene, 1,2,3,... | 14.579 | 22.7 | ug/l | 3730140 | 4 | 13.675 | 8231820 | 50.0 |
| Benzene, 2-ethe... | 14.927 | 40.8 | ug/l | 6724550 | 4 | 13.675 | 8231820 | 50.0 |
| Benzene, 1-ethy... | 15.195 | 22.1 | ug/l | 3646450 | 4 | 13.675 | 8231820 | 50.0 |