

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090119\  
 Data File : VW012471.D  
 Acq On : 02 Sep 2019 02:24  
 Operator : SY/VA  
 Sample : K4527-15  
 Misc : 4.02G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-O-(0)

Quant Time: Sep 02 07:25:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 147213   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 244872   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 152755   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 36519    | 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   | 108029   | 61.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 123.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 81196    | 55.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.10% |          |
| 50) Toluene-d8              | 10.32 | 98   | 263835   | 44.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.04%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 56546    | 27.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 54.14%  |          |

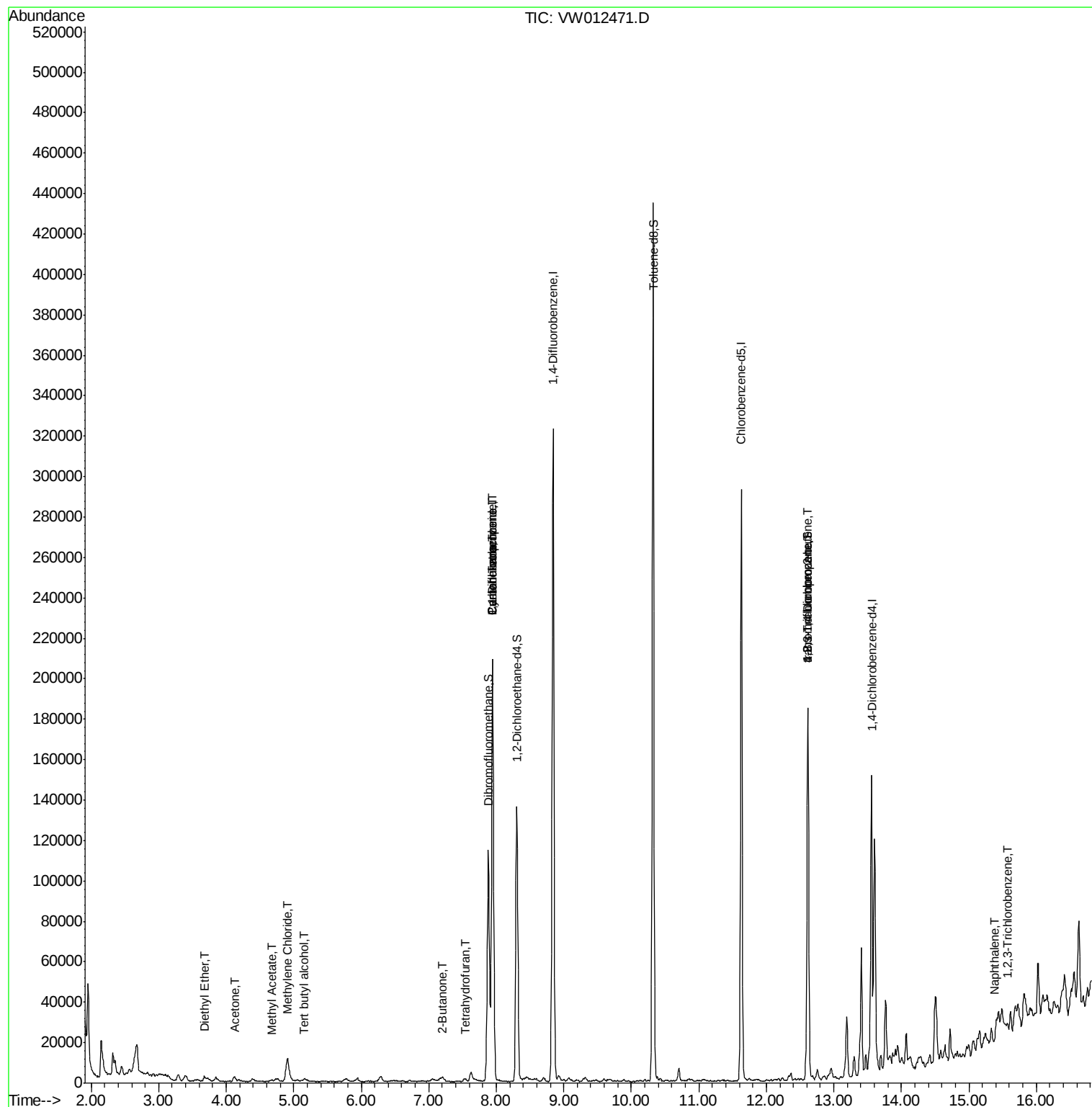
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 949      | 1.158   | ug/l   | 85     |
| 11) Tert butyl alcohol         | 5.16  | 59   | 1388     | 13.180  | ug/l # | 80     |
| 16) Acetone                    | 4.12  | 43   | 4111     | 9.190   | ug/l   | 99     |
| 18) Methyl Acetate             | 4.67  | 43   | 1960     | 1.769   | ug/l # | 81     |
| 20) Methylene Chloride         | 4.91  | 84   | 7884     | 4.662   | ug/l   | 90     |
| 25) 2-Butanone                 | 7.19  | 43   | 1372     | 2.257   | ug/l # | 84     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 1000     | 2.742   | ug/l # | 57     |
| 31) Cyclohexane                | 7.95  | 56   | 4040     | 1.282   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 13044    | 5.155   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 15249    | 6.962   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 30767    | 86.505  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 30767    | 189.664 | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128  | 407      | 4.591   | ug/l # | 69     |
| 96) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 780      | 1.274   | ug/l # | 43     |

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

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Sample : K4527-15  
Misc : 4.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

Quant Time: Sep 02 07:25:05 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
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: VW012471.D

Acq: 02 Sep 2019 02:24

Instrument :

MSVOA\_W

ClientSampleId :

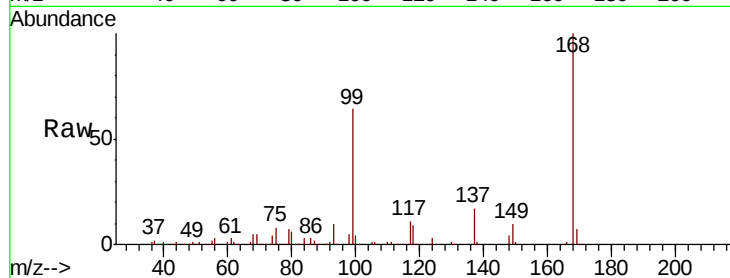
T9-12-13-O-(0)

Tgt Ion:168 Resp: 147213

Ion Ratio Lower Upper

168 100

99 64.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

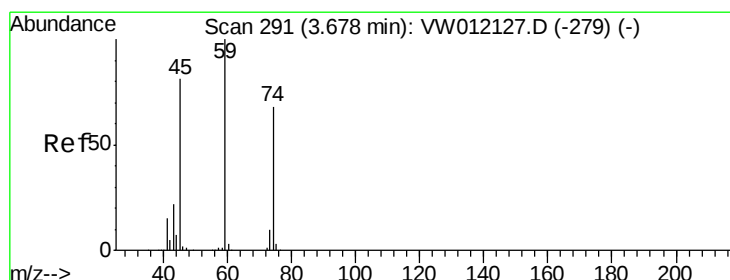
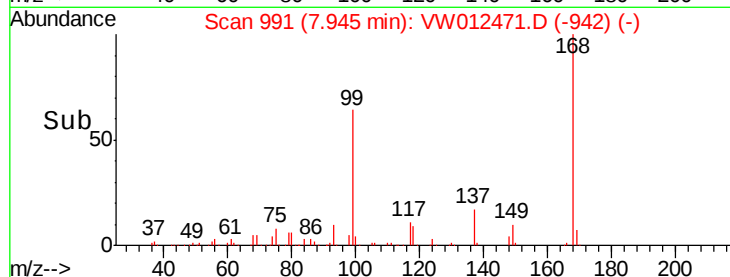
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.158 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012471.D

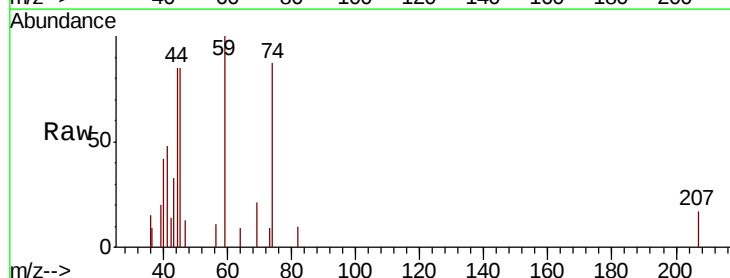
Acq: 02 Sep 2019 02:24

Tgt Ion: 74 Resp: 949

Ion Ratio Lower Upper

74 100

45 134.7 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

600

500

400

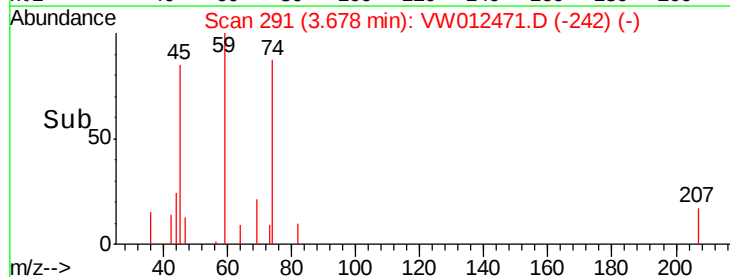
300

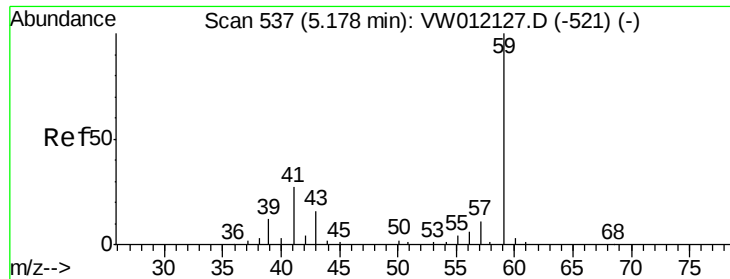
200

100

0

Time-->

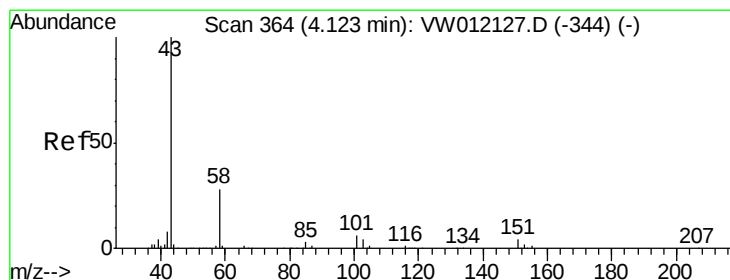
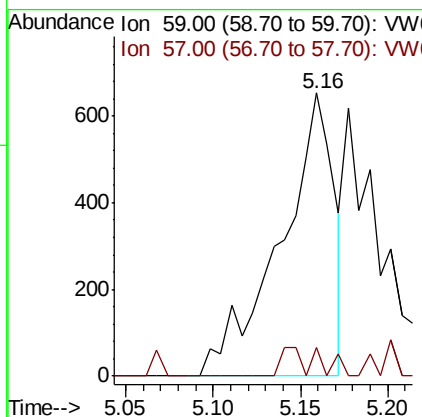
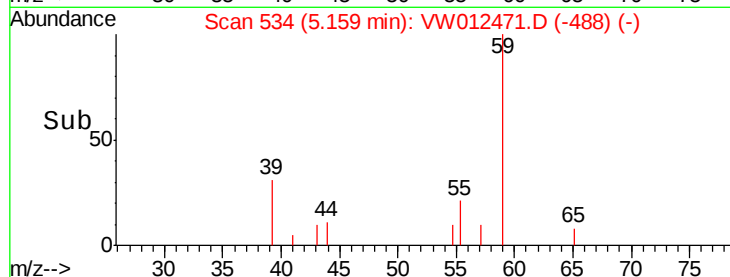
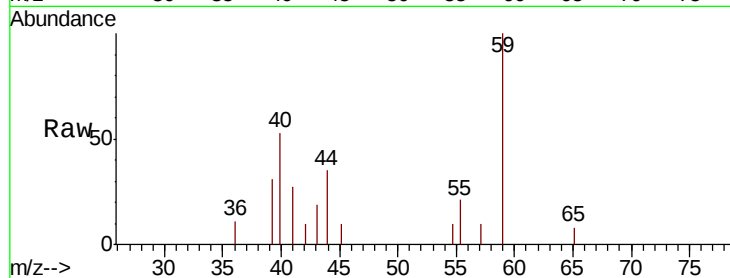




#11  
Tert butyl alcohol  
Concen: 13.180 ug/l  
RT: 5.16 min Scan# 534  
Delta R.T. -0.02 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

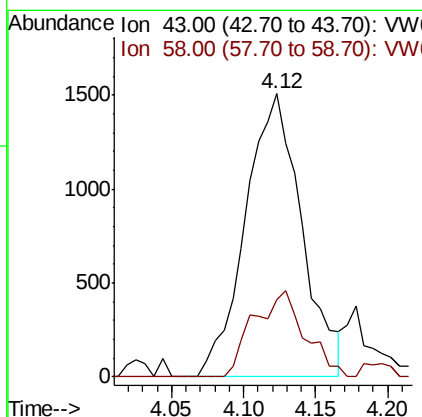
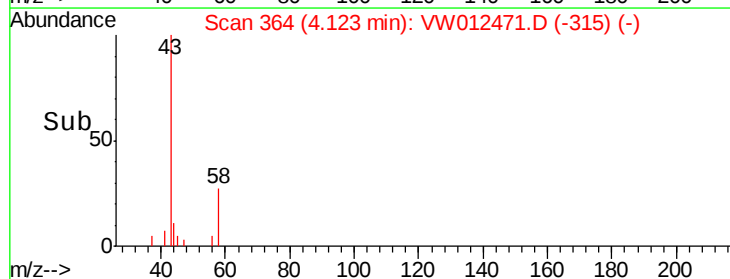
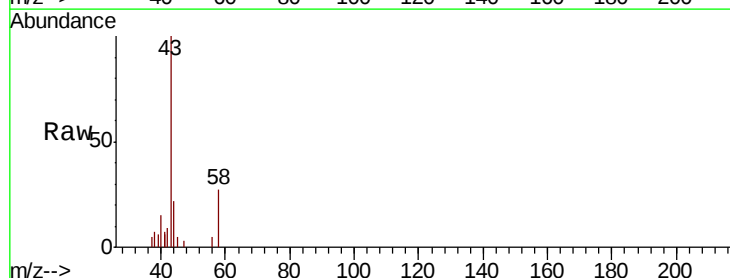
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

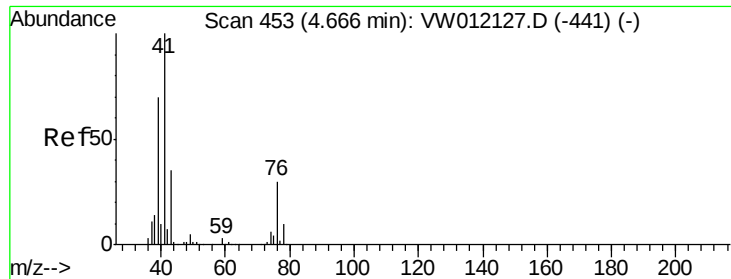
Tgt Ion: 59 Resp: 1388  
Ion Ratio Lower Upper  
59 100  
57 3.5 9.0 13.4#



#16  
Acetone  
Concen: 9.190 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. -0.00 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Tgt Ion: 43 Resp: 4111  
Ion Ratio Lower Upper  
43 100  
58 27.4 22.4 33.6

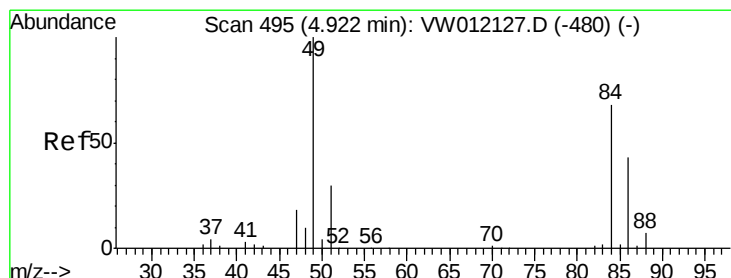
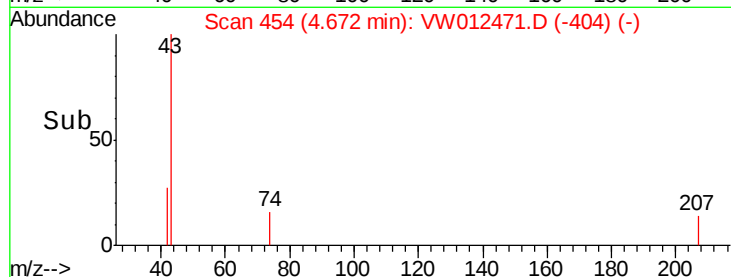
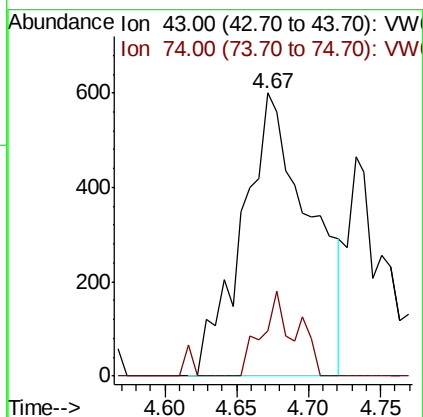
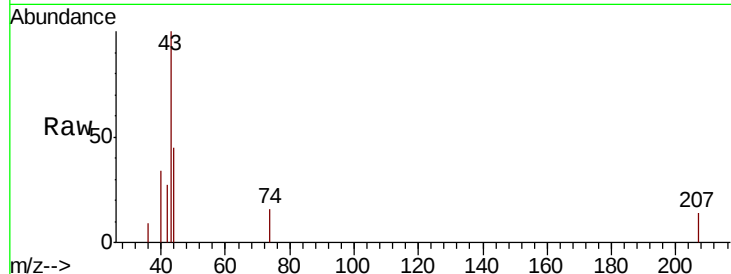




#18  
Methyl Acetate  
Concen: 1.769 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

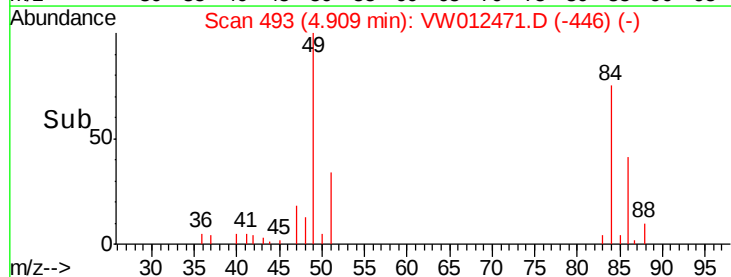
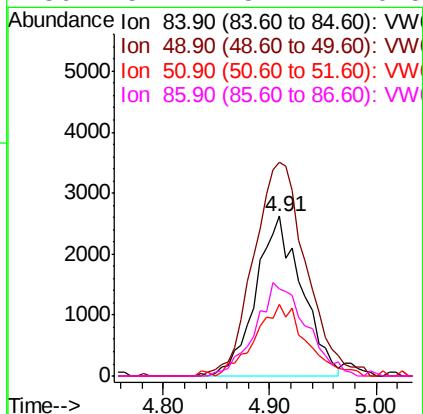
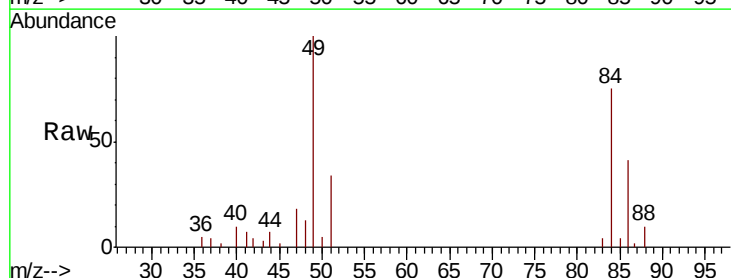
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

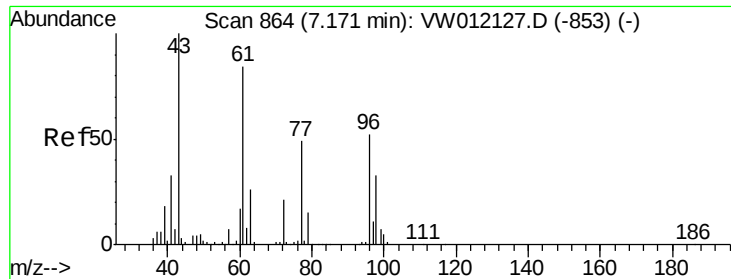
Tgt Ion: 43 Resp: 1960  
Ion Ratio Lower Upper  
43 100  
74 11.1 15.7 23.5#



#20  
Methylene Chloride  
Concen: 4.662 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Tgt Ion: 84 Resp: 7884  
Ion Ratio Lower Upper  
84 100  
49 133.5 117.8 176.8  
51 44.9 35.6 53.4  
86 54.2 51.2 76.8

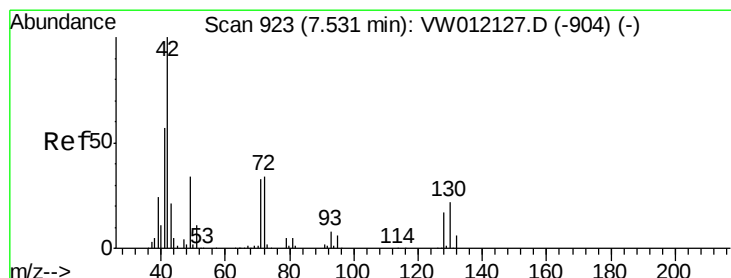
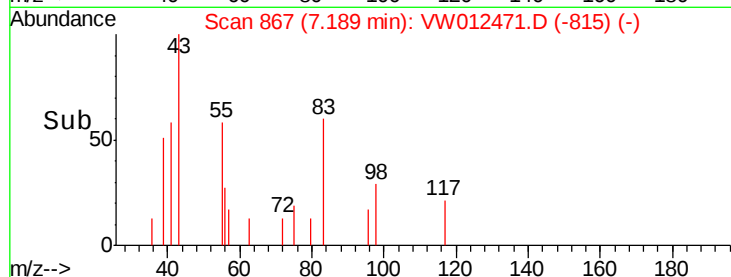
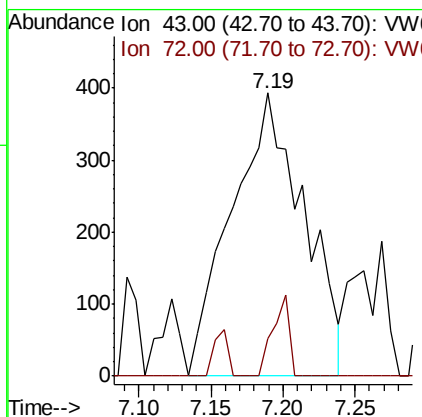
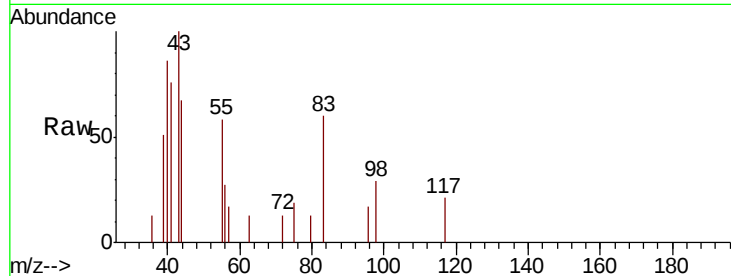




#25  
2-Butanone  
Concen: 2.257 ug/l  
RT: 7.19 min Scan# 867  
Delta R.T. 0.02 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

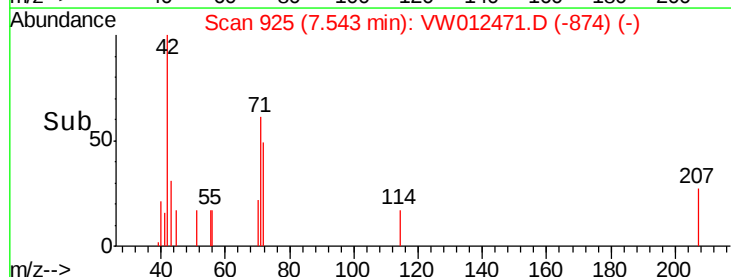
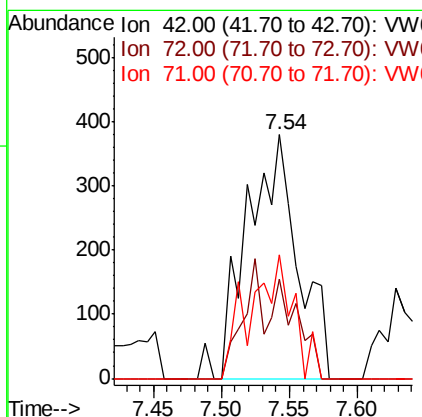
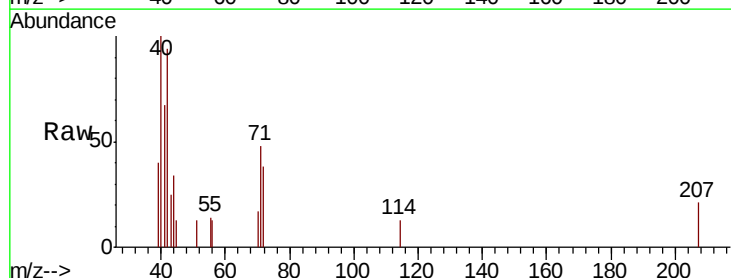
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

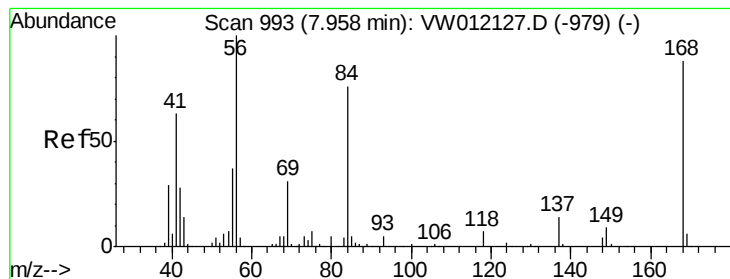
Tgt Ion: 43 Resp: 1372  
Ion Ratio Lower Upper  
43 100  
72 13.2 16.6 24.8#



#29  
Tetrahydrofuran  
Concen: 2.742 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Tgt Ion: 42 Resp: 1000  
Ion Ratio Lower Upper  
42 100  
72 17.6 27.3 40.9#  
71 0.0 25.5 38.3#





#31

Cyclohexane

Concen: 1.282 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012471.D

Acq: 02 Sep 2019 02:24

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-O-(0)

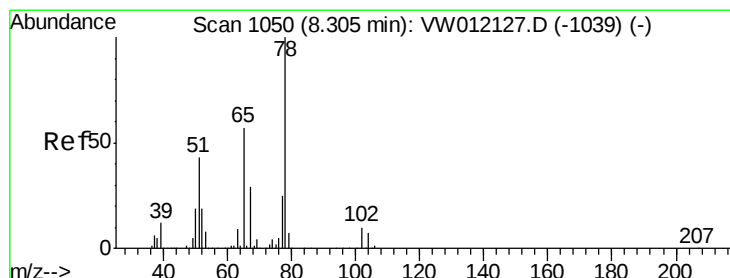
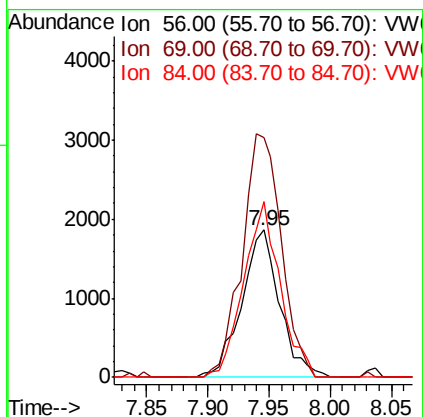
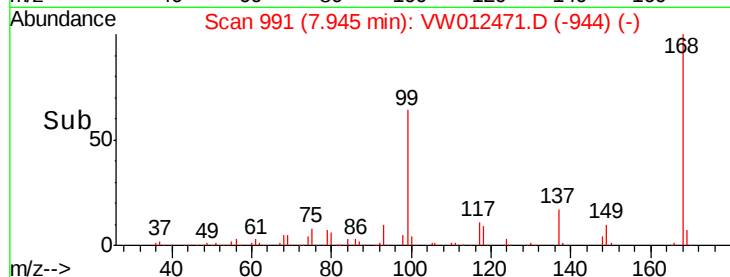
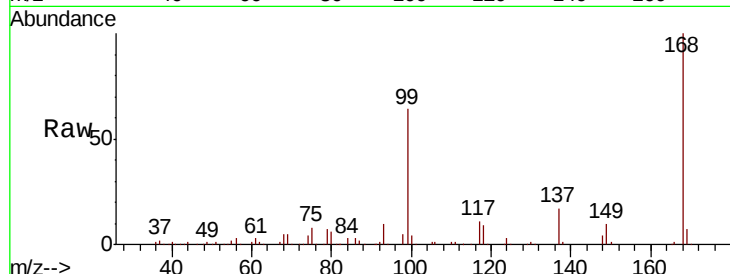
Tgt Ion: 56 Resp: 4040

Ion Ratio Lower Upper

56 100

69 162.6 24.9 37.3#

84 119.2 60.6 90.8#



#33

1,2-Dichloroethane-d4

Concen: 61.731 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012471.D

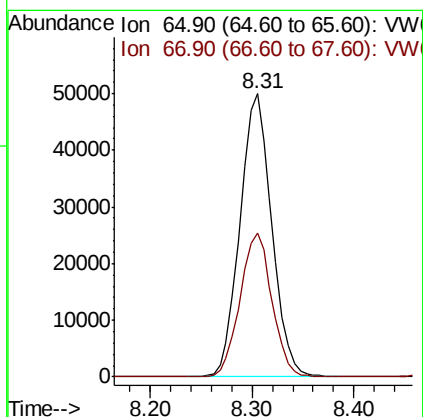
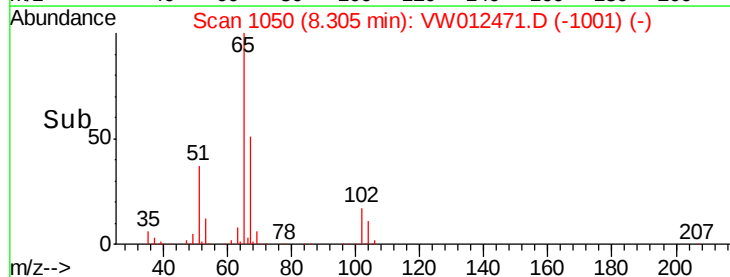
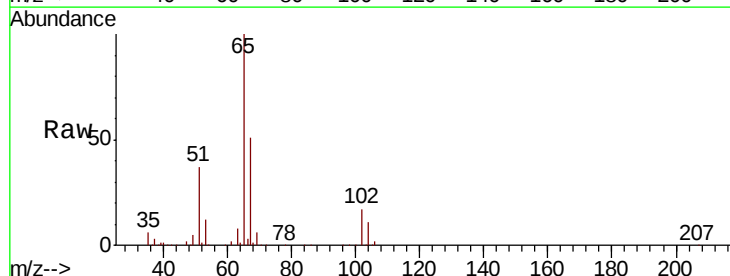
Acq: 02 Sep 2019 02:24

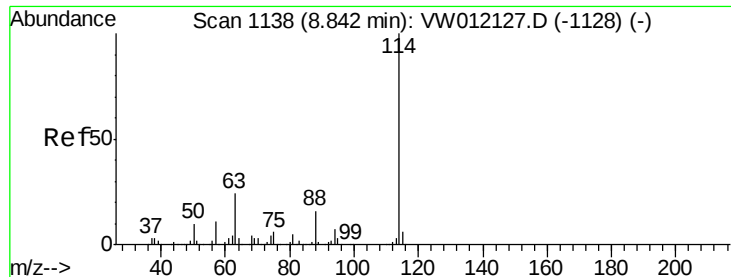
Tgt Ion: 65 Resp: 108029

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.6

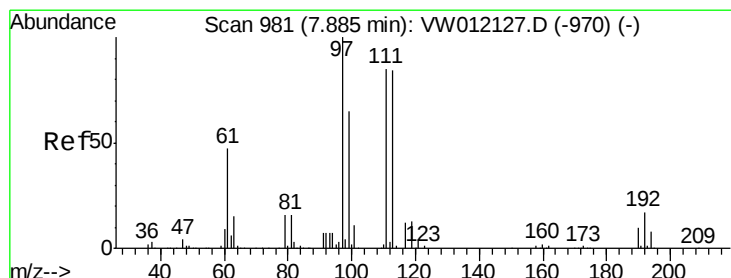
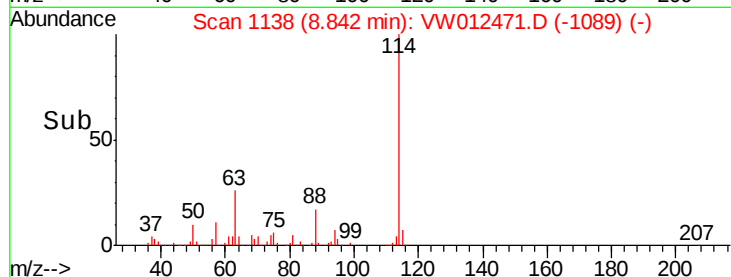
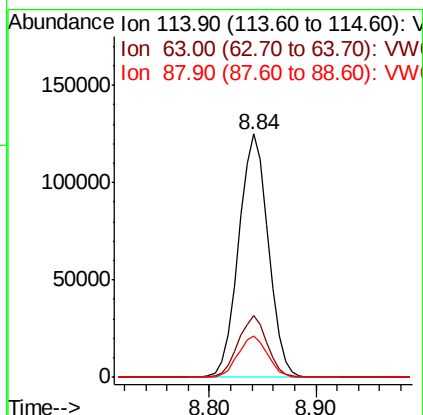
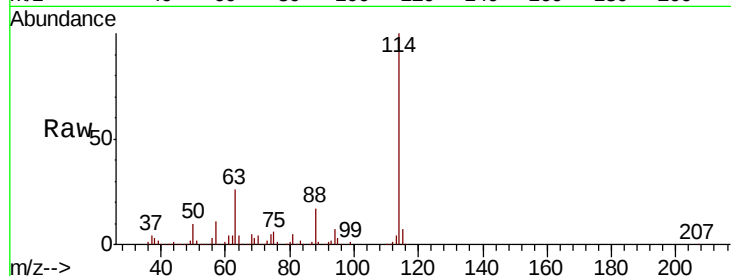




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012471.D  
 Acq: 02 Sep 2019 02:24

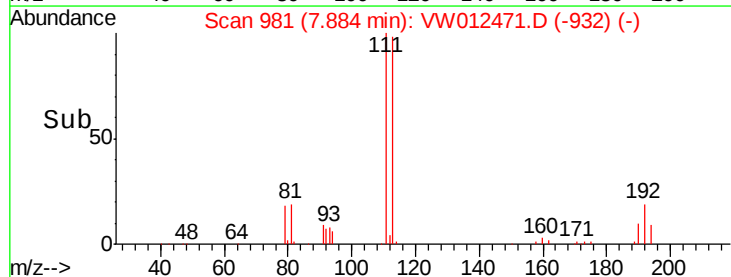
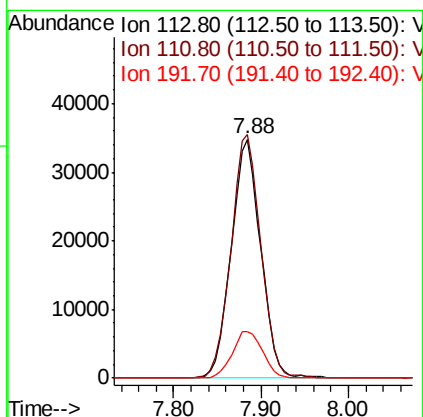
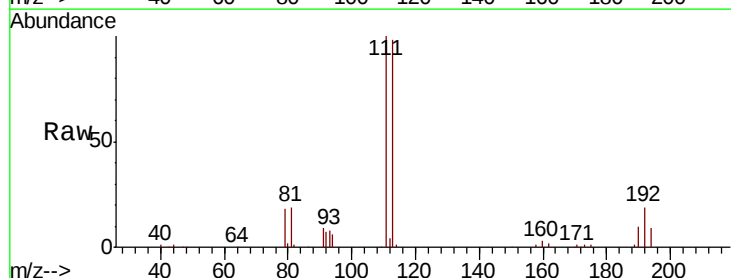
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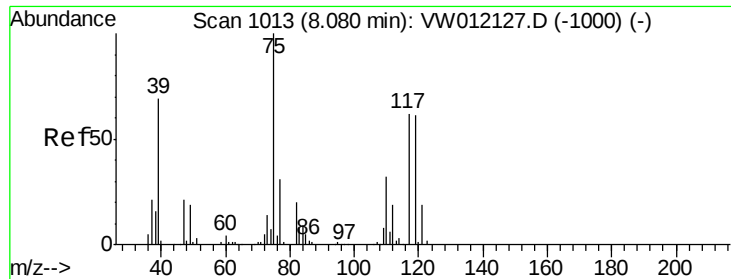
Tgt Ion:114 Resp: 244872  
 Ion Ratio Lower Upper  
 114 100  
 63 25.5 0.0 48.6  
 88 16.9 0.0 32.2



#35  
 Dibromofluoromethane  
 Concen: 55.551 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012471.D  
 Acq: 02 Sep 2019 02:24

Tgt Ion:113 Resp: 81196  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 82.7 124.1  
 192 20.2 16.2 24.2

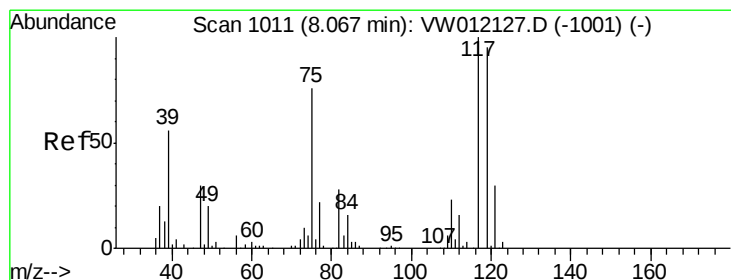
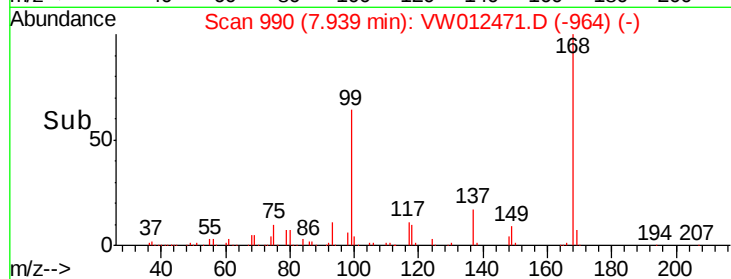
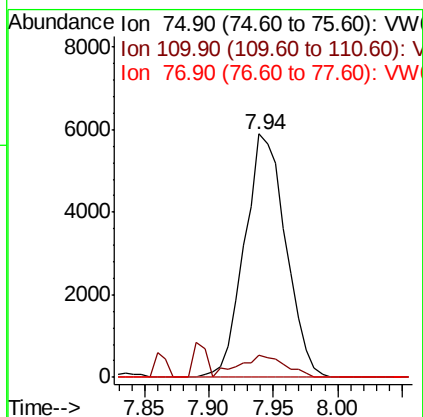
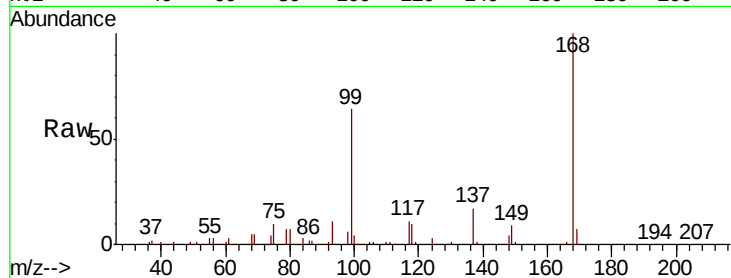




#36  
 1,1-Dichloropropene  
 Concen: 5.155 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW012471.D  
 Acq: 02 Sep 2019 02:24

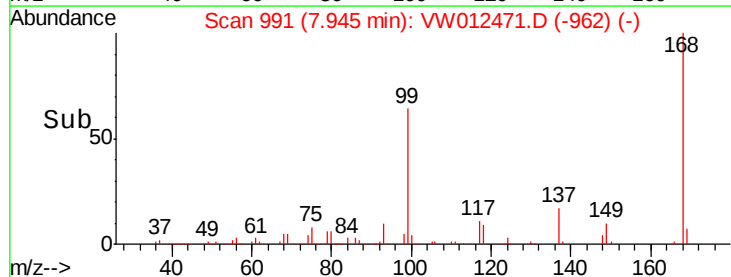
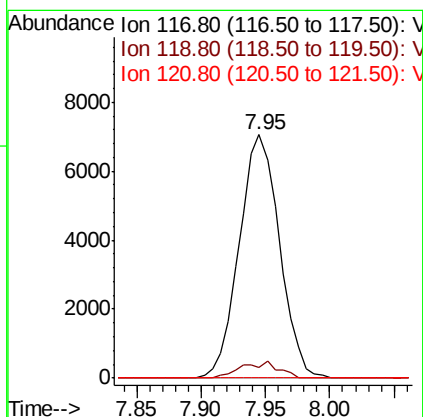
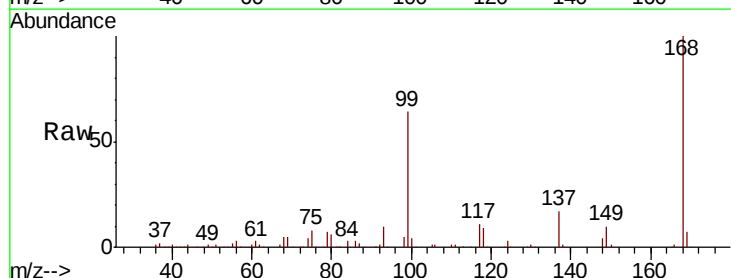
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-O-(0)

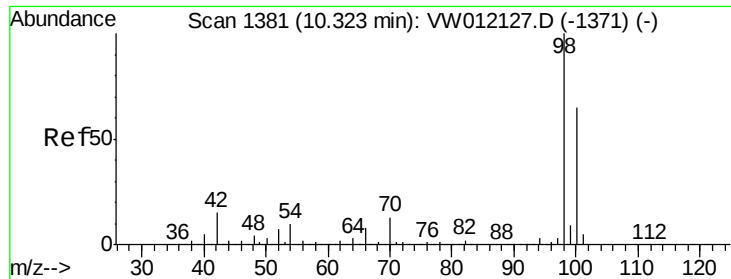
Tgt Ion: 75 Resp: 13044  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 15.6 46.8#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 6.962 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW012471.D  
 Acq: 02 Sep 2019 02:24

Tgt Ion: 117 Resp: 15249  
 Ion Ratio Lower Upper  
 117 100  
 119 4.4 76.2 114.2#  
 121 0.0 23.8 35.8#

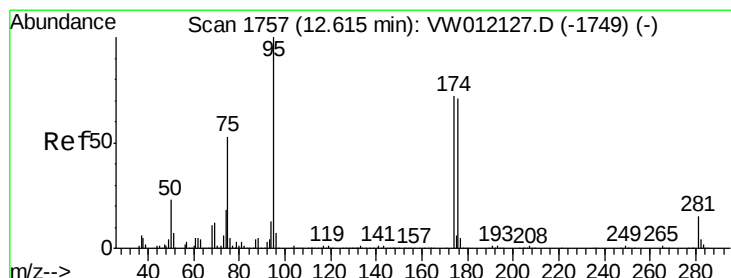
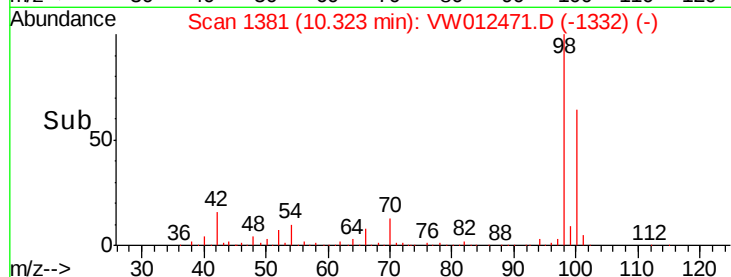
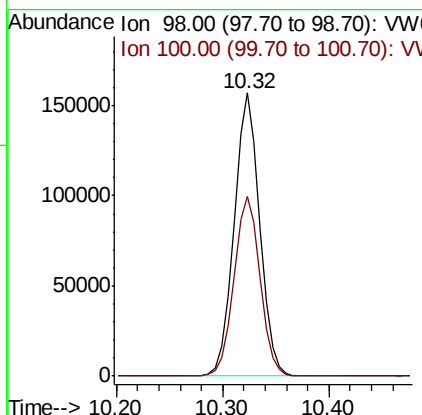
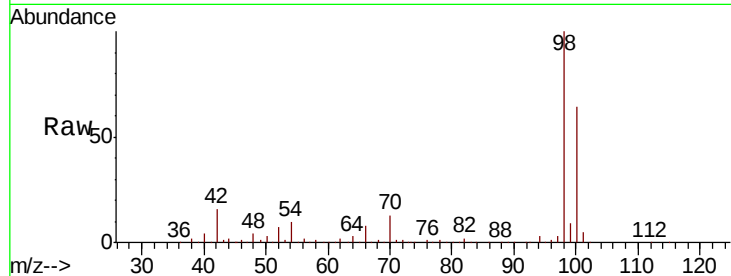




#50  
Toluene-d8  
Concen: 44.517 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

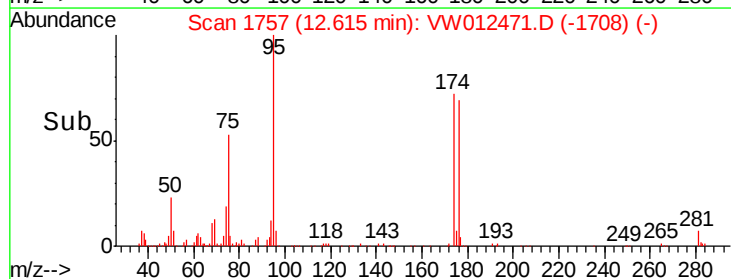
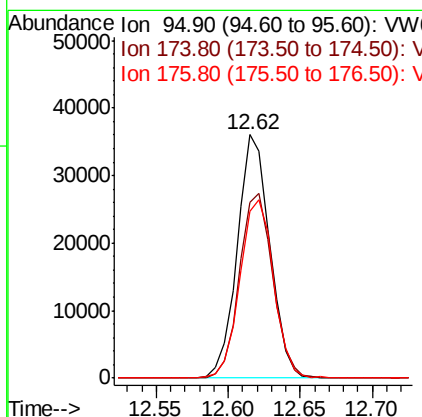
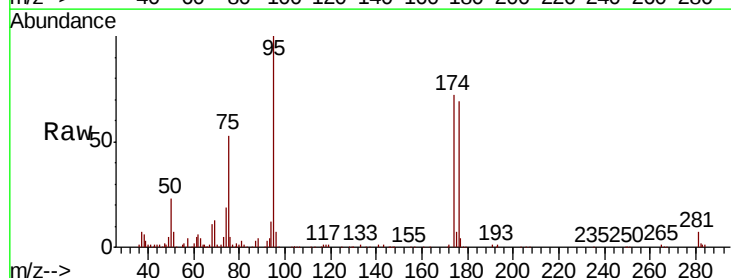
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

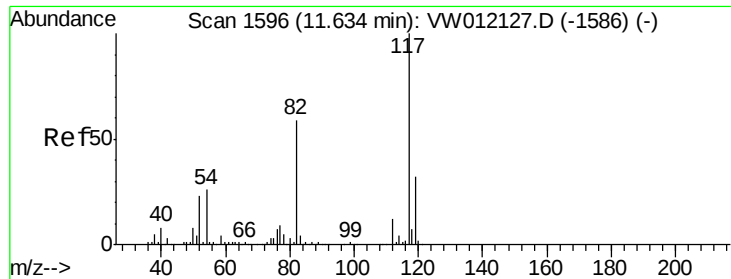
Tgt Ion: 98 Resp: 263835  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 27.067 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Tgt Ion: 95 Resp: 56546  
Ion Ratio Lower Upper  
95 100  
174 77.7 0.0 150.8  
176 75.3 0.0 148.6

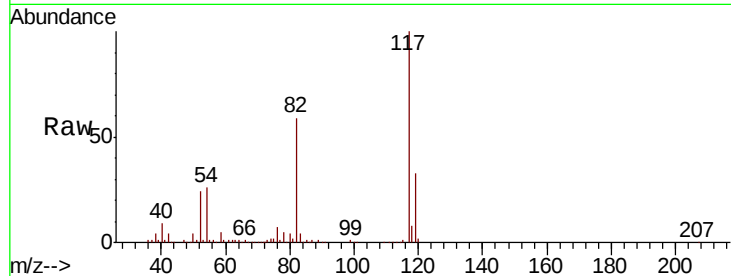




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 58.6  | 47.4  | 71.2  |
| 119     | 33.1  | 25.4  | 38.2  |

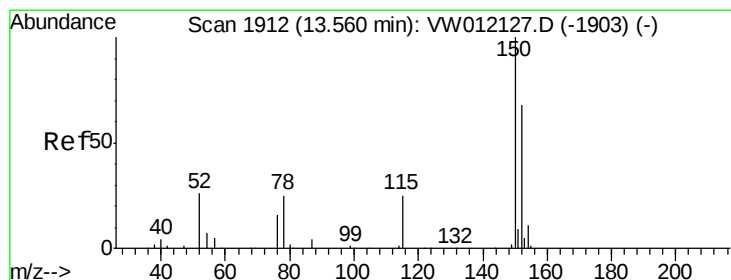
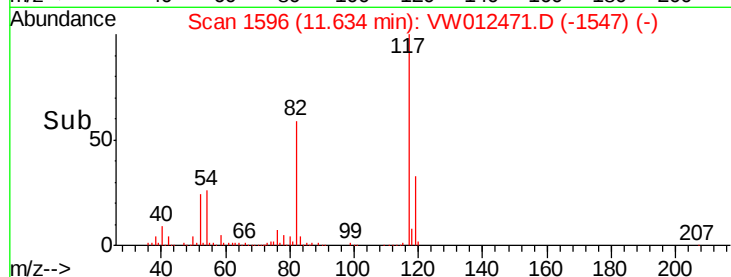
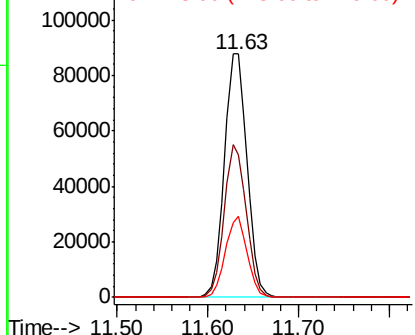


Abundance

Ion 116.90 (116.60 to 117.60): V

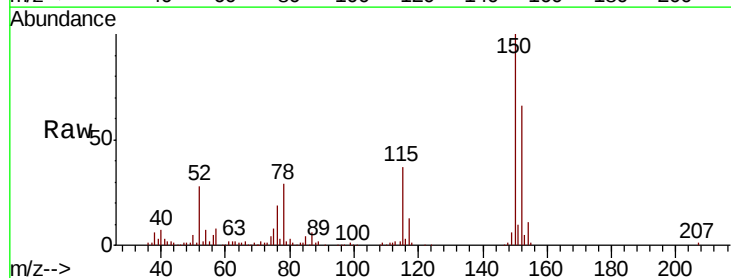
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.9  | 30.1  | 90.3  |
| 150     | 152.7 | 0.0   | 345.8 |

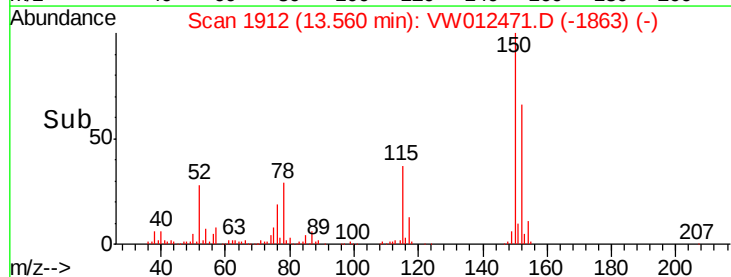
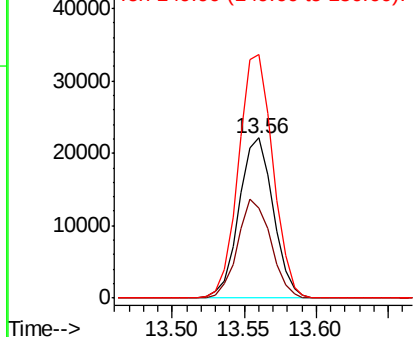


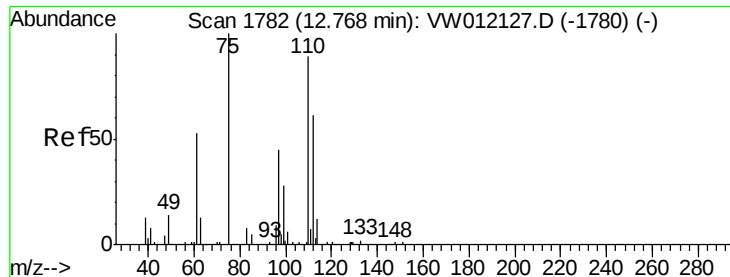
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 86.505 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012471.D

Acq: 02 Sep 2019 02:24

Instrument :

MSVOA\_W

ClientSampleId :

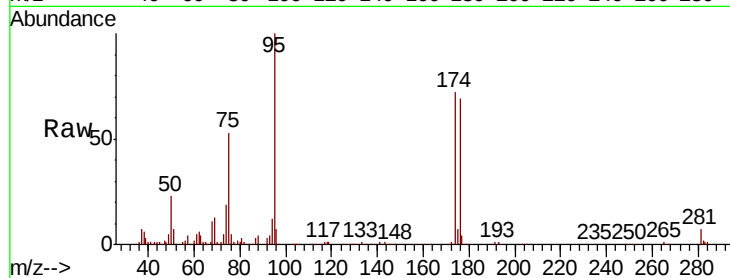
T9-12-13-O-(0)

Tgt Ion: 75 Resp: 30767

Ion Ratio Lower Upper

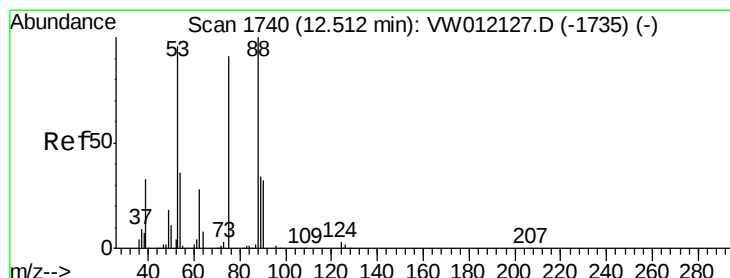
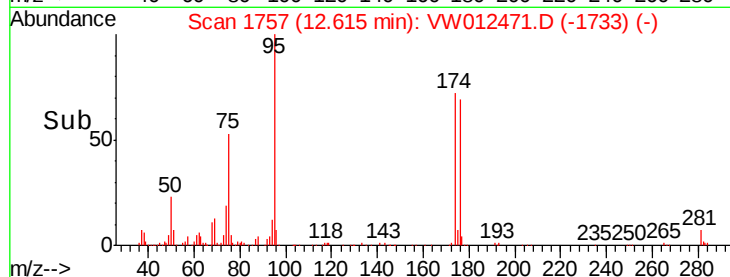
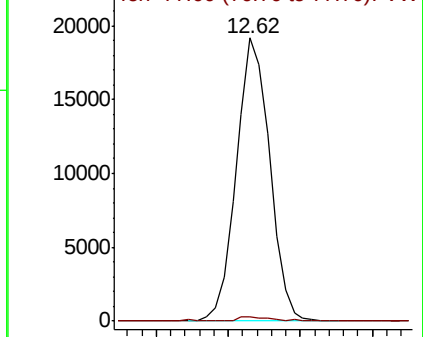
75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 189.664 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012471.D

Acq: 02 Sep 2019 02:24

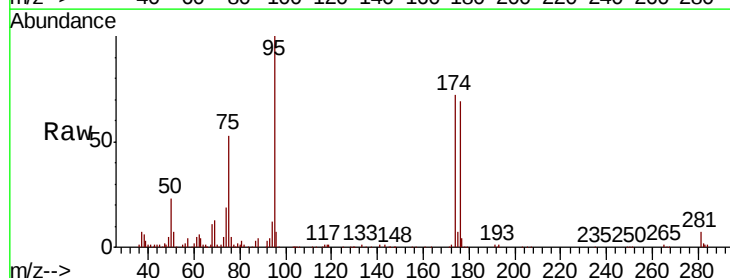
Tgt Ion: 75 Resp: 30767

Ion Ratio Lower Upper

75 100

53 0.2 89.4 134.0#

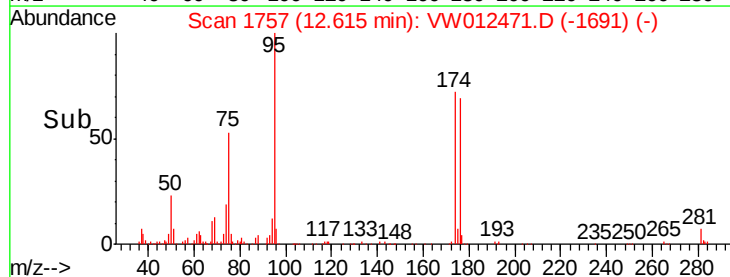
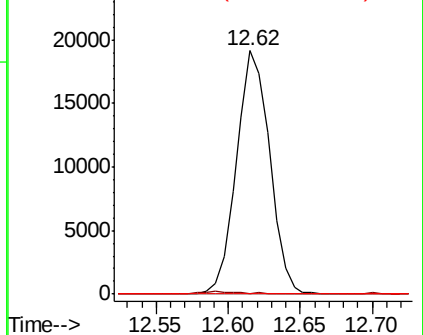
89 0.1 34.5 51.7#

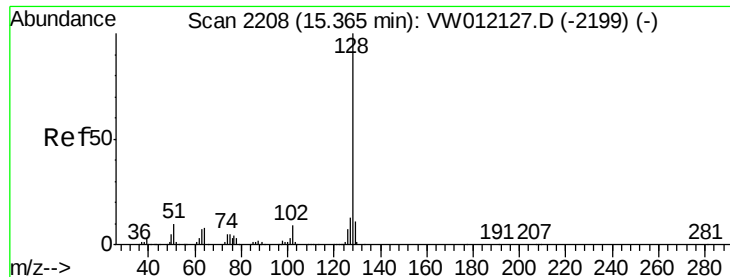


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

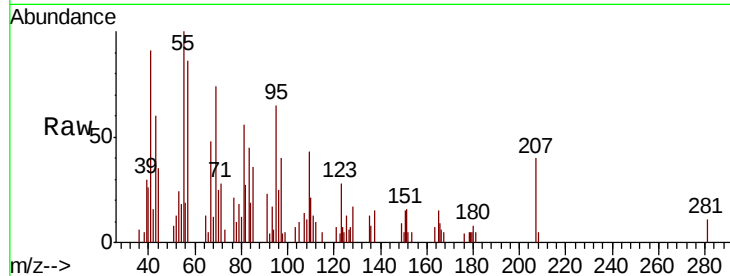




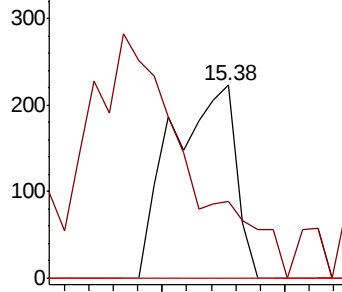
#95  
Naphthalene  
Concen: 4.591 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.01 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-O-(0)

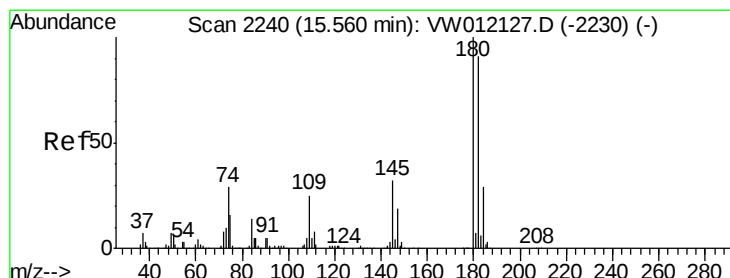
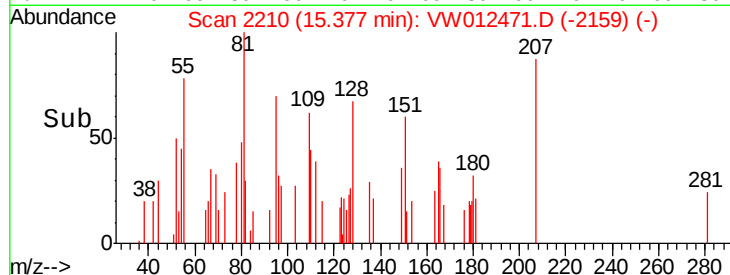
Tgt Ion:128 Resp: 407  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

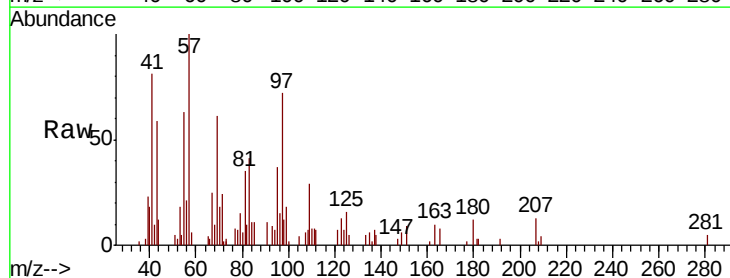


Time-->

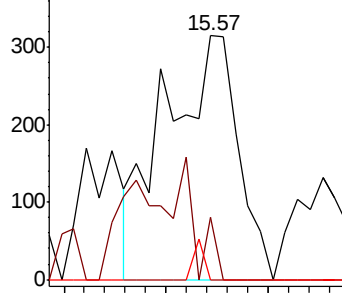


#96  
1,2,3-Trichlorobenzene  
Concen: 1.274 ug/l  
RT: 15.57 min Scan# 2242  
Delta R.T. 0.01 min  
Lab File: VW012471.D  
Acq: 02 Sep 2019 02:24

Tgt Ion:180 Resp: 780  
Ion Ratio Lower Upper  
180 100  
182 38.2 47.1 141.3#  
145 2.4 16.2 48.5#



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V



Time-->

