

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090219\  
 Data File : VW012504.D  
 Acq On : 02 Sep 2019 17:28  
 Operator : SY/VA  
 Sample : K4529-02RE  
 Misc : 2.97G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-T3-(0)

Quant Time: Sep 03 07:40:46 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  | 208789   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 339943   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 260053   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 83677    | 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   | 128499   | 51.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.54% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 101705   | 50.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.24% |          |
| 50) Toluene-d8              | 10.32 | 98   | 399183   | 48.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.04%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 114650   | 39.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.06%  |          |

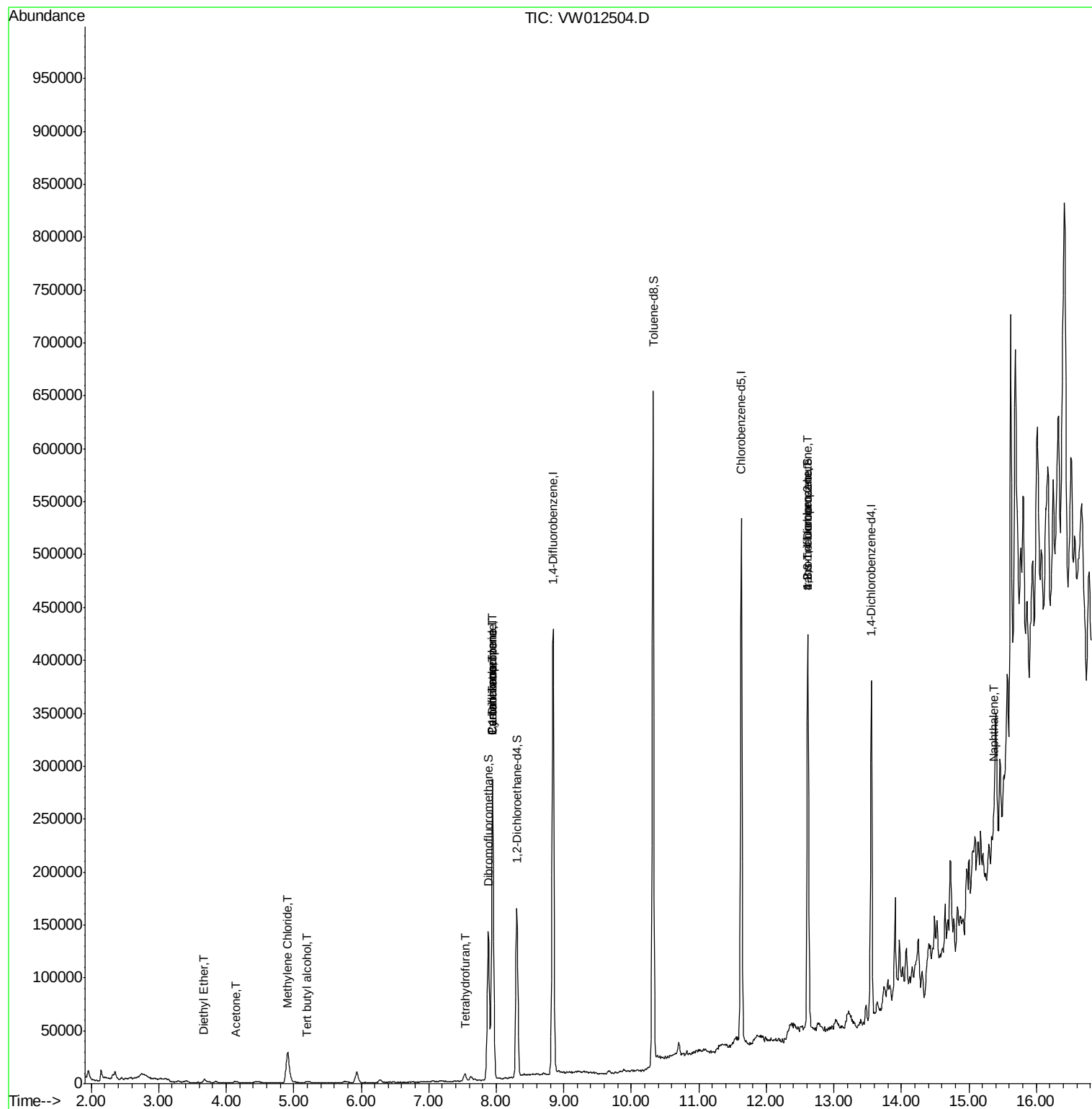
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 1612     | 1.387   | ug/l # | 43     |
| 11) Tert butyl alcohol         | 5.19  | 59   | 860      | 5.758   | ug/l # | 76     |
| 16) Acetone                    | 4.15  | 43   | 2758     | 4.347   | ug/l # | 77     |
| 20) Methylene Chloride         | 4.92  | 84   | 21374    | 8.912   | ug/l   | 96     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 6337     | 12.251  | ug/l # | 93     |
| 31) Cyclohexane                | 7.95  | 56   | 5415     | 1.211   | ug/l # | 7      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16832    | 4.791   | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20984    | 6.901   | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 61626    | 75.619  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 61626    | 165.797 | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128  | 926      | 4.589   | ug/l # | 54     |

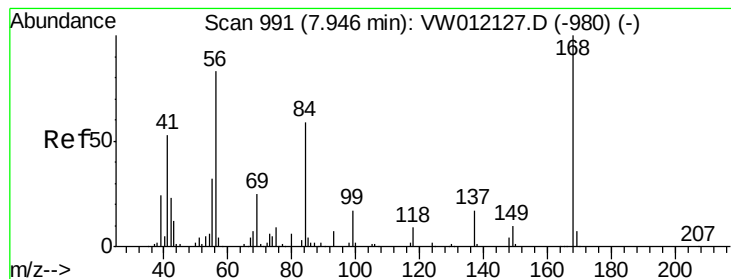
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW090219\  
Data File : VW012504.D  
Acq On : 02 Sep 2019 17:28  
Operator : SY/VA  
Sample : K4529-02RE  
Misc : 2.97G/5ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-T3-(0)

Quant Time: Sep 03 07:40:46 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: VW012504.D

Acq: 02 Sep 2019 17:28

Instrument :

MSVOA\_W

ClientSampleId :

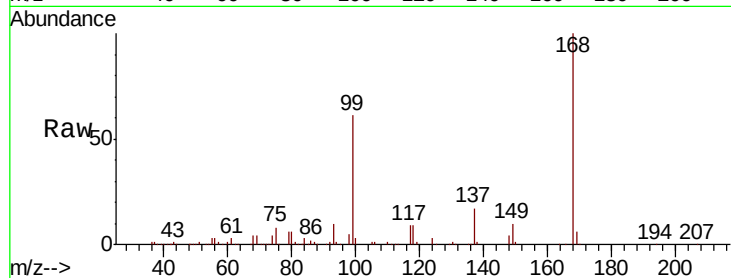
T9-12-13-T3-(0)

Tgt Ion:168 Resp: 208789

Ion Ratio Lower Upper

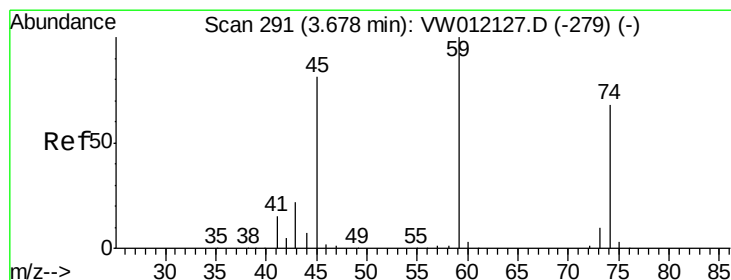
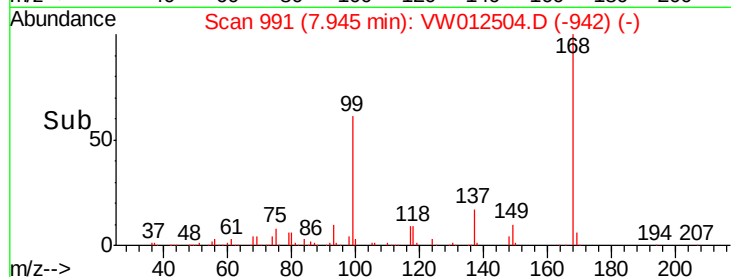
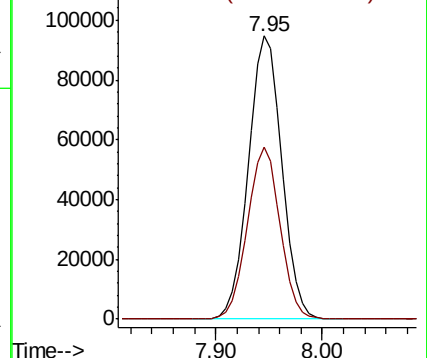
168 100

99 60.5 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.387 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012504.D

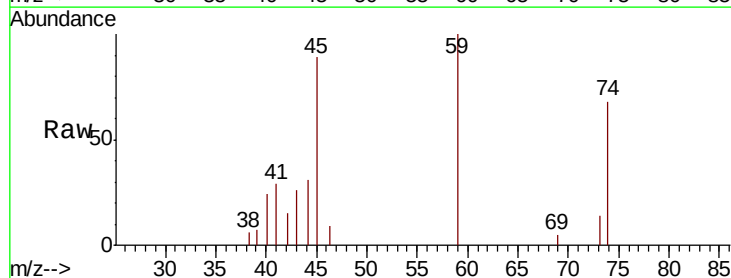
Acq: 02 Sep 2019 17:28

Tgt Ion: 74 Resp: 1612

Ion Ratio Lower Upper

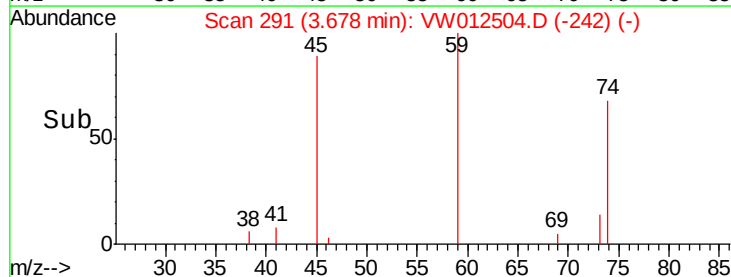
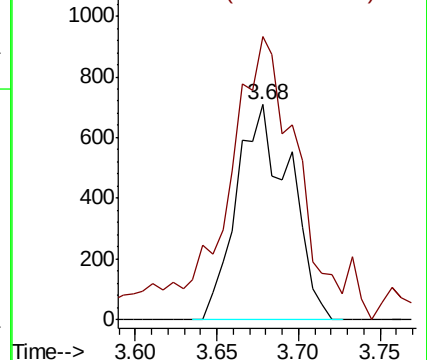
74 100

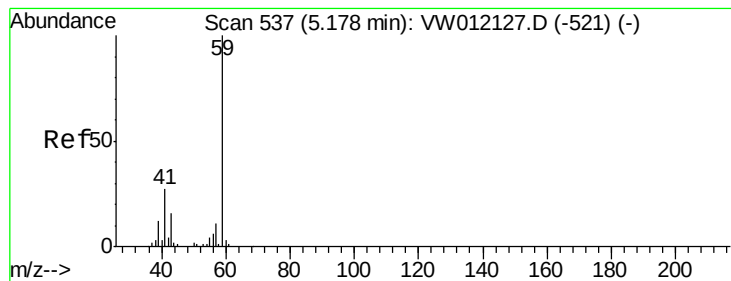
45 181.0 59.2 177.6#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



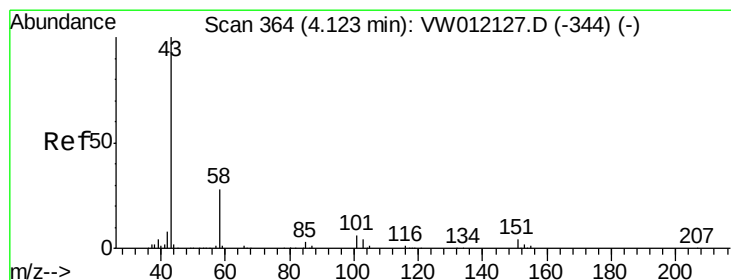
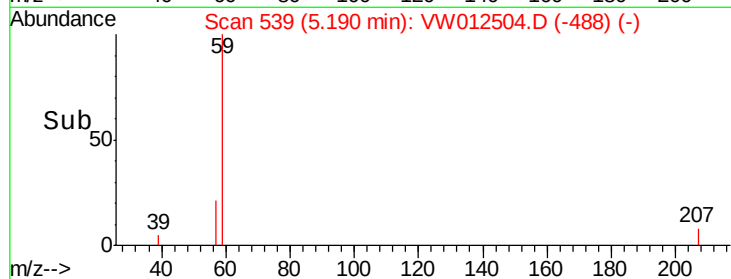
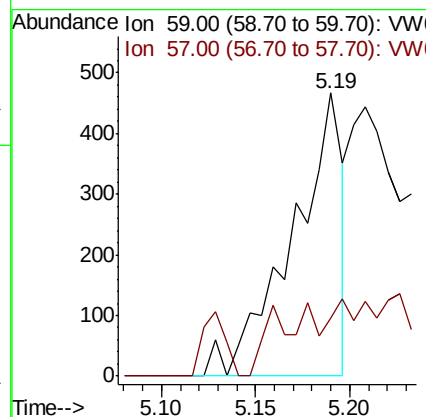
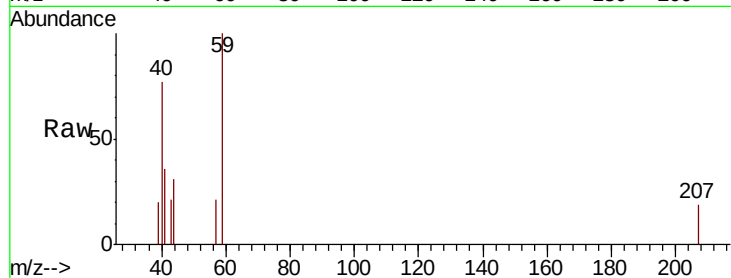


#11

Tert butyl alcohol  
 Concen: 5.758 ug/l  
 RT: 5.19 min Scan# 539  
 Delta R.T. 0.01 min  
 Lab File: VW012504.D  
 Acq: 02 Sep 2019 17:28

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 T9-12-13-T3-(0)

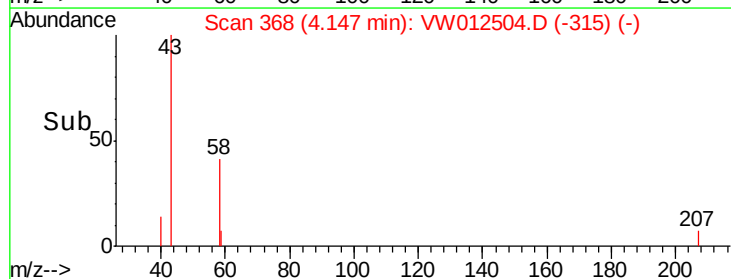
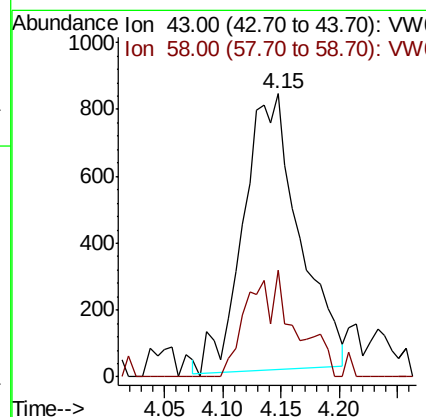
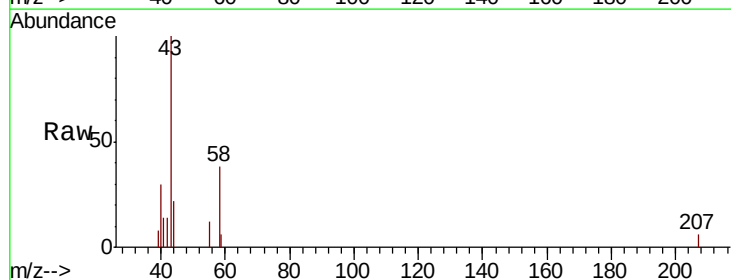
Tgt Ion: 59 Resp: 860  
 Ion Ratio Lower Upper  
 59 100  
 57 2.0 9.0 13.4#

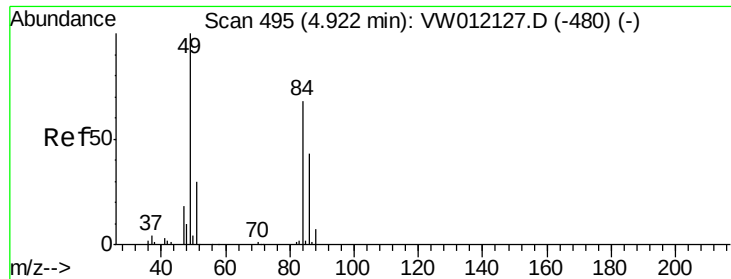


#16

Acetone  
 Concen: 4.347 ug/l  
 RT: 4.15 min Scan# 368  
 Delta R.T. 0.02 min  
 Lab File: VW012504.D  
 Acq: 02 Sep 2019 17:28

Tgt Ion: 43 Resp: 2758  
 Ion Ratio Lower Upper  
 43 100  
 58 40.3 22.4 33.6#

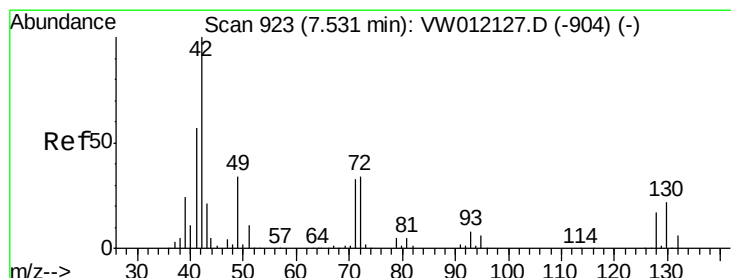
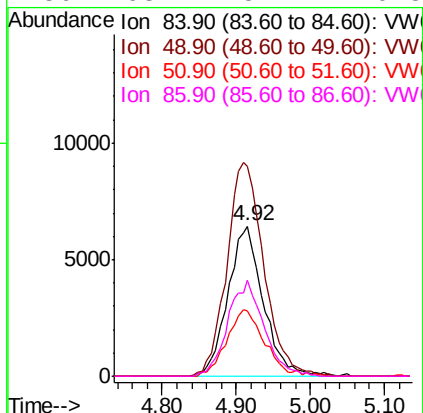
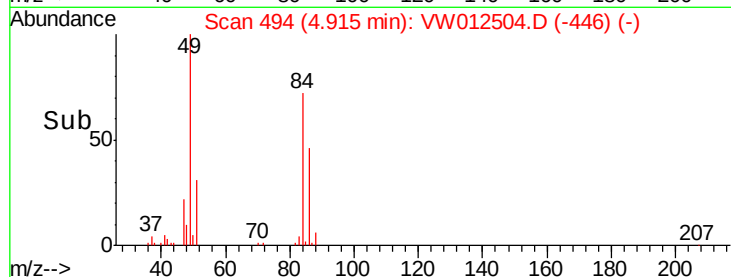
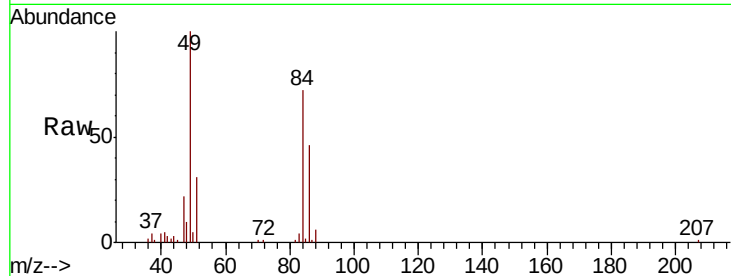




#20  
Methylene Chloride  
Concen: 8.912 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW012504.D  
Acq: 02 Sep 2019 17:28

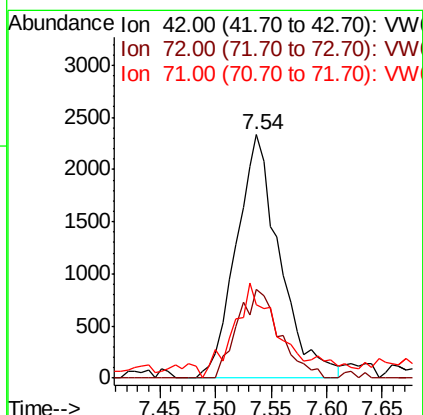
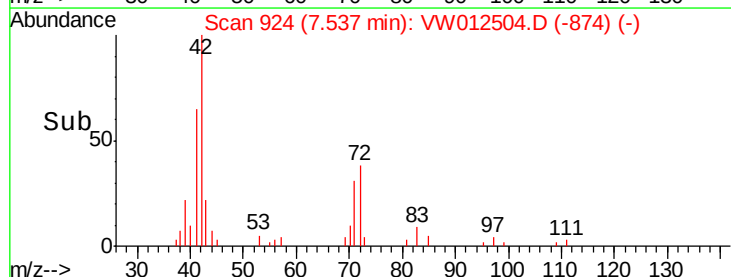
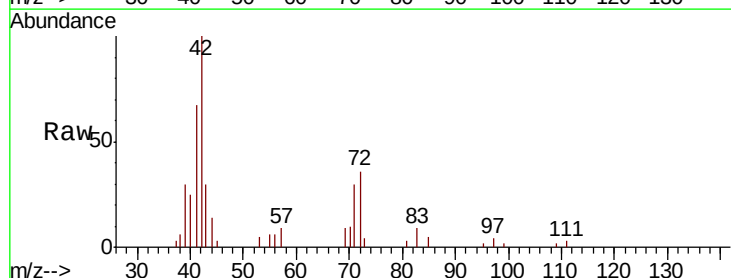
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-T3-(0)

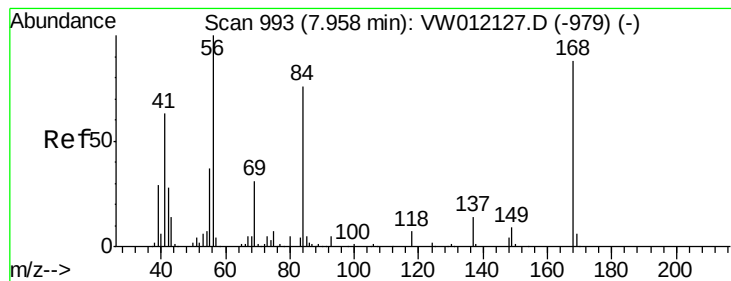
Tgt Ion: 84 Resp: 21374  
Ion Ratio Lower Upper  
84 100  
49 139.5 117.8 176.8  
51 43.7 35.6 53.4  
86 63.7 51.2 76.8



#29  
Tetrahydrofuran  
Concen: 12.251 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW012504.D  
Acq: 02 Sep 2019 17:28

Tgt Ion: 42 Resp: 6337  
Ion Ratio Lower Upper  
42 100  
72 35.2 27.3 40.9  
71 38.6 25.5 38.3#





#31

Cyclohexane

Concen: 1.211 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

Instrument :

MSVOA\_W

ClientSampled :

T9-12-13-T3-(0)

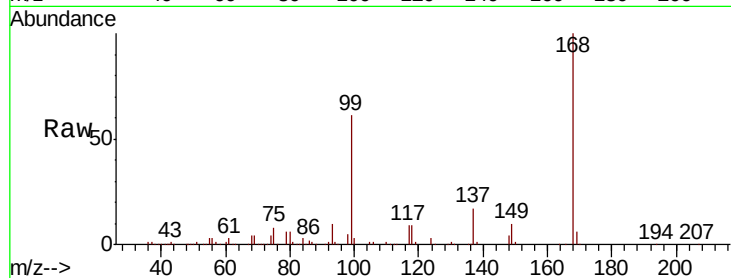
Tgt Ion: 56 Resp: 5415

Ion Ratio Lower Upper

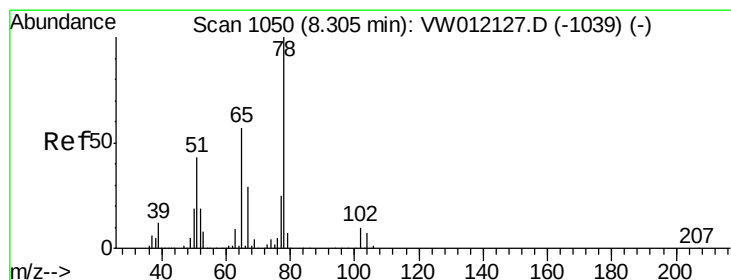
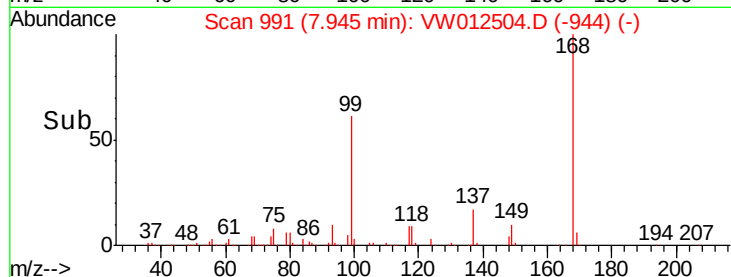
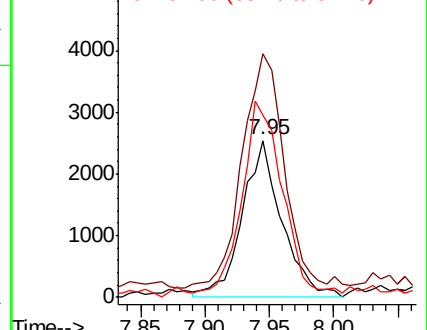
56 100

69 147.0 24.9 37.3#

84 113.5 60.6 90.8#



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: 51.773 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012504.D

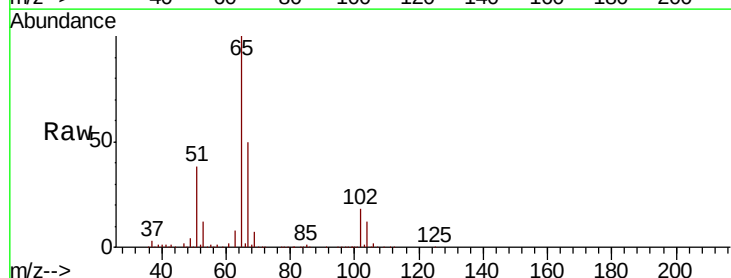
Acq: 02 Sep 2019 17:28

Tgt Ion: 65 Resp: 128499

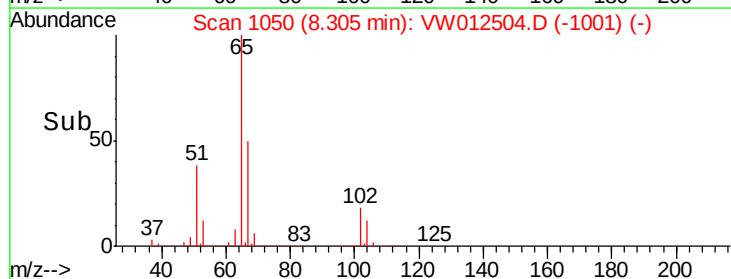
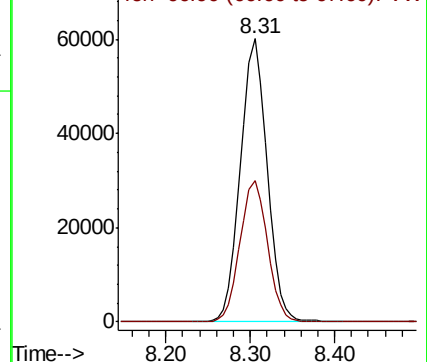
Ion Ratio Lower Upper

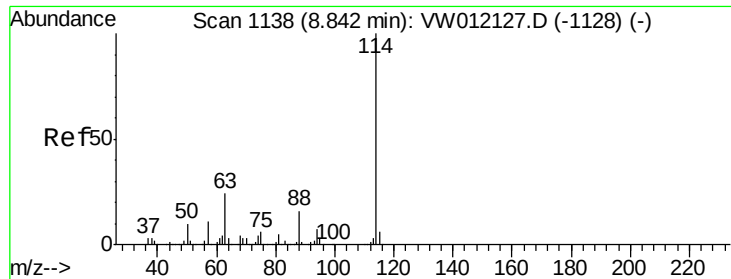
65 100

67 51.2 0.0 102.6



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

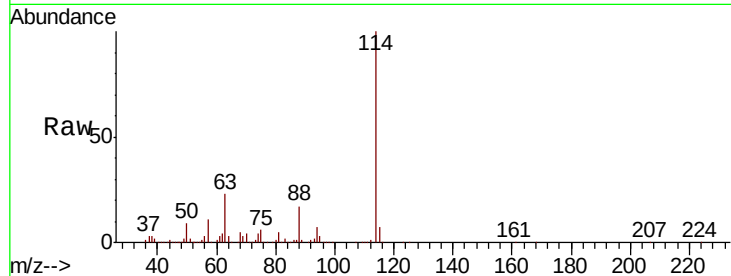




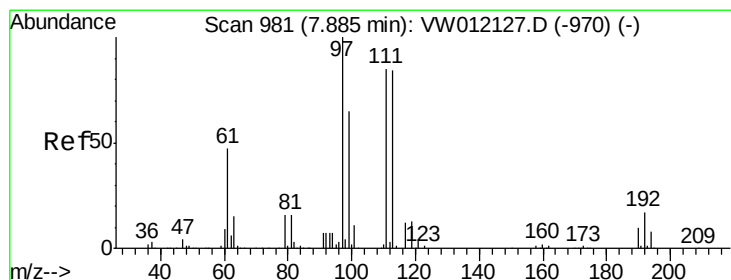
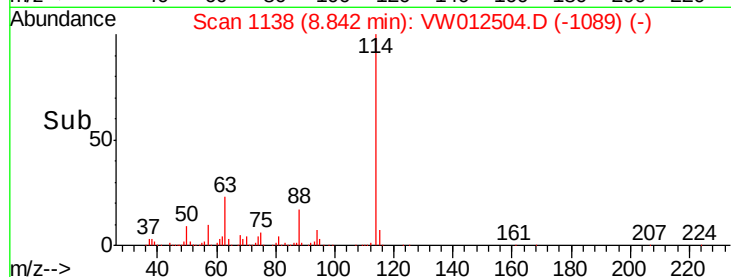
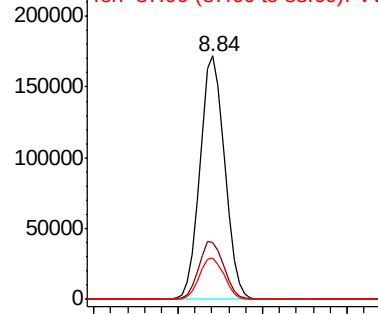
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012504.D  
 Acq: 02 Sep 2019 17:28

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-T3-(0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.2  | 0.0   | 48.6  |
| 88      | 17.1  | 0.0   | 32.2  |

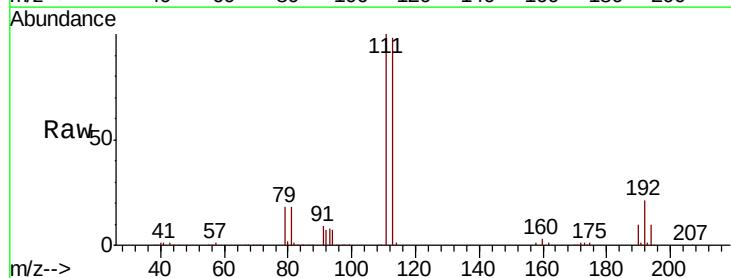


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

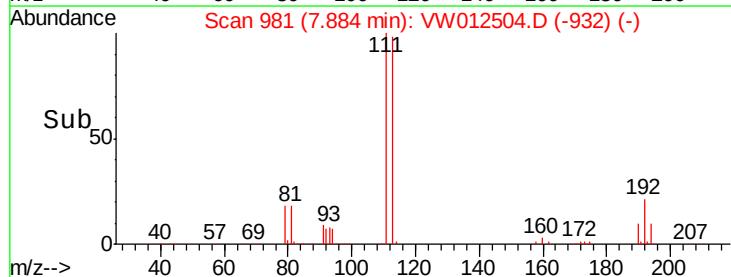
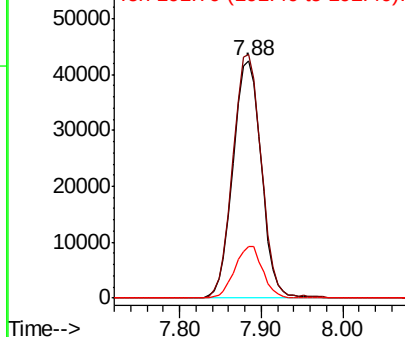


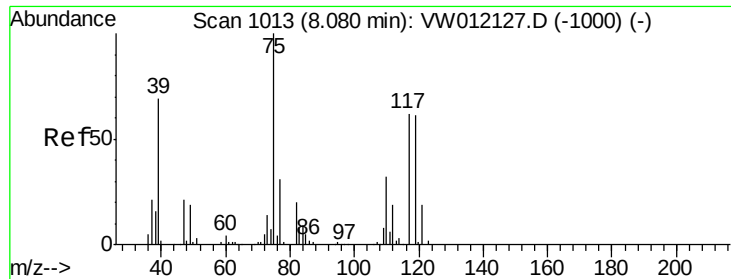
#35  
 Dibromofluoromethane  
 Concen: 50.122 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012504.D  
 Acq: 02 Sep 2019 17:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 82.7  | 124.1 |
| 192     | 21.4  | 16.2  | 24.2  |



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





#36

1,1-Dichloropropene

Concen: 4.791 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-T3-(0)

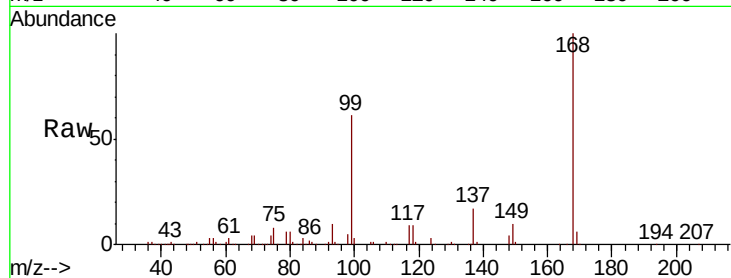
Tgt Ion: 75 Resp: 16832

Ion Ratio Lower Upper

75 100

110 10.4 15.6 46.8#

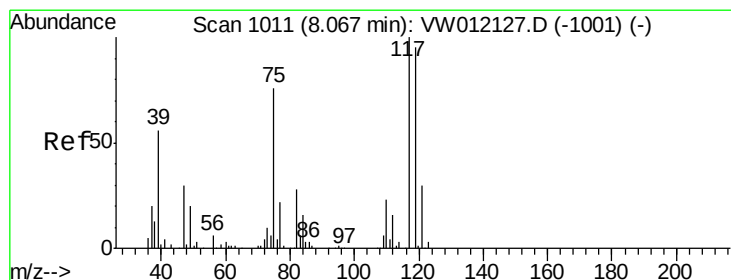
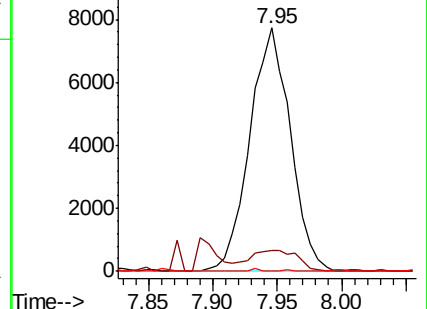
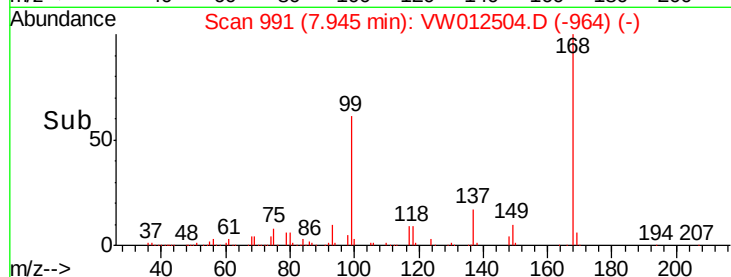
77 0.2 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 6.901 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

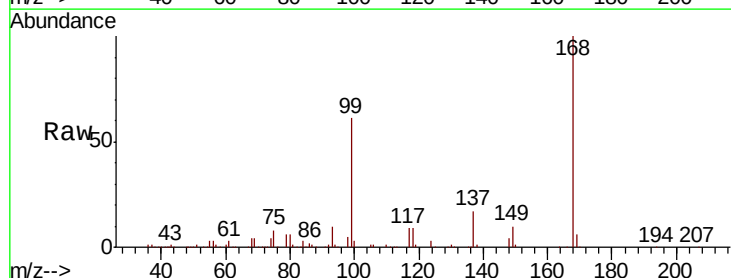
Tgt Ion: 117 Resp: 20984

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

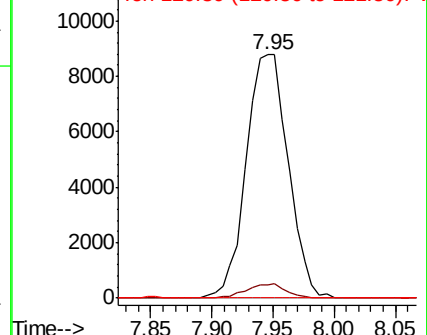
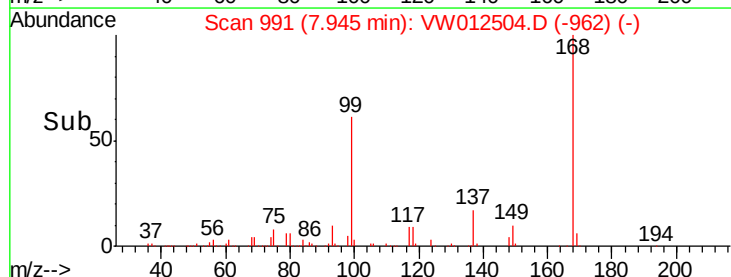
121 0.0 23.8 35.8#



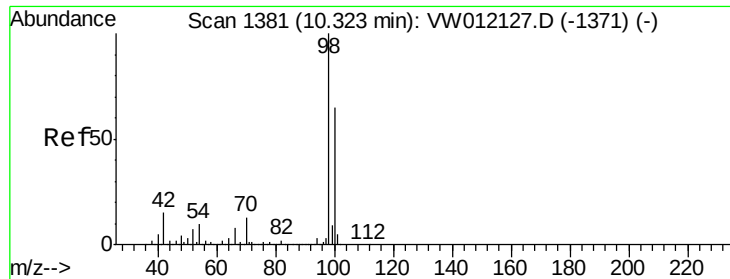
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V







#50

Toluene-d8

Concen: 48.518 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

Instrument :

MSVOA\_W

ClientSampleId :

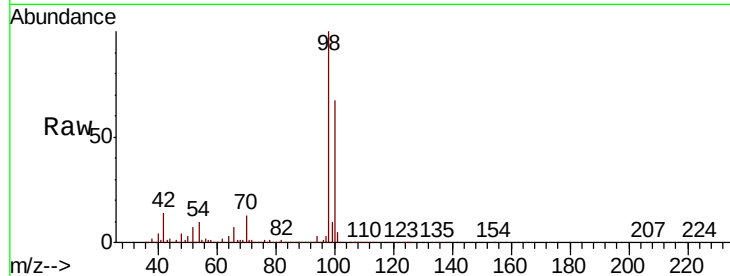
T9-12-13-T3-(0)

Tgt Ion: 98 Resp: 399183

Ion Ratio Lower Upper

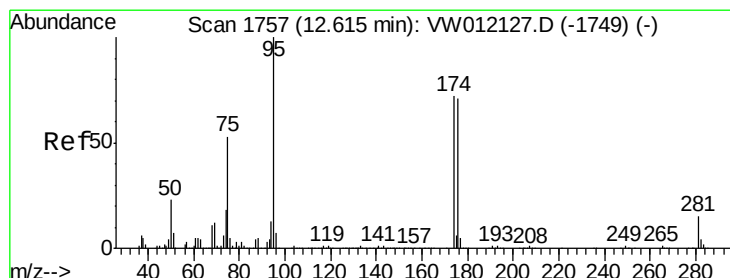
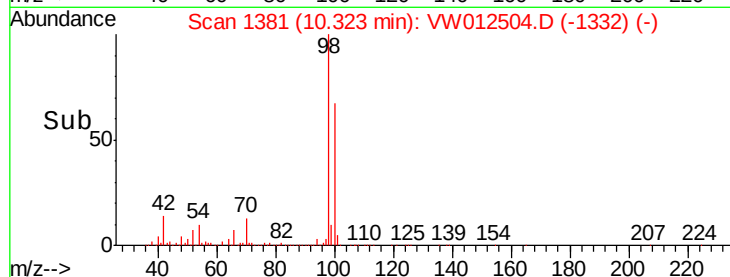
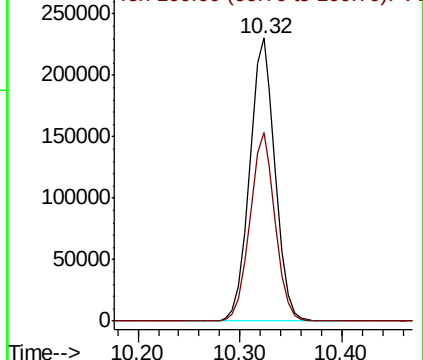
98 100

100 66.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 39.532 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

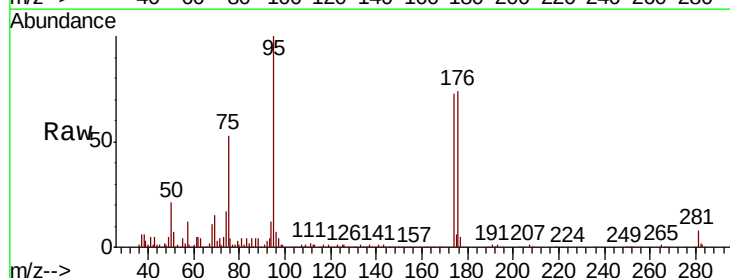
Tgt Ion: 95 Resp: 114650

Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.8

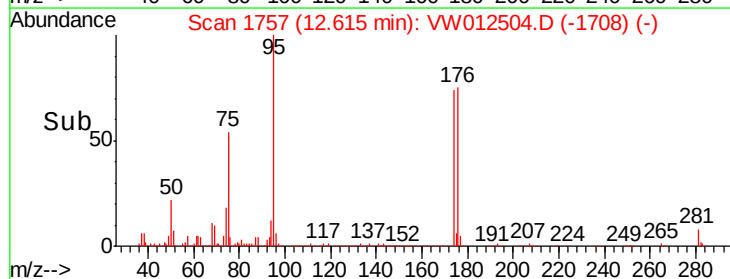
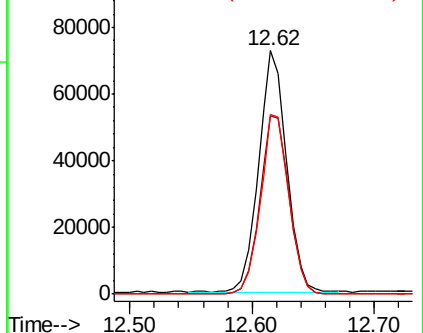
176 75.5 0.0 148.6

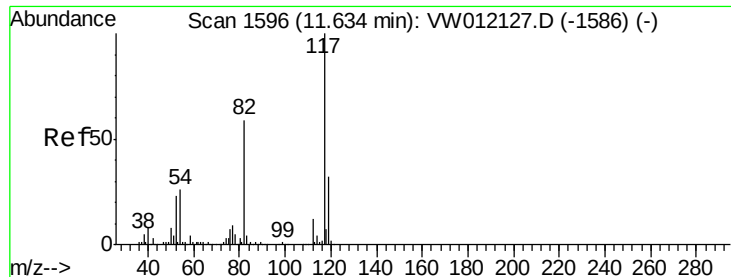


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW

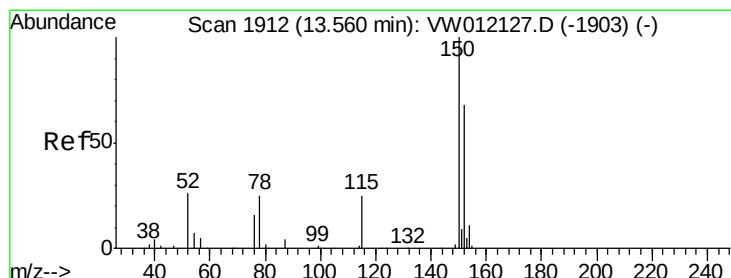
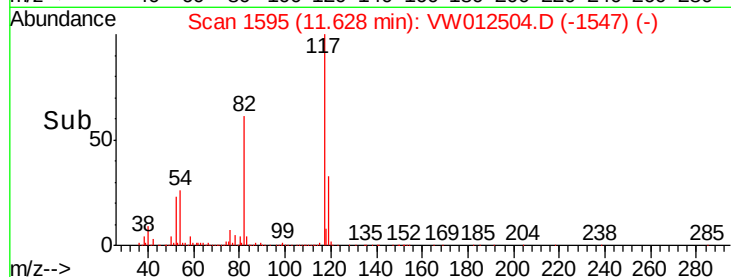
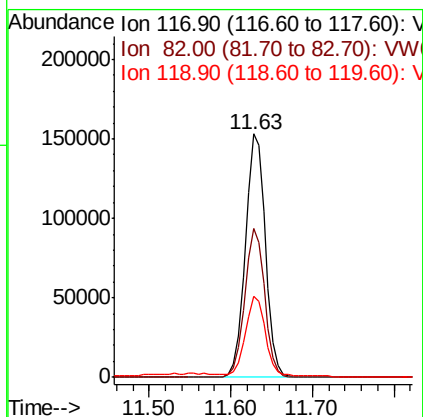
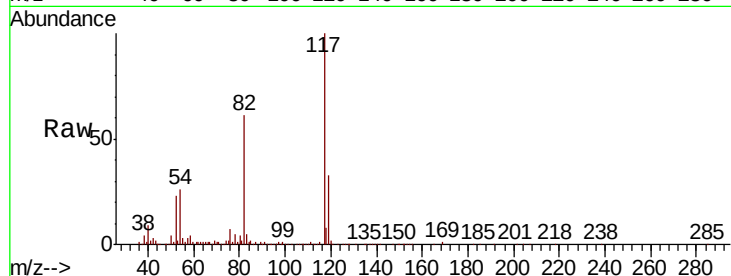




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012504.D  
Acq: 02 Sep 2019 17:28

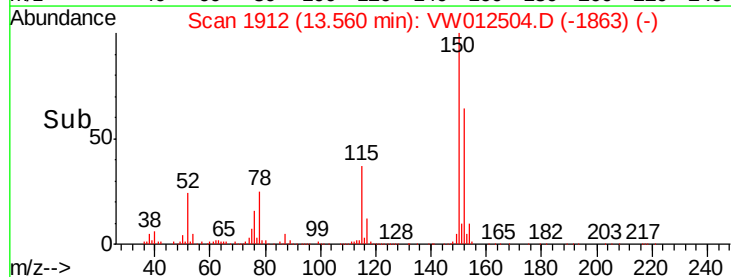
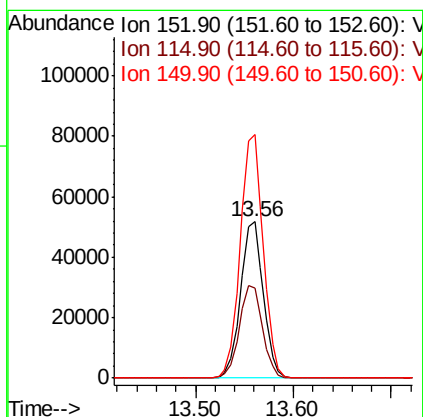
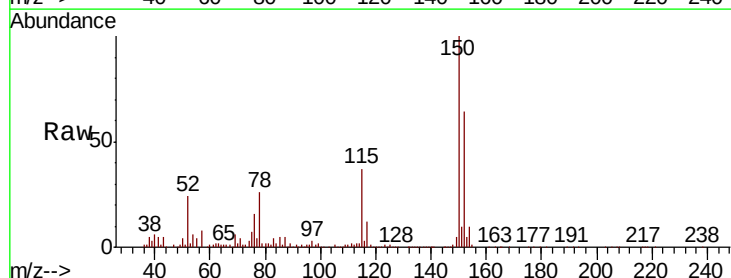
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-T3-(0)

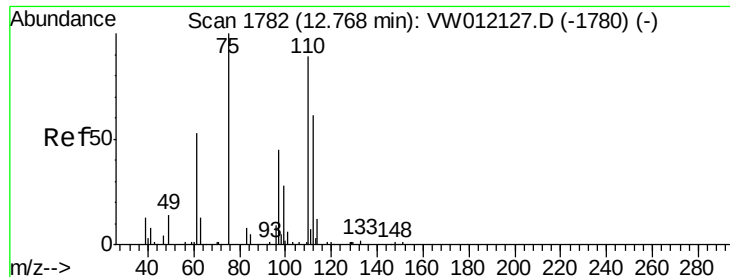
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 61.0  | 47.4  | 71.2  |
| 119     | 33.0  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012504.D  
Acq: 02 Sep 2019 17:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.3  | 30.1  | 90.3  |
| 150     | 156.6 | 0.0   | 345.8 |





#76

1,2,3-Trichloropropane

Concen: 75.619 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

Instrument :

MSVOA\_W

ClientSampleId :

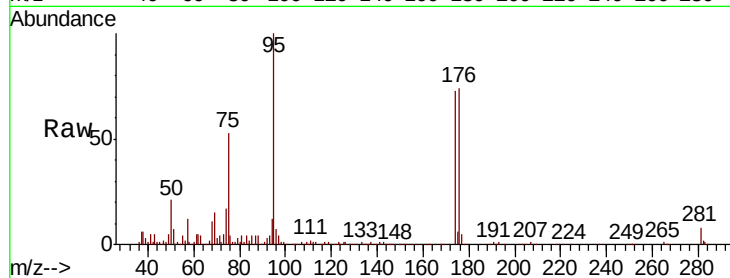
T9-12-13-T3-(0)

Tgt Ion: 75 Resp: 61626

Ion Ratio Lower Upper

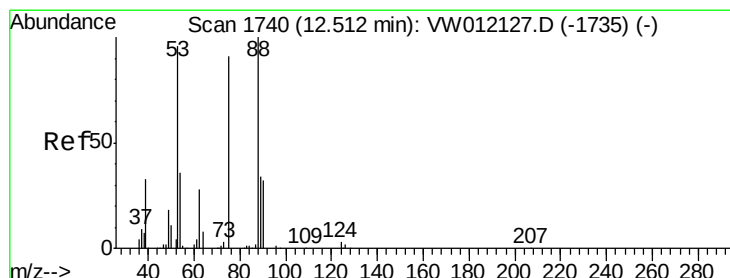
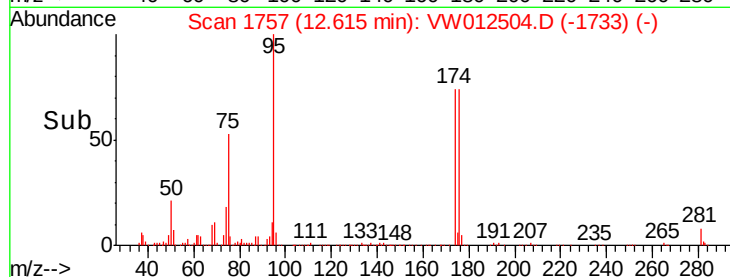
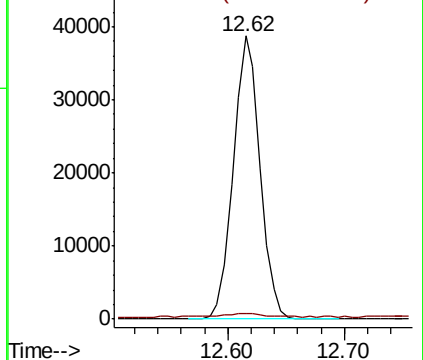
75 100

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: 165.797 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

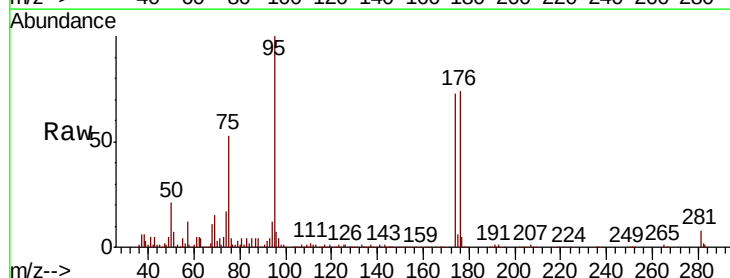
Tgt Ion: 75 Resp: 61626

Ion Ratio Lower Upper

75 100

53 0.5 89.4 134.0#

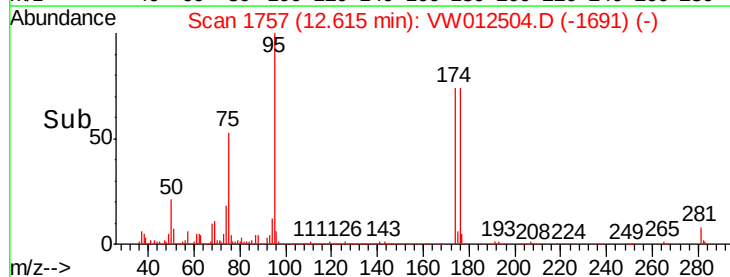
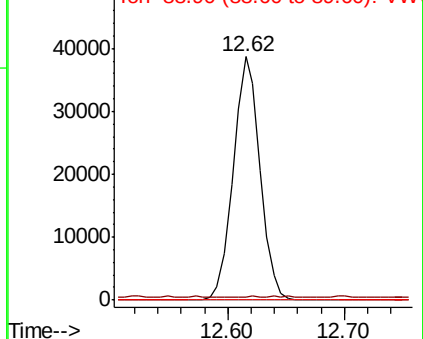
89 0.4 34.5 51.7#

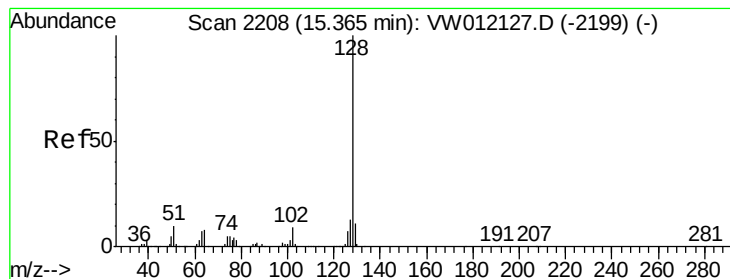


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95

Naphthalene

Concen: 4.589 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012504.D

Acq: 02 Sep 2019 17:28

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-T3-(0)

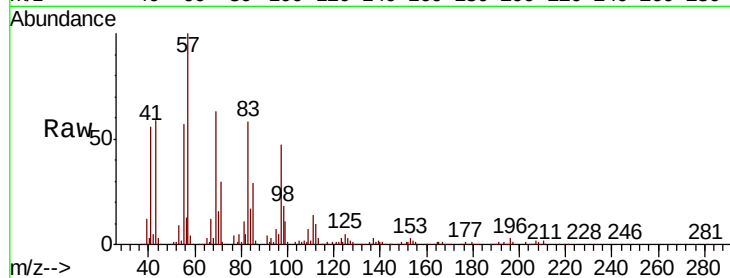
Tgt Ion:128 Resp: 926

Ion Ratio Lower Upper

128 100

127 7.6 10.7 16.1#

129 42.8 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

