

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\  
 Data File : VW008309.D  
 Acq On : 16 Jan 2019 15:35  
 Operator : SY/VA  
 Sample : K1010-05RE  
 Misc : 5.14G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-01-011519-B

Quant Time: Jan 17 05:03:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 61524    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 115587   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 95254    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 36908    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 42543    | 61.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 123.04% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 39493    | 58.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 117.16% |      |
| 50) Toluene-d8            | 10.32  | 98  | 136527   | 48.26 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.52%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 43788    | 43.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.36%  |      |

## Target Compounds

|                                |       |     |         |           | Qvalue |     |
|--------------------------------|-------|-----|---------|-----------|--------|-----|
| 11) Tert butyl alcohol         | 5.26  | 59  | 77      | Below Cal | #      | 100 |
| 13) Acrolein                   | 3.89  | 56  | 193     | 2.712     | ug/l # | 14  |
| 16) Acetone                    | 4.12  | 43  | 9708    | 62.220    | ug/l # | 83  |
| 20) Methylene Chloride         | 4.90  | 84  | 9932    | 10.821    | ug/l   | 98  |
| 25) 2-Butanone                 | 7.17  | 43  | 890     | 4.626     | ug/l # | 82  |
| 26) 2,2-Dichloropropane        | 7.14  | 77  | 1322    | 1.435     | ug/l # | 53  |
| 29) Tetrahydrofuran            | 7.53  | 42  | 957     | 7.447     | ug/l # | 61  |
| 31) Cyclohexane                | 7.95  | 56  | 1941    | 1.334     | ug/l # | 31  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 6636    | 6.089     | ug/l # | 19  |
| 39) Methylcyclohexane          | 9.34  | 83  | 1899    | 1.258     | ug/l   | 86  |
| 49) 1,4-Dioxane                | 9.46  | 88  | 26      | 4.111     | ug/l # | 1   |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43  | 571     | 1.237     | ug/l # | 52  |
| 52) Toluene                    | 10.39 | 92  | 29035   | 14.078    | ug/l   | 100 |
| 55) 1,1,2-Trichloroethane      | 10.76 | 97  | 2050    | 3.713     | ug/l # | 22  |
| 56) Ethyl methacrylate         | 10.66 | 69  | 1080    | 1.579     | ug/l # | 19  |
| 59) 2-Hexanone                 | 11.07 | 43  | 325     | 1.041     | ug/l   | 95  |
| 67) Ethyl Benzene              | 11.73 | 91  | 169973  | 46.033    | ug/l   | 99  |
| 68) m/p-Xylenes                | 11.84 | 106 | 410238  | 291.081   | ug/l   | 98  |
| 69) o-Xylene                   | 12.17 | 106 | 264868  | 202.945   | ug/l   | 100 |
| 70) Styrene                    | 12.17 | 104 | 13772   | 6.737     | ug/l # | 1   |
| 73) Isopropylbenzene           | 12.47 | 105 | 161811  | 55.843    | ug/l   | 100 |
| 74) N-amyl acetate             | 12.26 | 43  | 43482   | 67.761    | ug/l # | 58  |
| 75) 1,1,2,2-Tetrachloroethane  | 12.70 | 83  | 2490    | 5.369     | ug/l # | 27  |
| 76) 1,2,3-Trichloropropane     | 12.80 | 75  | 3491    | 10.376    | ug/l # | 1   |
| 78) n-propylbenzene            | 12.81 | 91  | 534828  | 150.639   | ug/l   | 98  |
| 79) 2-Chlorotoluene            | 12.87 | 91  | 147183  | 74.305    | ug/l # | 42  |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105 | 650135  | 273.034   | ug/l   | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.47 | 75  | 2023    | 14.002    | ug/l # | 1   |
| 82) 4-Chlorotoluene            | 12.94 | 91  | 71021   | 34.044    | ug/l # | 44  |
| 83) tert-Butylbenzene          | 13.21 | 119 | 17062   | 8.099     | ug/l   | 95  |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105 | 2653132 | 1080.326  | ug/l   | 98  |
| 85) sec-Butylbenzene           | 13.39 | 105 | 246481  | 79.875    | ug/l   | 81  |
| 86) p-Isopropyltoluene         | 13.51 | 119 | 218960  | 82.170    | ug/l   | 97  |
| 89) n-Butylbenzene             | 13.83 | 91  | 364221  | 139.555   | ug/l # | 74  |

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Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

Quant Time: Jan 17 05:03:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration

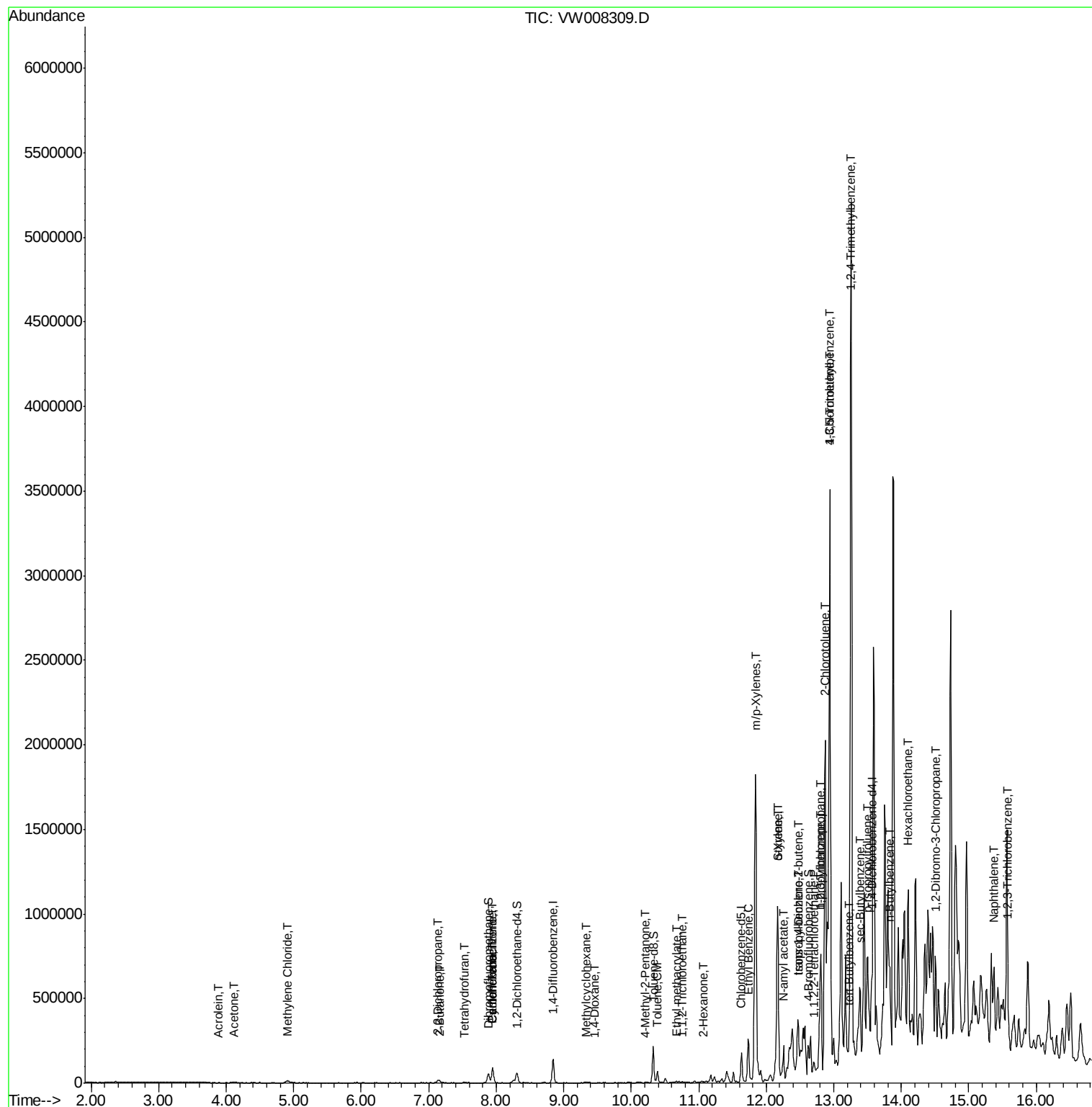
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 90) Hexachloroethane           | 14.10 | 117  | 41886    | 93.061  | ug/l # | 17       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 915      | 12.259  | ug/l # | 46       |
| 95) Naphthalene                | 15.37 | 128  | 374904   | 277.062 | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene     | 15.58 | 180  | 1372     | 2.221   | ug/l # | 47       |

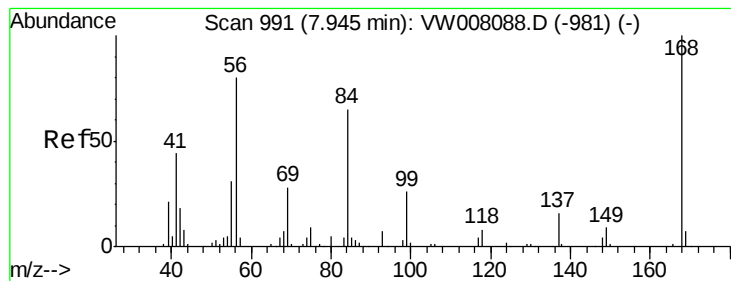
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

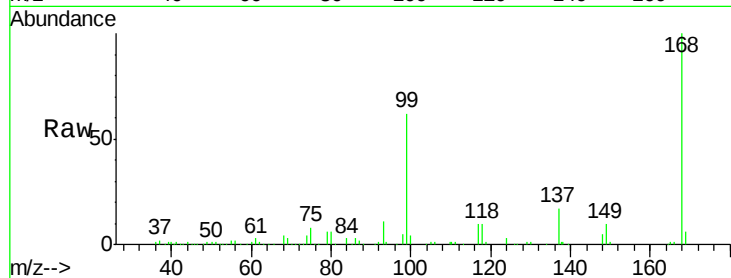
OK-01-011519-B

Tot Ion:168 Resp: 61524

Ion Ratio Lower Upper

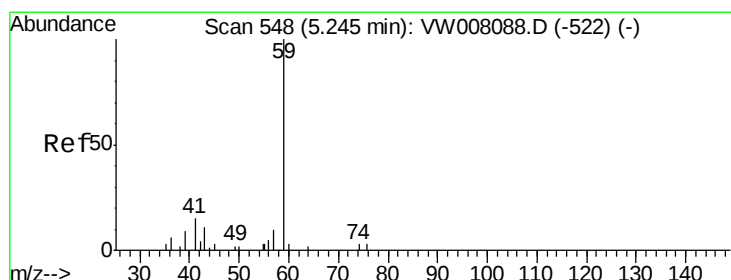
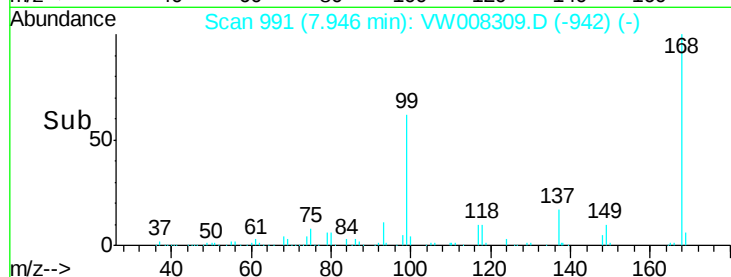
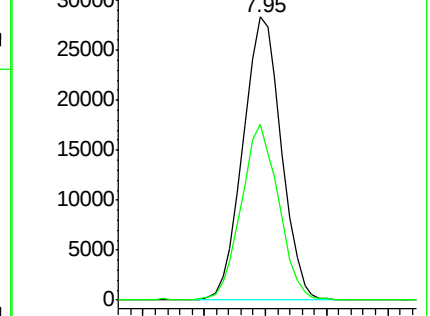
168 100

99 62.0 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.26 min Scan# 551

Delta R.T. 0.02 min

Lab File: VW008309.D

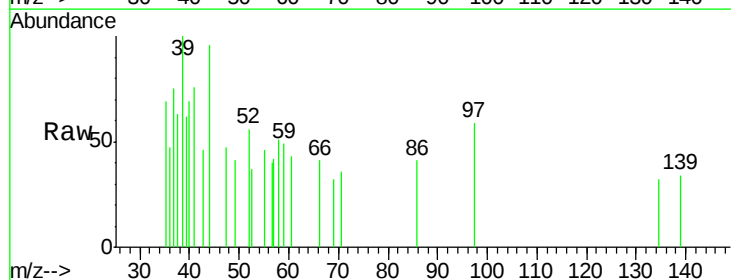
Acq: 16 Jan 2019 15:35

Tgt Ion: 59 Resp: 77

Ion Ratio Lower Upper

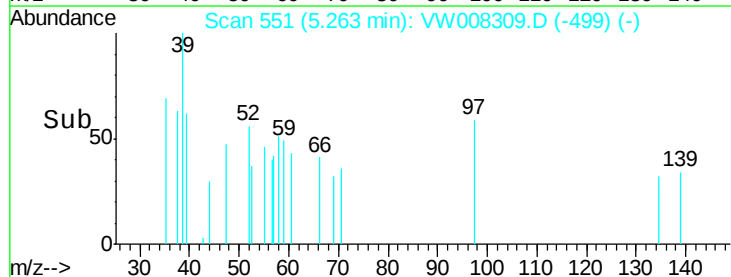
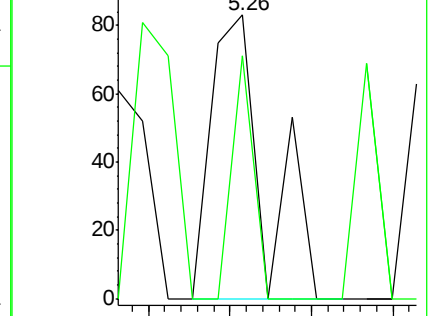
59 100

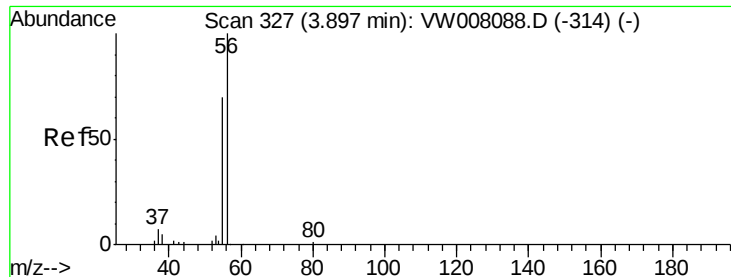
57 33.8 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 2.712 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

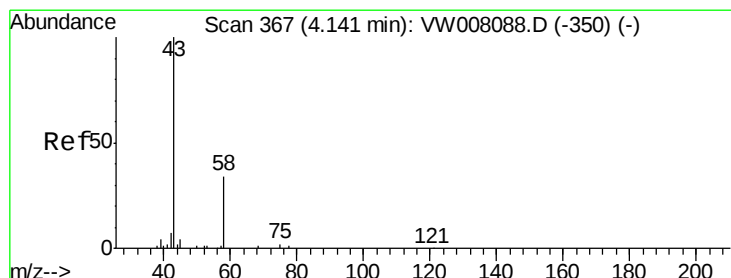
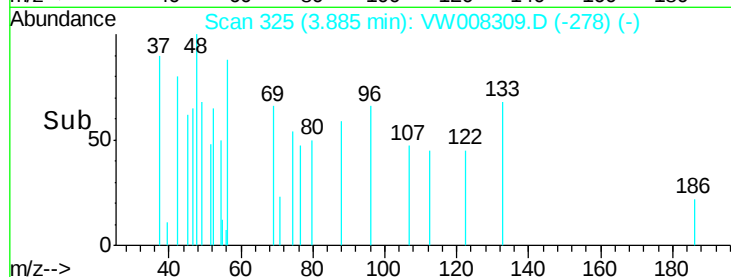
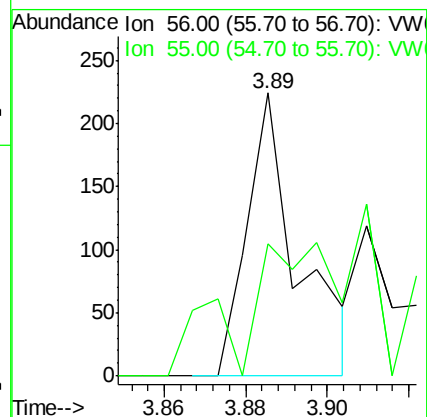
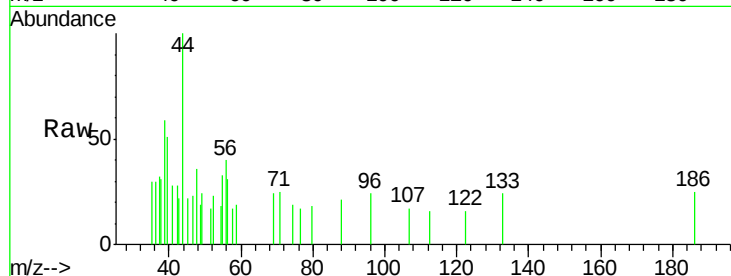
OK-01-011519-B

Tot Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



#16

Acetone

Concen: 62.220 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW008309.D

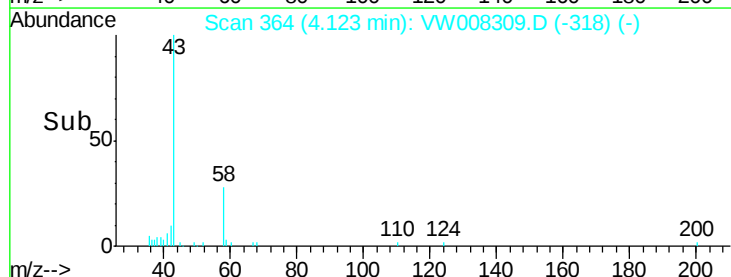
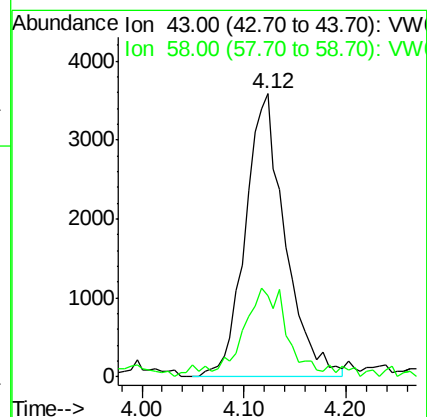
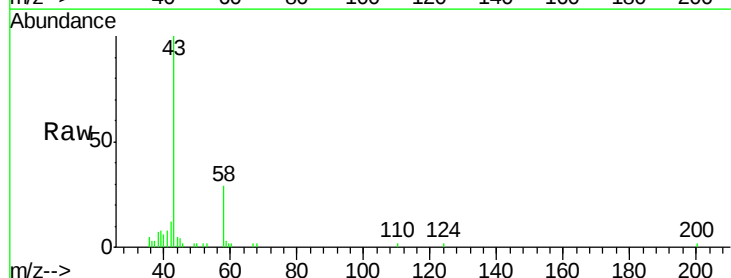
Acq: 16 Jan 2019 15:35

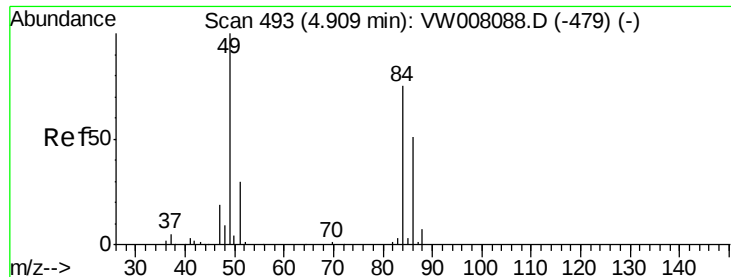
Tgt Ion: 43 Resp: 9708

Ion Ratio Lower Upper

43 100

58 24.8 27.5 41.3#

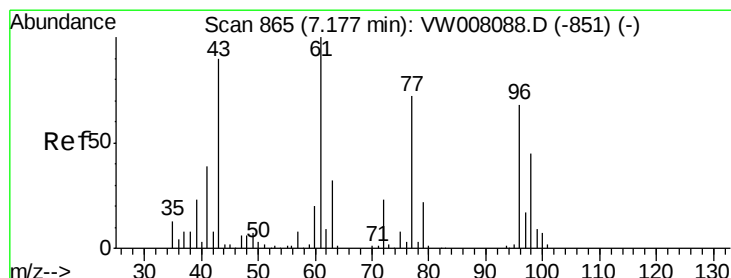
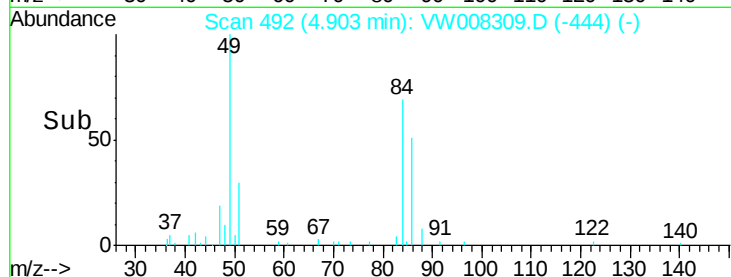
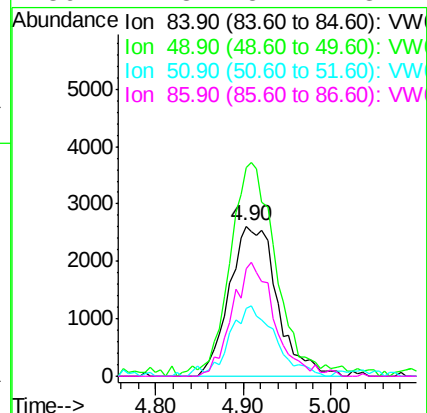
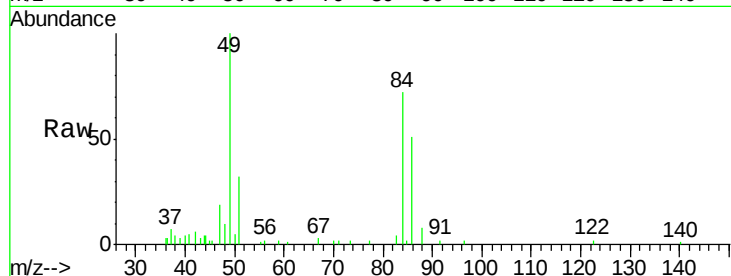




#20  
Methvlene Chloride  
Concen: 10.821 ug/l  
RT: 4.90 min Scan# 492  
Delta R.T. -0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

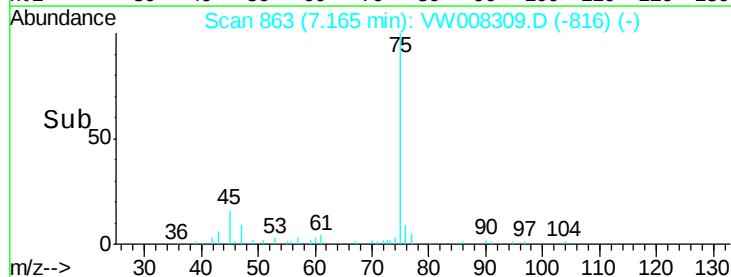
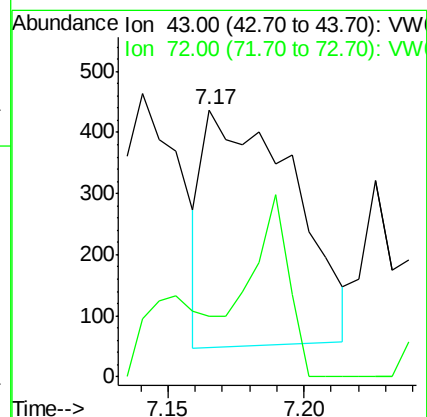
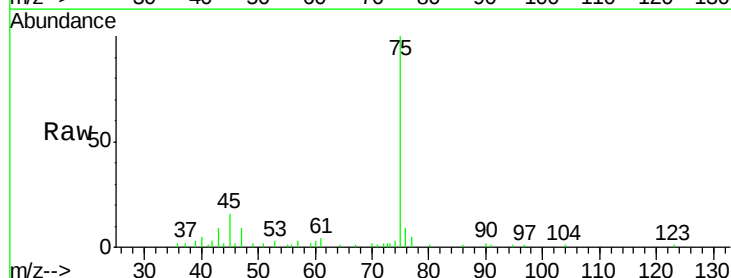
Instrument :  
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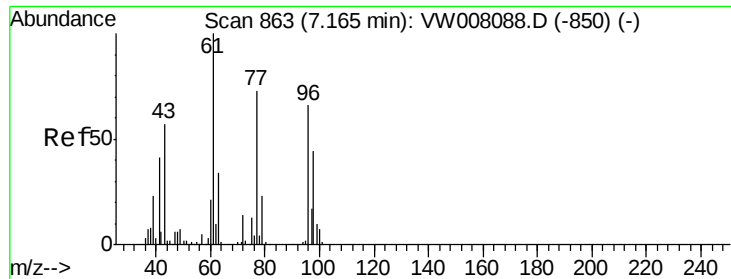
Tot Ion: 84 Resp: 9932  
Ion Ratio Lower Upper  
84 100  
49 132.5 107.1 160.7  
51 41.6 32.4 48.6  
86 71.8 54.2 81.4



#25  
2-Butanone  
Concen: 4.626 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion: 43 Resp: 890  
Ion Ratio Lower Upper  
43 100  
72 34.6 20.5 30.7#

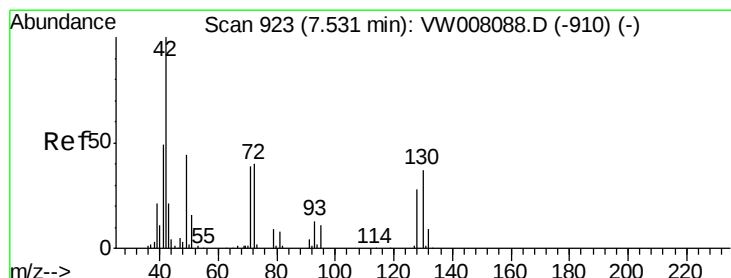
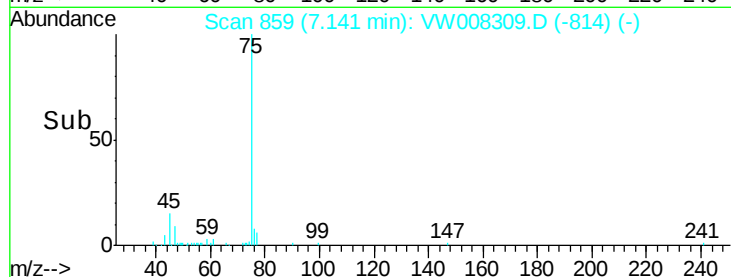
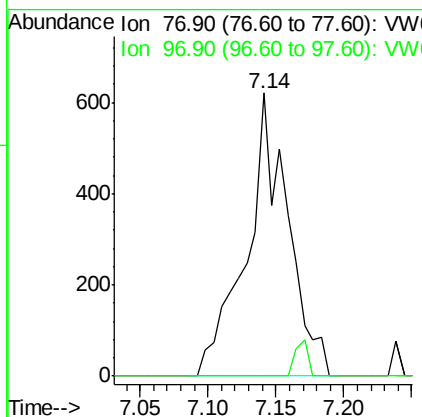
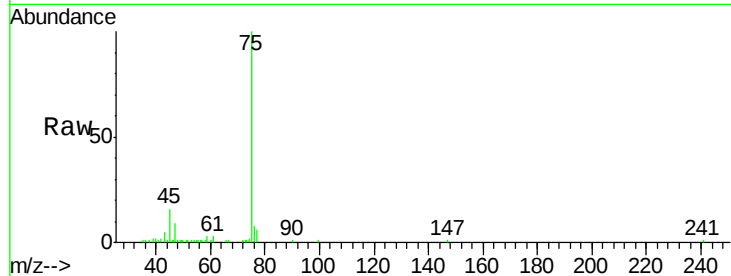




#26  
 2,2-Dichloropropane  
 Concen: 1.435 ug/l  
 RT: 7.14 min Scan# 859  
 Delta R.T. -0.02 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

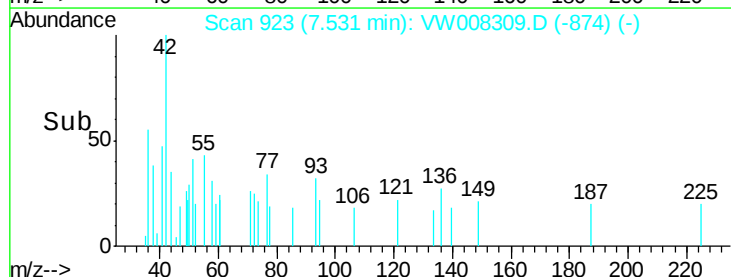
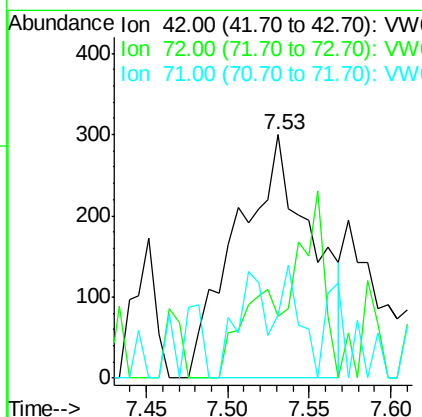
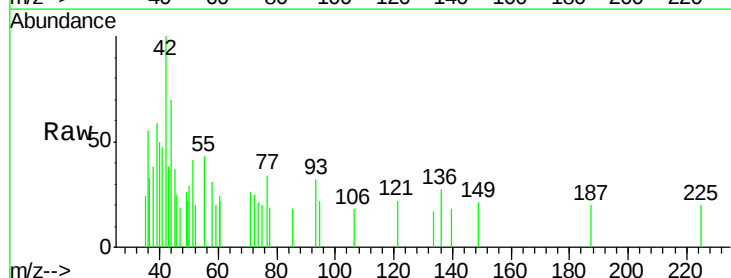
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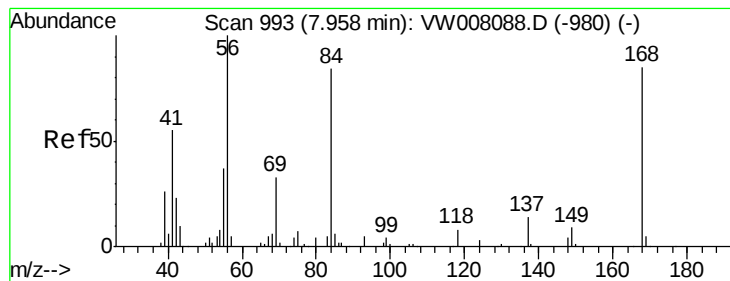
Tot Ion: 77 Resp: 1322  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.4 34.1#



#29  
 Tetrahydrofuran  
 Concen: 7.447 ug/l  
 RT: 7.53 min Scan# 923  
 Delta R.T. 0.00 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

Tgt Ion: 42 Resp: 957  
 Ion Ratio Lower Upper  
 42 100  
 72 18.8 32.4 48.6#  
 71 13.1 31.3 46.9#





#31

Cyclohexane

Concen: 1.334 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

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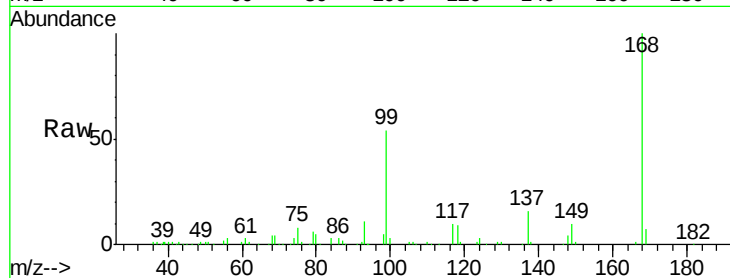
Tot Ion: 56 Resp: 1941

Ion Ratio Lower Upper

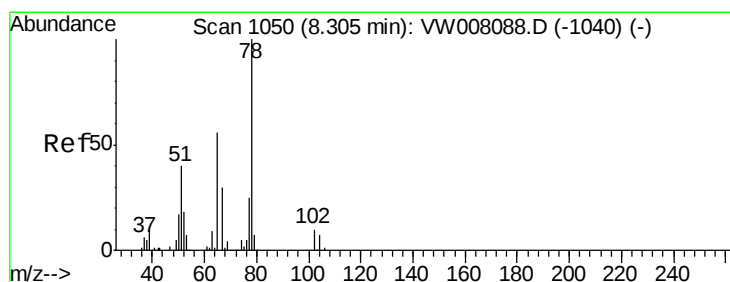
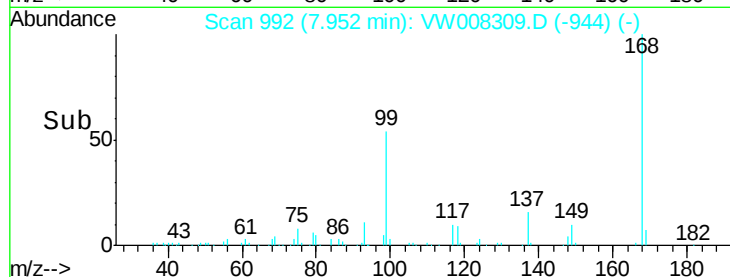
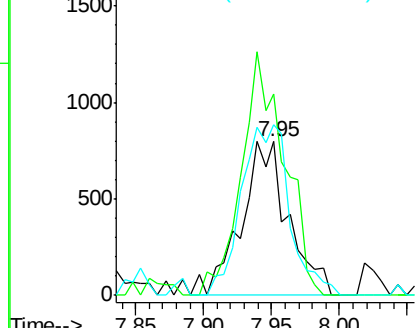
56 100

69 130.6 26.2 39.4#

84 110.5 67.4 101.2#



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 61.525 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008309.D

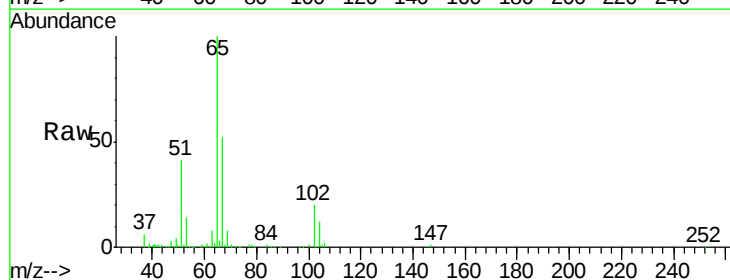
Acq: 16 Jan 2019 15:35

Tgt Ion: 65 Resp: 42543

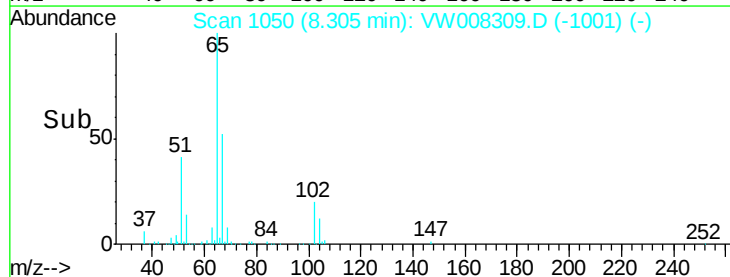
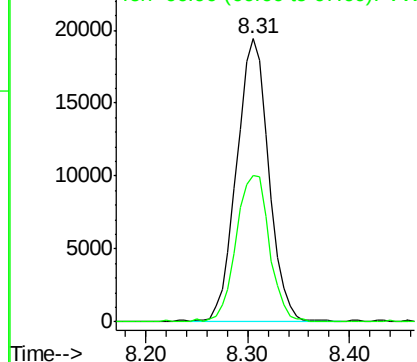
Ion Ratio Lower Upper

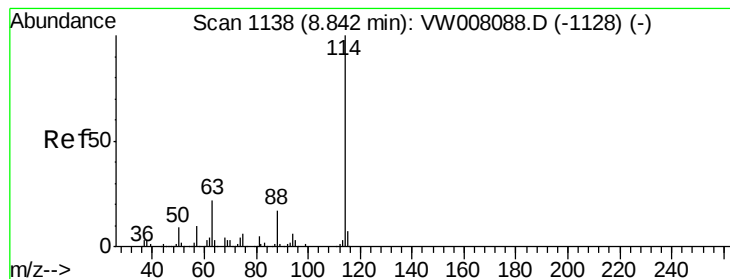
65 100

67 53.4 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008309.D

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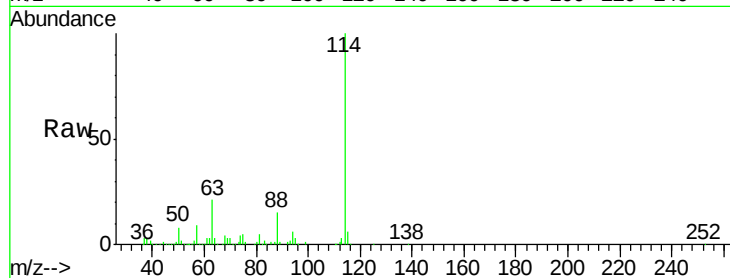
Tot Ion:114 Resp: 115587

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.4

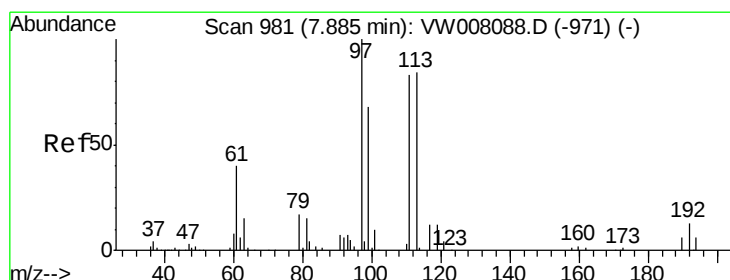
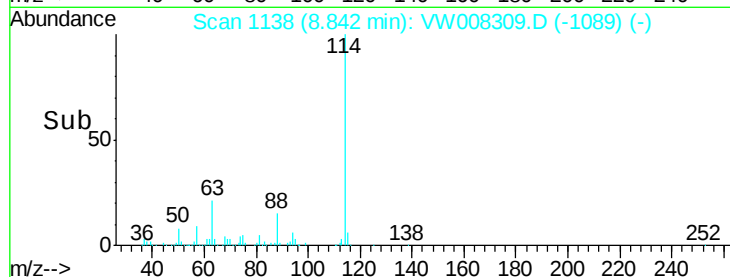
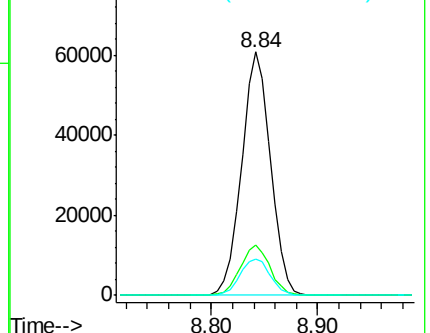
88 14.9 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 58.582 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

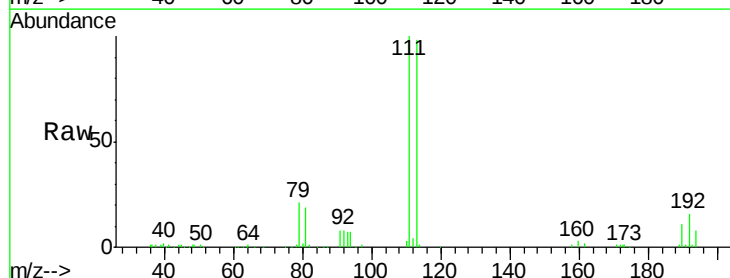
Tgt Ion:113 Resp: 39493

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

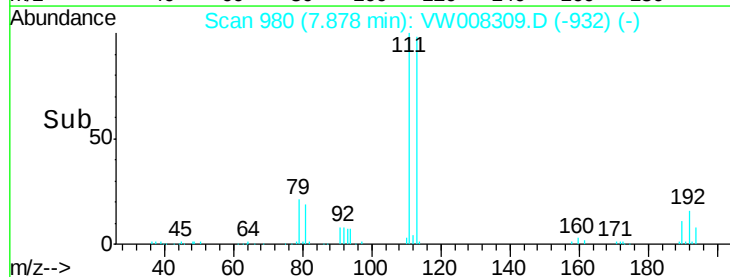
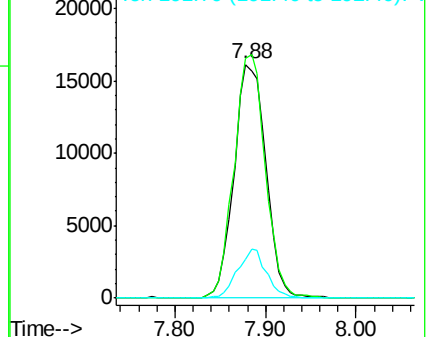
192 18.9 12.8 19.2

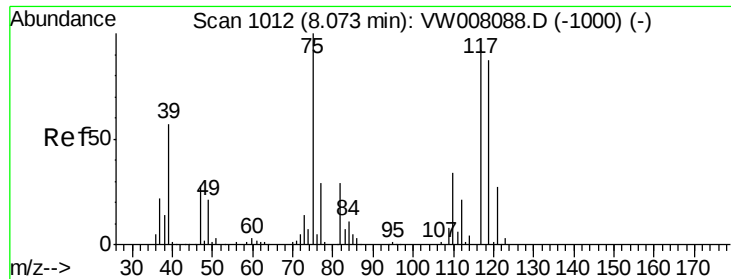


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

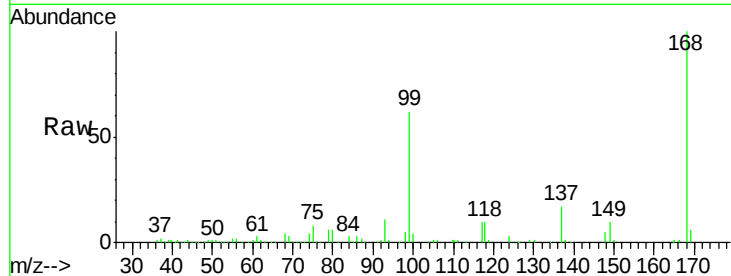




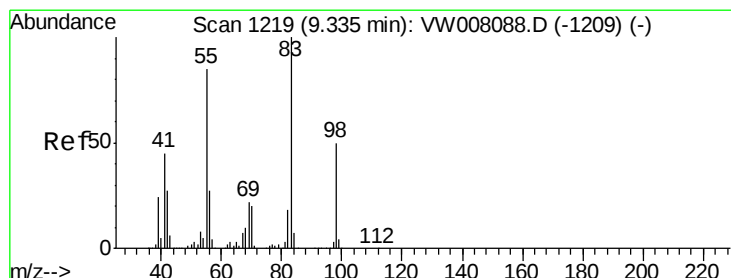
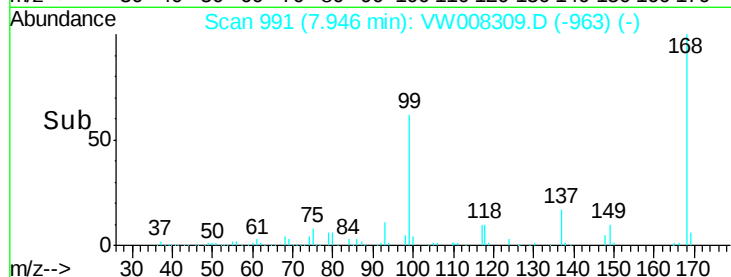
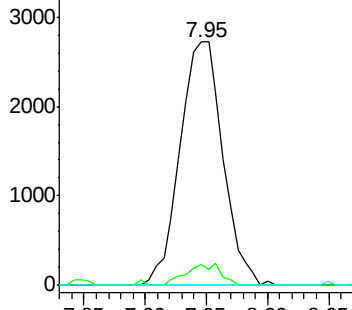
#38  
Carbon Tetrachloride  
Concen: 6.089 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.13 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

Tot Ion:117 Resp: 6636  
Ion Ratio Lower Upper  
117 100  
119 8.7 75.8 113.8#  
121 0.0 23.7 35.5#

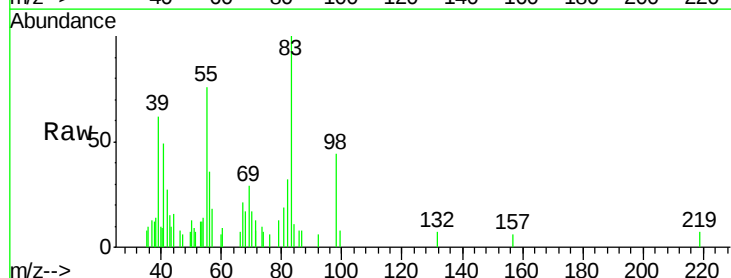


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

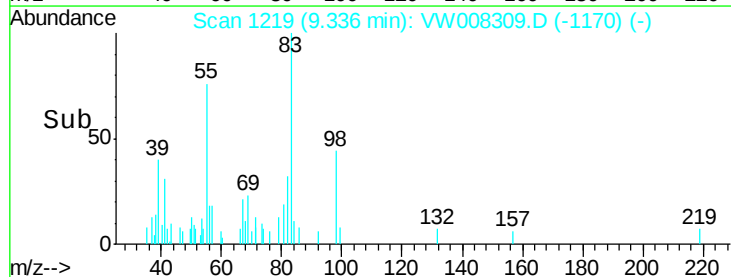
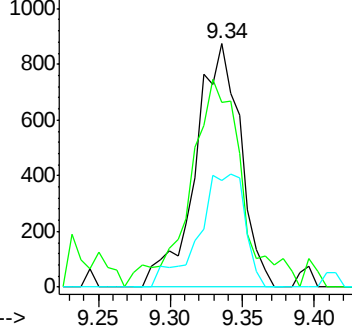


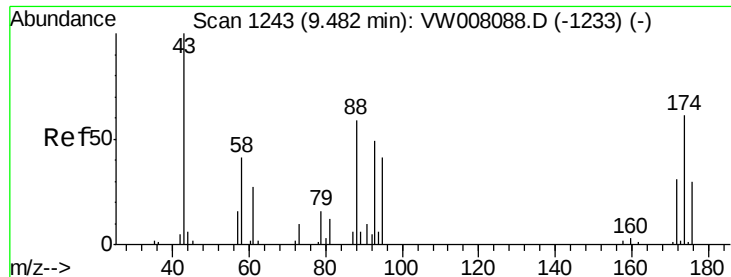
#39  
Methylcyclohexane  
Concen: 1.258 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion: 83 Resp: 1899  
Ion Ratio Lower Upper  
83 100  
55 69.9 67.8 101.6  
98 43.7 40.2 60.4



Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 55.00 (54.70 to 55.70): VW  
Ion 98.00 (97.70 to 98.70): VW





#49

1,4-Dioxane

Concen: 4.111 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

OK-01-011519-B

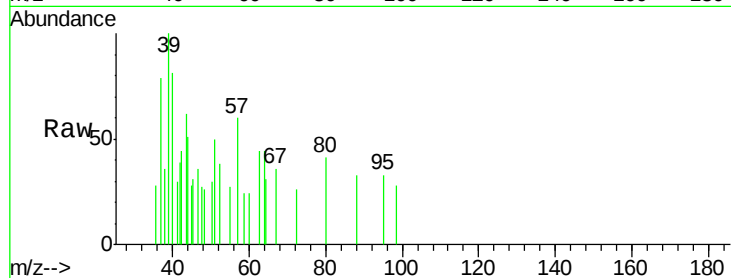
Tot Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 561.5 0.0 0.0#

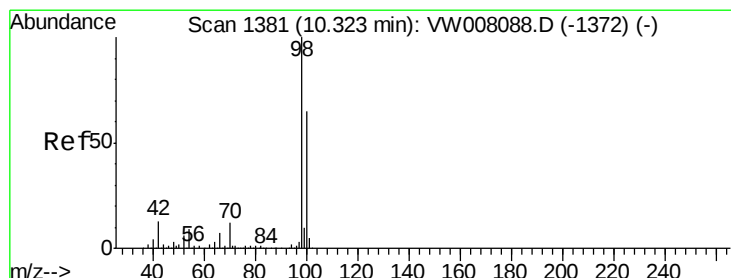
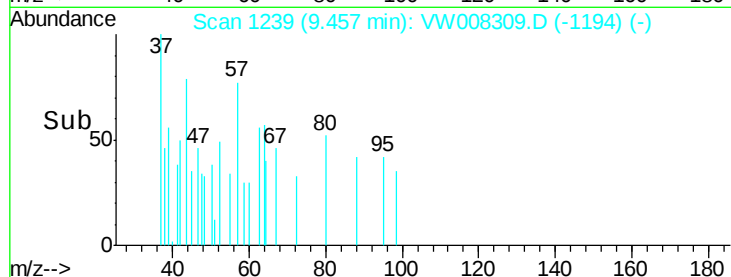
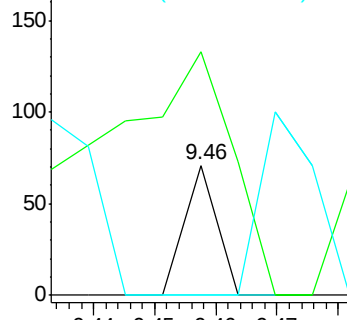
58 242.3 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 48.260 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008309.D

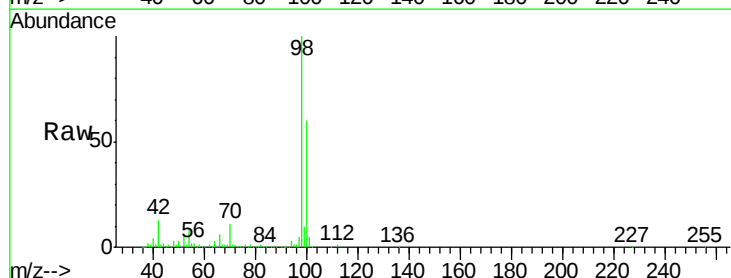
Acq: 16 Jan 2019 15:35

Tgt Ion: 98 Resp: 136527

Ion Ratio Lower Upper

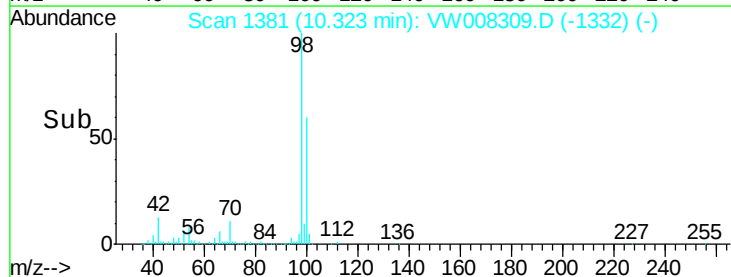
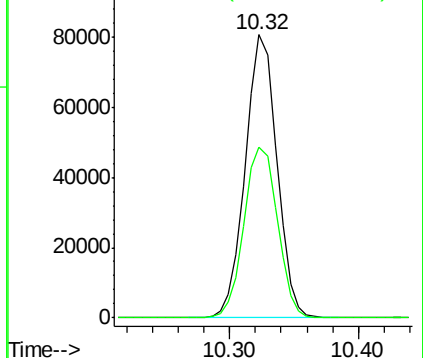
98 100

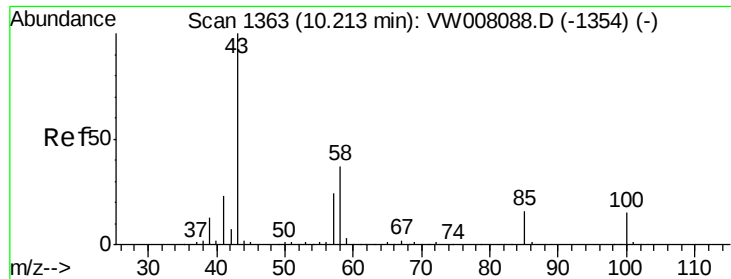
100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.237 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

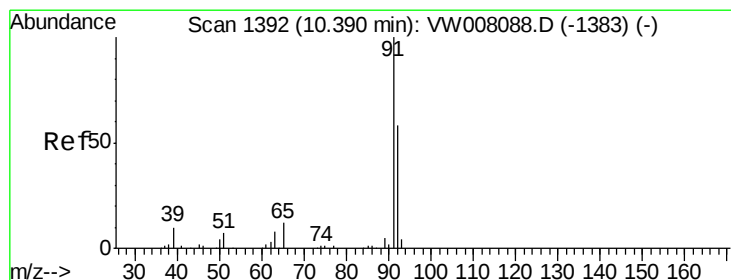
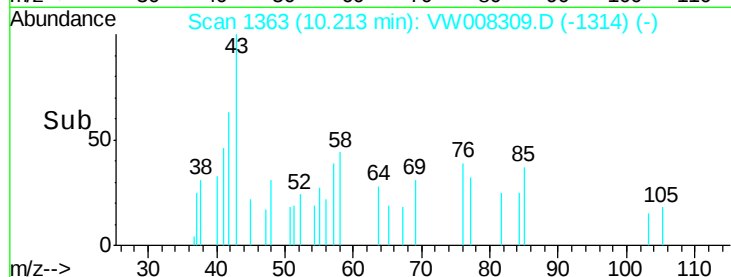
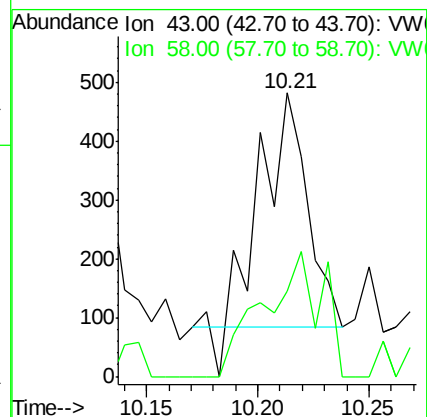
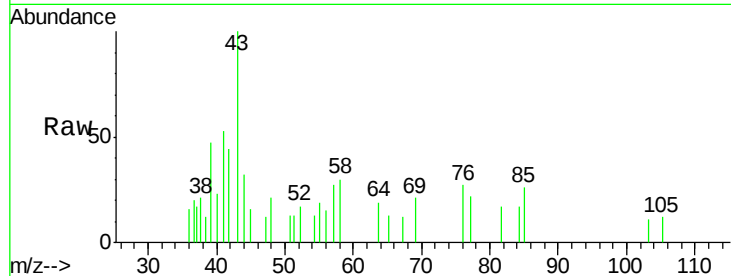
OK-01-011519-B

Tot Ion: 43 Resp: 571

Ion Ratio Lower Upper

43 100

58 67.6 30.6 46.0#



#52

Toluene

Concen: 14.078 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008309.D

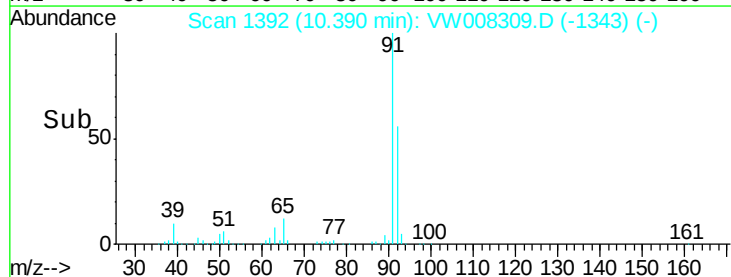
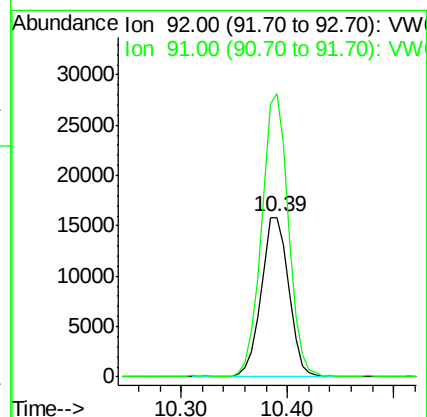
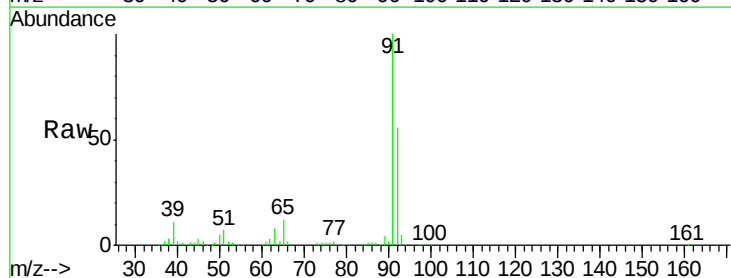
Acq: 16 Jan 2019 15:35

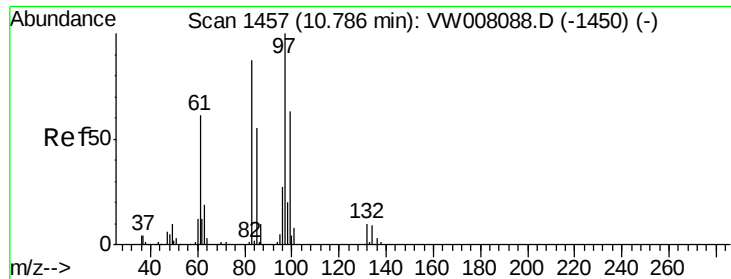
Tgt Ion: 92 Resp: 29035

Ion Ratio Lower Upper

92 100

91 171.3 137.0 205.4

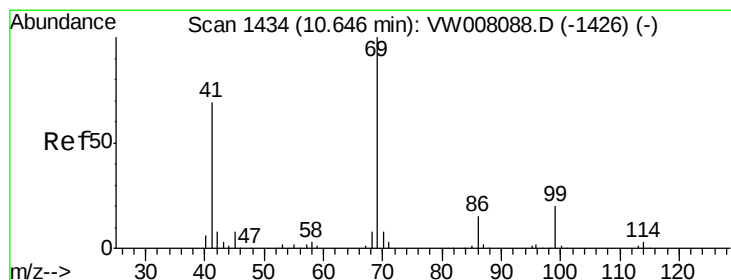
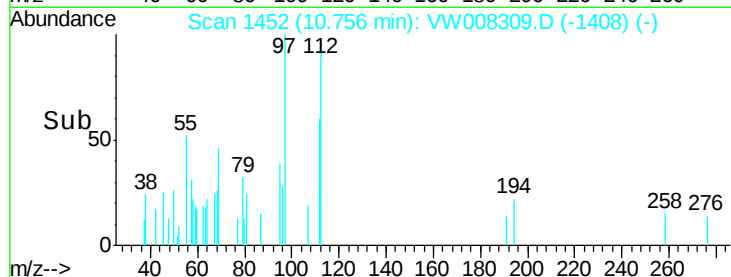
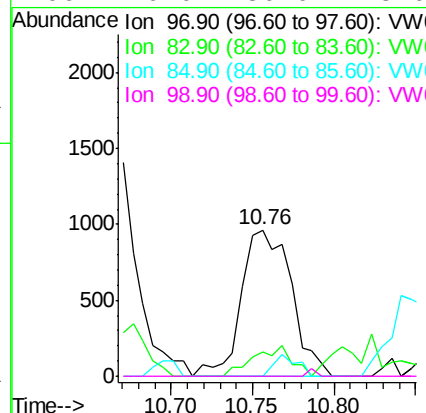
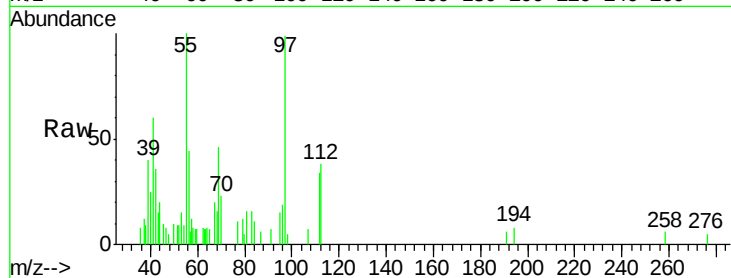




#55  
 1,1,2-Trichloroethane  
 Concen: 3.713 ug/l  
 RT: 10.76 min Scan# 1452  
 Delta R.T. -0.03 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

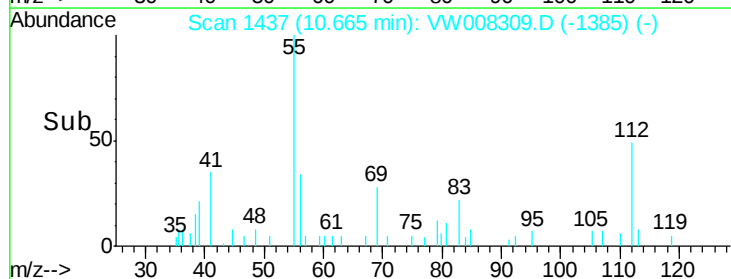
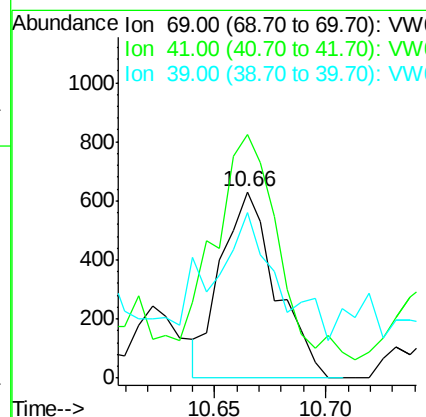
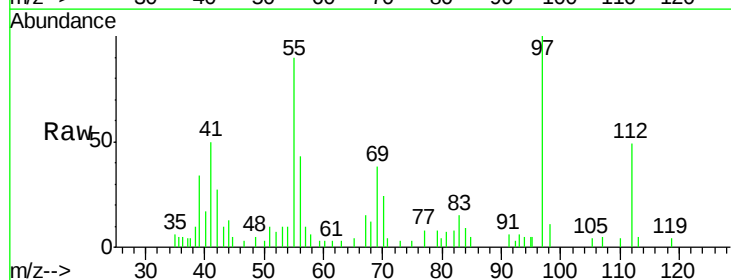
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-01-011519-B

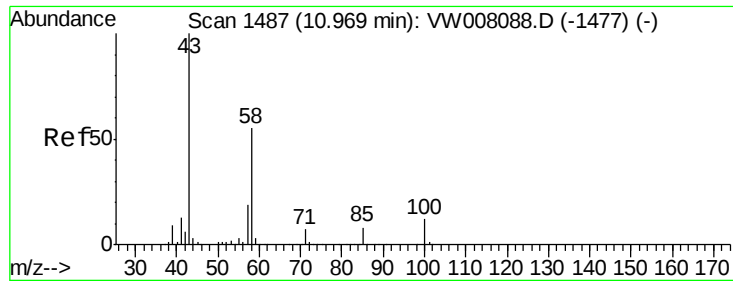
Tot Ion: 97 Resp: 2050  
 Ion Ratio Lower Upper  
 97 100  
 83 16.3 69.3 103.9#  
 85 0.0 43.8 65.6#  
 99 0.0 50.0 75.0#



#56  
 Ethyl methacrylate  
 Concen: 1.579 ug/l  
 RT: 10.66 min Scan# 1437  
 Delta R.T. 0.02 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

Tgt Ion: 69 Resp: 1080  
 Ion Ratio Lower Upper  
 69 100  
 41 137.2 56.4 84.6#  
 39 83.1 28.1 42.1#

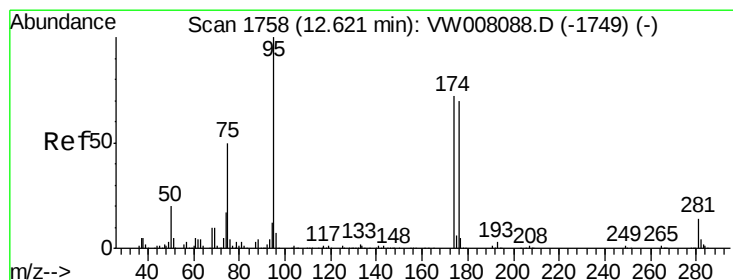
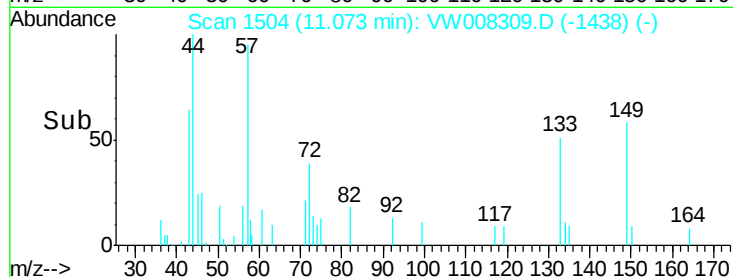
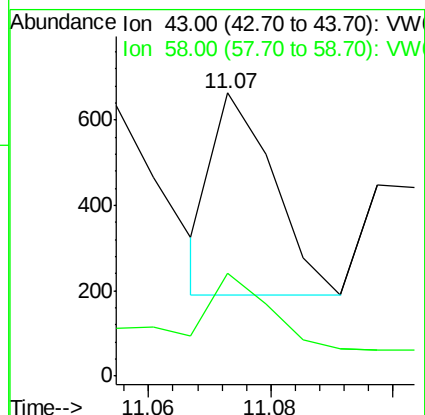
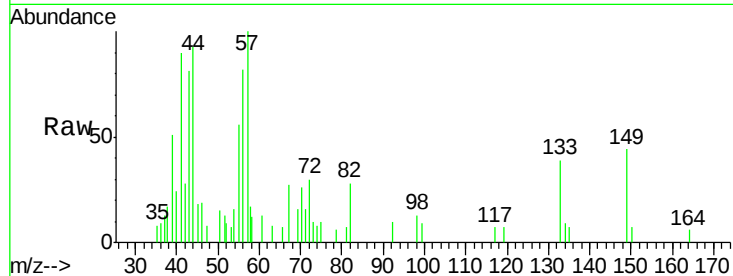




#59  
2-Hexanone  
Concen: 1.041 ug/l  
RT: 11.07 min Scan# 1504  
Delta R.T. 0.10 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

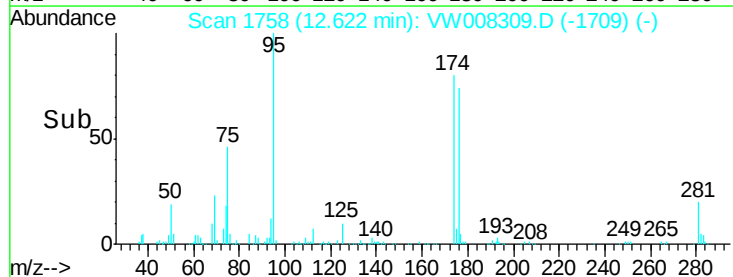
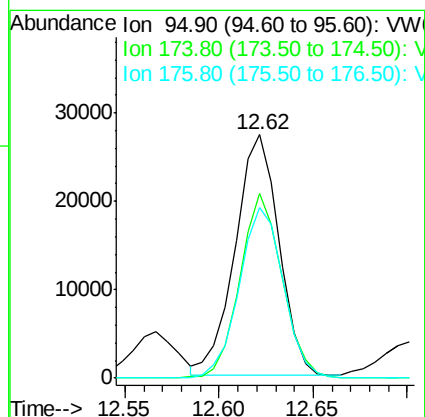
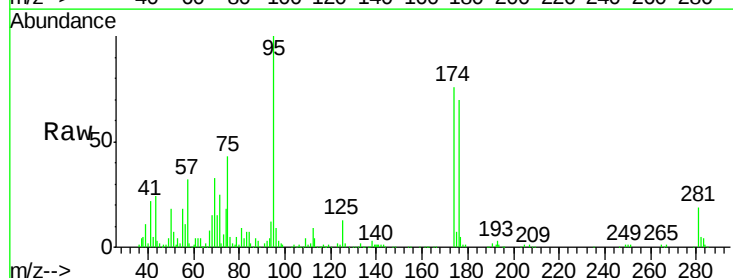
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

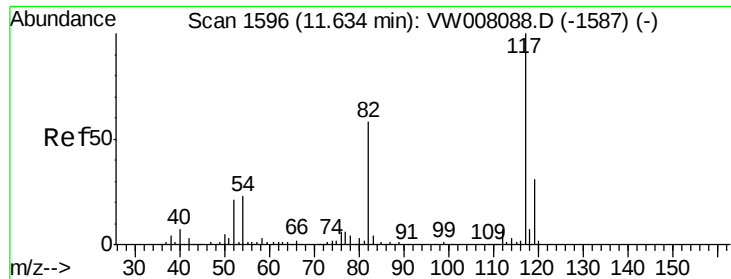
Tot Ion: 43 Resp: 325  
Ion Ratio Lower Upper  
43 100  
58 50.8 27.2 81.5



#62  
4-Bromofluorobenzene  
Concen: 43.175 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion: 95 Resp: 43788  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 143.0  
176 71.5 0.0 140.2

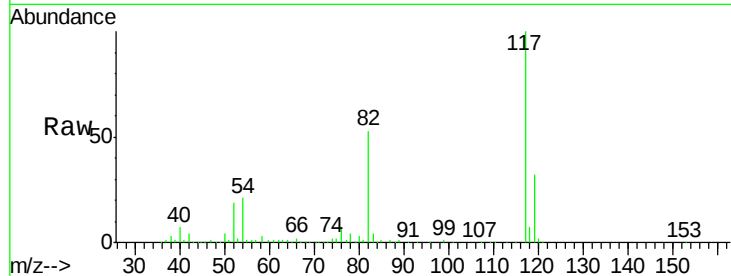




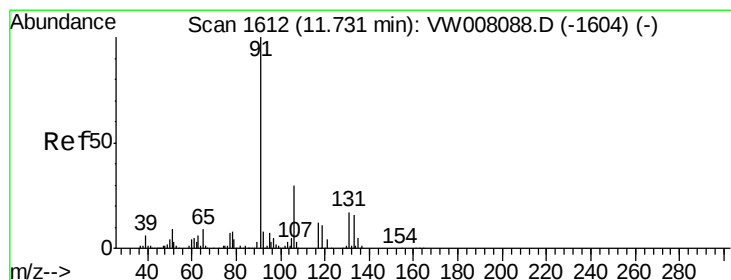
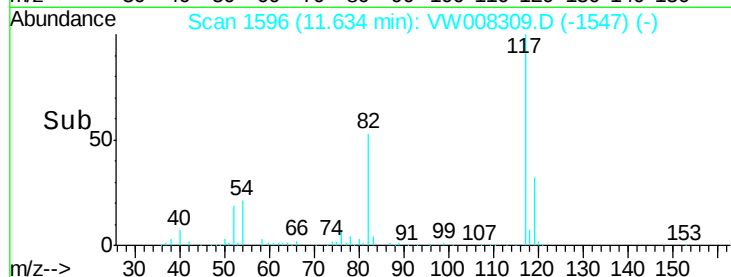
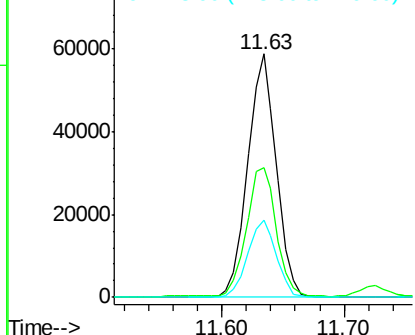
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

Tot Ion:117 Resp: 95254  
Ion Ratio Lower Upper  
117 100  
82 52.5 46.4 69.6  
119 32.0 24.7 37.1

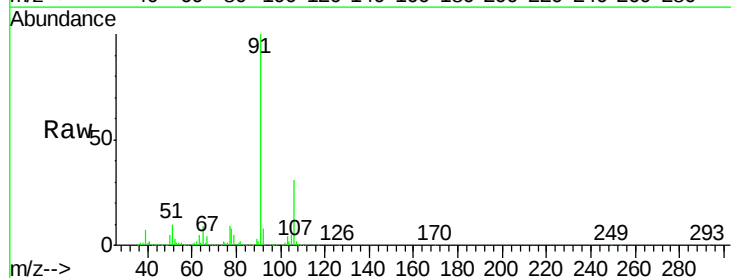


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

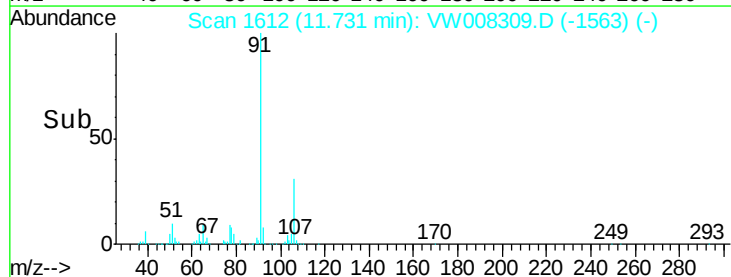
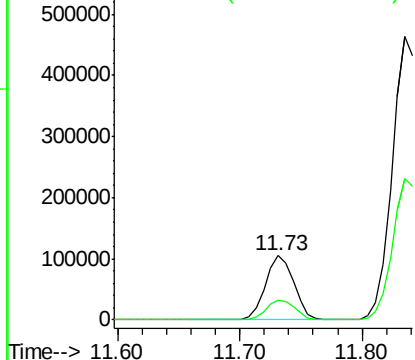


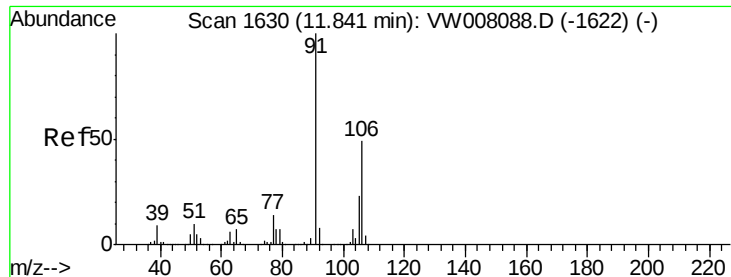
#67  
Ethyl Benzene  
Concen: 46.033 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion: 91 Resp: 169973  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 106.00 (105.70 to 106.70): V

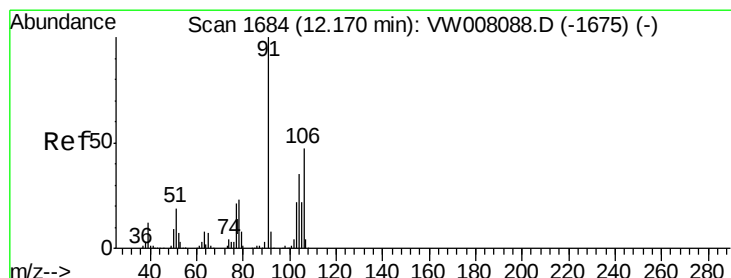
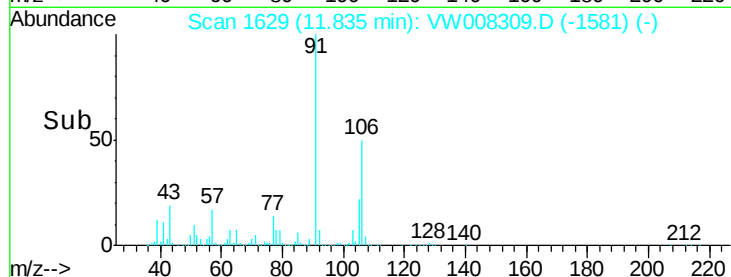
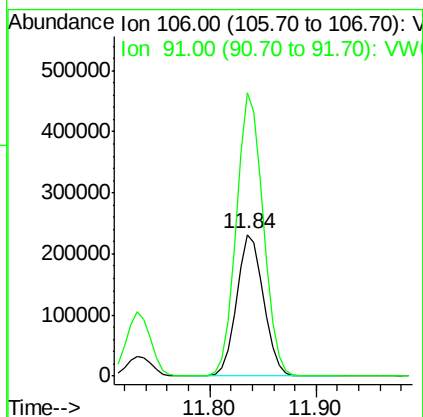
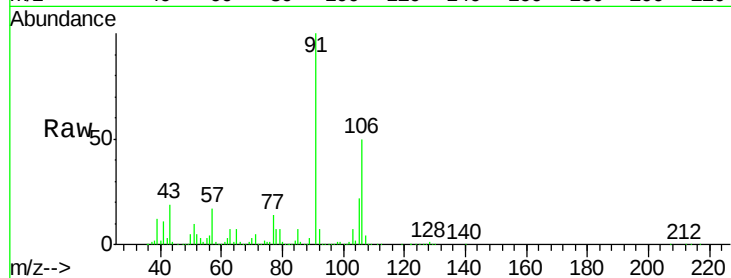




#68  
m/p-Xylenes  
Concen: 291.081 ug/l  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

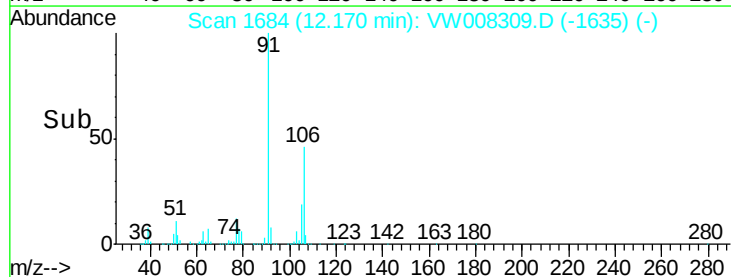
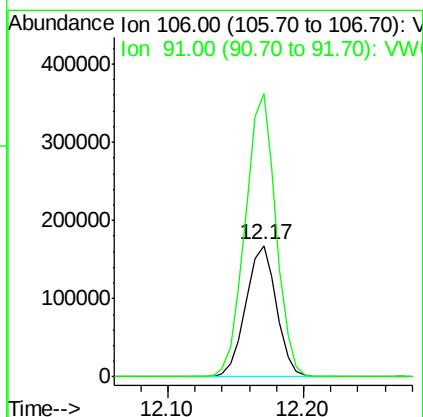
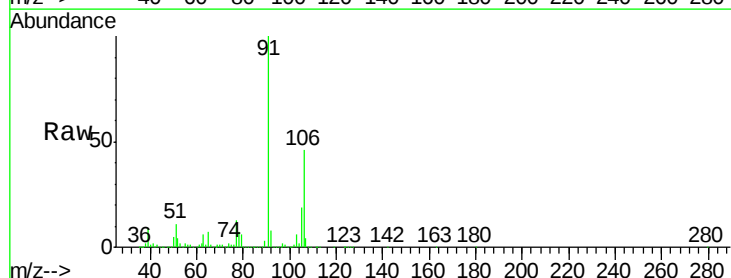
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

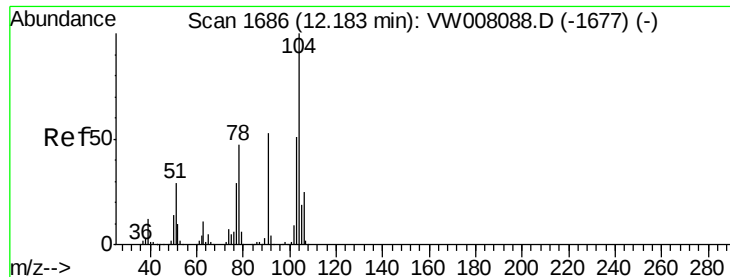
Tot Ion:106 Resp: 410238  
Ion Ratio Lower Upper  
106 100  
91 200.3 162.4 243.6



#69  
o-Xylene  
Concen: 202.945 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion:106 Resp: 264868  
Ion Ratio Lower Upper  
106 100  
91 215.7 107.8 323.6

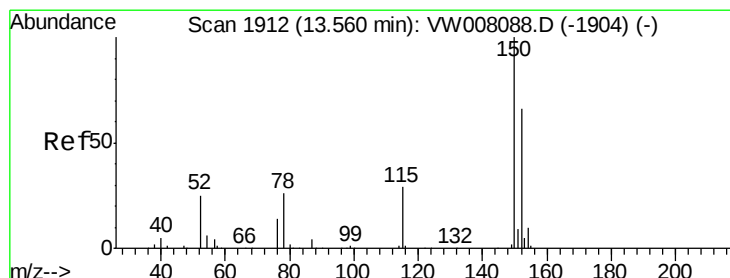
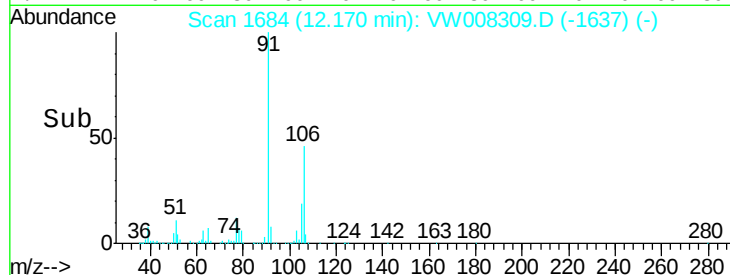
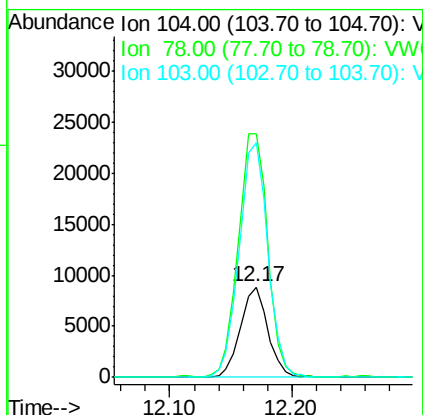
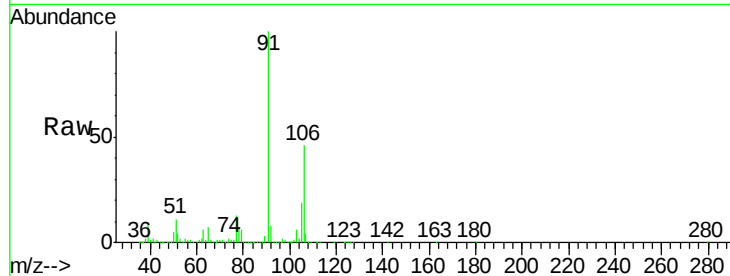




#70  
Stvrene  
Concen: 6.737 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

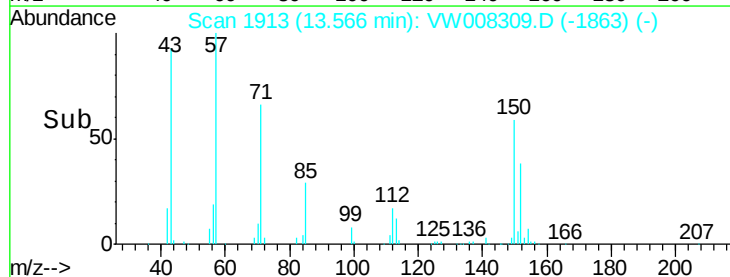
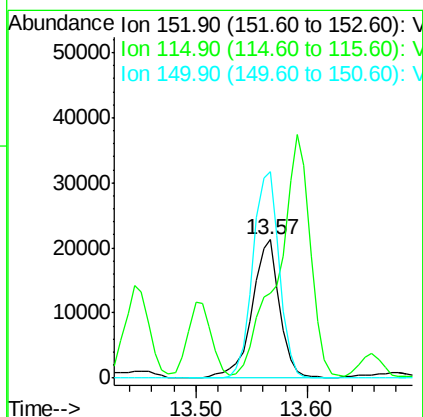
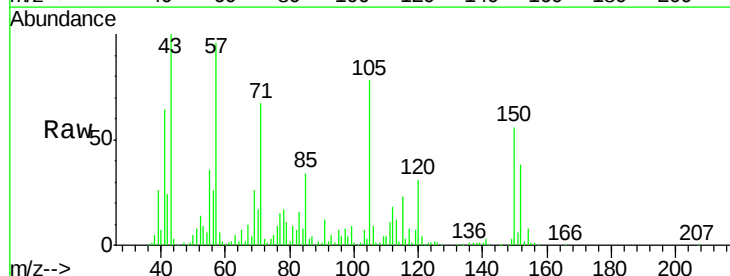
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

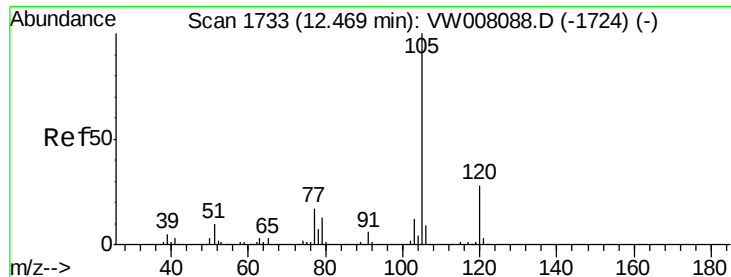
Tot Ion:104 Resp: 13772  
Ion Ratio Lower Upper  
104 100  
78 289.5 41.8 62.8#  
103 271.6 43.8 65.8#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. 0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion:152 Resp: 36908  
Ion Ratio Lower Upper  
152 100  
115 0.0 30.8 92.4#  
150 142.2 0.0 350.2





#73

Isopropylbenzene

Concen: 55.843 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

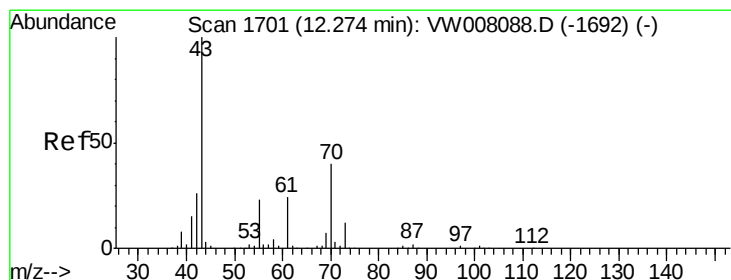
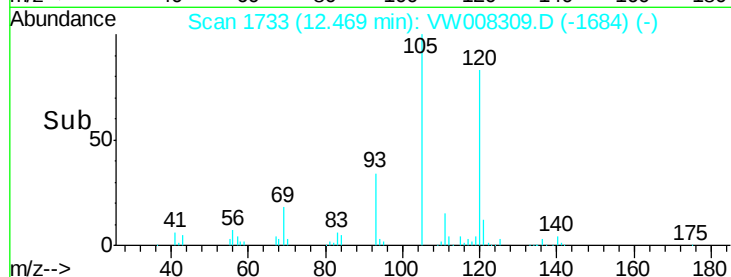
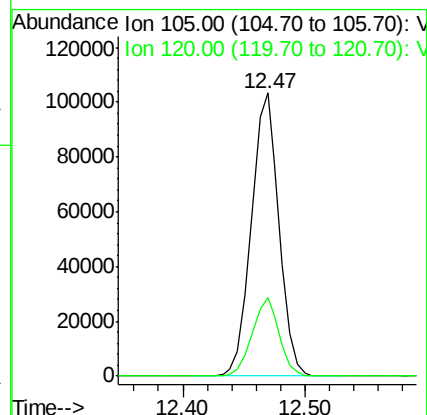
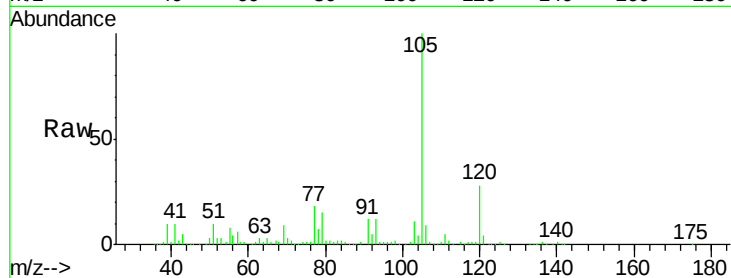
OK-01-011519-B

Tot Ion:105 Resp: 161811

Ion Ratio Lower Upper

105 100

120 27.1 13.6 40.8



#74

N-ethyl acetate

Concen: 67.761 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Tgt Ion: 43 Resp: 43482

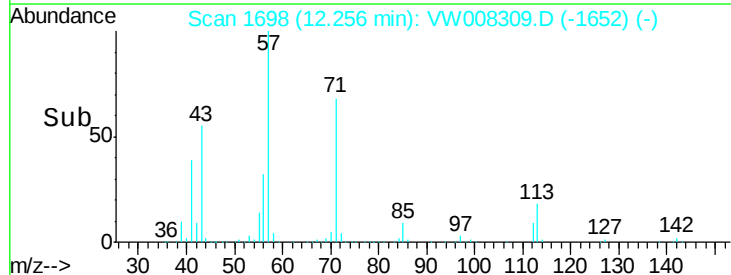
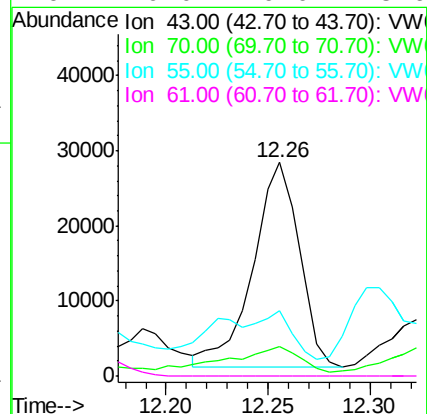
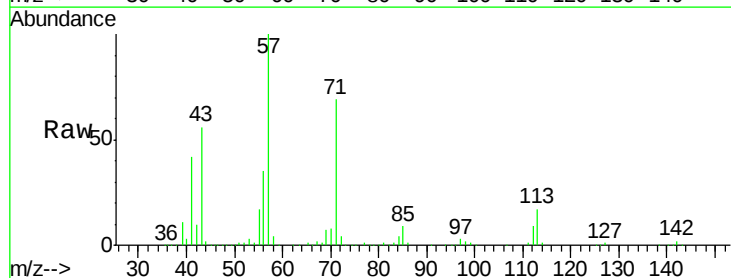
Ion Ratio Lower Upper

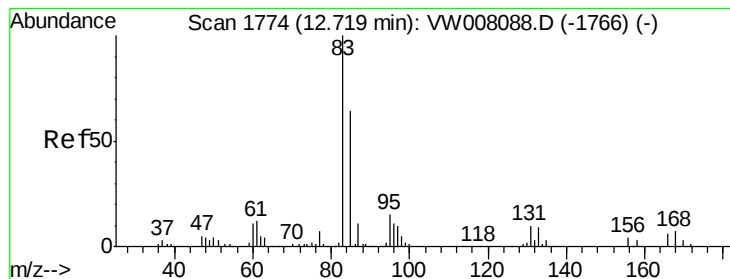
43 100

71 18.4 32.4 48.6#

55 0.0 18.7 28.1#

61 0.0 19.0 28.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 5.369 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

OK-01-011519-B

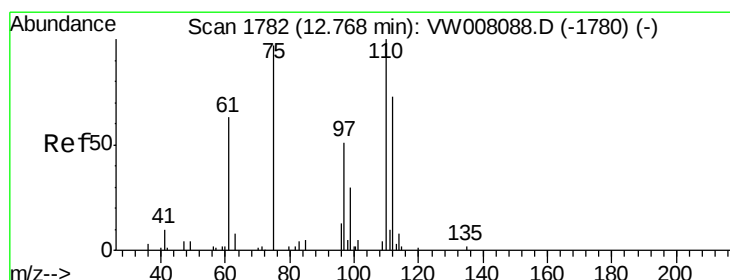
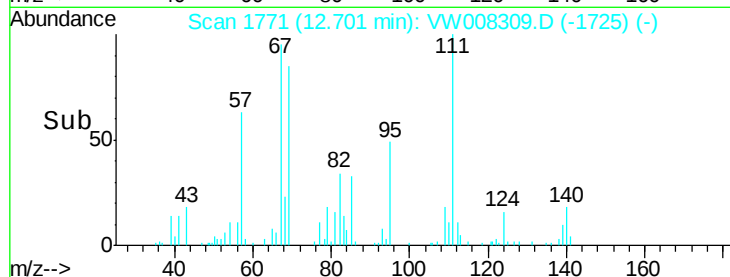
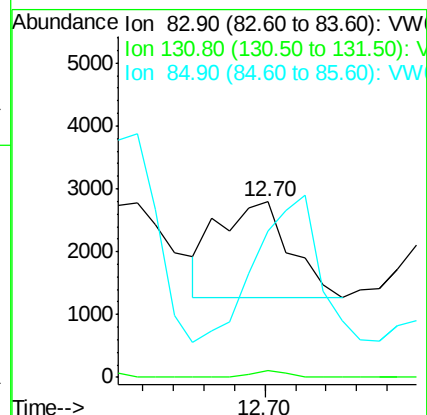
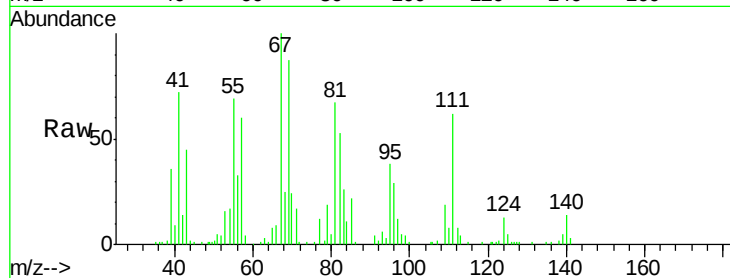
Tot Ion: 83 Resp: 2490

Ion Ratio Lower Upper

83 100

131 3.3 5.3 16.1#

85 0.0 32.4 97.2#



#76

1,2,3-Trichloropropane

Concen: 10.376 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.04 min

Lab File: VW008309.D

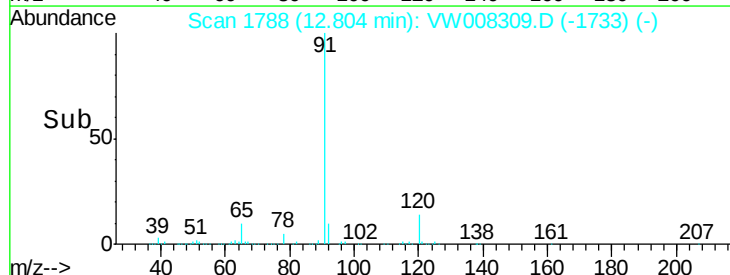
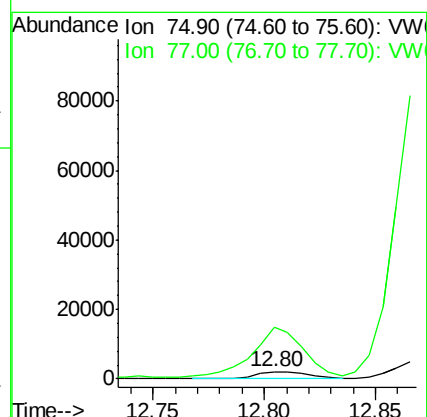
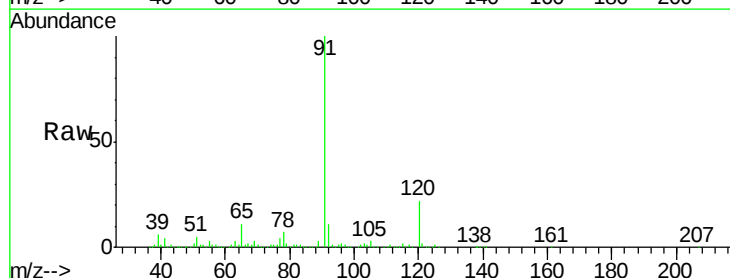
Acq: 16 Jan 2019 15:35

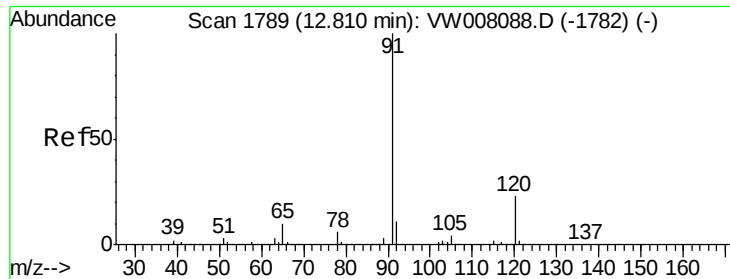
Tgt Ion: 75 Resp: 3491

Ion Ratio Lower Upper

75 100

77 644.9 179.4 538.2#





#78

n-propylbenzene

Concen: 150.639 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

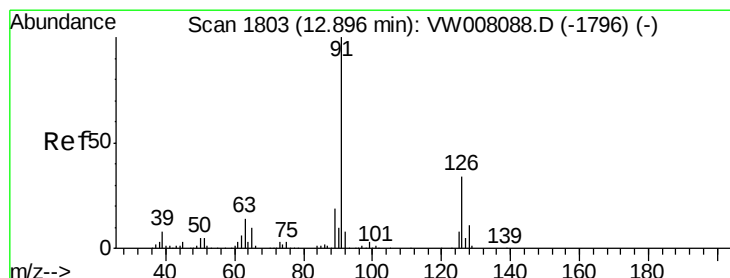
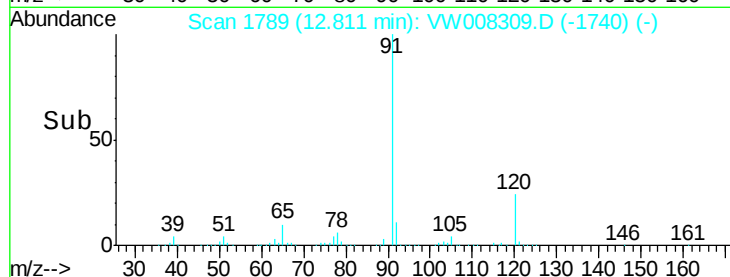
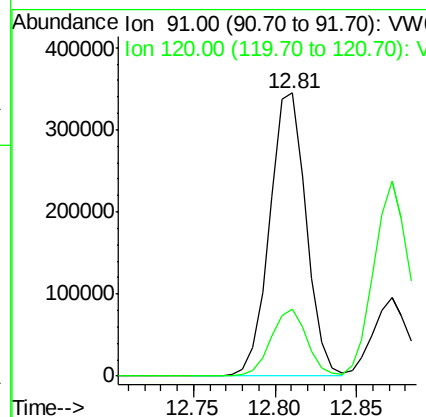
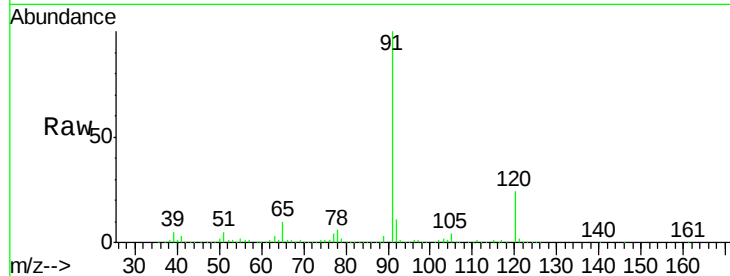
OK-01-011519-B

Tot Ion: 91 Resp: 534828

Ion Ratio Lower Upper

91 100

120 23.3 11.3 33.8



#79

2-Chlorotoluene

Concen: 74.305 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW008309.D

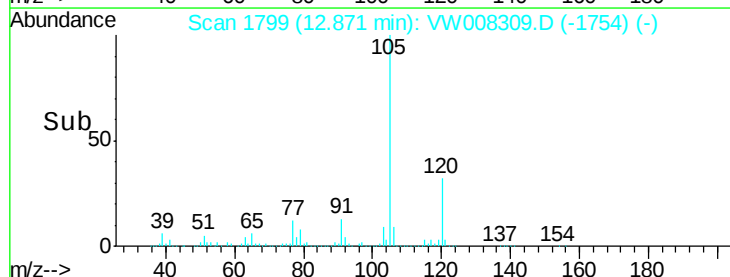
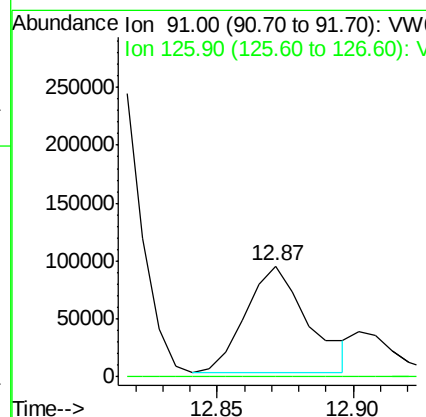
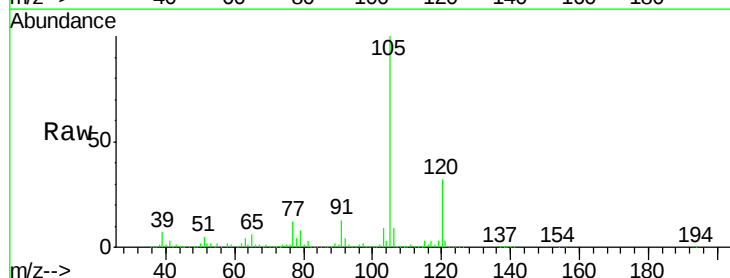
Acq: 16 Jan 2019 15:35

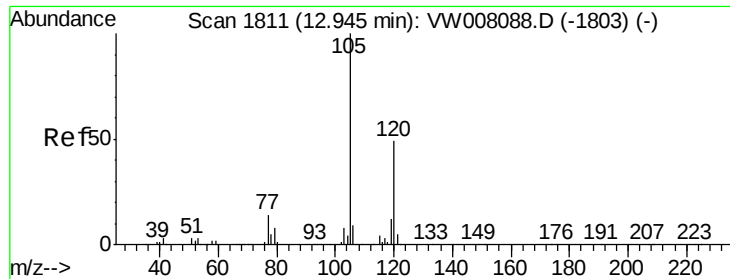
Tgt Ion: 91 Resp: 147183

Ion Ratio Lower Upper

91 100

126 0.3 16.8 50.3#

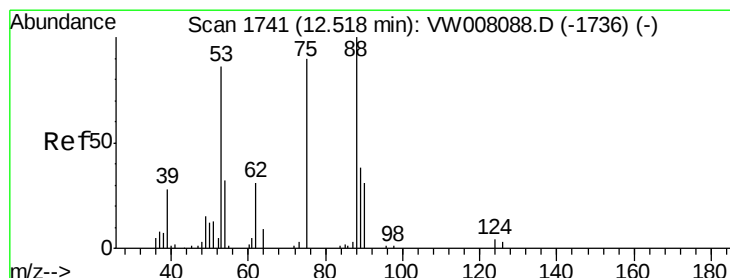
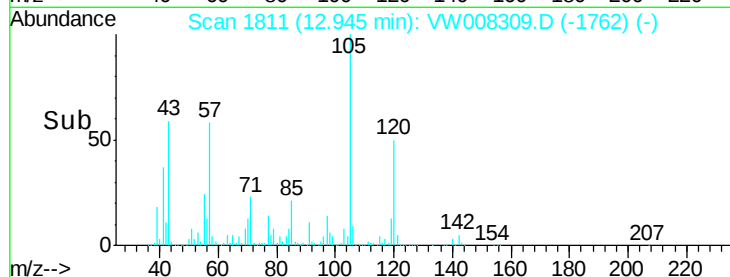
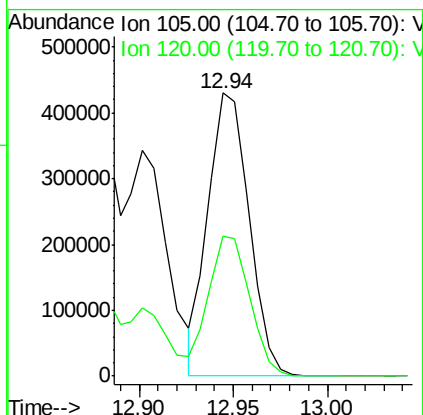
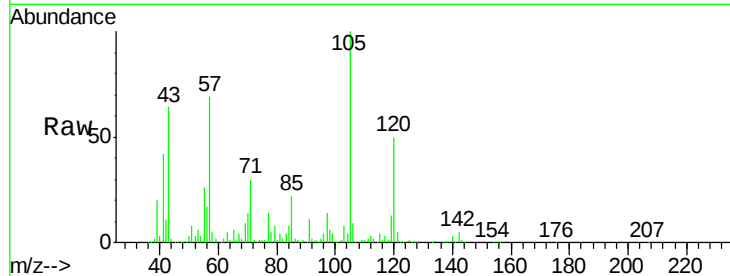




#80  
 1,3,5-Trimethylbenzene  
 Concen: 273.034 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

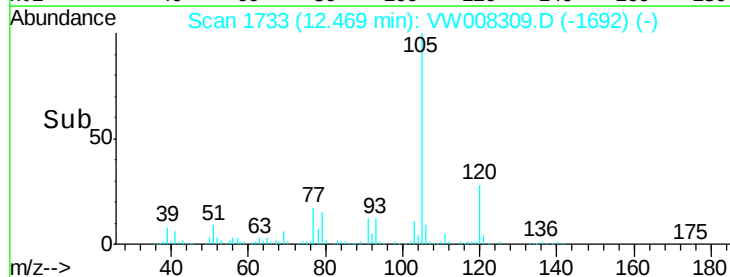
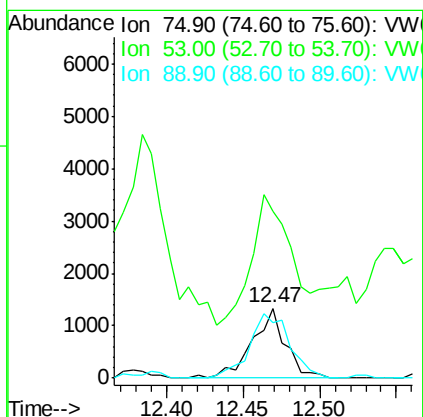
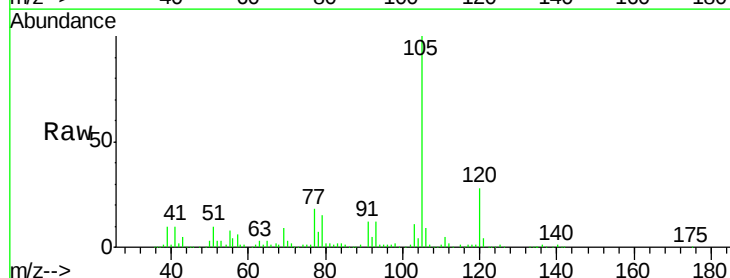
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-01-011519-B

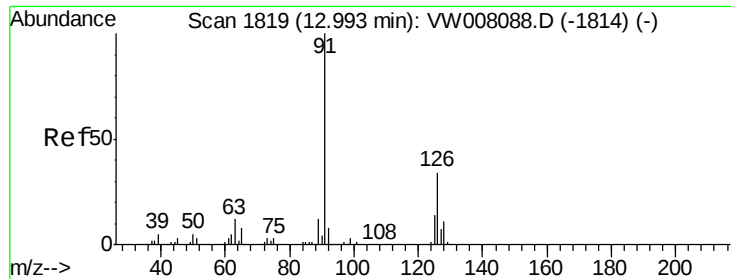
Tot Ion:105 Resp: 650135  
 Ion Ratio Lower Upper  
 105 100  
 120 49.7 24.7 74.1



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 14.002 ug/l  
 RT: 12.47 min Scan# 1733  
 Delta R.T. -0.05 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

Tgt Ion: 75 Resp: 2023  
 Ion Ratio Lower Upper  
 75 100  
 53 219.6 78.8 118.2#  
 89 111.4 35.4 53.2#





#82

4-Chlorotoluene

Concen: 34.044 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.05 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

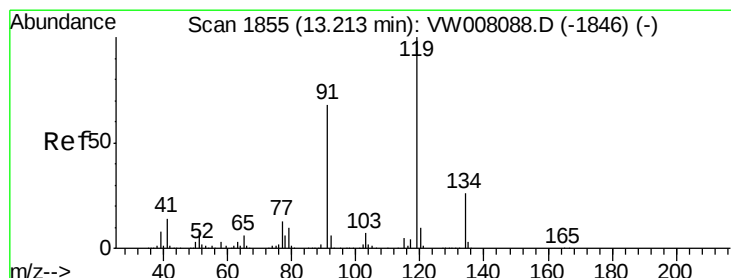
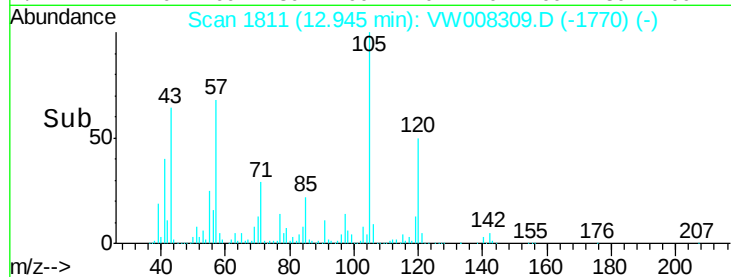
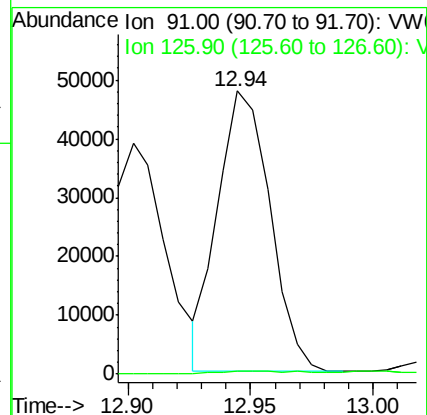
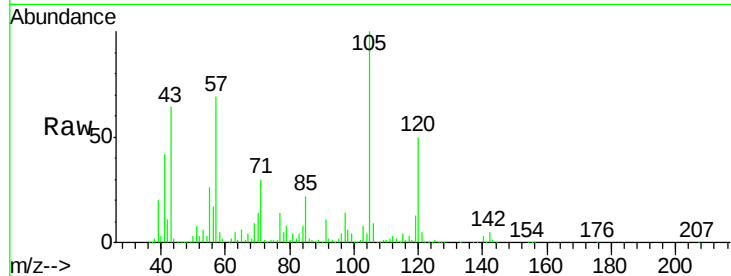
OK-01-011519-B

Tot Ion: 91 Resp: 71021

Ion Ratio Lower Upper

91 100

126 1.3 16.5 49.5#



#83

tert-Butylbenzene

Concen: 8.099 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

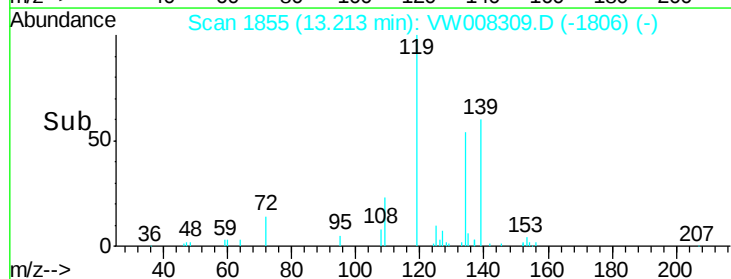
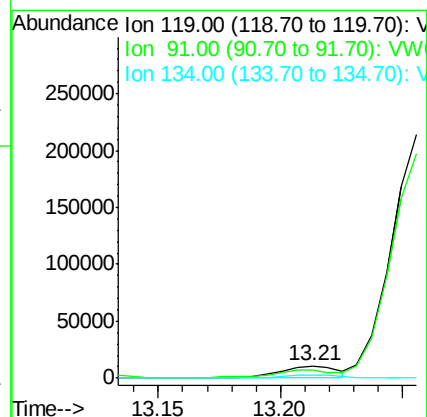
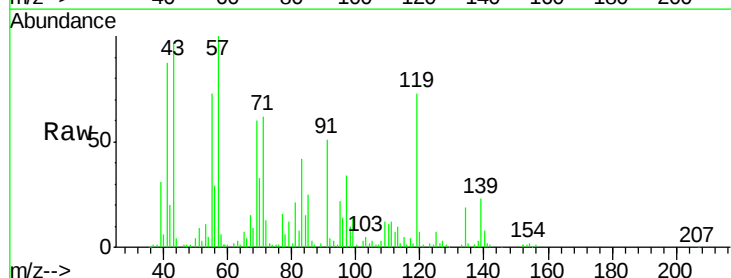
Tgt Ion: 119 Resp: 17062

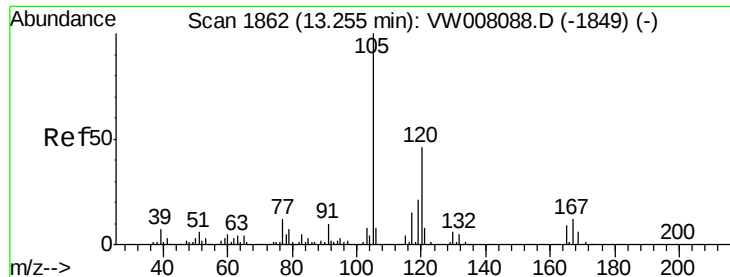
Ion Ratio Lower Upper

119 100

91 73.2 33.9 101.6

134 27.9 13.6 40.8

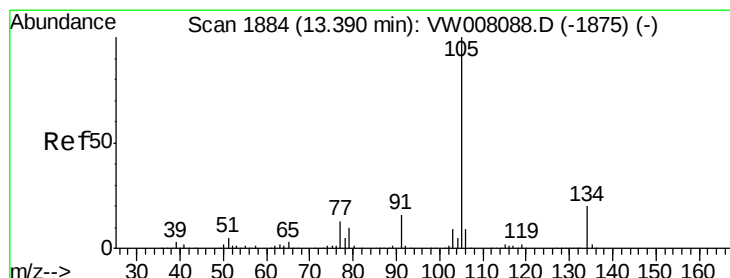
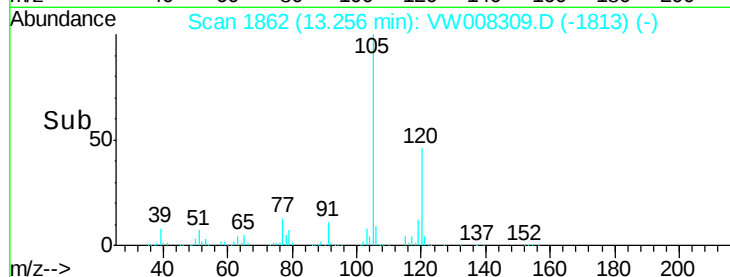
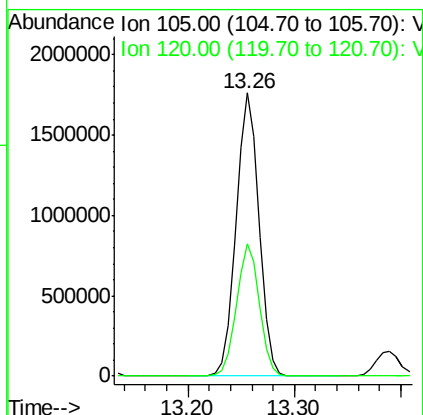
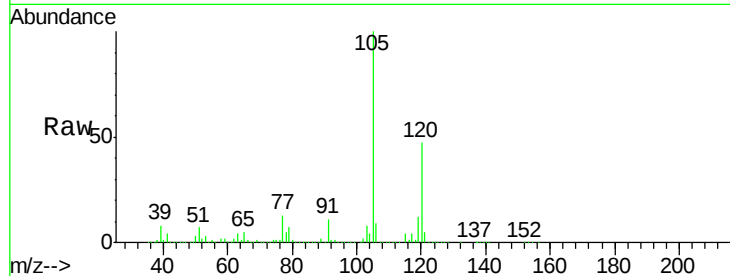




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1080.326 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. 0.00 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

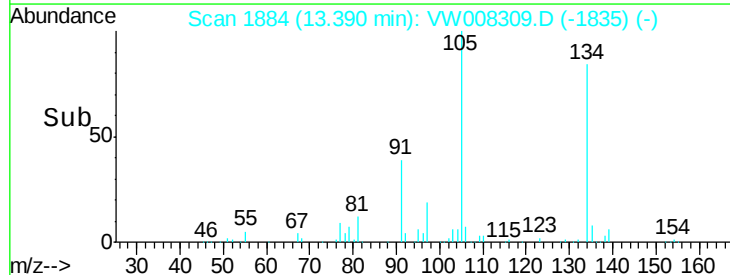
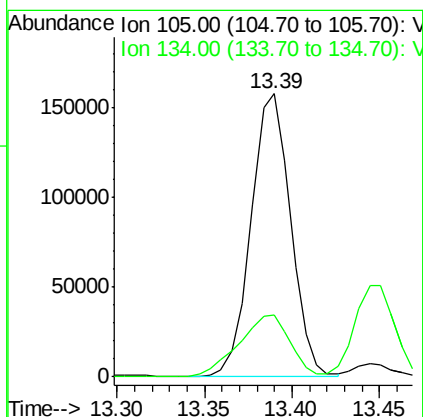
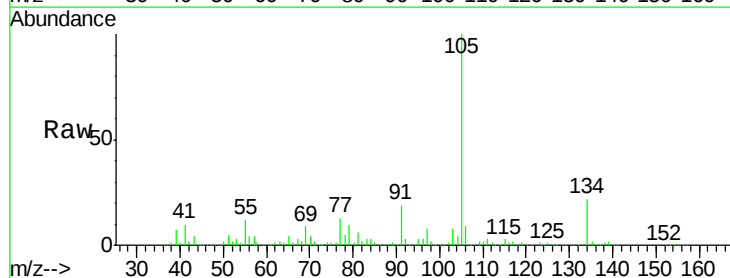
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OK-01-011519-B

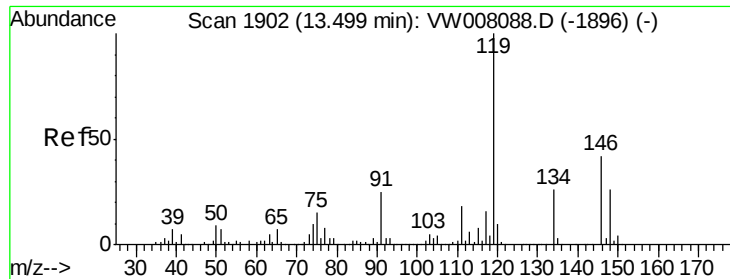
Tot Ion:105 Resp: 2653132  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 22.7 68.1



#85  
 sec-Butylbenzene  
 Concen: 79.875 ug/l  
 RT: 13.39 min Scan# 1884  
 Delta R.T. 0.00 min  
 Lab File: VW008309.D  
 Acq: 16 Jan 2019 15:35

Tgt Ion:105 Resp: 246481  
 Ion Ratio Lower Upper  
 105 100  
 134 28.9 10.1 30.1

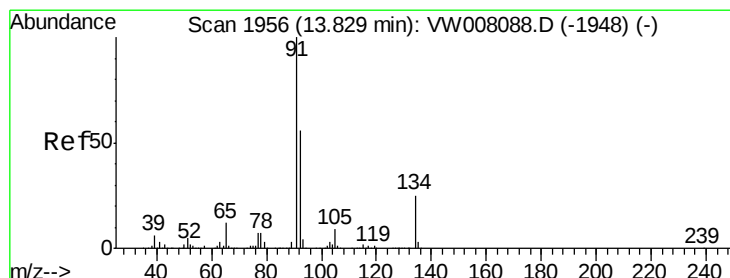
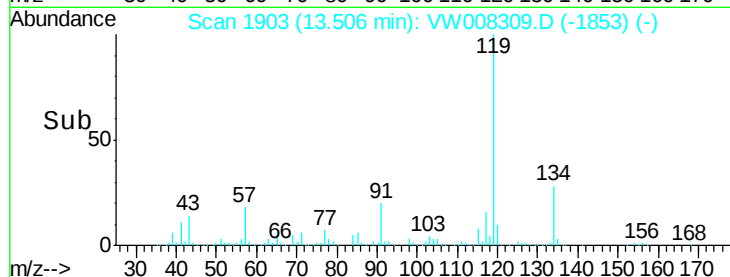
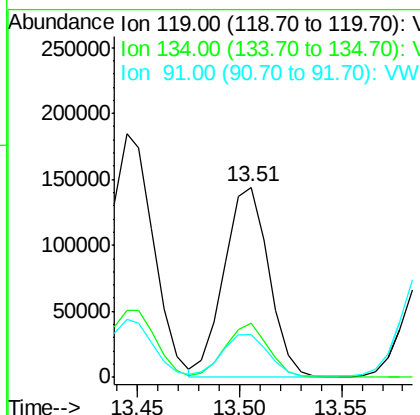
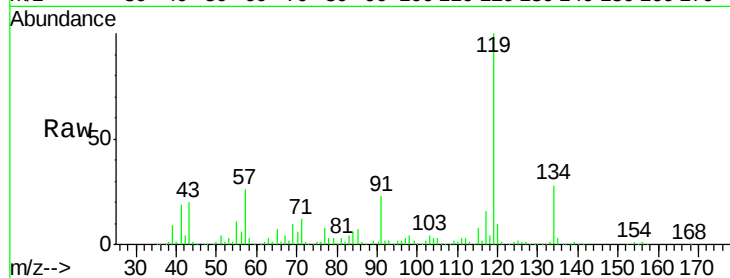




#86  
p-Isopropyltoluene  
Concen: 82.170 ug/l  
RT: 13.51 min Scan# 1903  
Delta R.T. 0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

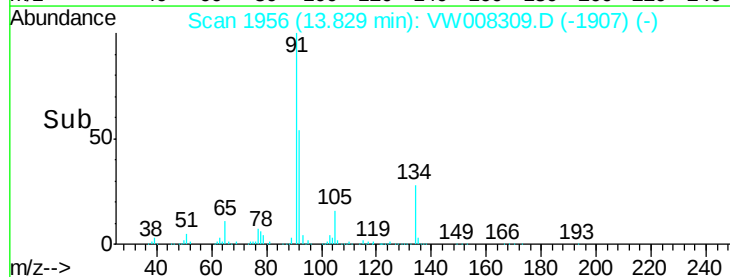
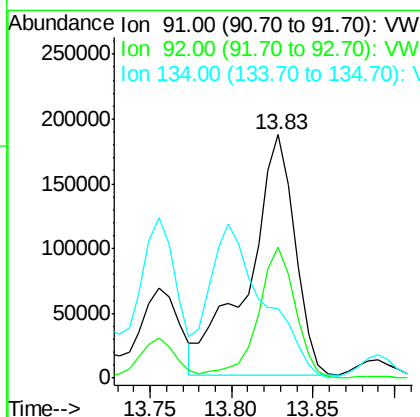
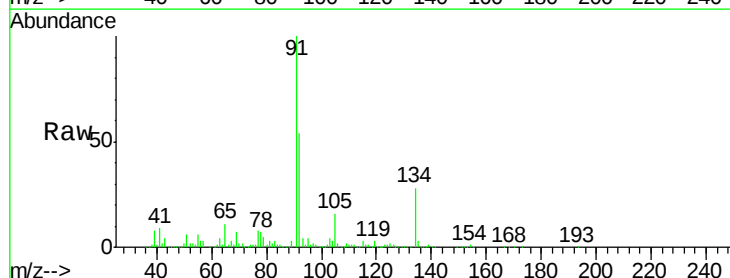
Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

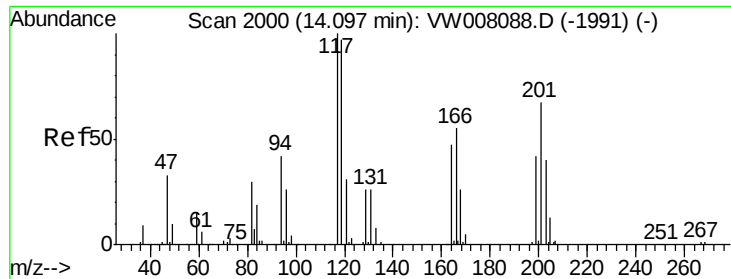
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.5  | 13.3  | 39.8  |
| 91      | 22.4  | 12.3  | 36.9  |



#89  
n-Butylbenzene  
Concen: 139.555 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. 0.00 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 43.7  | 27.4  | 82.2  |
| 134     | 0.0   | 12.6  | 37.8# |





#90

Hexachloroethane

Concen: 93.061 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA\_W

ClientSampleId :

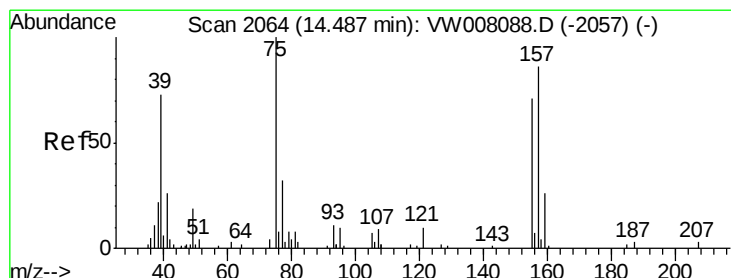
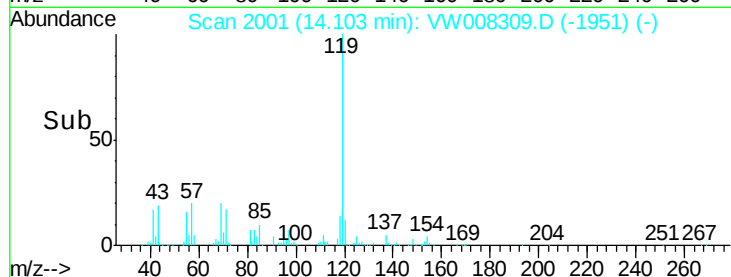
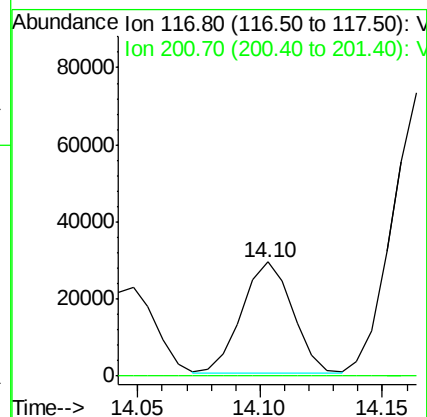
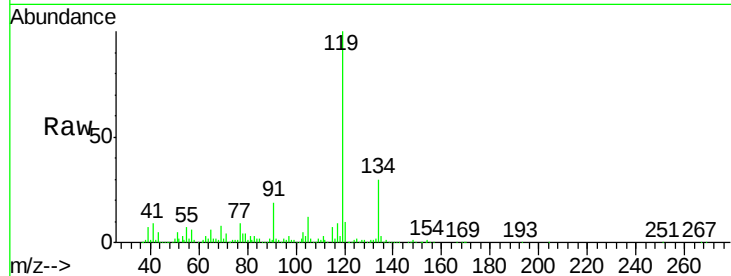
OK-01-011519-B

Tot Ion:117 Resp: 41886

Ion Ratio Lower Upper

117 100

201 0.0 33.0 98.9#



#92

1,2-Dibromo-3-Chloropropane

Concen: 12.259 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW008309.D

Acq: 16 Jan 2019 15:35

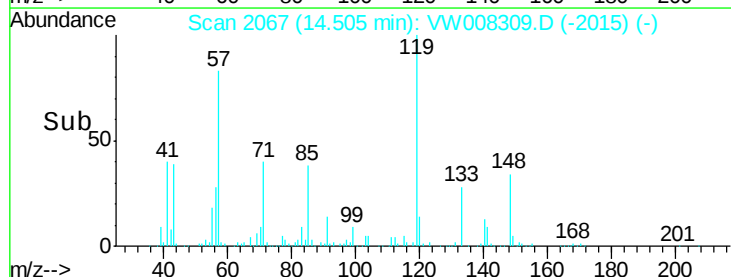
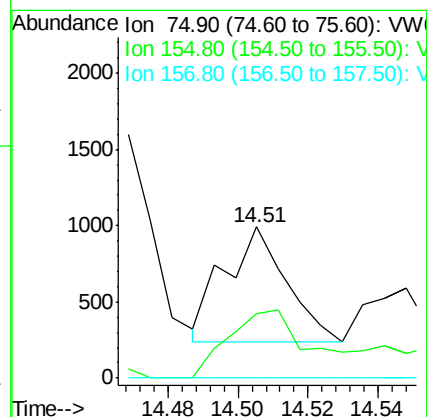
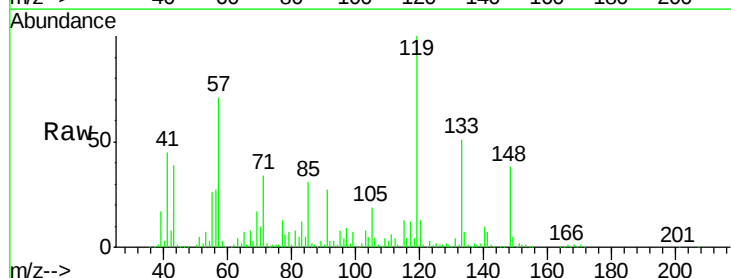
Tgt Ion: 75 Resp: 915

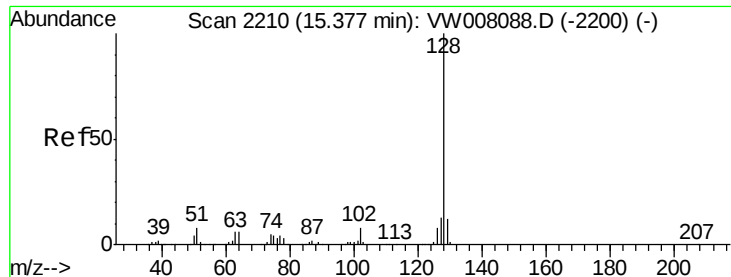
Ion Ratio Lower Upper

75 100

155 77.2 38.6 115.7

157 0.0 47.5 142.6#

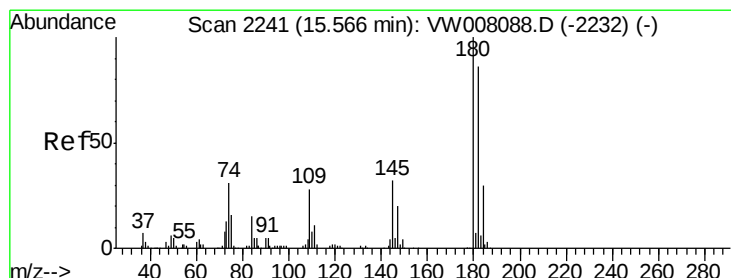
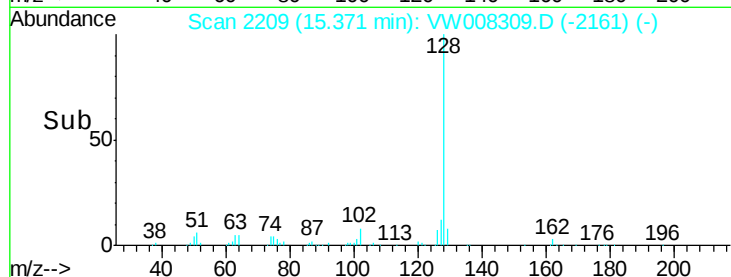
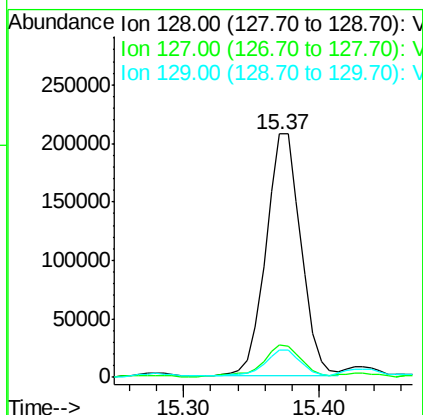
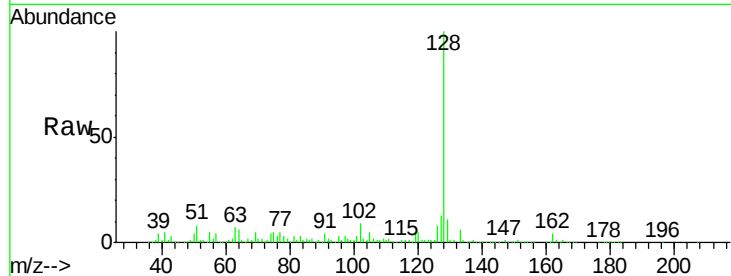




#95  
Naphthalene  
Concen: 277.062 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
OK-01-011519-B

Tot Ion:128 Resp: 374904  
Ion Ratio Lower Upper  
128 100  
127 14.0 11.0 16.4  
129 11.2 9.0 13.6



#96  
1,2,3-Trichlorobenzene  
Concen: 2.221 ug/l  
RT: 15.58 min Scan# 2244  
Delta R.T. 0.02 min  
Lab File: VW008309.D  
Acq: 16 Jan 2019 15:35

Tgt Ion:180 Resp: 1372  
Ion Ratio Lower Upper  
180 100  
182 44.2 46.5 139.3#  
145 0.0 17.4 52.2#

