

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122518\  
 Data File : VW007884.D  
 Acq On : 24 Dec 2018 13:16  
 Operator : SY/AP  
 Sample : J6446-08  
 Misc : 3.33G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 25 02:01:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 65722    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 105949   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 72490    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 21809    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 40891    | 56.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.54% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 33383    | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |
| 50) Toluene-d8              | 10.32 | 98   | 111817   | 45.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.78%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 29695    | 31.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 63.10%  |          |

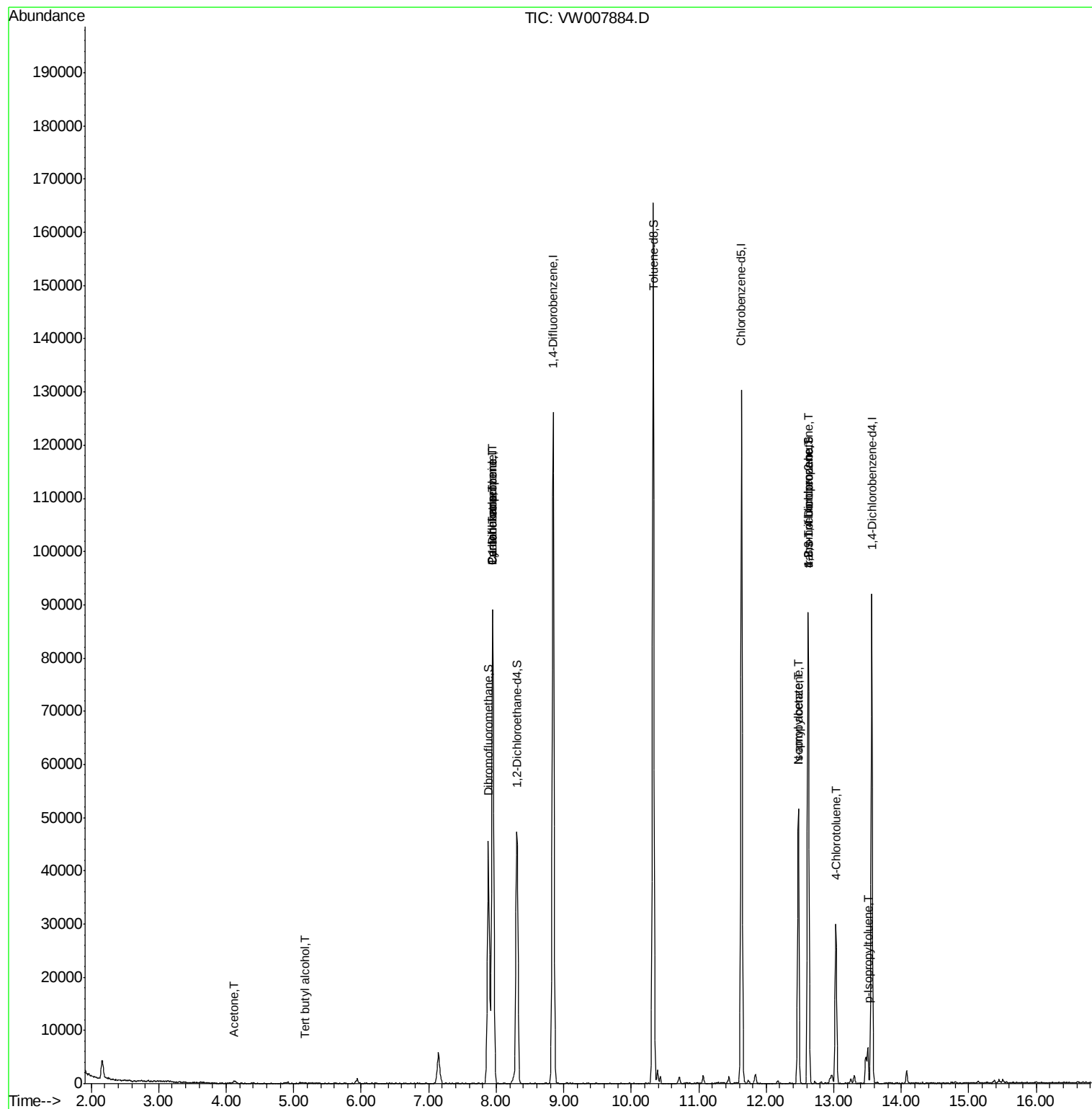
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 164      | 3.375     | ug/l # | 73     |
| 16) Acetone                    | 4.12  | 43   | 953      | 7.065     | ug/l # | 89     |
| 20) Methylene Chloride         | 4.92  | 84   | 133      | Below Cal | #      | 37     |
| 31) Cyclohexane                | 7.95  | 56   | 1444     | 1.347     | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5247     | 5.131     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7373     | 6.122     | ug/l # | 14     |
| 73) Isopropylbenzene           | 12.48 | 105  | 2471     | 1.499     | ug/l # | 58     |
| 74) N-amyl acetate             | 12.47 | 43   | 1062     | 3.719     | ug/l # | 12     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 14605    | 86.644    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 14605    | 181.872   | ug/l # | 9      |
| 82) 4-Chlorotoluene            | 13.03 | 91   | 3824     | 3.213     | ug/l # | 42     |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 4009     | 2.564     | ug/l # | 87     |

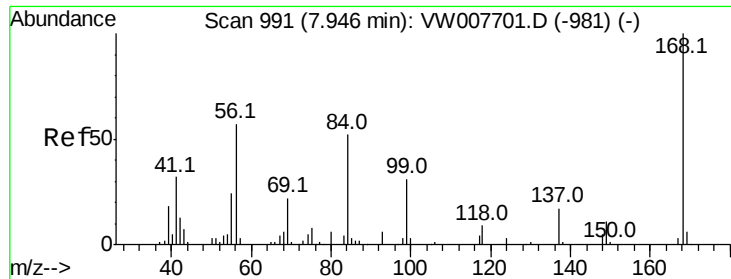
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 25 02:01:47 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

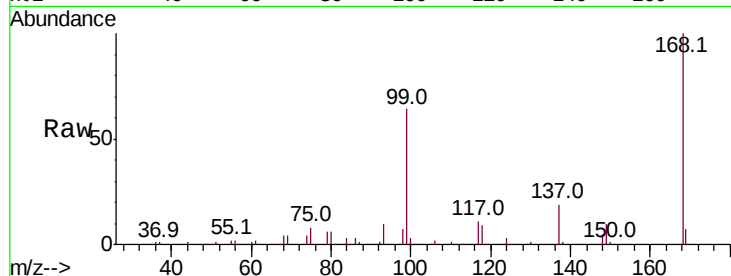
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 65722

Ion Ratio Lower Upper

168 100

99 63.7 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

30000

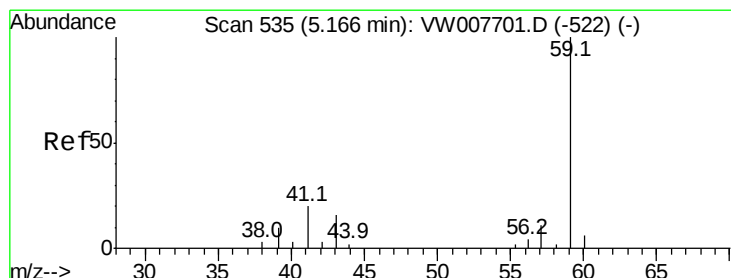
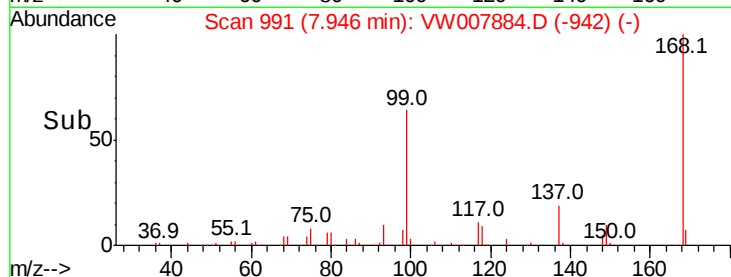
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#11

Tert butyl alcohol

Concen: 3.375 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW007884.D

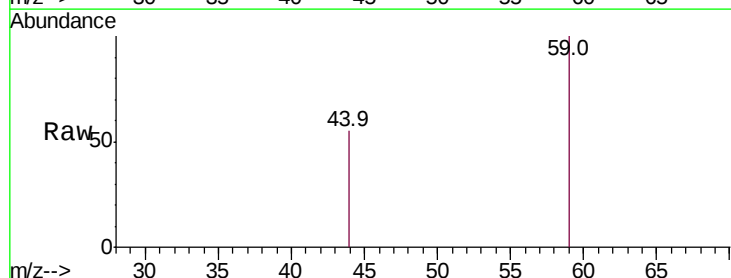
Acq: 24 Dec 2018 13:16

Tgt Ion: 59 Resp: 164

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

150

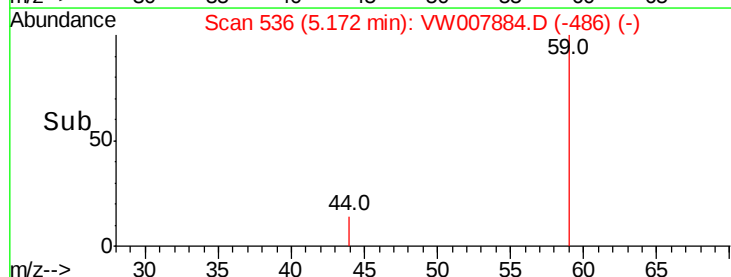
100

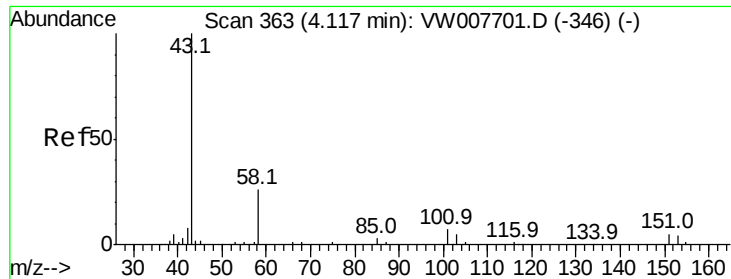
50

0

5.15 5.20

Time-->





#16

Acetone

Concen: 7.065 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

Instrument :

MSVOA\_W

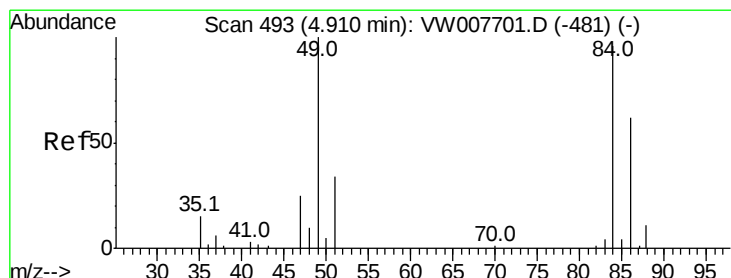
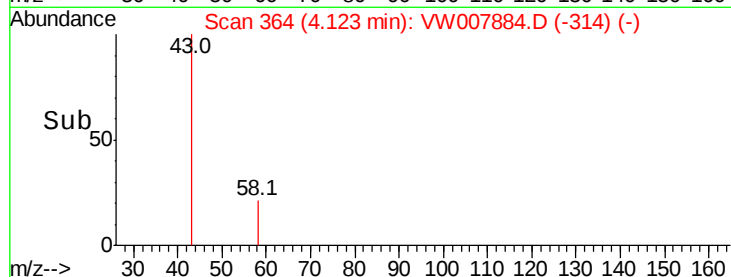
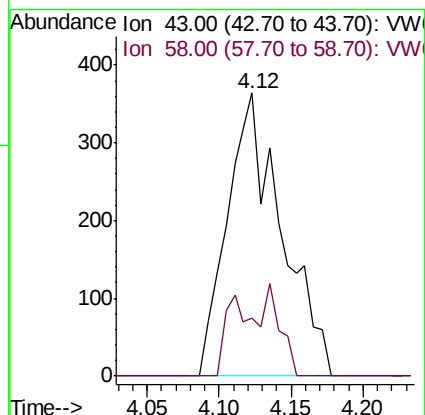
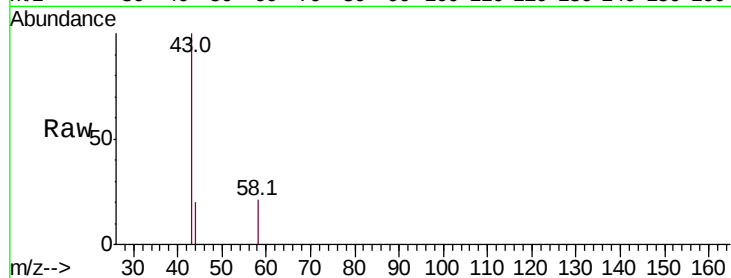
ClientSampleId :

Tot Ion: 43 Resp: 953

Ion Ratio Lower Upper

43 100

58 20.6 21.2 31.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

Tgt Ion: 84 Resp: 133

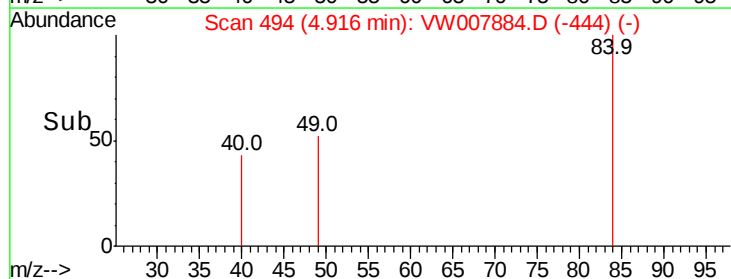
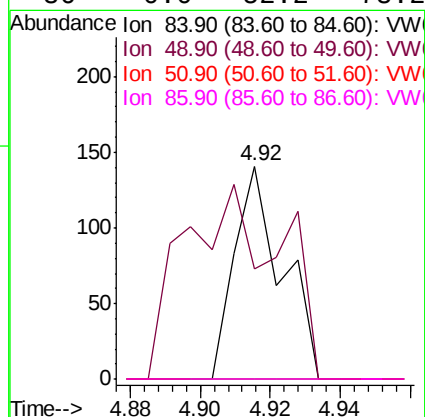
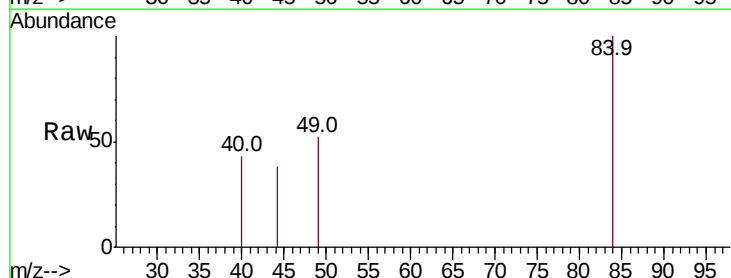
Ion Ratio Lower Upper

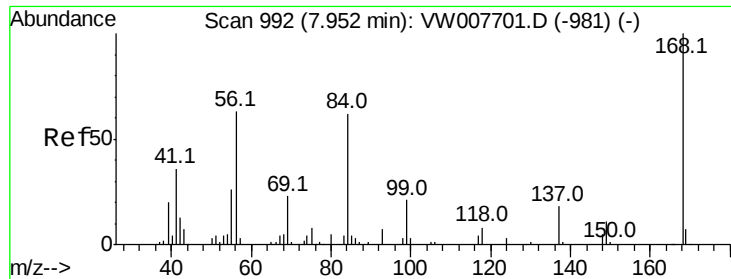
84 100

49 51.8 83.7 125.5#

51 0.0 28.2 42.2#

86 0.0 52.2 78.2#

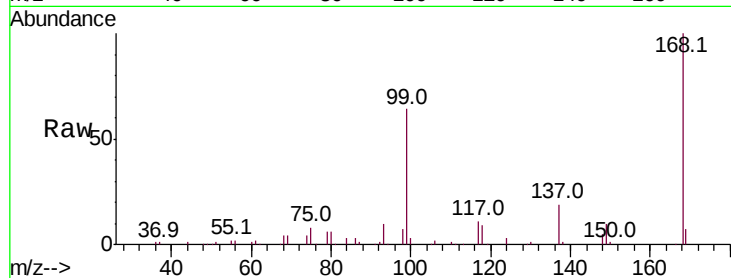




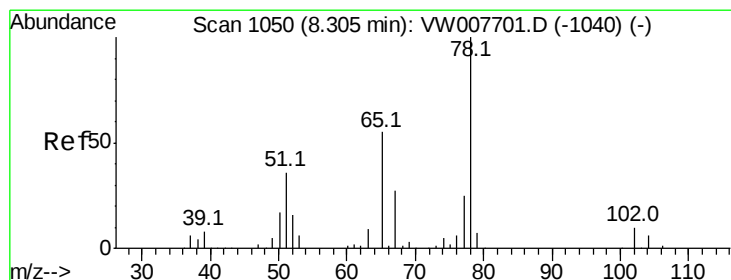
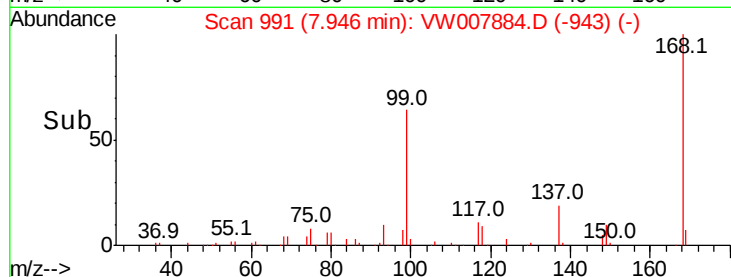
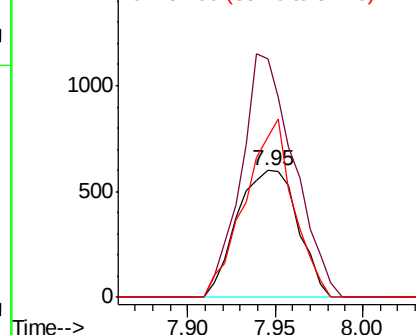
#31  
Cyclohexane  
Concen: 1.347 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW007884.D  
Acq: 24 Dec 2018 13:16

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 1444  
Ion Ratio Lower Upper  
56 100  
69 187.8 29.7 44.5#  
84 126.5 78.9 118.3#

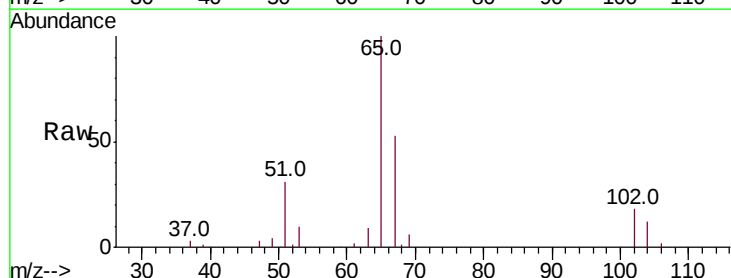


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

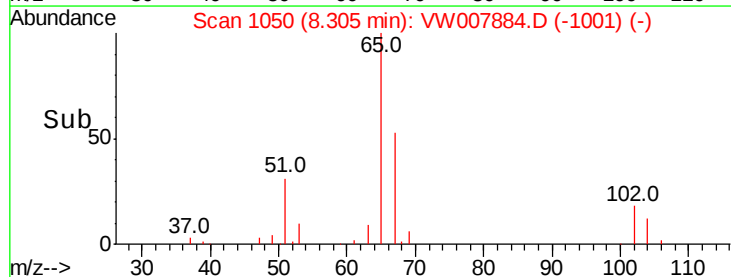
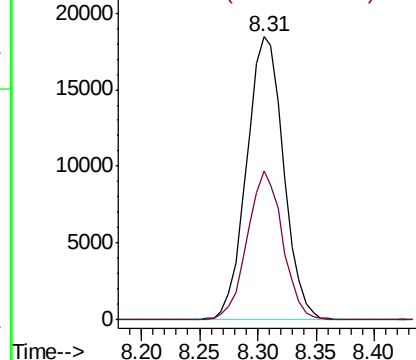


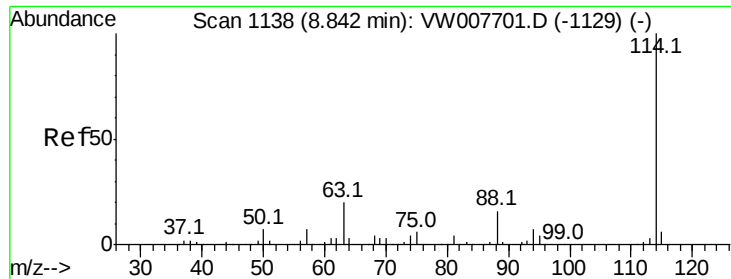
#33  
1,2-Dichloroethane-d4  
Concen: 56.766 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW007884.D  
Acq: 24 Dec 2018 13:16

Tgt Ion: 65 Resp: 40891  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 100.6



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

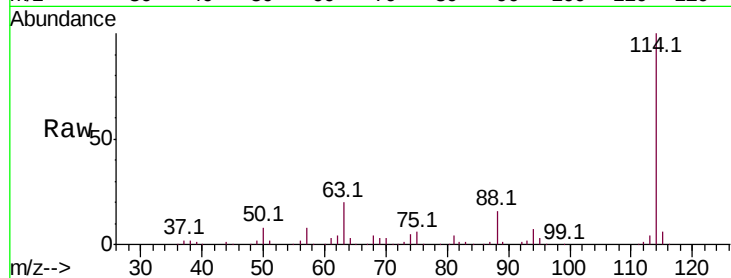




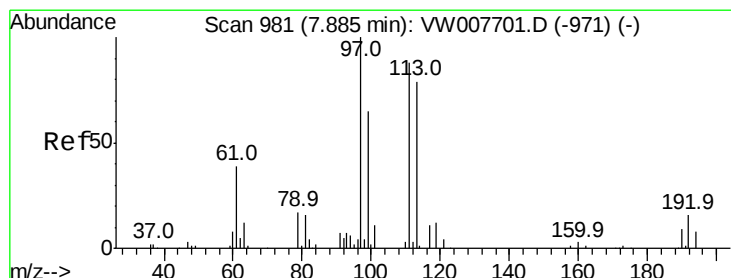
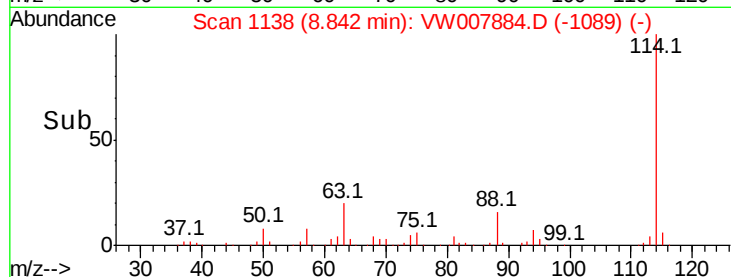
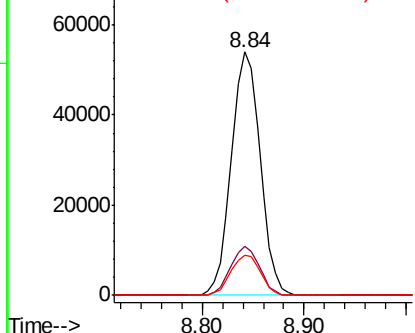
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007884.D  
 Acq: 24 Dec 2018 13:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.2  | 0.0   | 40.0  |
| 88      | 16.3  | 0.0   | 32.6  |

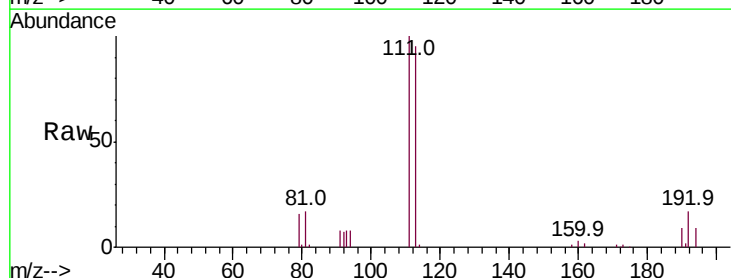


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

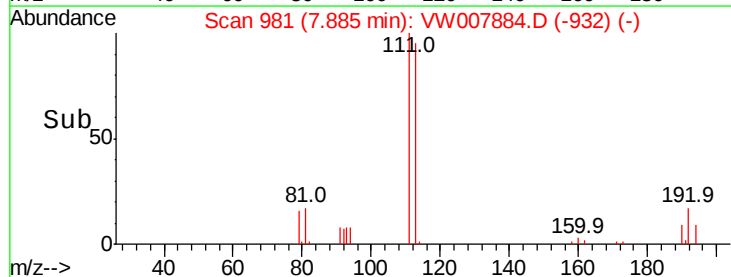
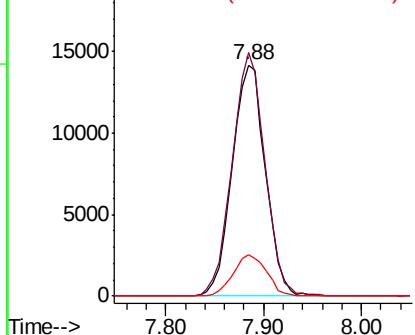


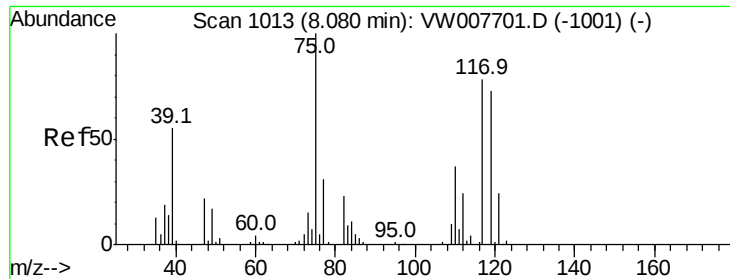
#35  
 Dibromofluoromethane  
 Concen: 51.649 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW007884.D  
 Acq: 24 Dec 2018 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.1 | 82.6  | 124.0 |
| 192     | 17.9  | 15.5  | 23.3  |



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

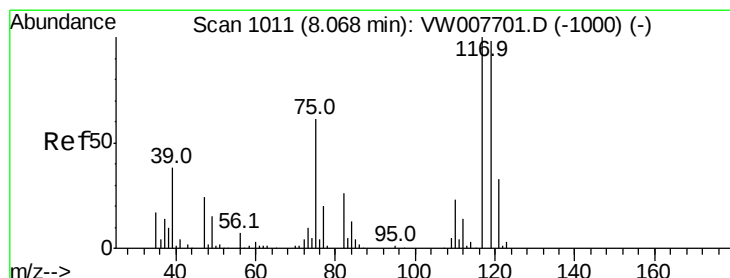
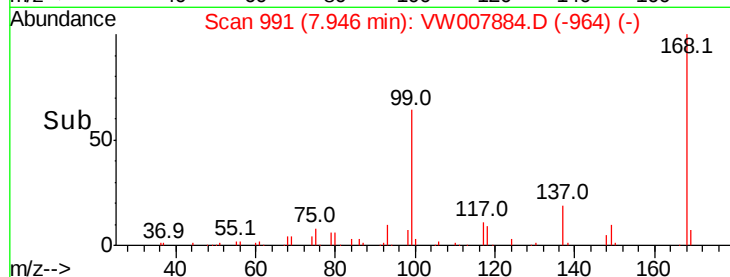
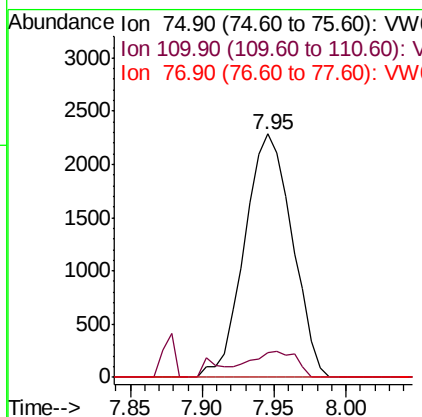
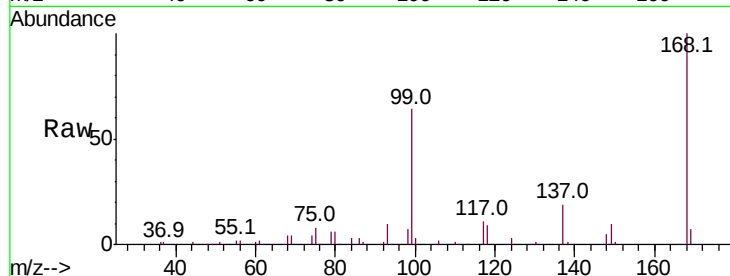




#36  
 1,1-Dichloropropene  
 Concen: 5.131 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007884.D  
 Acq: 24 Dec 2018 13:16

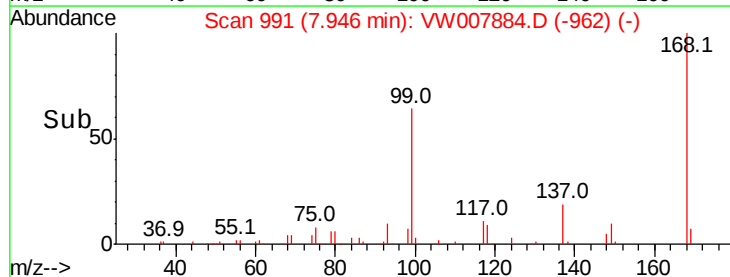
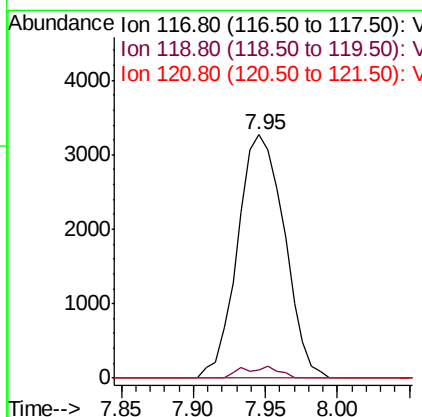
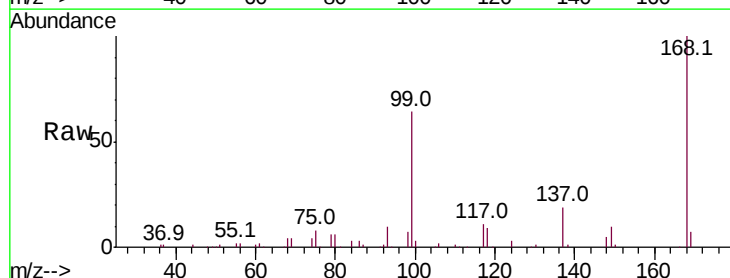
Instrument :  
 MSVOA\_W  
 ClientSampleId :

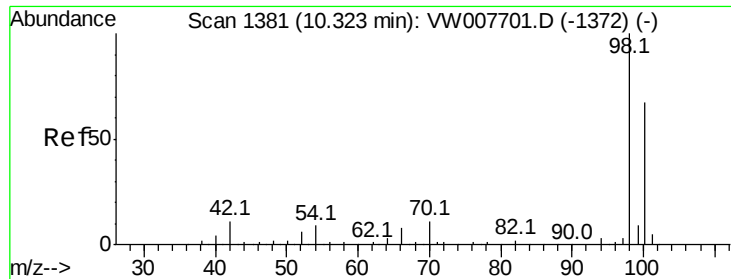
Tot Ion: 75 Resp: 5247  
 Ion Ratio Lower Upper  
 75 100  
 110 10.2 18.6 55.8#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.122 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW007884.D  
 Acq: 24 Dec 2018 13:16

Tgt Ion: 117 Resp: 7373  
 Ion Ratio Lower Upper  
 117 100  
 119 3.4 78.2 117.2#  
 121 0.0 26.1 39.1#





#50

Toluene-d8

Concen: 45.890 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

Instrument :

MSVOA\_W

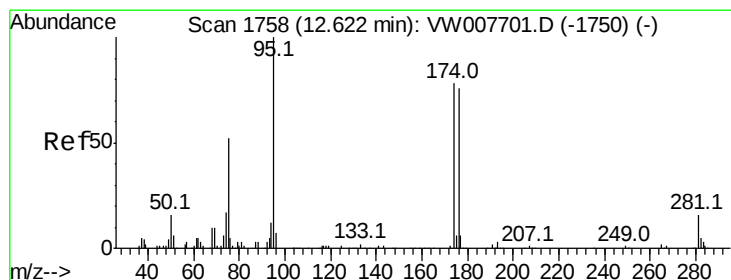
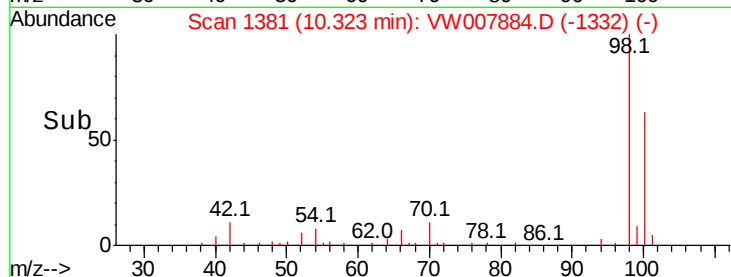
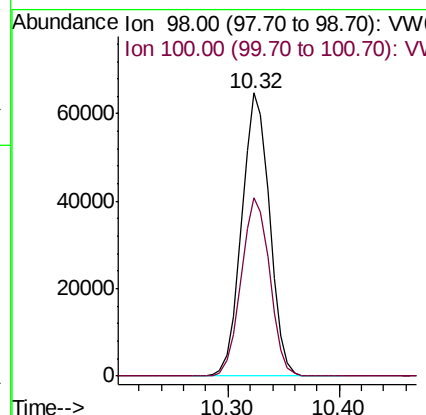
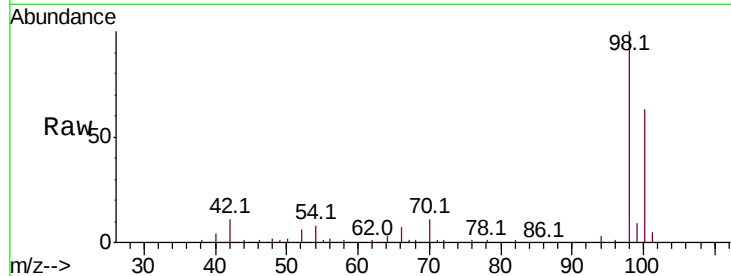
ClientSampleId :

Tot Ion: 98 Resp: 111817

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 31.546 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

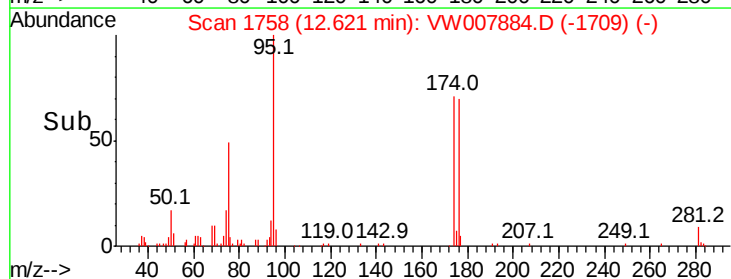
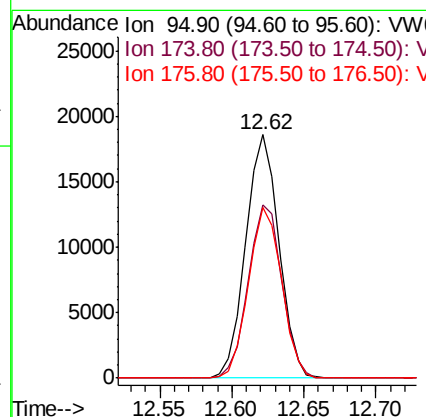
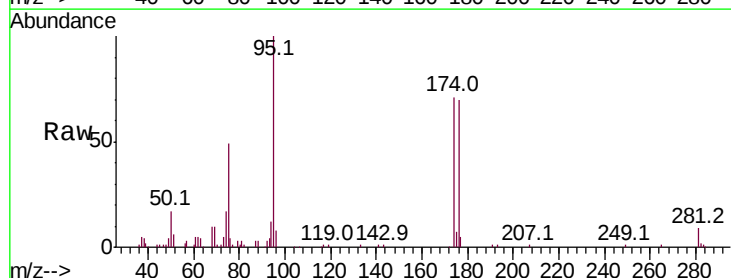
Tgt Ion: 95 Resp: 29695

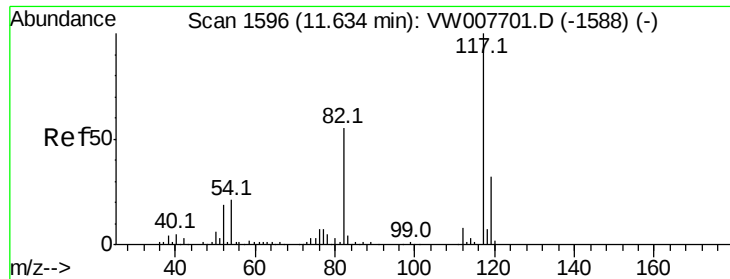
Ion Ratio Lower Upper

95 100

174 72.2 0.0 152.2

176 69.9 0.0 146.8

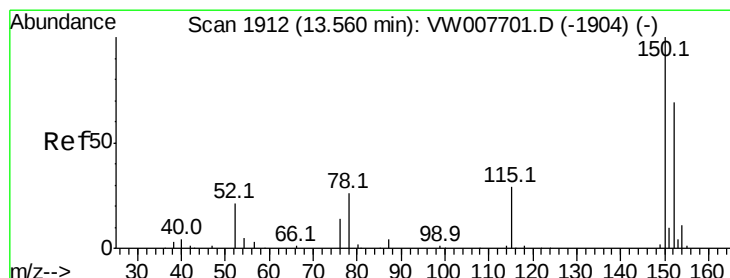
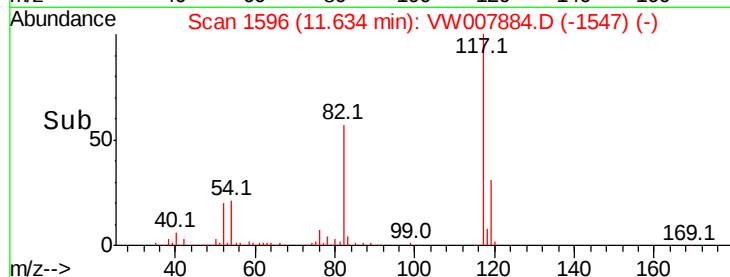
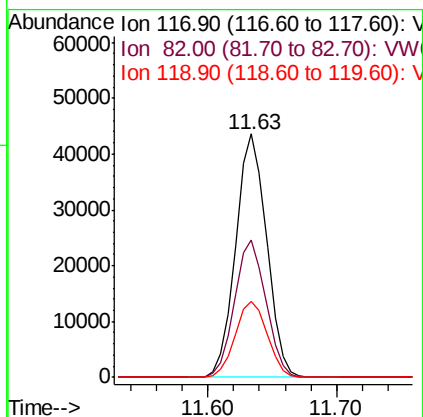
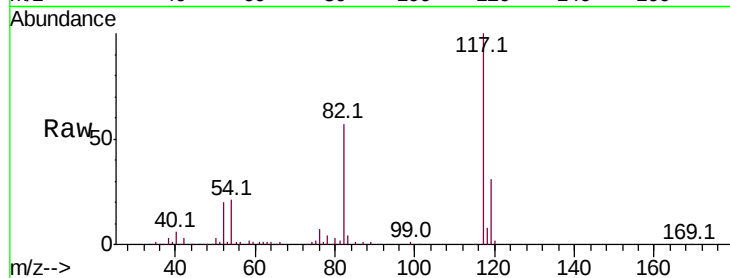




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007884.D  
Acq: 24 Dec 2018 13:16

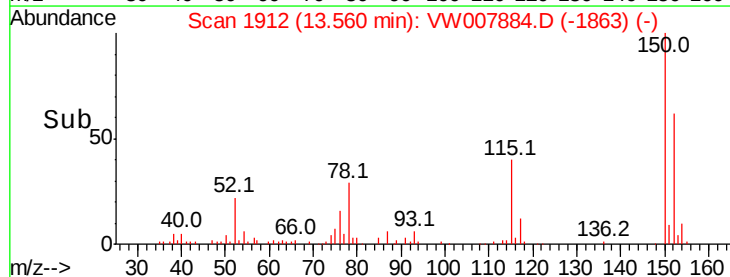
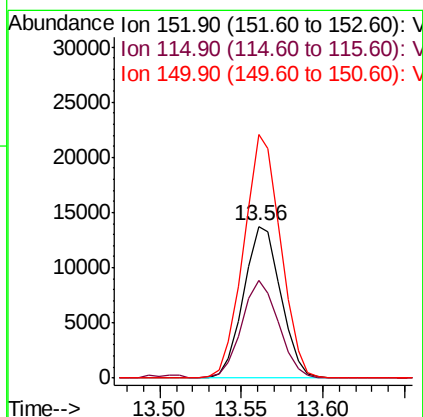
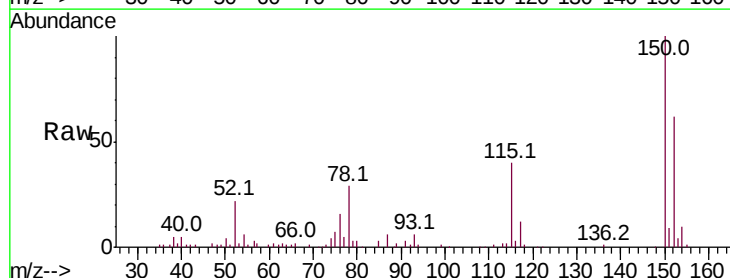
Instrument :  
MSVOA\_W  
ClientSampled :

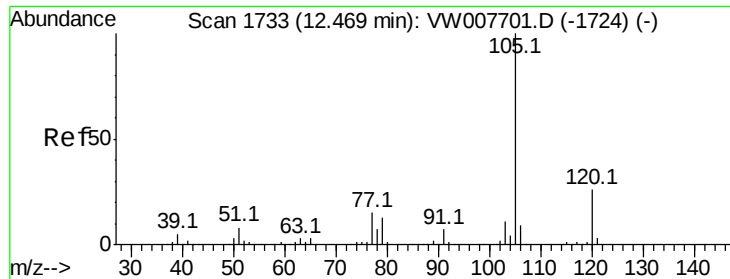
Tot Ion:117 Resp: 72490  
Ion Ratio Lower Upper  
117 100  
82 56.6 44.3 66.5  
119 31.4 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007884.D  
Acq: 24 Dec 2018 13:16

Tgt Ion:152 Resp: 21809  
Ion Ratio Lower Upper  
152 100  
115 64.3 31.8 95.4  
150 159.9 0.0 350.8





#73

Isopropylbenzene

Concen: 1.499 ug/l

RT: 12.48 min Scan# 1734

Delta R.T. 0.01 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

Instrument :

MSVOA\_W

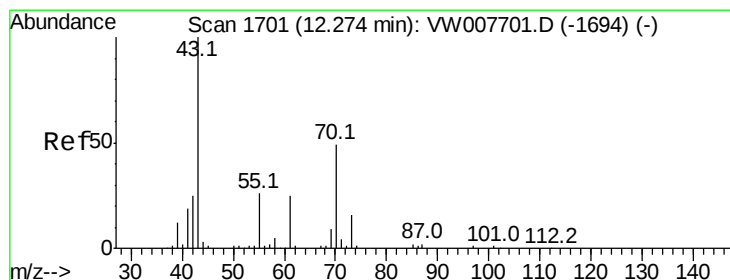
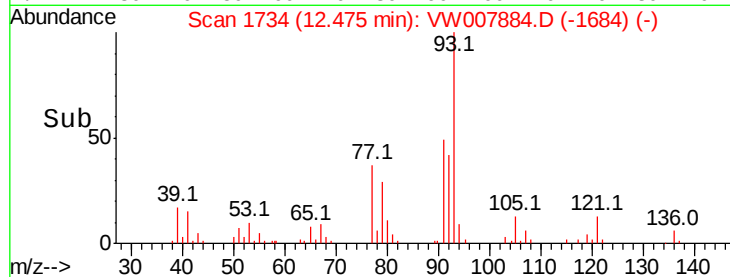
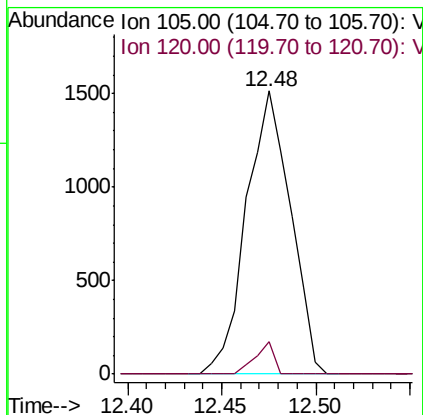
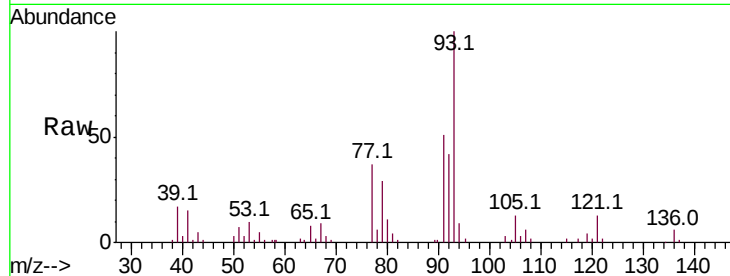
ClientSampleId :

Tot Ion:105 Resp: 2471

Ion Ratio Lower Upper

105 100

120 4.8 13.1 39.3#



#74

N-ethyl acetate

Concen: 3.719 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.20 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

Tgt Ion: 43 Resp: 1062

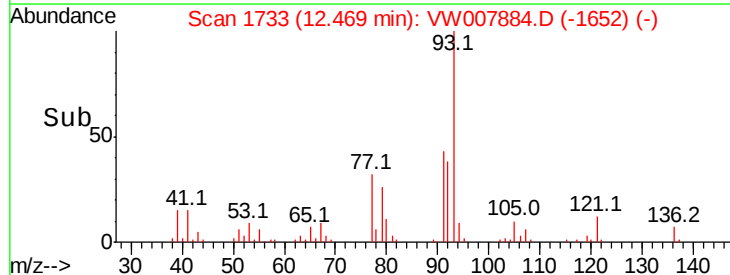
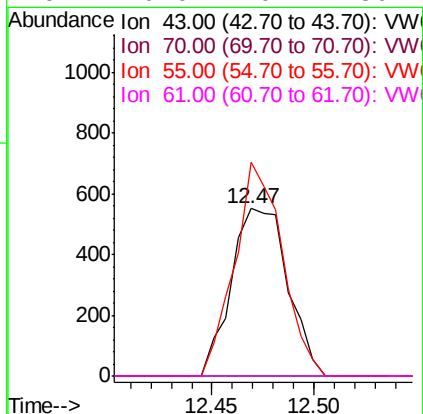
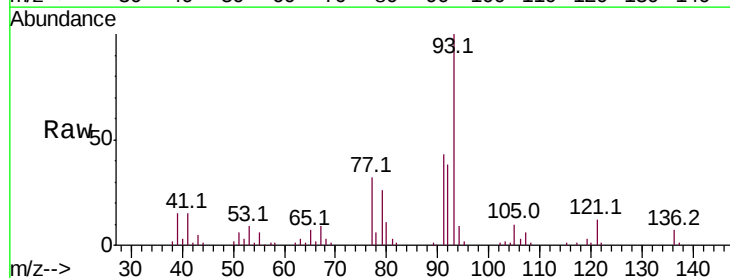
Ion Ratio Lower Upper

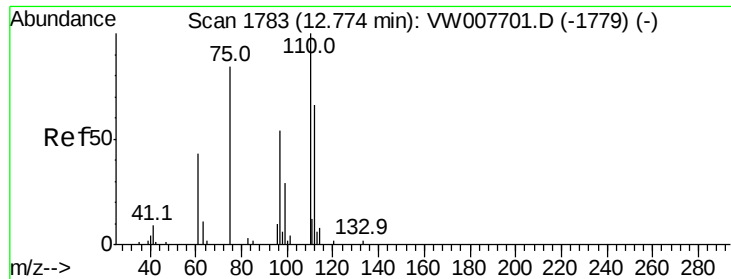
43 100

70 0.0 37.6 56.4#

55 107.3 21.7 32.5#

61 0.0 20.1 30.1#





#76

1,2,3-Trichloropropane

Concen: 86.644 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

Instrument :

MSVOA\_W

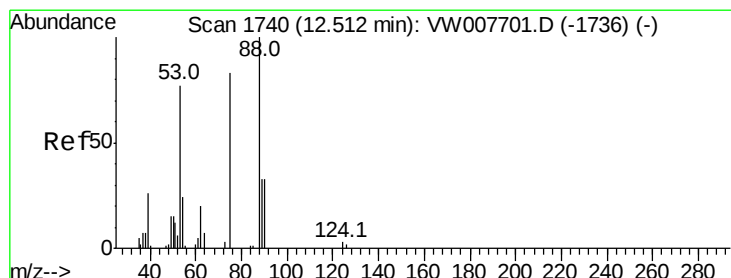
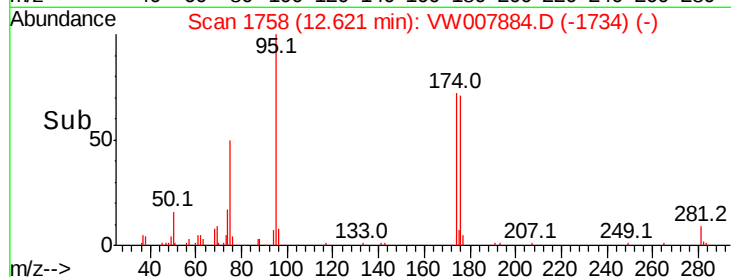
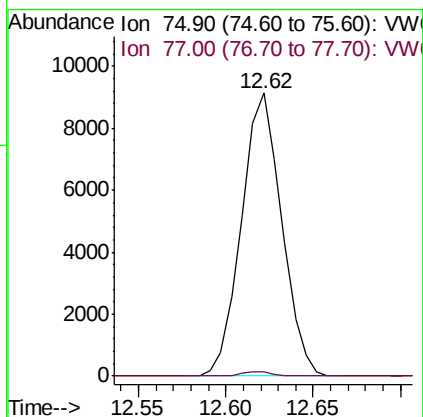
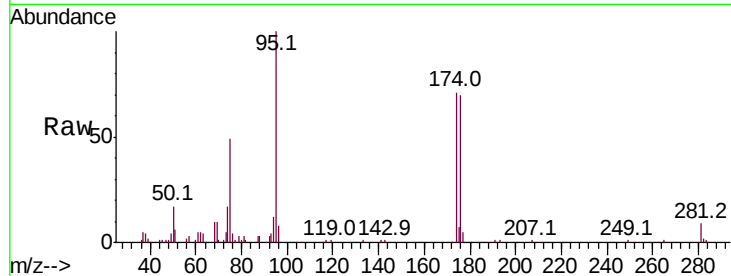
ClientSampled :

Tot Ion: 75 Resp: 14605

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 181.872 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007884.D

Acq: 24 Dec 2018 13:16

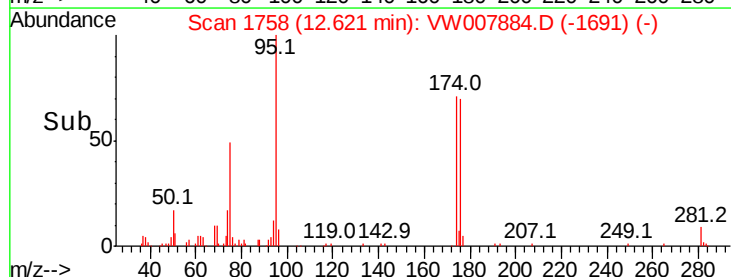
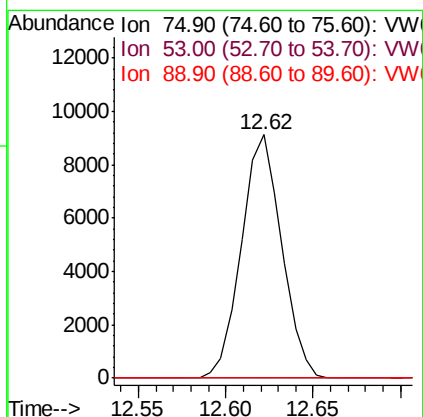
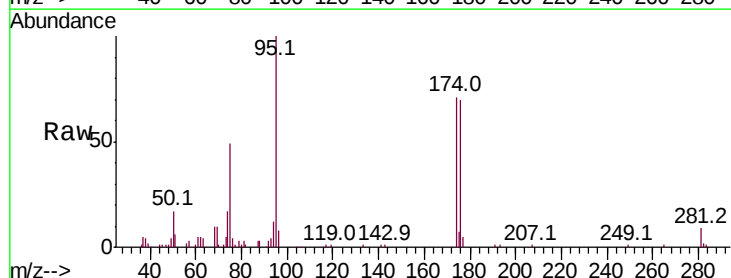
Tgt Ion: 75 Resp: 14605

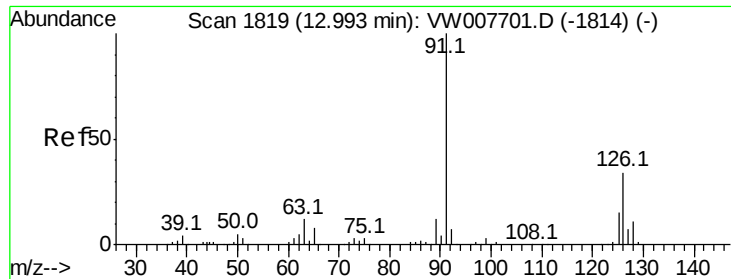
Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#

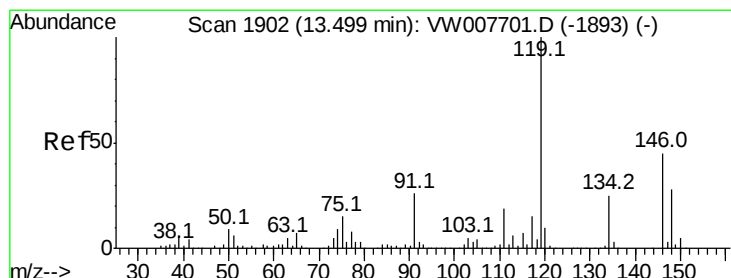
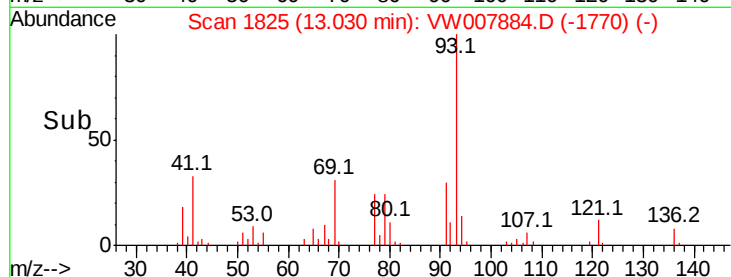
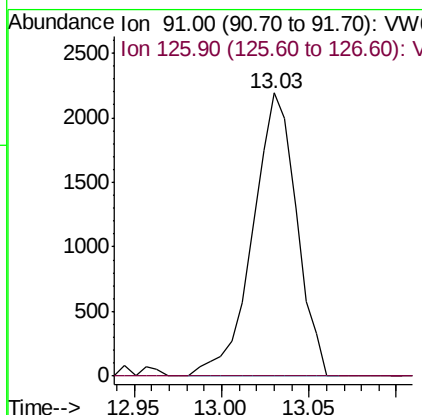
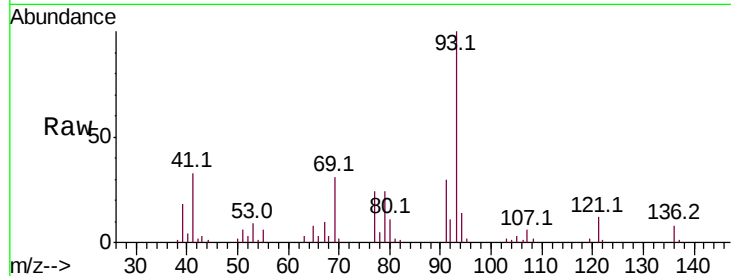




#82  
4-Chlorotoluene  
Concen: 3.213 ug/l  
RT: 13.03 min Scan# 1825  
Delta R.T. 0.04 min  
Lab File: VW007884.D  
Acq: 24 Dec 2018 13:16

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 91 Resp: 3824  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.5 49.5#



#86  
p-Isopropyltoluene  
Concen: 2.564 ug/l  
RT: 13.50 min Scan# 1902  
Delta R.T. -0.00 min  
Lab File: VW007884.D  
Acq: 24 Dec 2018 13:16

Tgt Ion: 119 Resp: 4009  
Ion Ratio Lower Upper  
119 100  
134 25.9 13.0 39.0  
91 39.1 12.8 38.4#

