

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW083119\  
 Data File : VW012434.D  
 Acq On : 01 Sep 2019 07:31  
 Operator : SY/VA  
 Sample : K4568-17  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-35-9.5-10.0

Quant Time: Sep 02 01:08:53 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  | 43477    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 65303    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 55708    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 16641    | 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   | 27509    | 53.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 22106    | 56.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.42% |          |
| 50) Toluene-d8              | 10.32 | 98   | 81321    | 51.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.90% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 22504    | 40.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.78%  |          |

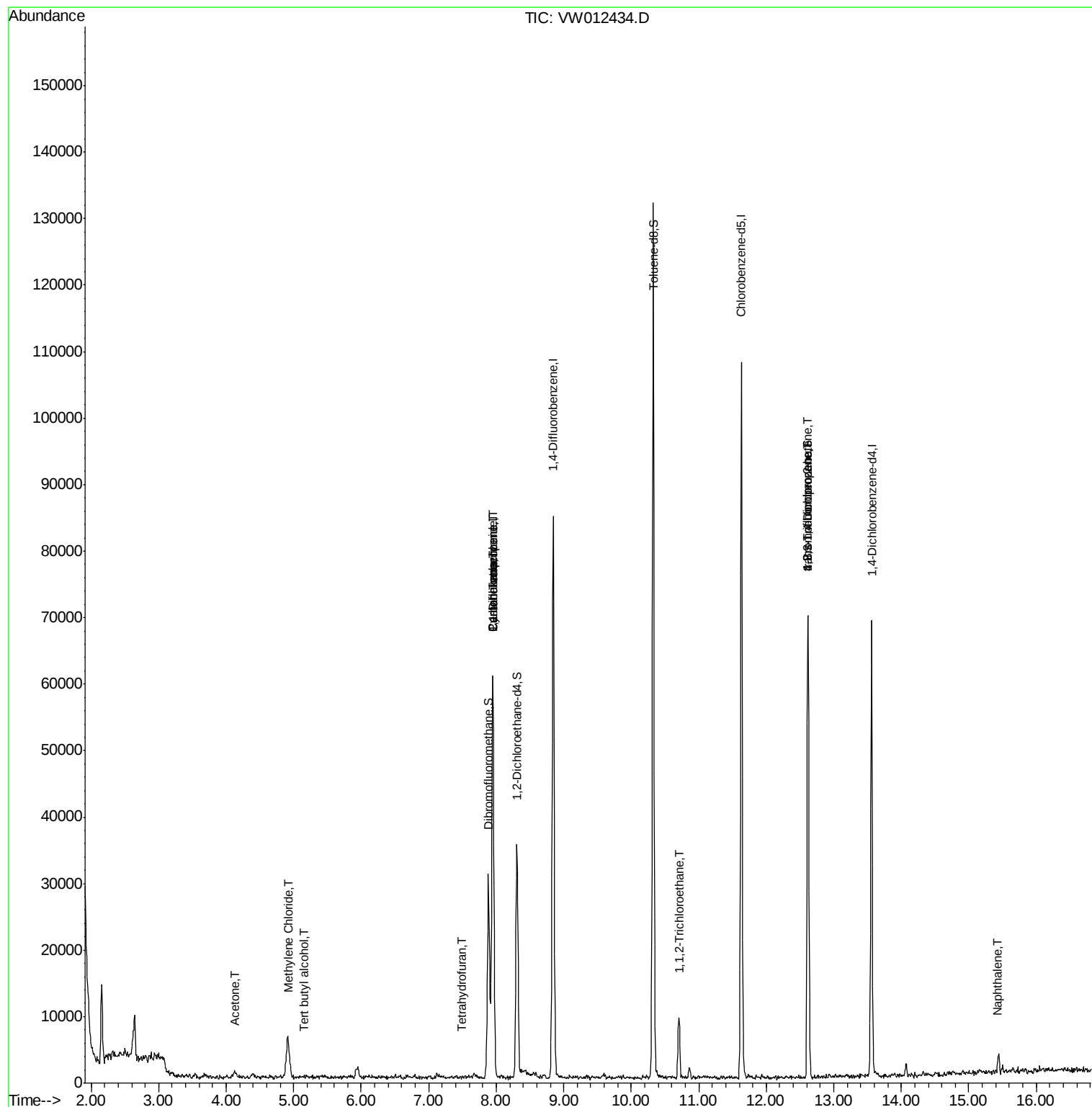
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 50       | 1.608   | ug/l # | 71     |
| 16) Acetone                    | 4.13  | 43   | 2135     | 16.160  | ug/l # | 78     |
| 20) Methylene Chloride         | 4.92  | 84   | 3957     | 7.923   | ug/l   | 93     |
| 29) Tetrahydrofuran            | 7.49  | 42   | 170      | 1.578   | ug/l # | 42     |
| 31) Cyclohexane                | 7.95  | 56   | 1408     | 1.512   | ug/l # | 27     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 3919     | 5.807   | ug/l # | 54     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 4654     | 7.968   | ug/l # | 18     |
| 55) 1,1,2-Trichloroethane      | 10.70 | 97   | 323      | 1.035   | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 12107    | 74.702  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 12107    | 163.786 | ug/l # | 6      |
| 95) Naphthalene                | 15.42 | 128  | 19       | 4.349   | ug/l # | 1      |

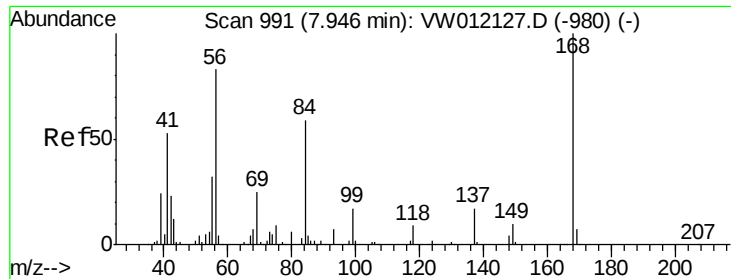
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW083119\  
Data File : VW012434.D  
Acq On : 01 Sep 2019 07:31  
Operator : SY/VA  
Sample : K4568-17  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-35-9.5-10.0

Quant Time: Sep 02 01:08:53 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: VW012434.D

Acq: 01 Sep 2019 07:31

Instrument :

MSVOA\_W

ClientSampleId :

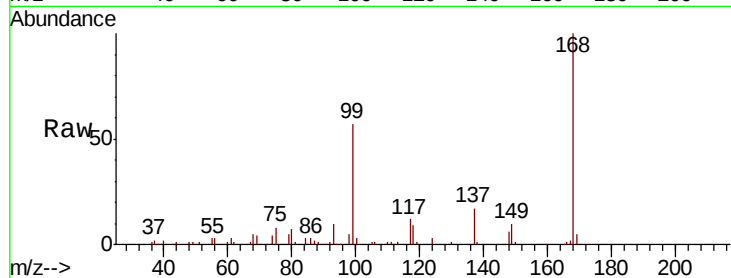
SB-35-9.5-10.0

Tgt Ion:168 Resp: 43477

Ion Ratio Lower Upper

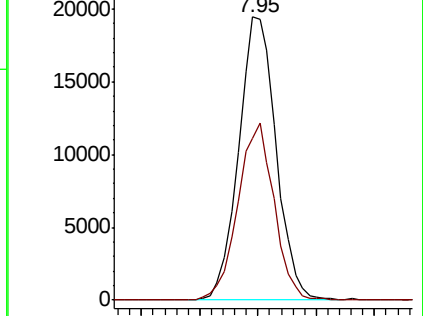
168 100

99 57.4 49.2 73.8

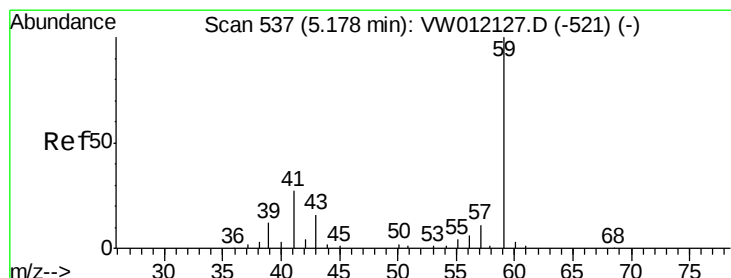
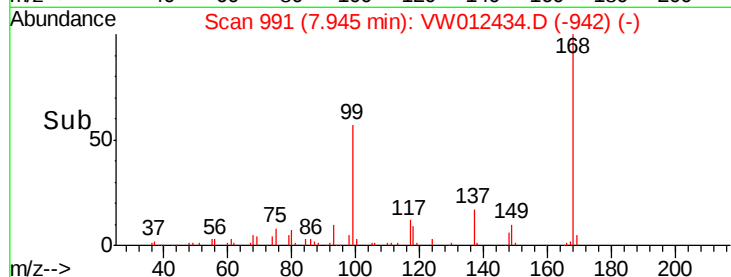


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



Time-->



#11

Tert butyl alcohol

Concen: 1.608 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW012434.D

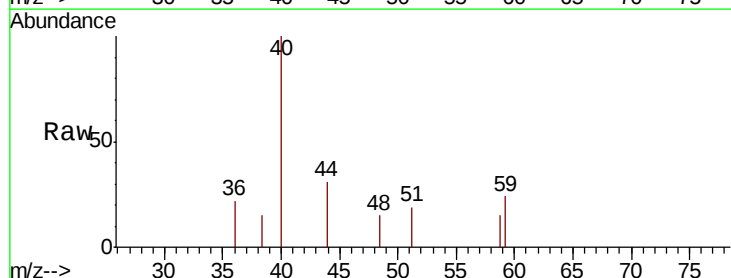
Acq: 01 Sep 2019 07:31

Tgt Ion: 59 Resp: 50

Ion Ratio Lower Upper

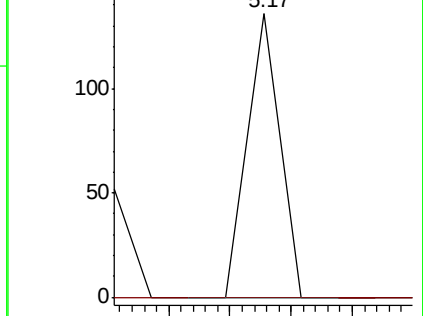
59 100

57 0.0 9.0 13.4#

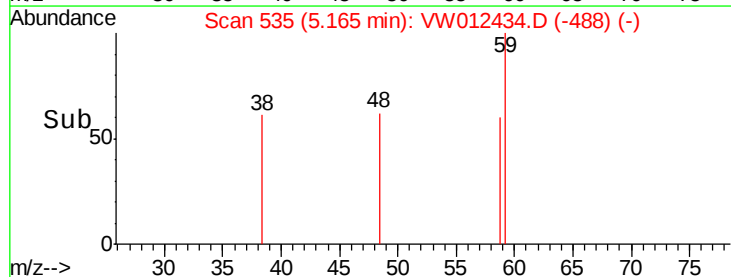


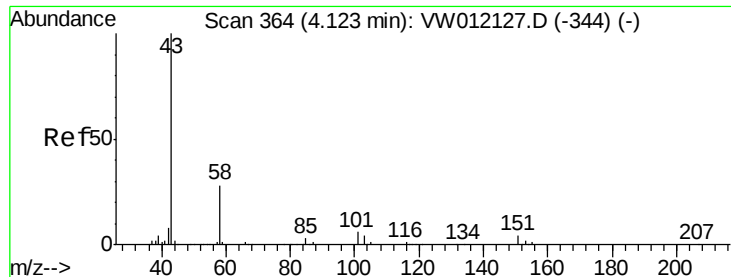
Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



Time-->

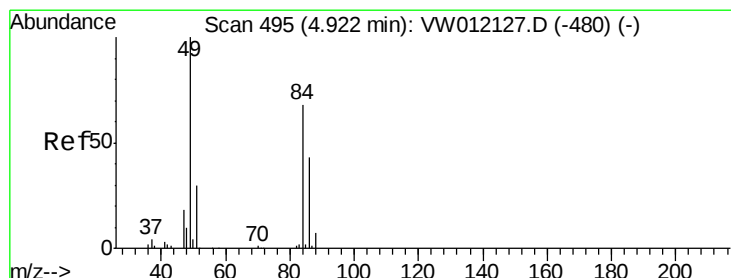
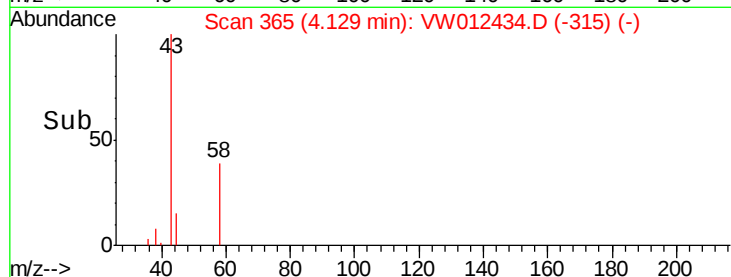
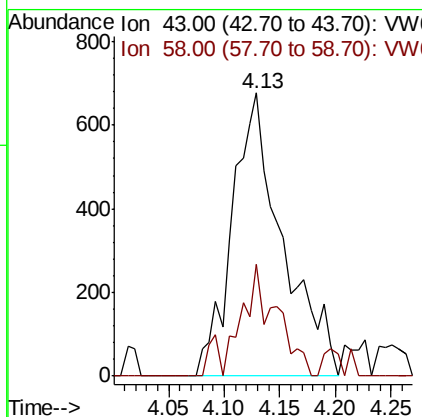
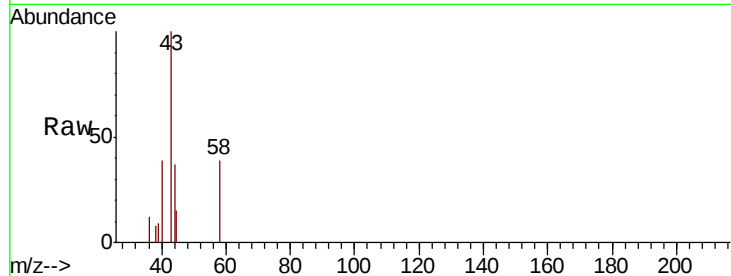




#16  
Acetone  
Concen: 16.160 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW012434.D  
Acq: 01 Sep 2019 07:31

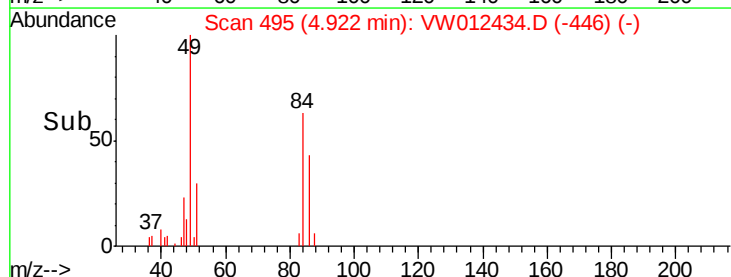
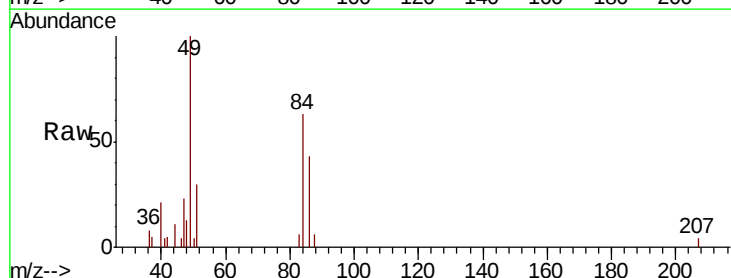
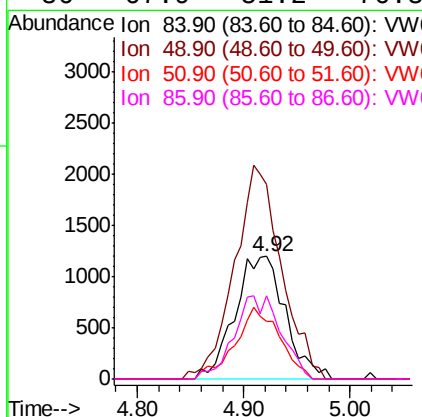
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-35-9.5-10.0

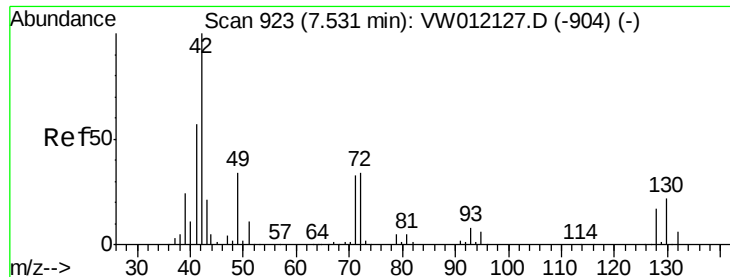
Tgt Ion: 43 Resp: 2135  
Ion Ratio Lower Upper  
43 100  
58 39.4 22.4 33.6#



#20  
Methylene Chloride  
Concen: 7.923 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VW012434.D  
Acq: 01 Sep 2019 07:31

Tgt Ion: 84 Resp: 3957  
Ion Ratio Lower Upper  
84 100  
49 158.6 117.8 176.8  
51 47.2 35.6 53.4  
86 67.9 51.2 76.8





#29

Tetrahydrofuran

Concen: 1.578 ug/l

RT: 7.49 min Scan# 917

Delta R.T. -0.04 min

Lab File: VW012434.D

Acq: 01 Sep 2019 07:31

Instrument :

MSVOA\_W

ClientSampleId :

SB-35-9.5-10.0

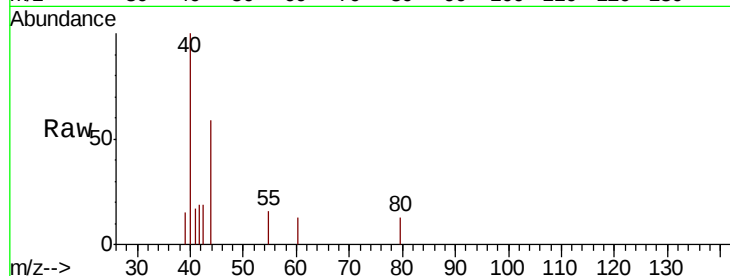
Tgt Ion: 42 Resp: 170

Ion Ratio Lower Upper

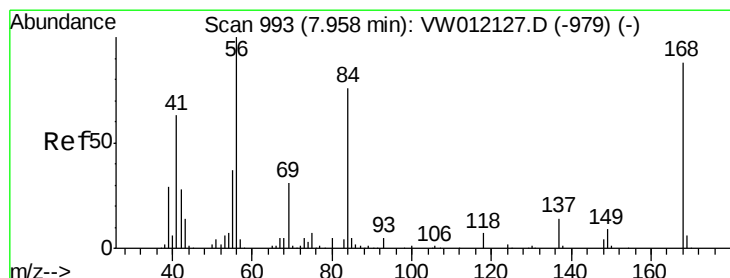
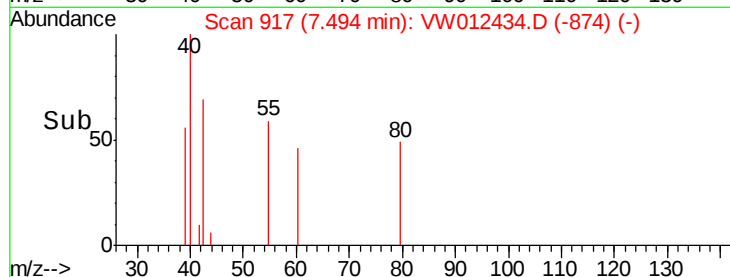
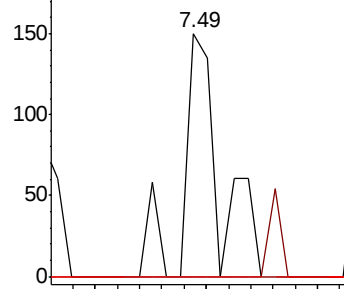
42 100

72 0.0 27.3 40.9#

71 0.0 25.5 38.3#



Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.512 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012434.D

Acq: 01 Sep 2019 07:31

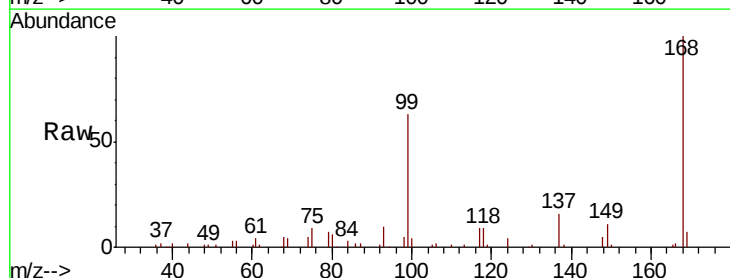
Tgt Ion: 56 Resp: 1408

Ion Ratio Lower Upper

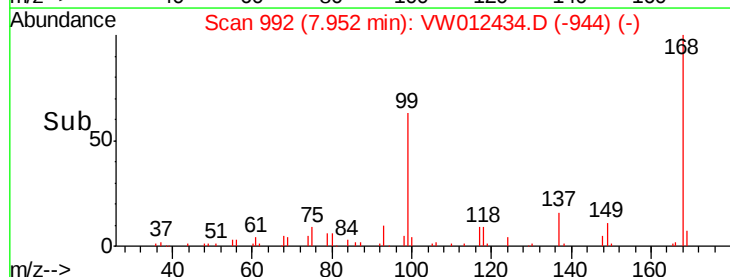
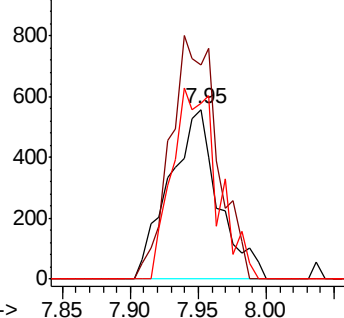
56 100

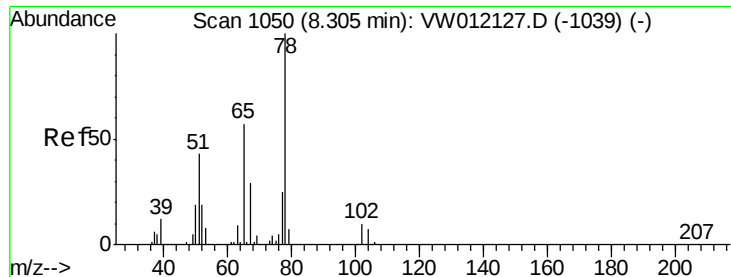
69 126.2 24.9 37.3#

84 103.4 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

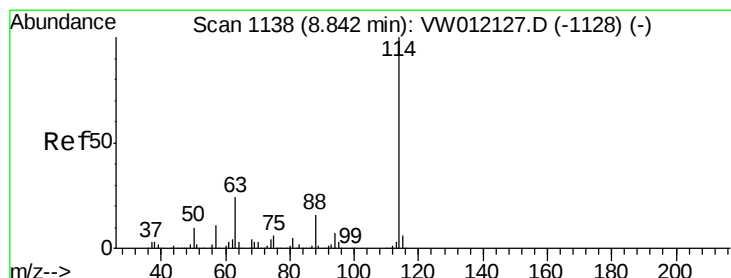
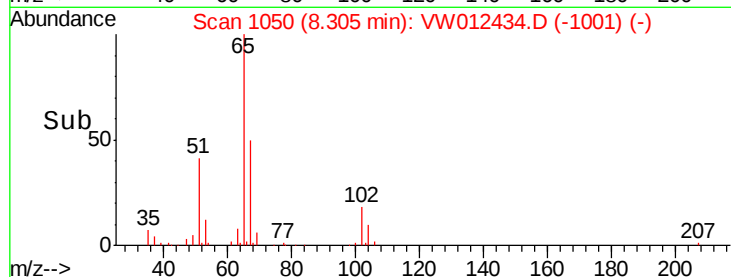
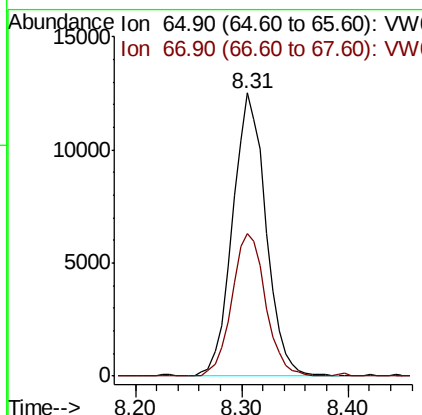
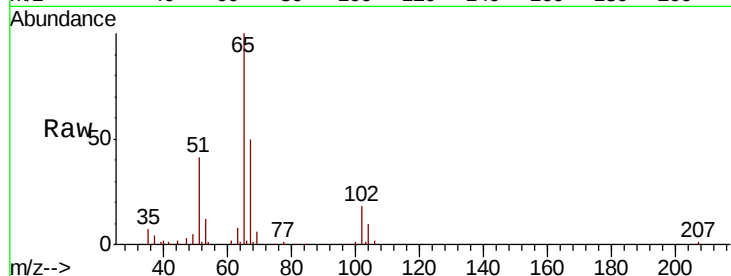




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.226 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

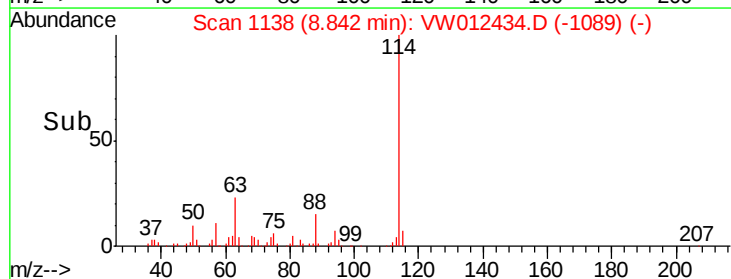
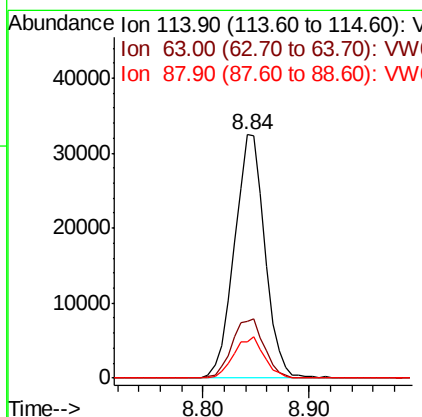
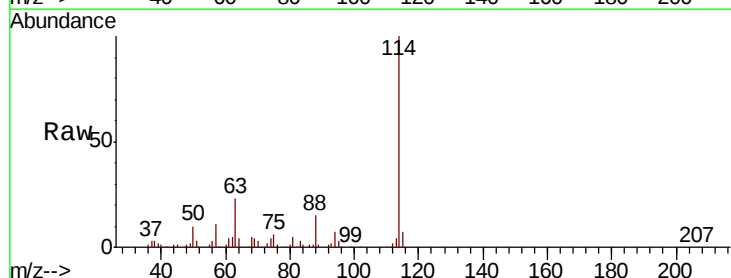
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-35-9.5-10.0

Tgt Ion: 65 Resp: 27509  
 Ion Ratio Lower Upper  
 65 100  
 67 50.8 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: VW012434.D  
 Acq: 01 Sep 2019 07:31

Tgt Ion: 114 Resp: 65303  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 0.0 48.6  
 88 14.8 0.0 32.2

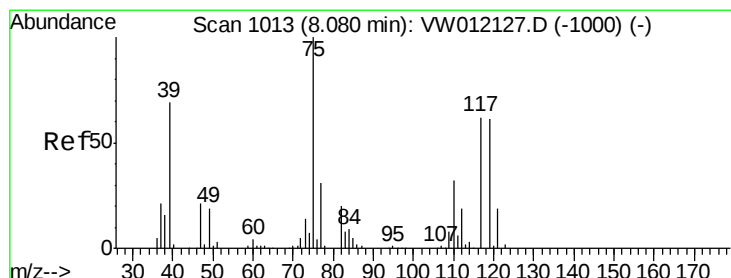
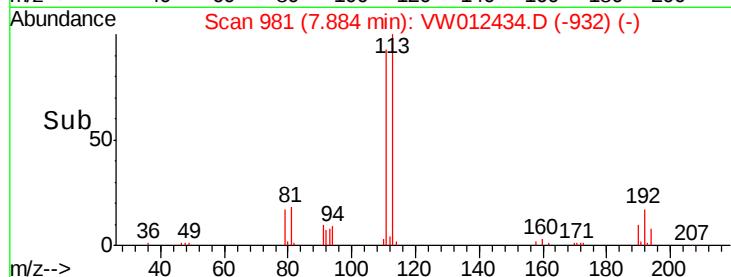
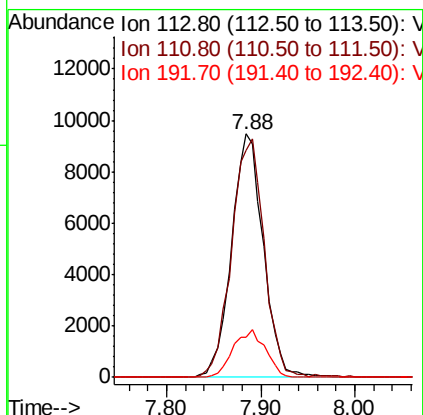
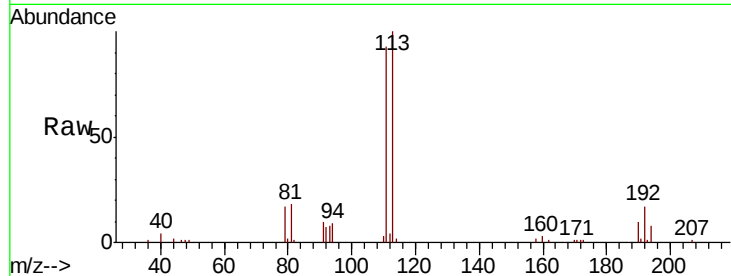




#35  
 Dibromofluoromethane  
 Concen: 56.712 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

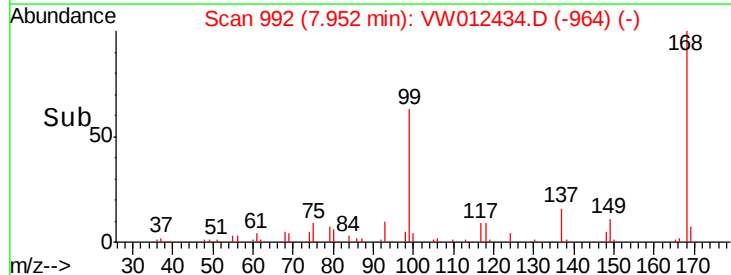
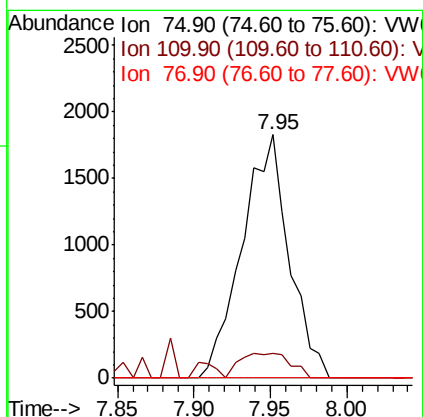
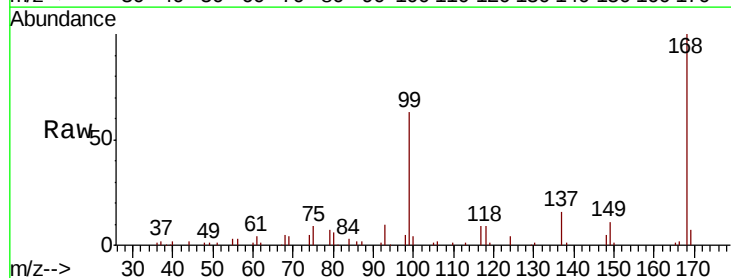
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-35-9.5-10.0

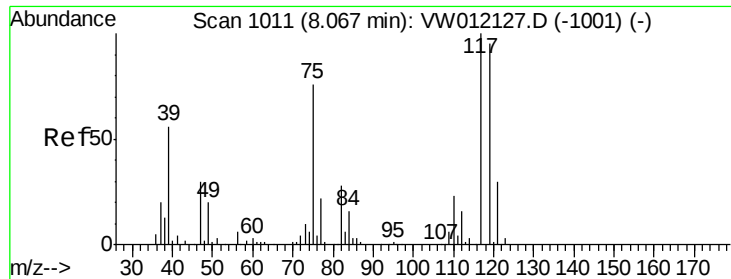
Tgt Ion:113 Resp: 22106  
 Ion Ratio Lower Upper  
 113 100  
 111 100.2 82.7 124.1  
 192 19.9 16.2 24.2



#36  
 1,1-Dichloropropene  
 Concen: 5.807 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

Tgt Ion: 75 Resp: 3919  
 Ion Ratio Lower Upper  
 75 100  
 110 11.0 15.6 46.8#  
 77 0.0 24.6 36.8#

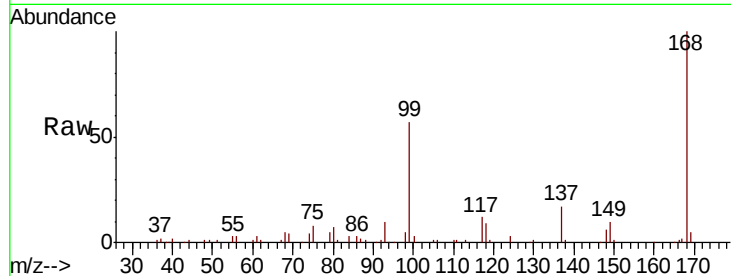




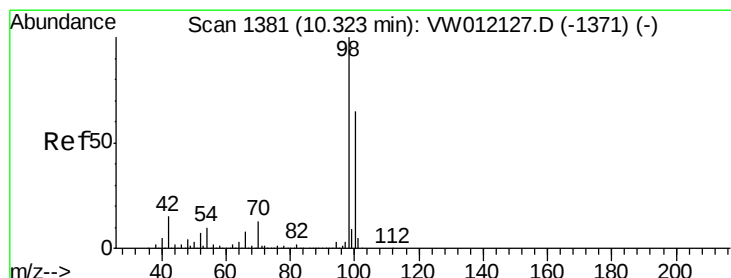
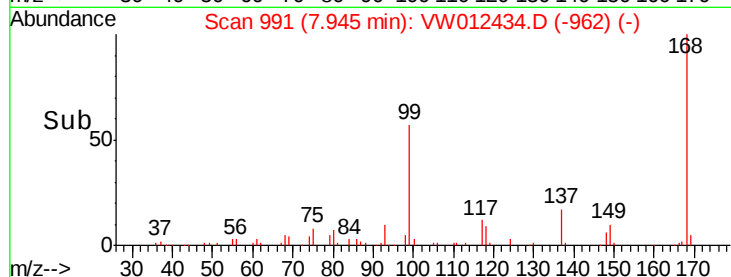
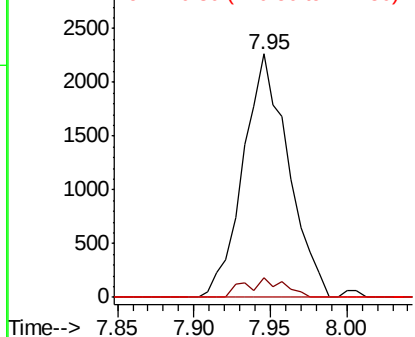
#38  
Carbon Tetrachloride  
Concen: 7.968 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW012434.D  
Acq: 01 Sep 2019 07:31

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-35-9.5-10.0

Tgt Ion: 117 Resp: 4654  
Ion Ratio Lower Upper  
117 100  
119 7.9 76.2 114.2#  
121 0.0 23.8 35.8#

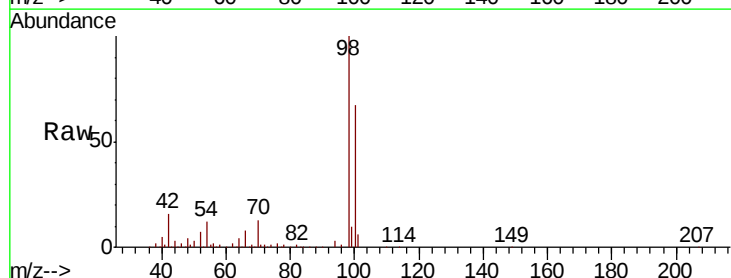


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

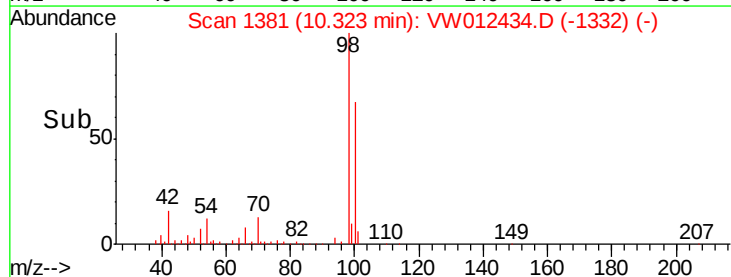
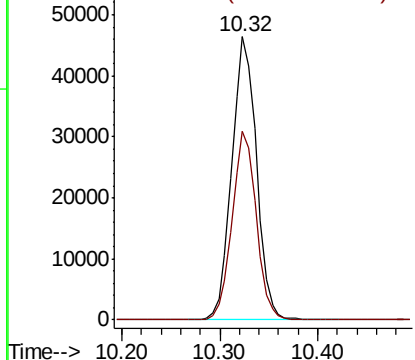


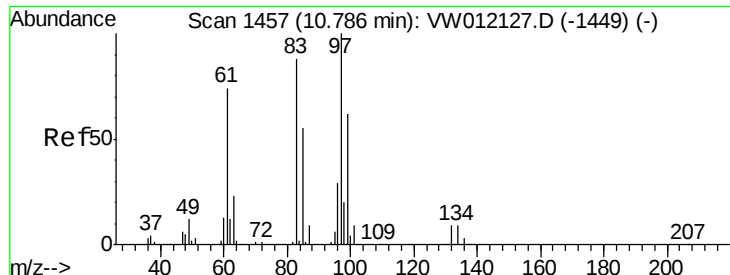
#50  
Toluene-d8  
Concen: 51.452 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012434.D  
Acq: 01 Sep 2019 07:31

Tgt Ion: 98 Resp: 81321  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

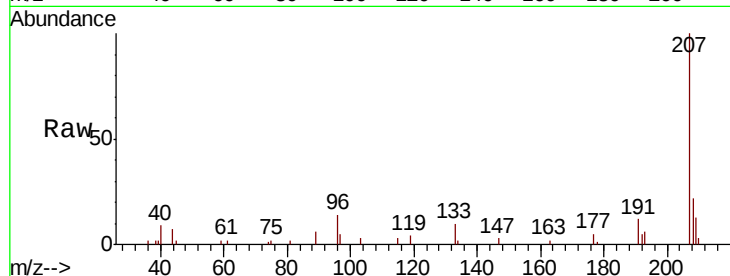




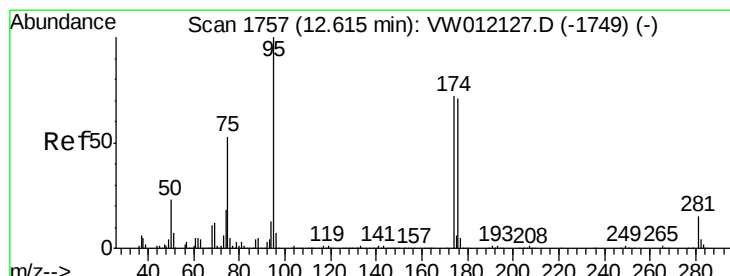
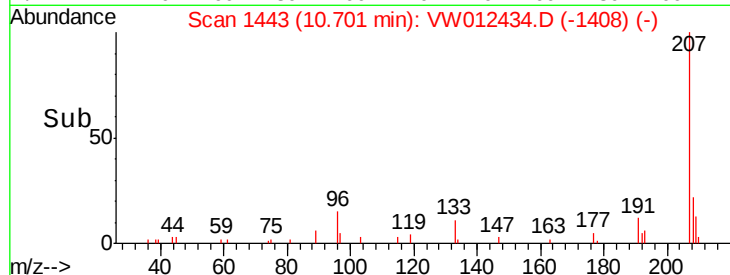
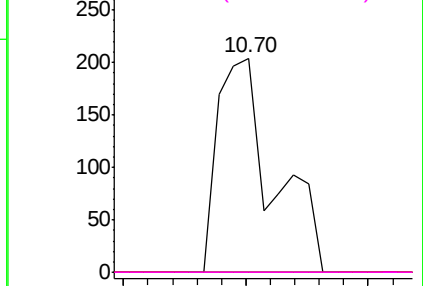
#55  
 1,1,2-Trichloroethane  
 Concen: 1.035 ug/l  
 RT: 10.70 min Scan# 1443  
 Delta R.T. -0.09 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-35-9.5-10.0

Tgt Ion: 97 Resp: 323  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 70.8 106.2#  
 85 0.0 43.8 65.8#  
 99 0.0 49.8 74.6#

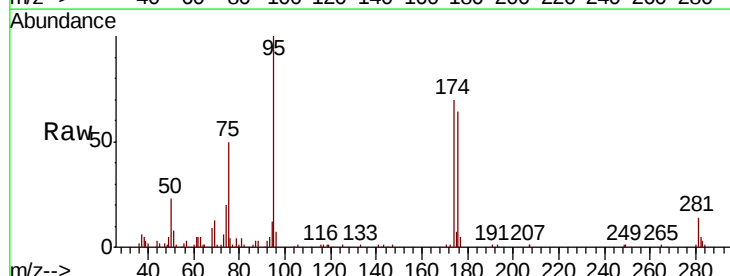


Abundance Ion 96.90 (96.60 to 97.60): VW  
 Ion 82.90 (82.60 to 83.60): VW  
 Ion 84.90 (84.60 to 85.60): VW  
 Ion 98.90 (98.60 to 99.60): VW

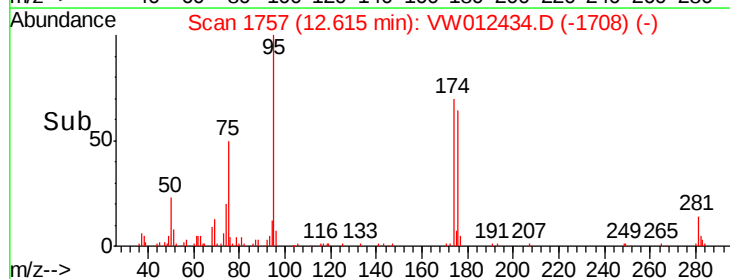
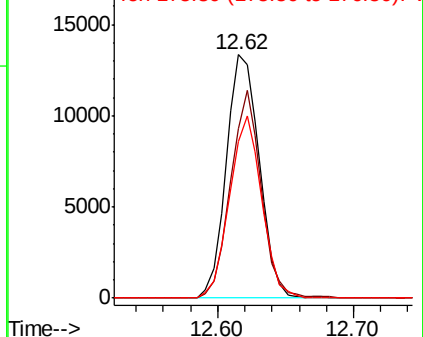


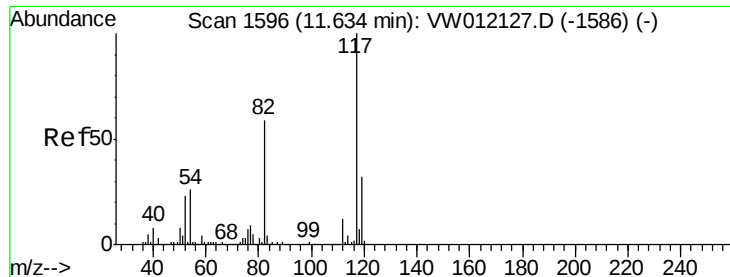
#62  
 4-Bromofluorobenzene  
 Concen: 40.393 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

Tgt Ion: 95 Resp: 22504  
 Ion Ratio Lower Upper  
 95 100  
 174 78.9 0.0 150.8  
 176 72.9 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VW  
 Ion 173.80 (173.50 to 174.50): V  
 Ion 175.80 (175.50 to 176.50): V

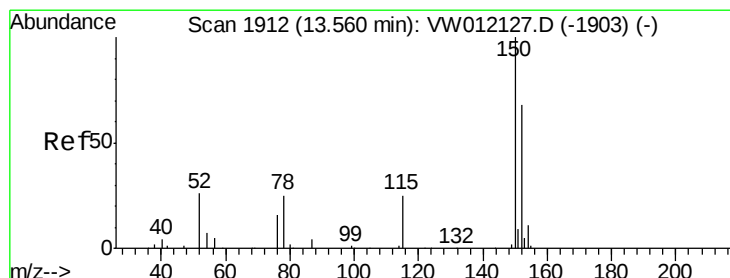
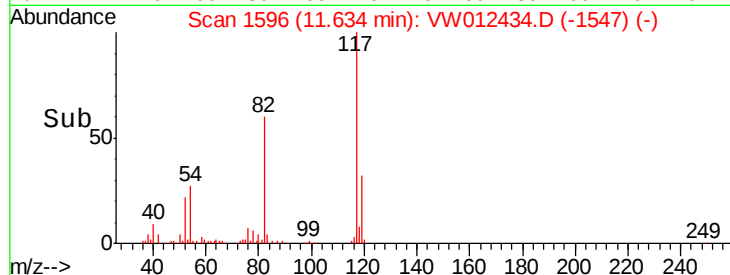
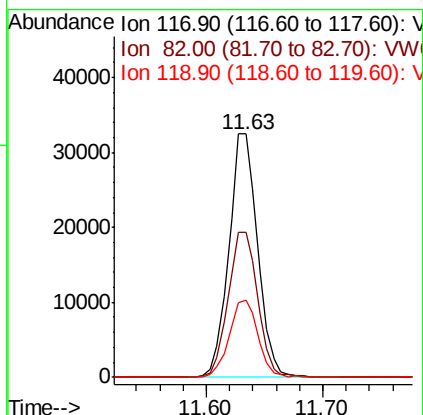
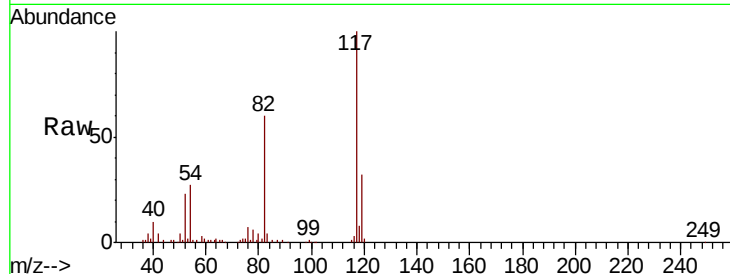




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012434.D  
Acq: 01 Sep 2019 07:31

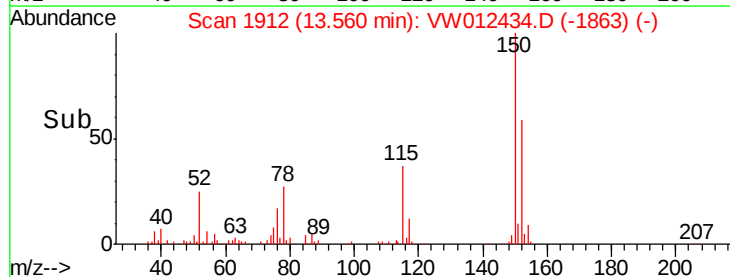
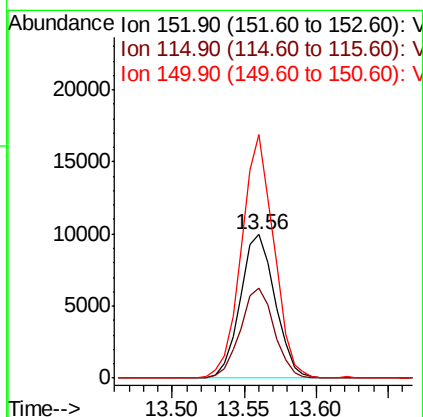
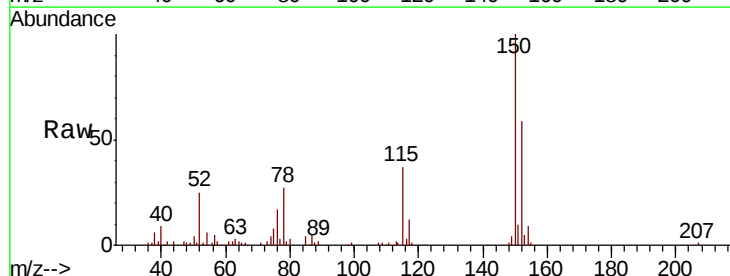
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-35-9.5-10.0

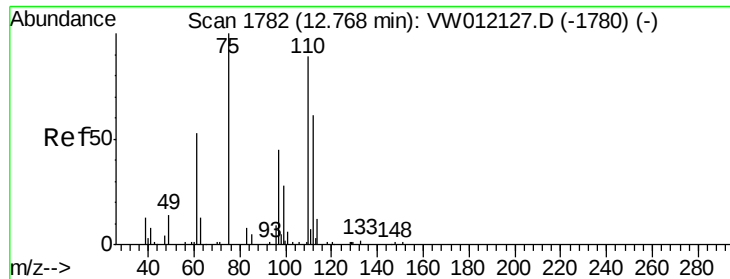
Tgt Ion:117 Resp: 55708  
Ion Ratio Lower Upper  
117 100  
82 59.8 47.4 71.2  
119 31.6 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012434.D  
Acq: 01 Sep 2019 07:31

Tgt Ion:152 Resp: 16641  
Ion Ratio Lower Upper  
152 100  
115 60.8 30.1 90.3  
150 157.9 0.0 345.8

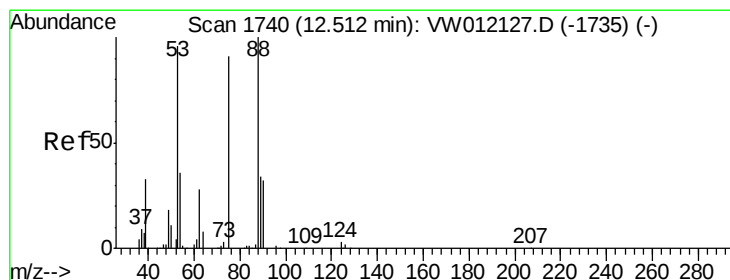
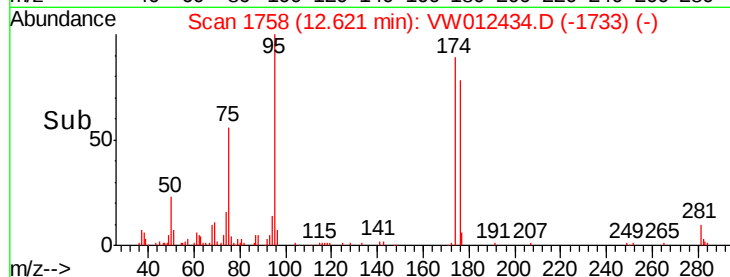
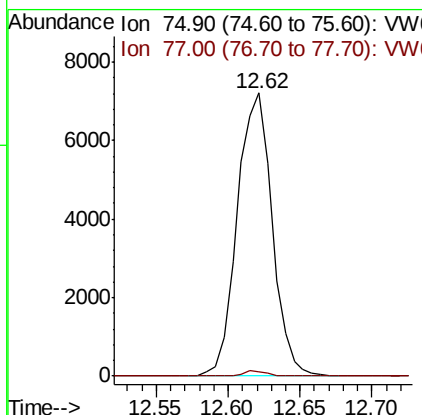
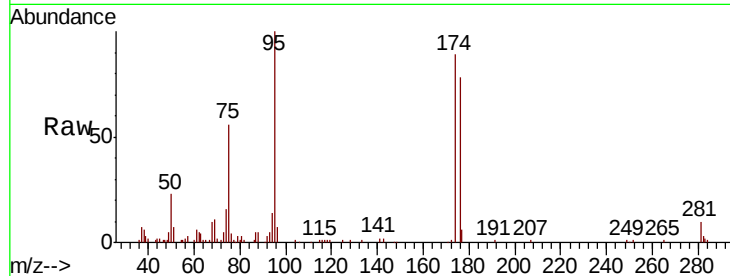




#76  
 1,2,3-Trichloropropane  
 Concen: 74.702 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

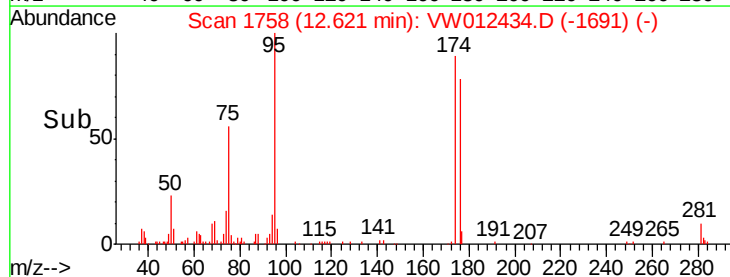
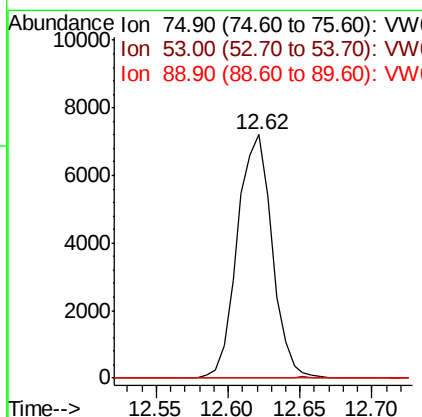
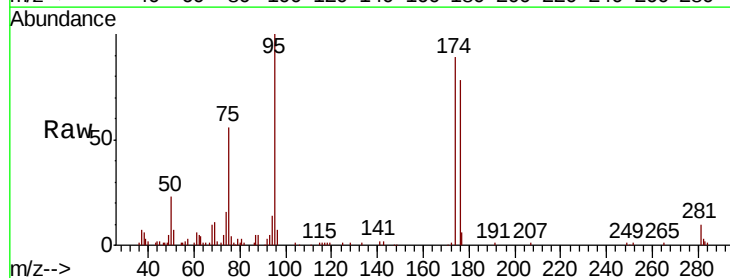
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-35-9.5-10.0

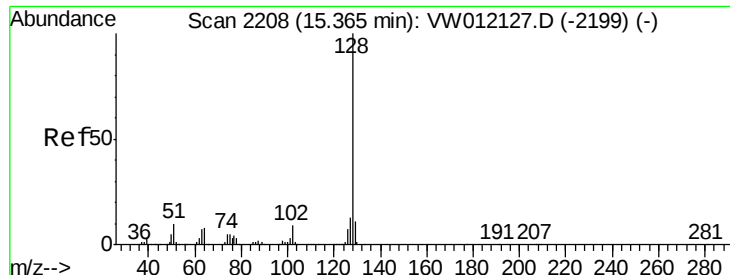
Tgt Ion: 75 Resp: 12107  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 163.786 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.11 min  
 Lab File: VW012434.D  
 Acq: 01 Sep 2019 07:31

Tgt Ion: 75 Resp: 12107  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 89.4 134.0#  
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.349 ug/l

RT: 15.42 min Scan# 2217

Delta R.T. 0.06 min

Lab File: VW012434.D

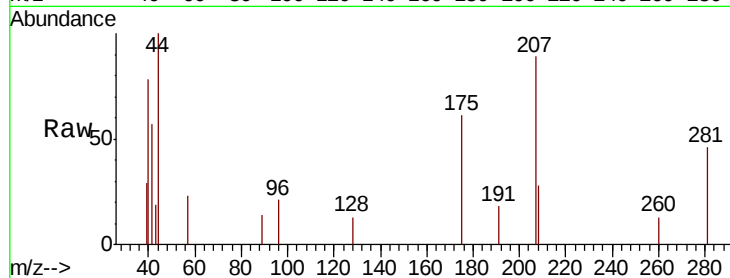
Acq: 01 Sep 2019 07:31

Instrument :

MSVOA\_W

ClientSampleId :

SB-35-9.5-10.0



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 19    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.7  | 16.1# |
| 129      | 210.5 | 8.7   | 13.1# |

