LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

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_X\METHOD\82X042919W.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 | 5.500 | 697 | 713 | 727 | rBV | 106921 | 306148 | 6.30% | 0.546% |
| 2 | 5.665 | 727 | 740 | 753 | rVV | 185962 | 530054 | 10.90% | 0.945% |
| 3 | 6.061 | 792 | 805 | 820 | rBV | 133015 | 352086 | 7.24% | 0.628% |
| 4 | 6.860 | 926 | 936 | 949 | rBV | 309090 | 728941 | 15.00% | 1.300% |
| 5 | 8.664 | 1225 | 1232 | 1235 | rBV | 83352 | 148588 | 3.06% | 0.265% |
| 6 | 8.713 | 1235 | 1240 | 1254 | rVB | 679517 | 1083947 | 22.30% | 1.933% |
| 7 | 9.042 | 1287 | 1294 | 1304 | rVB | 116993 | 200237 | 4.12% | 0.357% |
| 8 | 9.164 | 1304 | 1314 | 1319 | rBV | 63814 | 104623 | 2.15% | 0.187% |
| 9 | 9.347 | 1338 | 1344 | 1350 | rVB | 53638 | 90849 | 1.87% | 0.162% |
| 10 | 9.445 | 1350 | 1360 | 1369 | rBV | 168418 | 285746 | 5.88% | 0.509% |
| 11 | 9.561 | 1373 | 1379 | 1385 | rBV2 | 201777 | 445194 | 9.16% | 0.794% |
| 12 | 9.622 | 1385 | 1389 | 1393 | rVV | 402391 | 583919 | 12.01% | 1.041% |
| 13 | 9.676 | 1393 | 1398 | 1402 | rVV | 519448 | 797343 | 16.40% | 1.422% |
| 14 | 9.719 | 1402 | 1405 | 1408 | rVV | 115219 | 190032 | 3.91% | 0.339% |
| 15 | 9.750 | 1408 | 1410 | 1414 | rVV2 | 53588 | 67800 | 1.39% | 0.121% |
| 16 | 9.817 | 1414 | 1421 | 1425 | rVV2 | 83622 | 140965 | 2.90% | 0.251% |
| 17 | 9.890 | 1425 | 1433 | 1440 | rVV4 | 465525 | 1157096 | 23.80% | 2.063% |
| 18 | 9.957 | 1440 | 1444 | 1448 | rVB | 266222 | 360476 | 7.42% | 0.643% |
| 19 | 10.060 | 1455 | 1461 | 1465 | rBV | 439757 | 641086 | 13.19% | 1.143% |
| 20 | 10.109 | 1465 | 1469 | 1474 | rVV | 670289 | 927095 | 19.07% | 1.653% |
| 21 | 10.182 | 1474 | 1481 | 1485 | rVV4 | 158997 | 337085 | 6.93% | 0.601% |
| 22 | 10.237 | 1485 | 1490 | 1496 | rVV2 | 273708 | 485600 | 9.99% | 0.866% |
| 23 | 10.335 | 1496 | 1506 | 1508 | rVV2 | 479305 | 943899 | 19.42% | 1.683% |
| 24 | 10.377 | 1508 | 1513 | 1516 | rVV | 1028537 | 1793200 | 36.89% | 3.197% |
| 25 | 10.408 | 1516 | 1518 | 1530 | rVB | 613993 | 1013413 | 20.85% | 1.807% |
| 26 | 10.512 | 1530 | 1535 | 1540 | rBV | 378849 | 548347 | 11.28% | 0.978% |
| 27 | 10.585 | 1540 | 1547 | 1549 | rBV2 | 94817 | 131505 | 2.71% | 0.234% |
| 28 | 10.640 | 1549 | 1556 | 1564 | rVV3 | 1266493 | 2607574 | 53.64% | 4.649% |
| 29 | 10.725 | 1564 | 1570 | 1574 | rVV2 | 499978 | 1003313 | 20.64% | 1.789% |
| 30 | 10.768 | 1574 | 1577 | 1580 | rVV2 | 199512 | 283397 | 5.83% | 0.505% |
| 31 | 10.835 | 1580 | 1588 | 1592 | rVV2 | 2107032 | 3394073 | 69.82% | 6.052% |
| 32 | 10.908 | 1592 | 1600 | 1604 | rVV2 | 1926395 | 3279151 | 67.46% | 5.847% |
| 33 | 10.944 | 1604 | 1606 | 1612 | rVV | 767832 | 1105445 | 22.74% | 1.971% |
| 34 | 11.018 | 1612 | 1618 | 1621 | rVV2 | 420760 | 766697 | 15.77% | 1.367% |

LSC Area Percent Report

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Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

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_X\METHOD\82X042919W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.060 | 1621 | 1625 | 1626 | rVV3 | 372601 | 543962 | 11.19% | 0.970% |
| 36 | 11.079 | 1626 | 1628 | 1632 | rVV2 | 500650 | 756124 | 15.55% | 1.348% |
| 37 | 11.133 | 1632 | 1637 | 1642 | rVV | 1068677 | 1498789 | 30.83% | 2.672% |
| 38 | 11.182 | 1642 | 1645 | 1648 | rVV | 334922 | 390308 | 8.03% | 0.696% |
| 39 | 11.219 | 1648 | 1651 | 1652 | rVV | 122124 | 135262 | 2.78% | 0.241% |
| 40 | 11.274 | 1652 | 1660 | 1669 | rVV3 | 955086 | 1684399 | 34.65% | 3.003% |
| 41 | 11.359 | 1669 | 1674 | 1677 | rVV | 653624 | 843358 | 17.35% | 1.504% |
| 42 | 11.389 | 1677 | 1679 | 1684 | rVV2 | 286311 | 510590 | 10.50% | 0.910% |
| 43 | 11.444 | 1684 | 1688 | 1691 | rVV2 | 489105 | 838362 | 17.25% | 1.495% |
| 44 | 11.481 | 1691 | 1694 | 1699 | rVV | 662186 | 1011939 | 20.82% | 1.804% |
| 45 | 11.530 | 1699 | 1702 | 1707 | rVV3 | 370709 | 614937 | 12.65% | 1.096% |
| 46 | 11.578 | 1707 | 1710 | 1715 | rVB5 | 128482 | 173220 | 3.56% | 0.309% |
| 47 | 11.627 | 1715 | 1718 | 1720 | rBV | 87652 | 105873 | 2.18% | 0.189% |
| 48 | 11.682 | 1720 | 1727 | 1732 | rVB5 | 316980 | 696391 | 14.33% | 1.242% |
| 49 | 11.737 | 1732 | 1736 | 1738 | rBV2 | 218213 | 292763 | 6.02% | 0.522% |
| 50 | 11.767 | 1738 | 1741 | 1744 | rVV | 1008881 | 1212997 | 24.95% | 2.163% |
| 51 | 11.804 | 1744 | 1747 | 1757 | rVB | 3710322 | 4861006 | 100.00% | 8.667% |
| 52 | 11.889 | 1757 | 1761 | 1763 | rBV | 181681 | 264137 | 5.43% | 0.471% |
| 53 | 11.920 | 1763 | 1766 | 1767 | rVV | 246008 | 305239 | 6.28% | 0.544% |
| 54 | 11.944 | 1767 | 1770 | 1775 | rVV | 585803 | 817188 | 16.81% | 1.457% |
| 55 | 11.999 | 1775 | 1779 | 1782 | rVV | 477046 | 648368 | 13.34% | 1.156% |
| 56 | 12.024 | 1782 | 1783 | 1787 | rVV2 | 131229 | 136581 | 2.81% | 0.244% |
| 57 | 12.078 | 1787 | 1792 | 1797 | rVB2 | 753570 | 1134554 | 23.34% | 2.023% |
| 58 | 12.139 | 1797 | 1802 | 1805 | rBV2 | 214447 | 341297 | 7.02% | 0.609% |
| 59 | 12.298 | 1823 | 1828 | 1833 | rBV | 473581 | 641753 | 13.20% | 1.144% |
| 60 | 12.365 | 1834 | 1839 | 1846 | rVV2 | 684728 | 1251638 | 25.75% | 2.232% |
| 61 | 12.456 | 1846 | 1854 | 1861 | rVV3 | 228928 | 706305 | 14.53% | 1.259% |
| 62 | 12.523 | 1861 | 1865 | 1870 | rVV4 | 189341 | 383145 | 7.88% | 0.683% |
| 63 | 12.584 | 1870 | 1875 | 1877 | rVV | 481095 | 698203 | 14.36% | 1.245% |
| 64 | 12.609 | 1877 | 1879 | 1885 | rVV | 647812 | 938708 | 19.31% | 1.674% |
| 65 | 12.664 | 1885 | 1888 | 1892 | rVV | 587197 | 805630 | 16.57% | 1.436% |
| 66 | 12.694 | 1892 | 1893 | 1897 | rVV | 145122 | 168520 | 3.47% | 0.300% |
| 67 | 12.755 | 1897 | 1903 | 1911 | rVV5 | 253309 | 769006 | 15.82% | 1.371% |
| 68 | 12.847 | 1915 | 1918 | 1920 | rVV3 | 117340 | 189371 | 3.90% | 0.338% |
| 69 | 12.871 | 1920 | 1922 | 1929 | rVV4 | 156366 | 327538 | 6.74% | 0.584% |
| 70 | 12.944 | 1929 | 1934 | 1936 | rVV3 | 198749 | 309428 | 6.37% | 0.552% |
| 71 | 12.975 | 1936 | 1939 | 1942 | rVV | 278140 | 367095 | 7.55% | 0.655% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

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_X\METHOD\82X042919W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.017 | 1942 | 1946 | 1952 | rVV | 405646 | 593630 | 12.21% | 1.058% |
| 73 | 13.078 | 1952 | 1956 | 1963 | rVB3 | 137601 | 221698 | 4.56% | 0.395% |
| 74 | 13.151 | 1963 | 1968 | 1972 | rBV2 | 73052 | 138406 | 2.85% | 0.247% |
| 75 | 13.194 | 1972 | 1975 | 1978 | rVV2 | 81584 | 107772 | 2.22% | 0.192% |
| 76 | 13.261 | 1982 | 1986 | 1989 | rVV2 | 61773 | 77018 | 1.58% | 0.137% |
| 77 | 13.304 | 1989 | 1993 | 1996 | rVV2 | 100736 | 125836 | 2.59% | 0.224% |
| 78 | 13.346 | 1996 | 2000 | 2006 | rVB4 | 189910 | 280831 | 5.78% | 0.501% |
| 79 | 13.426 | 2010 | 2013 | 2017 | rVV2 | 45294 | 62375 | 1.28% | 0.111% |
| 80 | 13.481 | 2018 | 2022 | 2030 | rVB6 | 56099 | 117865 | 2.42% | 0.210% |
| 81 | 13.639 | 2044 | 2048 | 2052 | rBV3 | 53688 | 97869 | 2.01% | 0.175% |
| 82 | 13.718 | 2059 | 2061 | 2067 | rVB2 | 36660 | 51420 | 1.06% | 0.092% |

Sum of corrected areas: 56083628

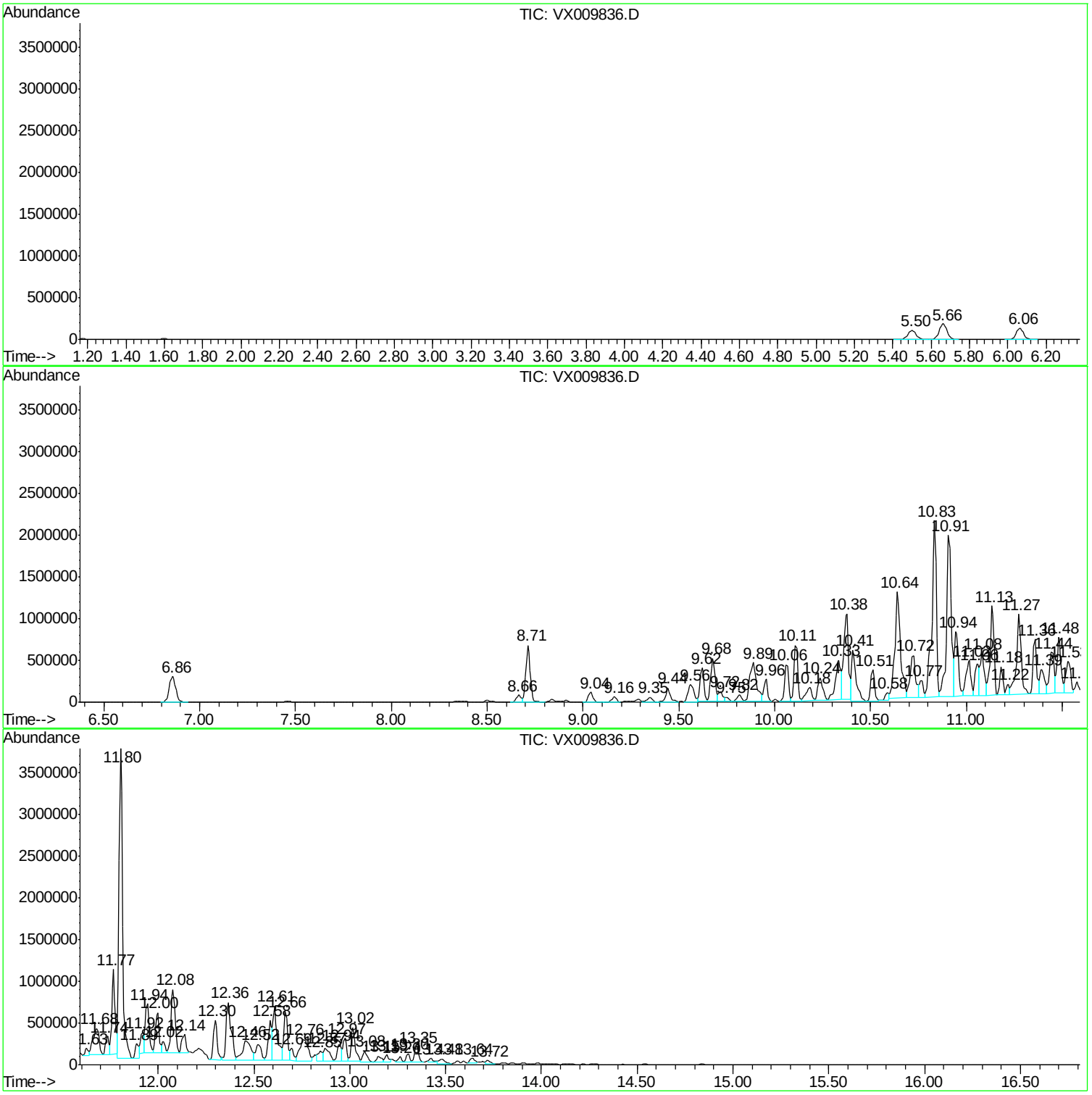
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

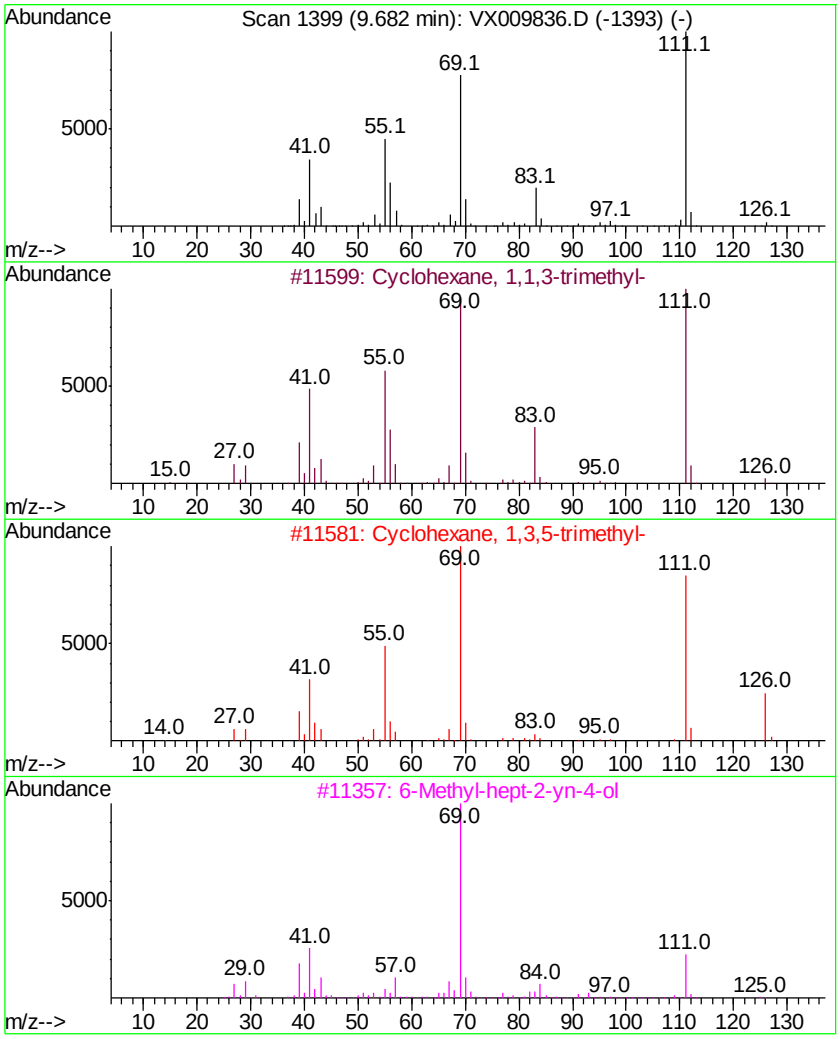
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

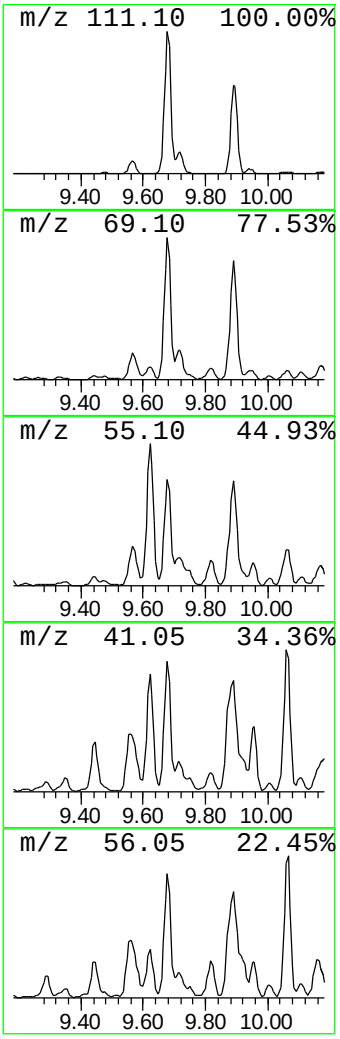
**********

Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.68 | 43.00 ug/l | 797343 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 97 |
| 2 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 72 |
| 3 | 6-Methyl-hept-2-yn-4-ol | 126 | C8H14O | 060018-69-1 | 59 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 56 |
| 5 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

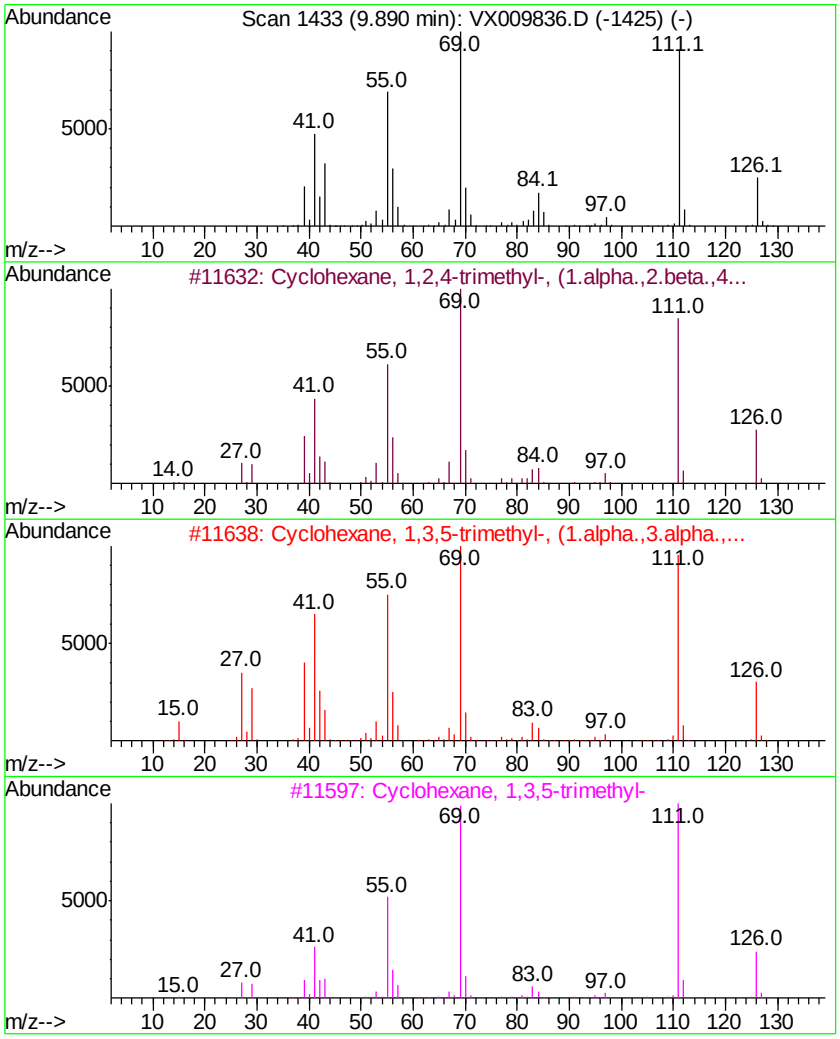
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

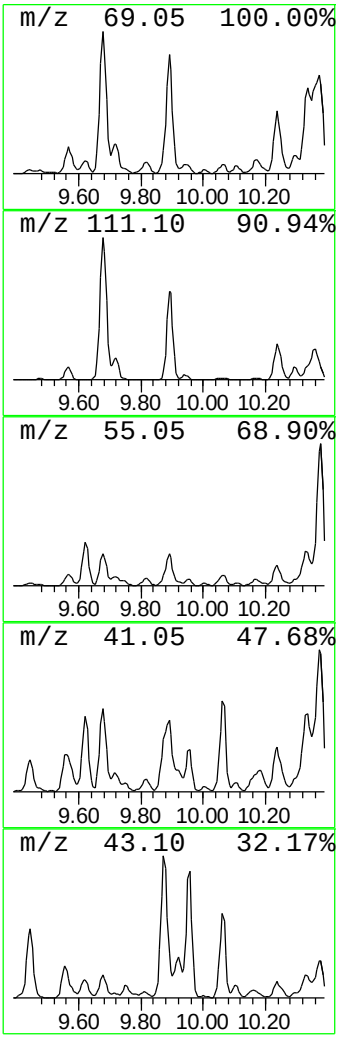
**********

Peak Number 2 Cyclohexane, 1,2,4-trimethy... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.89 | 62.40 ug/l | 1157100 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 93 |
| 2 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 90 |
| 3 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 81 |
| 4 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 76 |
| 5 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 74 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
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**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

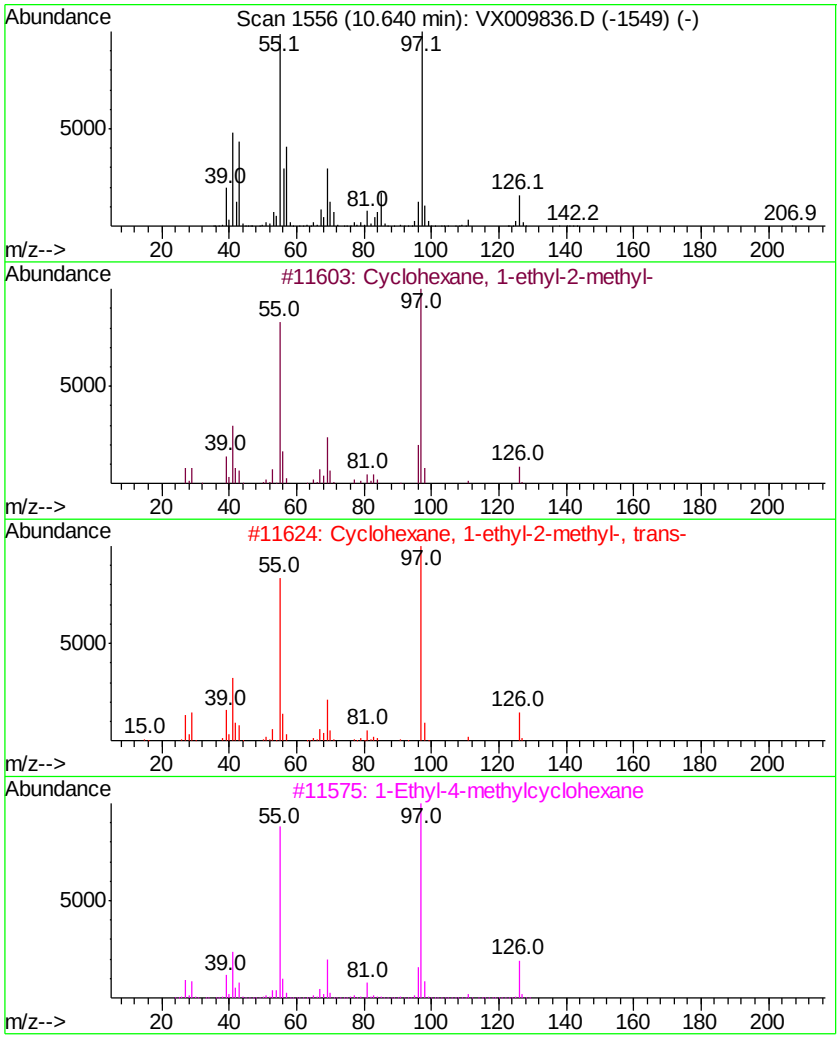
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

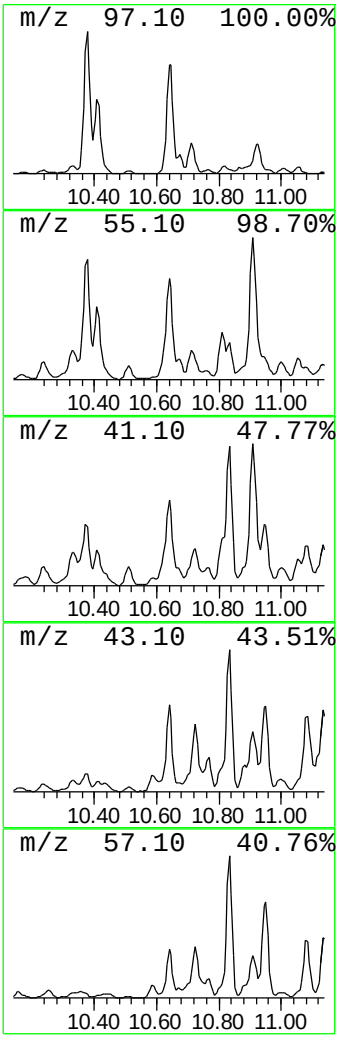
**********

Peak Number 3 Cyclohexane, 1-ethyl-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.64 | 140.63 ug/l | 2607570 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 76 |
| 2 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 76 |
| 3 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 70 |
| 4 | Sulfurous acid, cyclohexylmethyl... | 402 | C23H46O3S | 1000309-22-4 | 64 |
| 5 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-77-7 | 64 |



# Library Search Compound Report

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Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

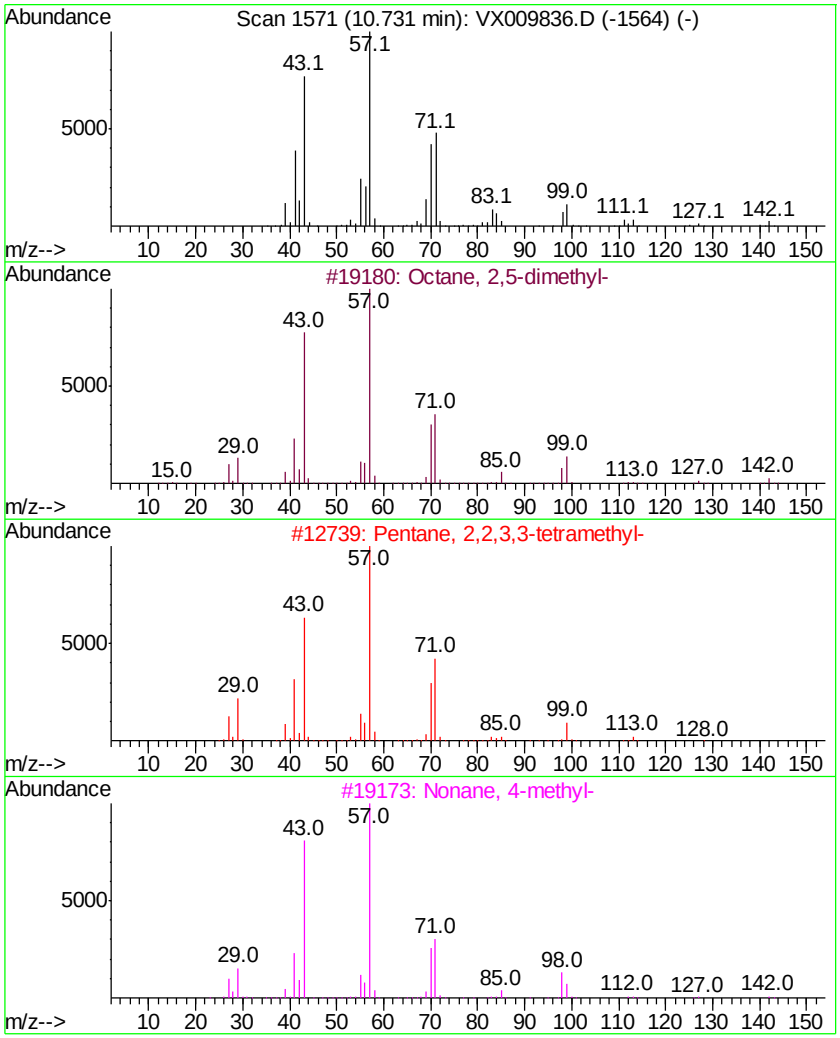
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

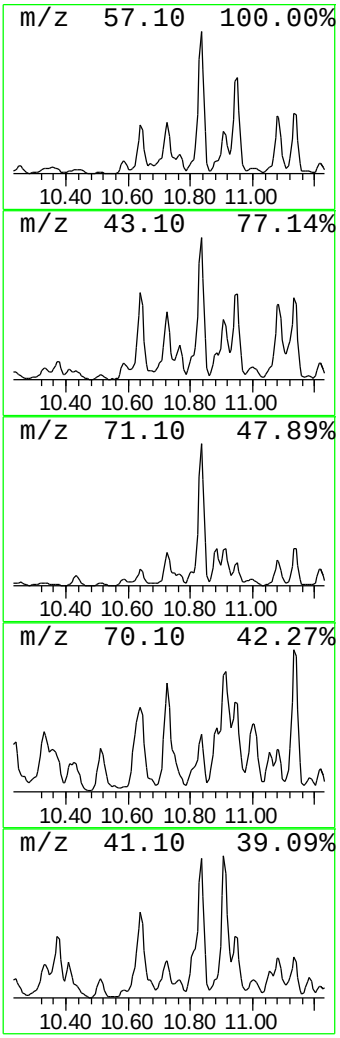
**********

Peak Number 4 Octane, 2,5-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.73 | 54.11 ug/l | 1003310 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,5-dimethyl- | 142 | C10H22 | 015869-89-3 | 83 |
| 2 | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20 | 007154-79-2 | 64 |
| 3 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 64 |
| 4 | Octane, 3,5-dimethyl- | 142 | C10H22 | 015869-93-9 | 64 |
| 5 | Heptane, 2,3,4-trimethyl- | 142 | C10H22 | 052896-95-4 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

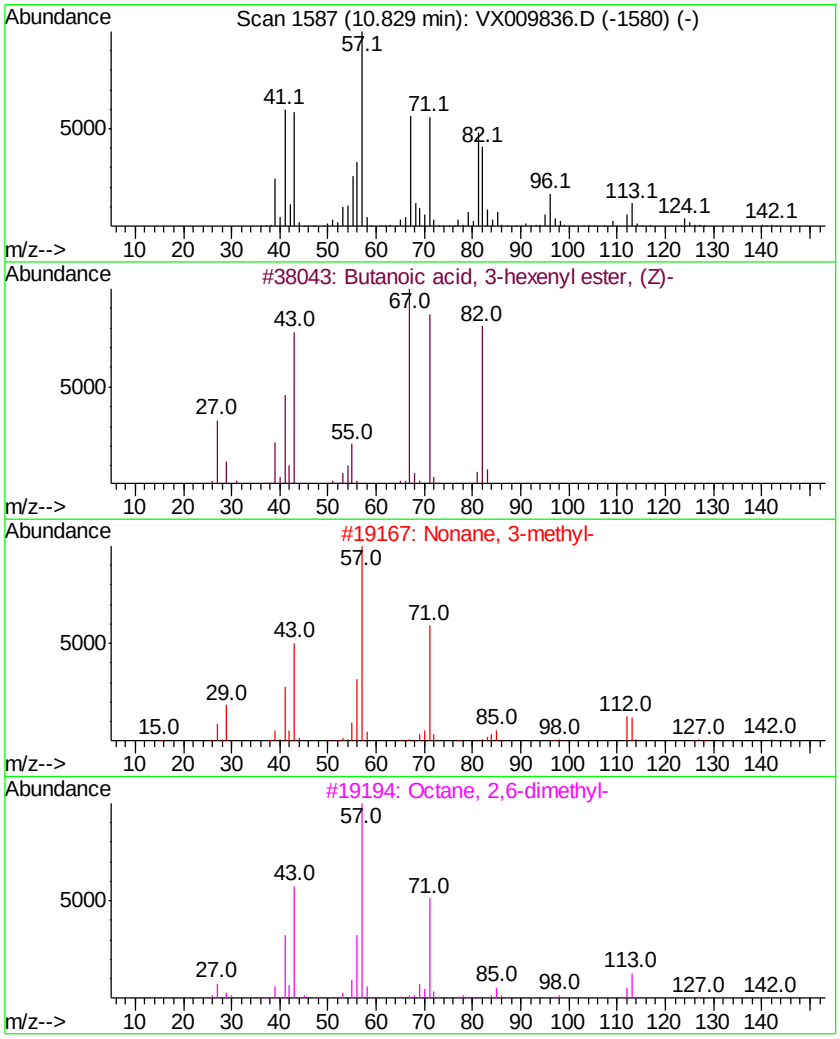
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

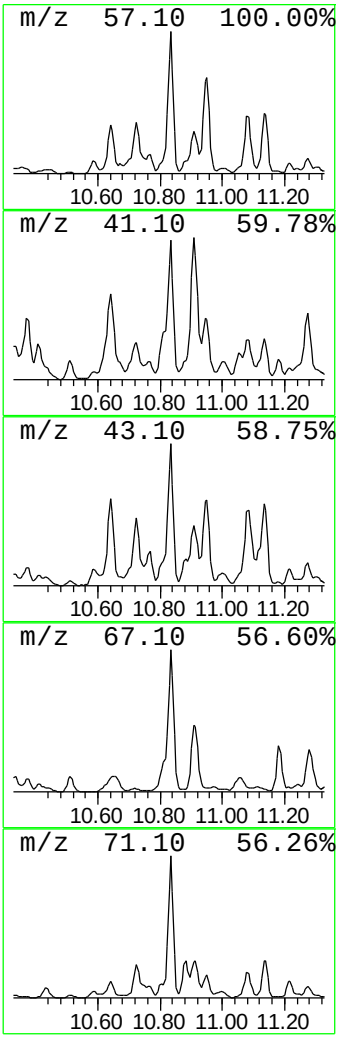
**********

Peak Number 5 unknown10.83 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.83 | 183.05 ug/l | 3394070 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 3-hexenyl ester, ... | 170 | C10H18O2 | 016491-36-4 | 47 |
| 2 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 46 |
| 3 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 46 |
| 4 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 46 |
| 5 | 3-Hexen-1-ol, propanoate, (Z)- | 156 | C9H16O2 | 033467-74-2 | 38 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

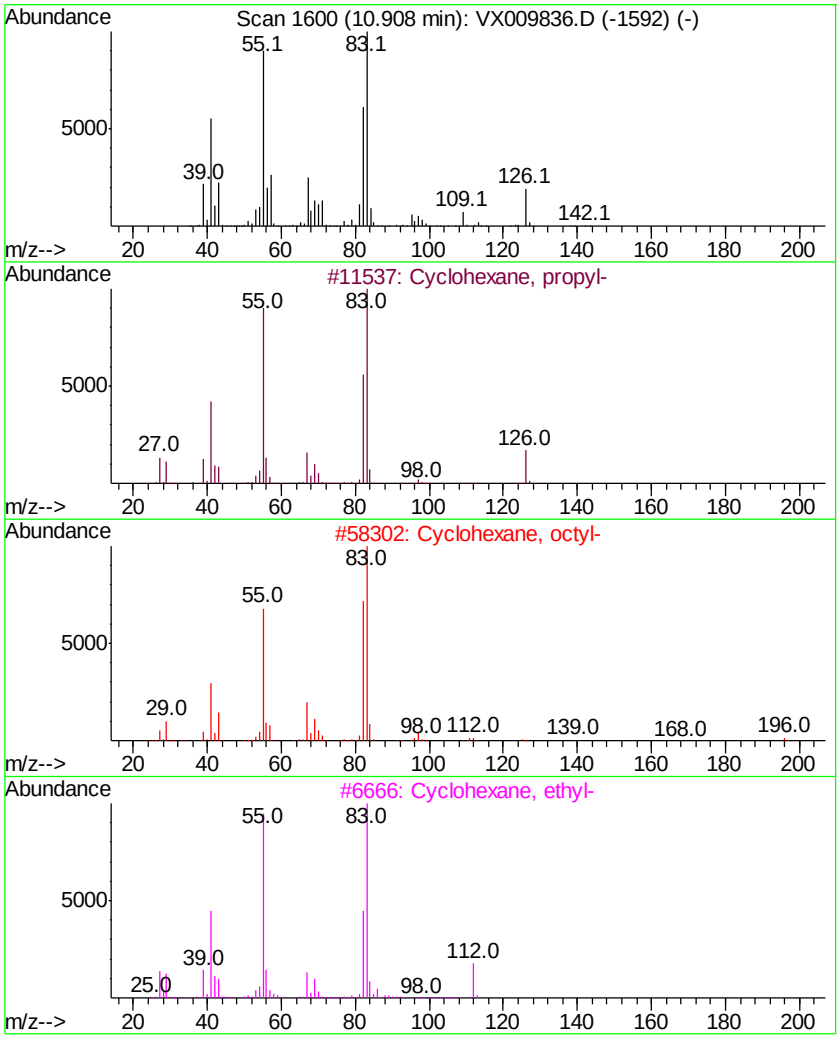
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

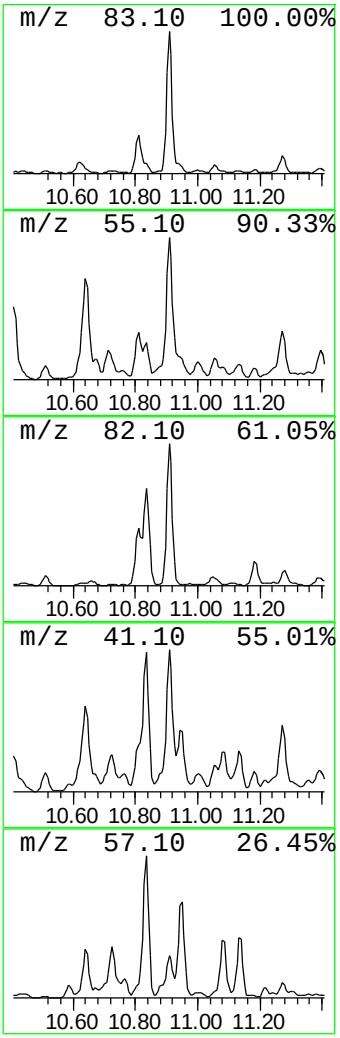
**********

Peak Number 6 Cyclohexane, propyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.91 | 176.85 ug/l | 3279150 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 90 |
| 2 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 64 |
| 3 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 64 |
| 4 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 64 |
| 5 | Acetic acid, mercapto-, cyclohex... | 174 | C8H14O2S | 016849-98-2 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

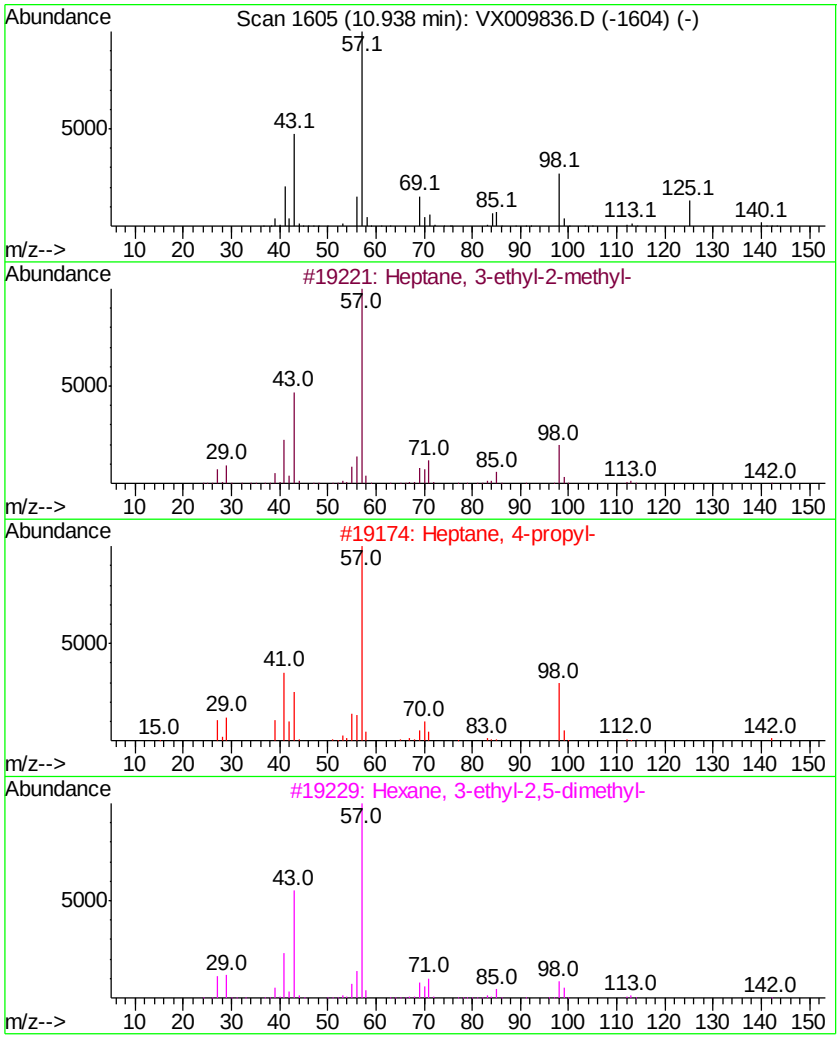
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

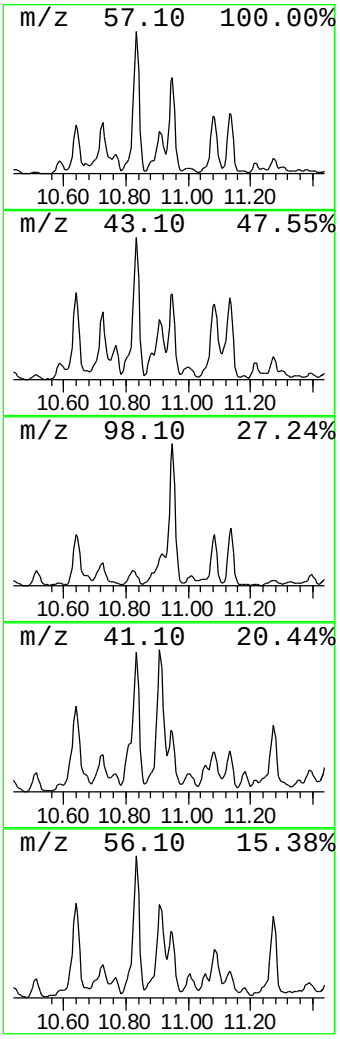
**********

Peak Number 7 Heptane, 3-ethyl-2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.94 | 59.62 ug/l | 1105450 | Chlorobenzene-d5 | 10.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 86 |
| 2 | Heptane, 4-propyl- | 142 | C10H22 | 003178-29-8 | 56 |
| 3 | Hexane, 3-ethyl-2,5-dimethyl- | 142 | C10H22 | 052897-04-8 | 53 |
| 4 | Hexane, 4-ethyl-2-methyl- | 128 | C9H20 | 003074-75-7 | 50 |
| 5 | Undecane, 6-methyl- | 170 | C12H26 | 017302-33-9 | 42 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

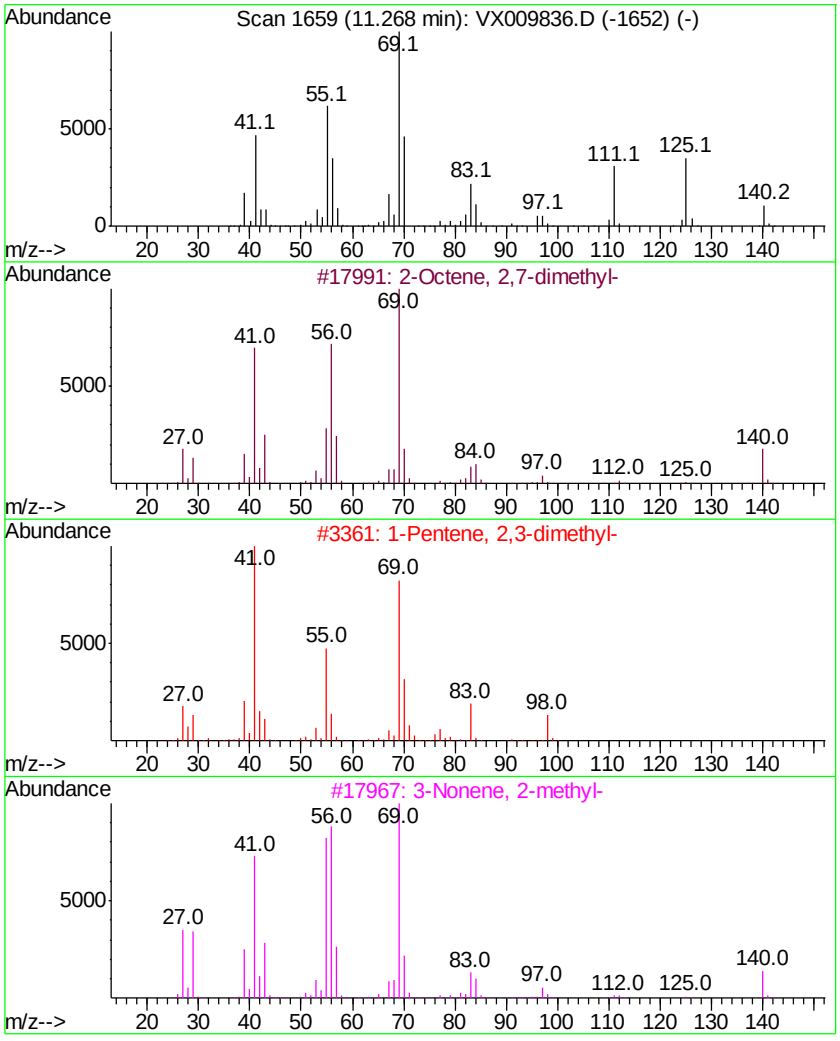
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

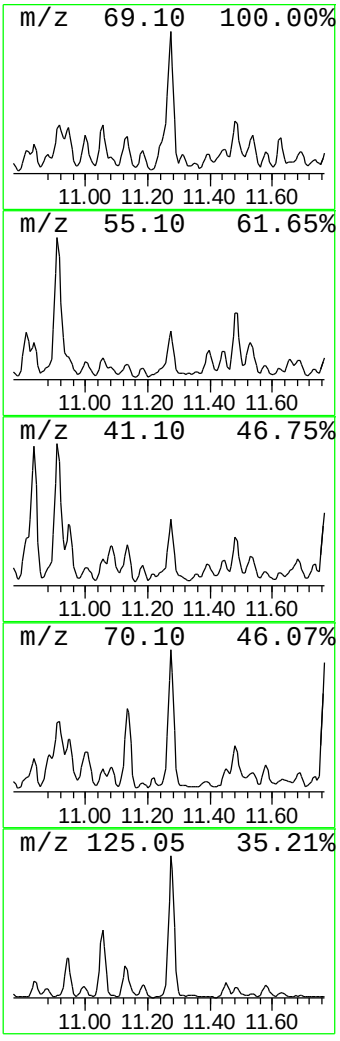
**********

Peak Number 8 unknown11.27 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.27 | 74.23 ug/l | 1684400 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Octene, 2,7-dimethyl- | 140 | C10H20 | 002050-81-9 | 45 |
| 2 | 1-Pentene, 2,3-dimethyl- | 98 | C7H14 | 003404-72-6 | 43 |
| 3 | 3-Nonene, 2-methyl- | 140 | C10H20 | 053966-53-3 | 41 |
| 4 | 2-Methyl-2-octene | 126 | C9H18 | 016993-86-5 | 38 |
| 5 | Cyclohexane, 1,1,2,3-tetramethyl- | 140 | C10H20 | 006783-92-2 | 38 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

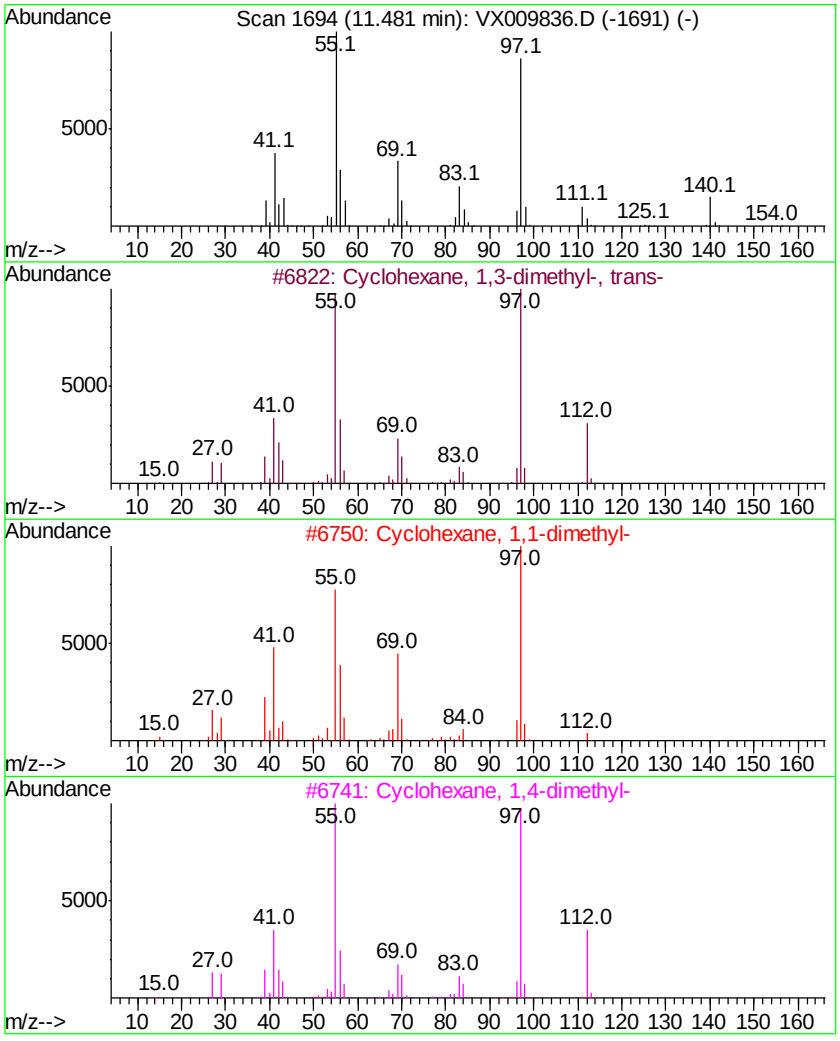
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

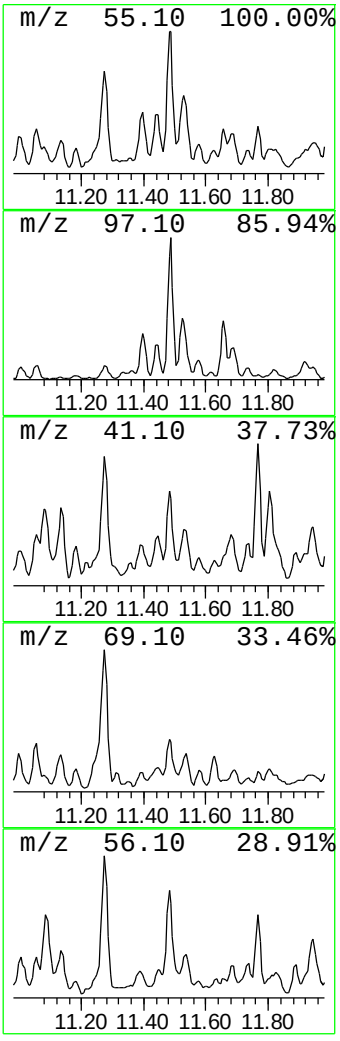
**********

Peak Number 9 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.48 | 44.60 ug/l | 1011940 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 74 |
| 2 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 70 |
| 3 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 64 |
| 4 | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-6 | 59 |
| 5 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 006069-98-3 | 58 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260

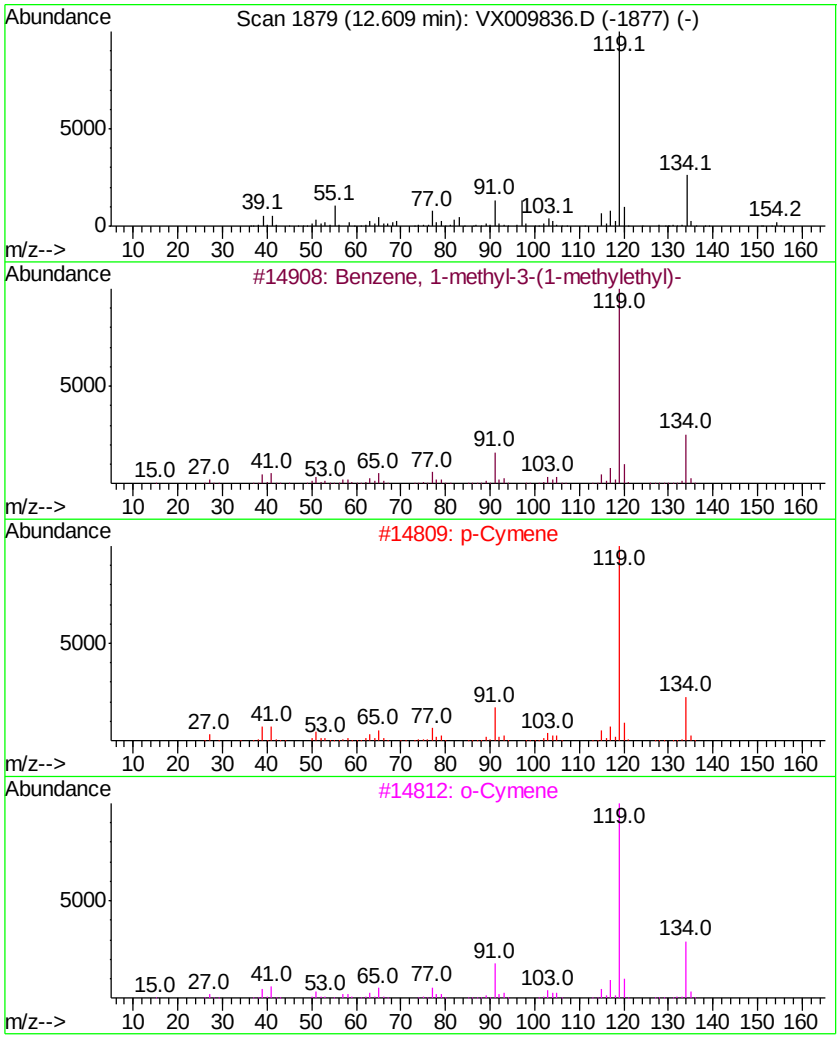
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

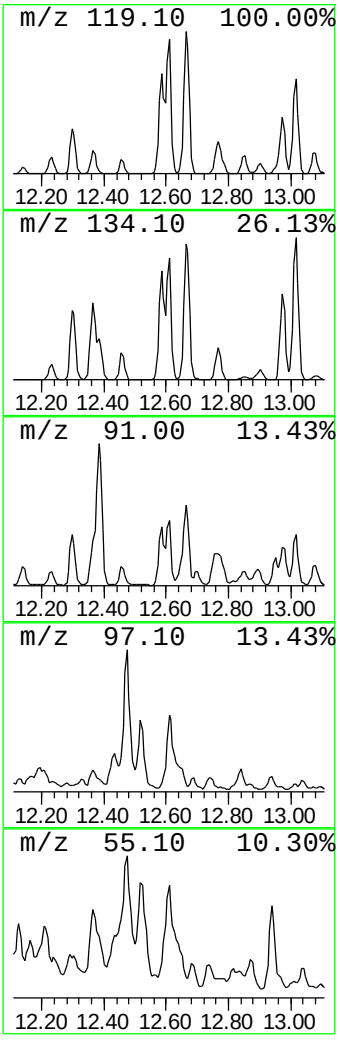
**********

Peak Number 10 Benzene, 1-methyl-3-(1-meth... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.61 | 41.37 ug/l | 938708 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 2 | p-Cymene | 134 | C10H14 | 000099-87-6 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 90 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX052219\
Data File : VX009836.D
Acq On : 23 May 2019 04:48
Operator : JC/SP
Sample : K2976-17 50X
Misc : 6.48g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** EP1-SB-SBR-2BR(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.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 |
| Cyclohexane, 1,1,... | 9.68 | 43.0 | ug/l | 797343 | 3 | 10.12 | 927095 | 50.0 |
| Cyclohexane, 1,2,... | 9.89 | 62.4 | ug/l | 1157100 | 3 | 10.12 | 927095 | 50.0 |
| Cyclohexane, 1-et... | 10.64 | 140.6 | ug/l | 2607570 | 3 | 10.12 | 927095 | 50.0 |
| Octane, 2,5-dimet... | 10.73 | 54.1 | ug/l | 1003310 | 3 | 10.12 | 927095 | 50.0 |
| unknown10.83 | 10.83 | 183.1 | ug/l | 3394070 | 3 | 10.12 | 927095 | 50.0 |
| Cyclohexane, propyl- | 10.91 | 176.8 | ug/l | 3279150 | 3 | 10.12 | 927095 | 50.0 |
| Heptane, 3-ethyl-... | 10.94 | 59.6 | ug/l | 1105450 | 3 | 10.12 | 927095 | 50.0 |
| unknown11.27 | 11.27 | 74.2 | ug/l | 1684400 | 4 | 12.08 | 1134550 | 50.0 |
| Cyclohexane, 1,3-... | 11.48 | 44.6 | ug/l | 1011940 | 4 | 12.08 | 1134550 | 50.0 |
| Benzene, 1-methyl... | 12.61 | 41.4 | ug/l | 938708 | 4 | 12.08 | 1134550 | 50.0 |