

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042020\  
 Data File : VW015232.D  
 Acq On : 20 Apr 2020 19:16  
 Operator : SY/VA  
 Sample : L2348-02  
 Misc : 5.04G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VOC

Quant Time: Apr 21 06:56:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 21 06:39:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 224522   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 319329   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 277720   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 119056   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 87599    | 47.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.42%  |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 90335    | 51.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.14% |          |
| 50) Toluene-d8              | 10.32 | 98   | 378038   | 50.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.62% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 123546   | 43.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.04%  |          |

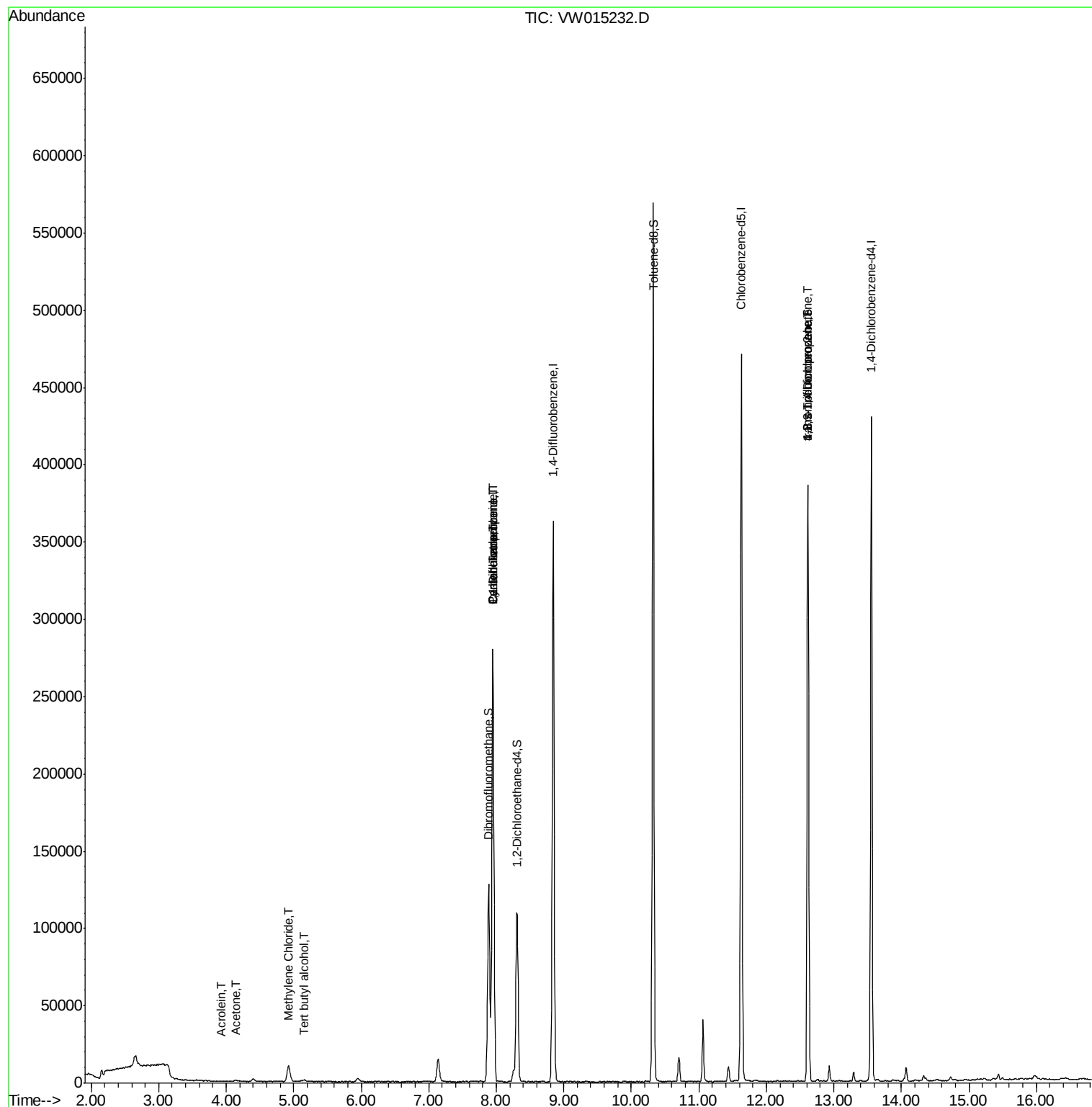
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.15  | 59   | 1288     | 8.606   | ug/l # | 91     |
| 13) Acrolein                   | 3.92  | 56   | 166      | 2.119   | ug/l # | 75     |
| 16) Acetone                    | 4.14  | 43   | 1676     | 5.226   | ug/l   | 94     |
| 20) Methylene Chloride         | 4.93  | 84   | 8516     | 4.052   | ug/l   | 91     |
| 31) Cyclohexane                | 7.95  | 56   | 4470     | 1.317   | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15235    | 5.286   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 19898    | 6.318   | ug/l # | 19     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 62367    | 67.715  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 62367    | 148.025 | ug/l # | 15     |

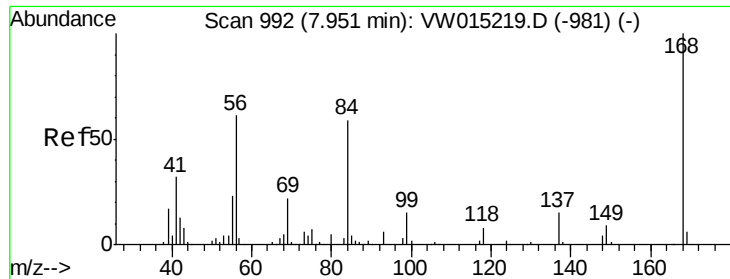
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW042020\  
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Operator : SY/VA  
Sample : L2348-02  
Misc : 5.04G/5ML/MSVOA W/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VOC

Quant Time: Apr 21 06:56:50 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 21 06:39:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

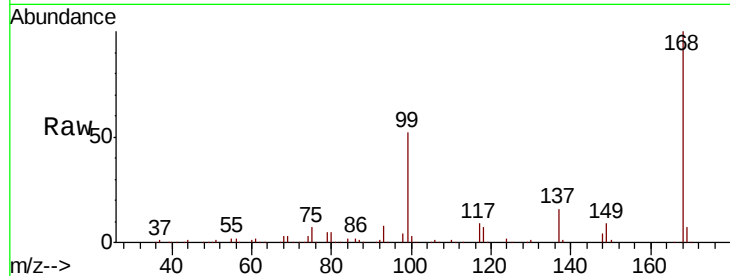
Instrument :  
MSVOA\_W  
ClientSampleId :  
VOC

Tot Ion:168 Resp: 224522

Ion Ratio Lower Upper

168 100

99 51.5 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

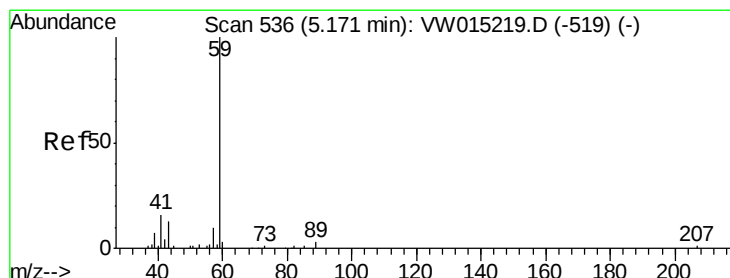
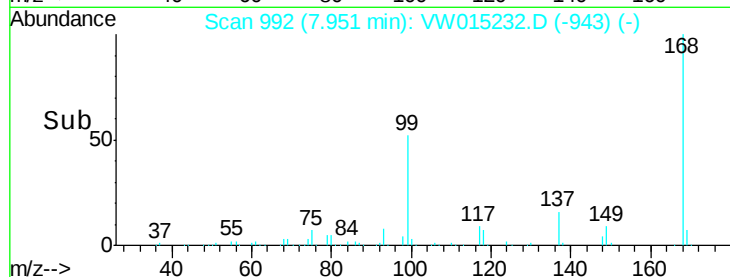
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 8.606 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.02 min

Lab File: VW015232.D

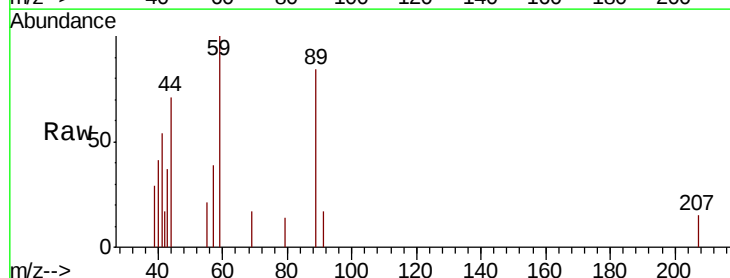
Acq: 20 Apr 2020 19:16

Tgt Ion: 59 Resp: 1288

Ion Ratio Lower Upper

59 100

57 7.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

400

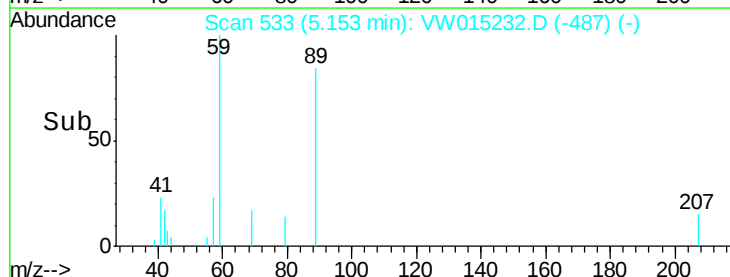
300

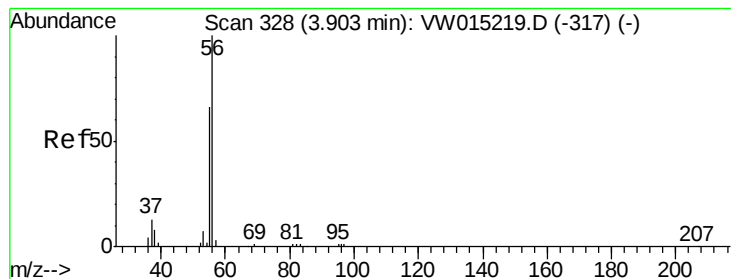
200

100

0

Time-->





#13

Acrolein

Concen: 2.119 ug/l

RT: 3.92 min Scan# 331

Delta R.T. 0.02 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

Instrument :

MSVOA\_W

ClientSampled :

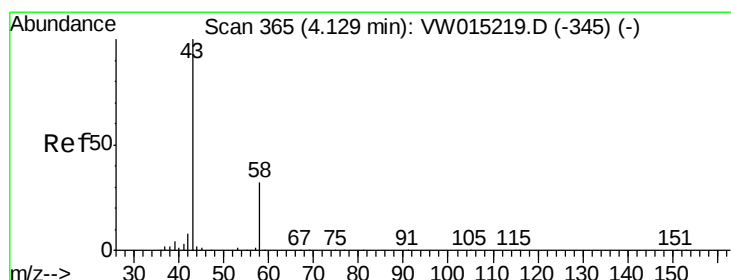
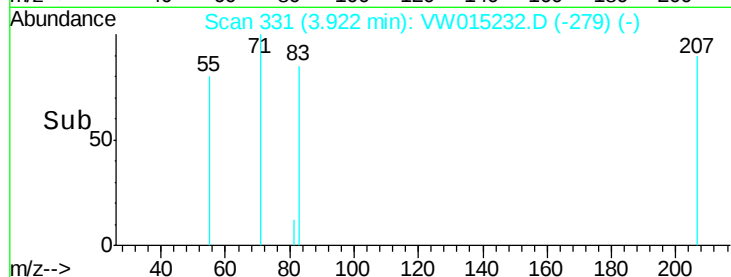
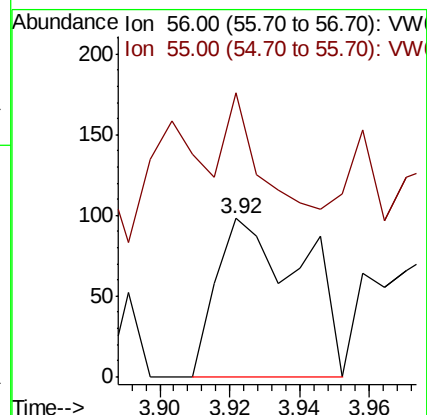
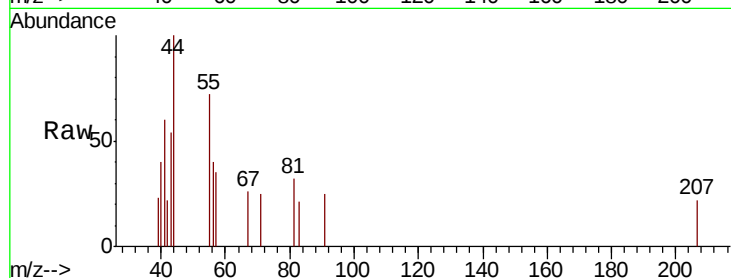
VOC

Tot Ion: 56 Resp: 166

Ion Ratio Lower Upper

56 100

55 49.4 56.2 84.2#



#16

Acetone

Concen: 5.226 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW015232.D

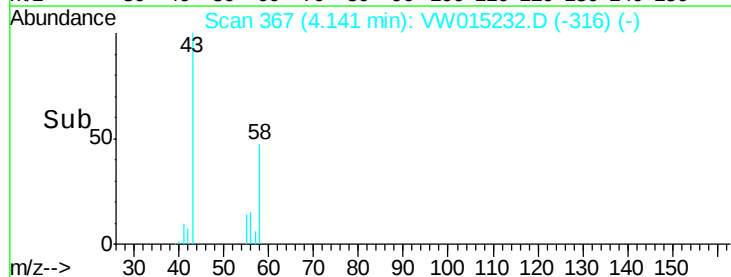
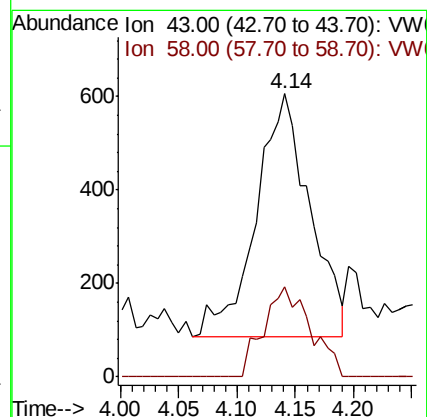
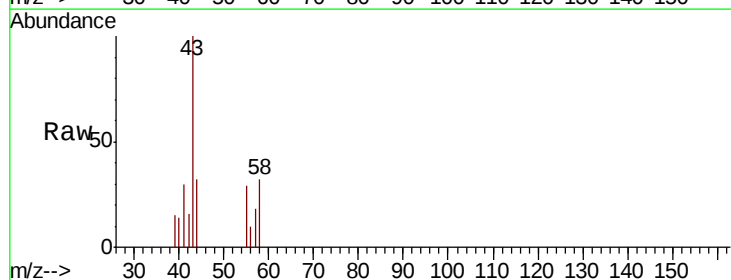
Acq: 20 Apr 2020 19:16

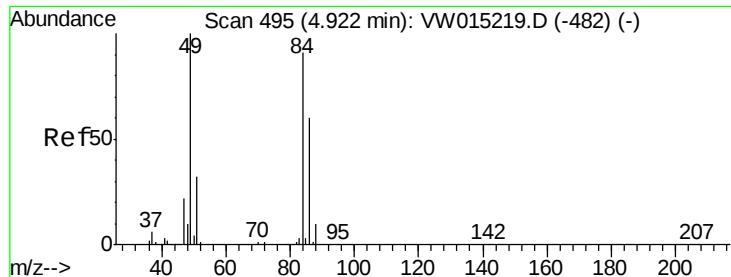
Tgt Ion: 43 Resp: 1676

Ion Ratio Lower Upper

43 100

58 37.0 27.0 40.4

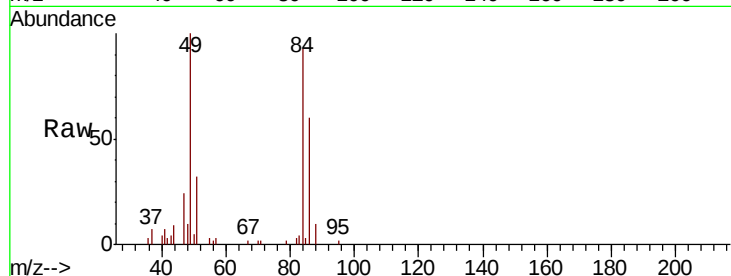




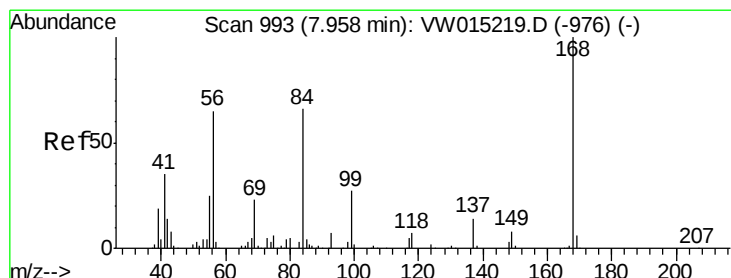
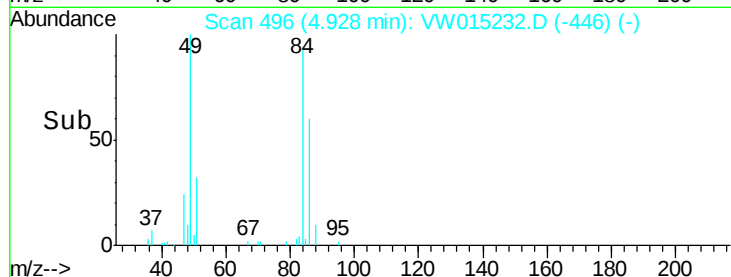
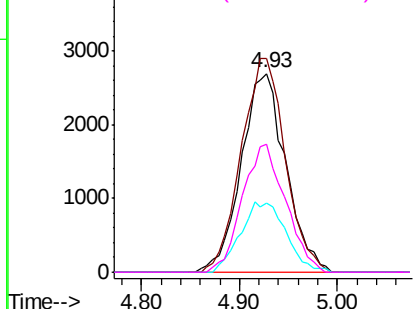
#20  
Methvlene Chloride  
Concen: 4.052 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW015232.D  
Acq: 20 Apr 2020 19:16

Instrument :  
MSVOA\_W  
ClientSampleId :  
VOC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 8516  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 107.4 | 95.4  | 143.0 |
| 51       | 34.7  | 29.8  | 44.8  |
| 86       | 64.5  | 47.4  | 71.0  |

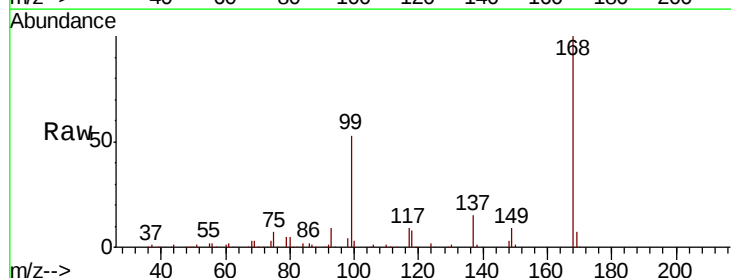


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

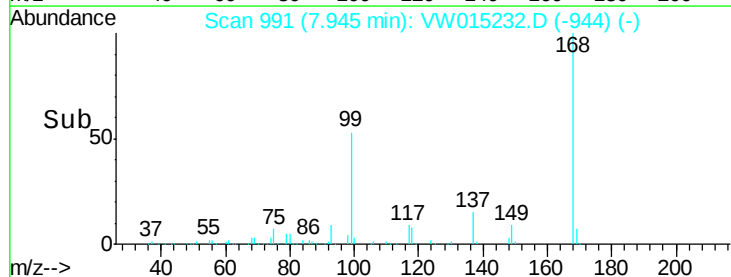
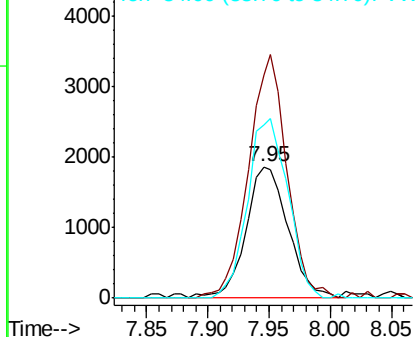


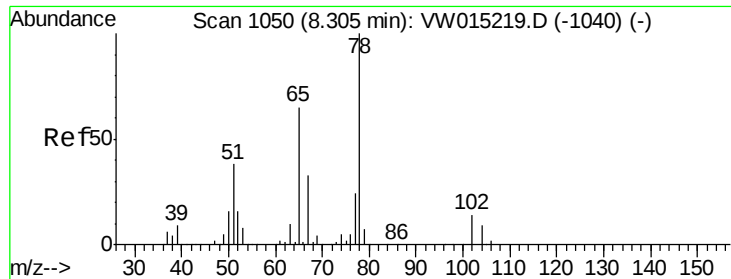
#31  
Cyclohexane  
Concen: 1.317 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW015232.D  
Acq: 20 Apr 2020 19:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4470   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 169.8 | 27.1  | 40.7#  |
| 84       | 132.2 | 71.9  | 107.9# |



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: 47.711 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

Instrument :

MSVOA\_W

ClientSampleId :

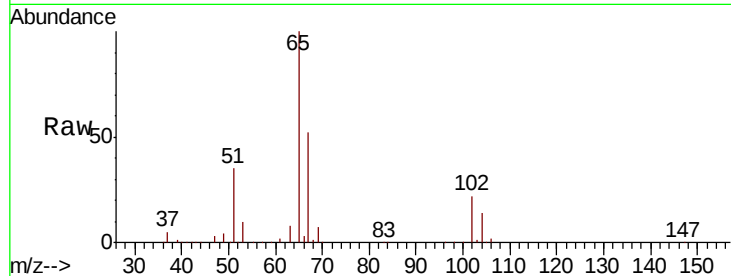
VOC

Tot Ion: 65 Resp: 87599

Ion Ratio Lower Upper

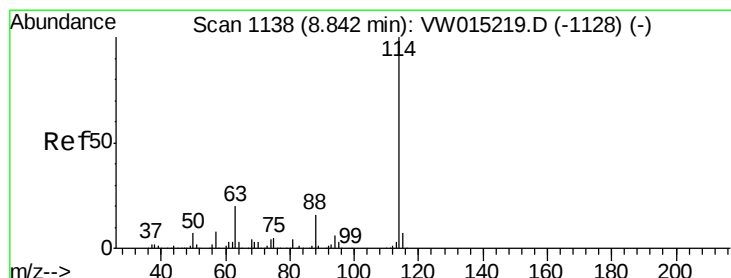
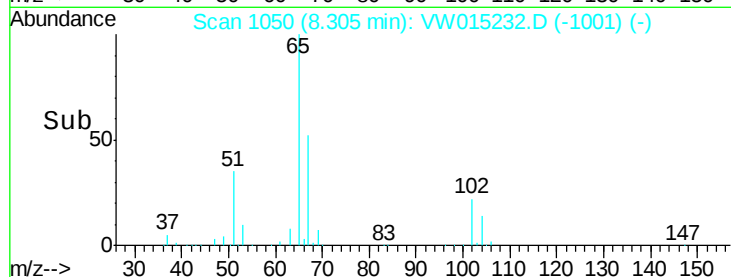
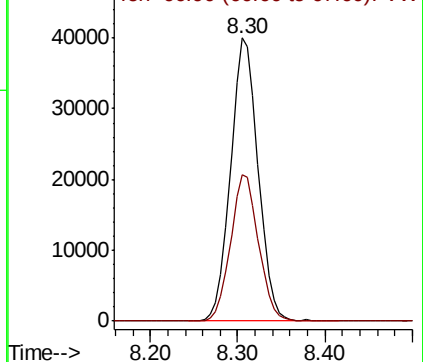
65 100

67 52.4 0.0 107.0



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: VW015232.D

Acq: 20 Apr 2020 19:16

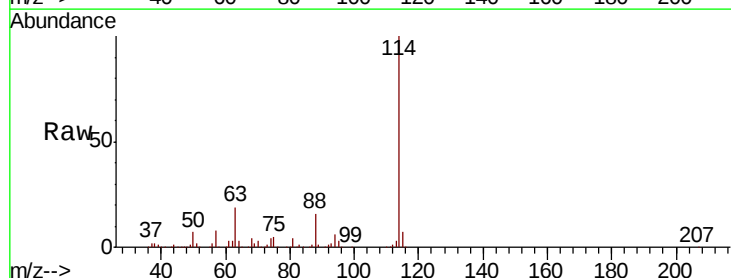
Tgt Ion: 114 Resp: 319329

Ion Ratio Lower Upper

114 100

63 18.7 0.0 39.8

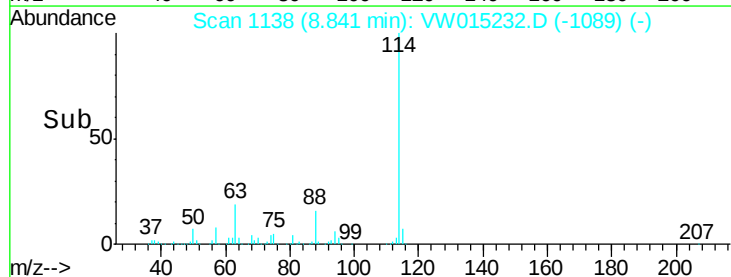
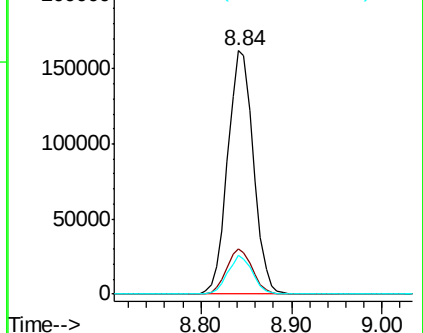
88 15.8 0.0 30.2

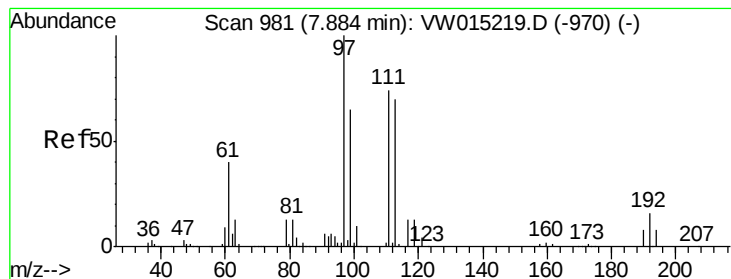


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 51.071 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

Instrument :

MSVOA\_W

ClientSampleId :

VOC

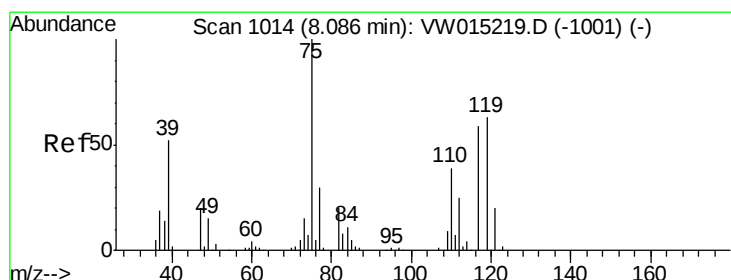
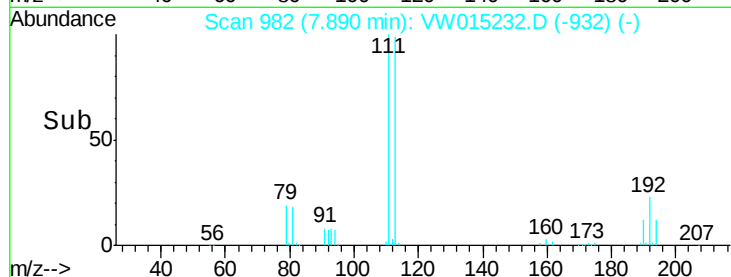
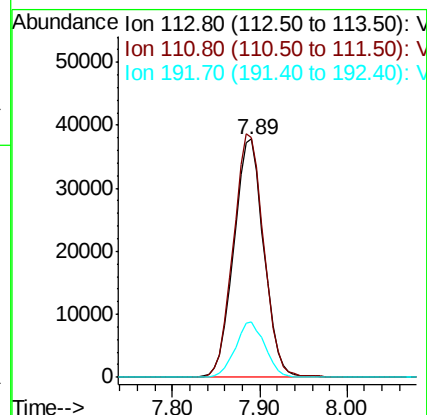
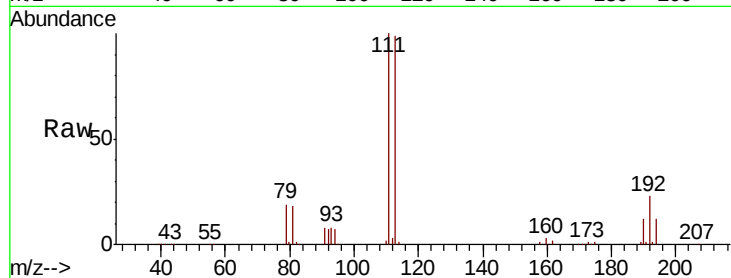
Tot Ion:113 Resp: 90335

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.4

192 22.8 15.1 22.7#



#36

1,1-Dichloropropene

Concen: 5.286 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

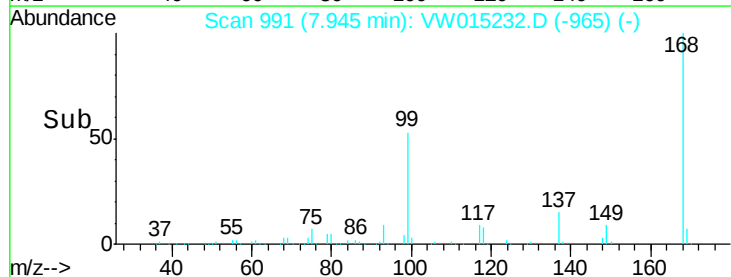
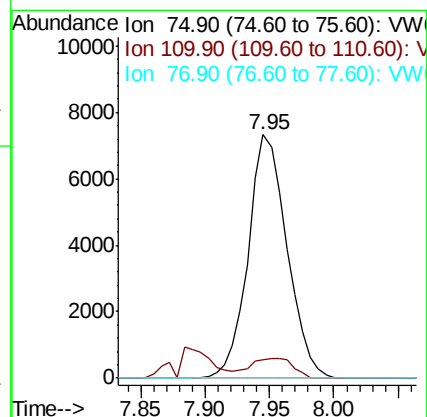
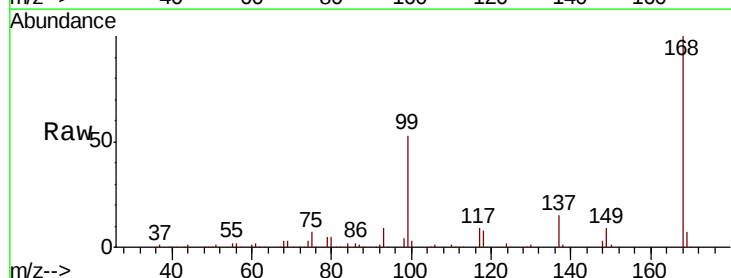
Tgt Ion: 75 Resp: 15235

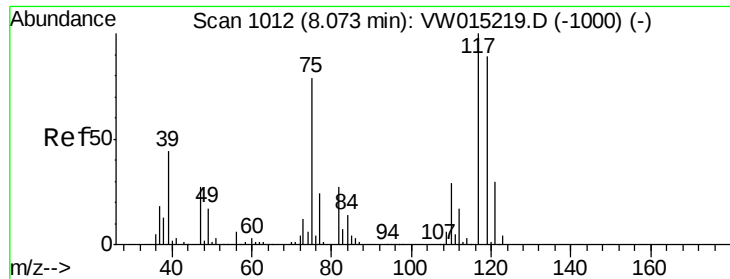
Ion Ratio Lower Upper

75 100

110 9.1 18.2 54.6#

77 0.0 24.5 36.7#

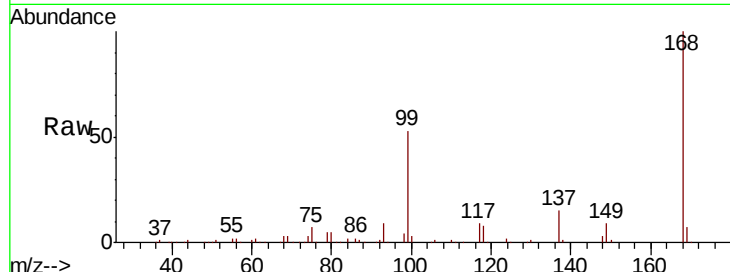




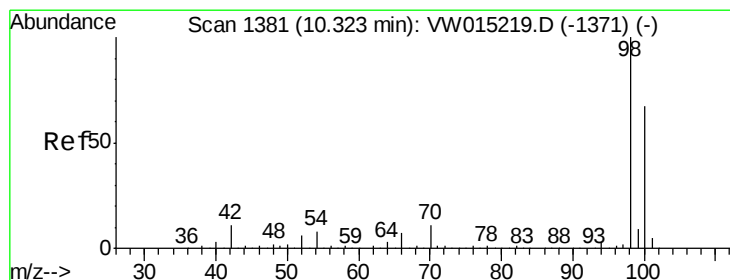
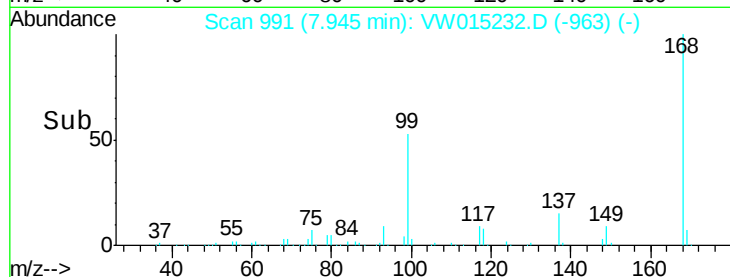
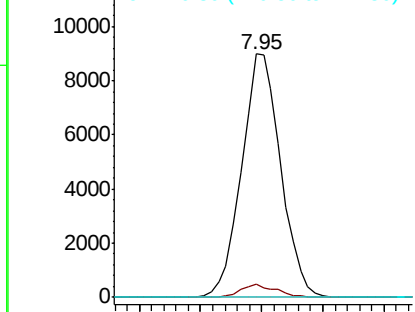
#38  
Carbon Tetrachloride  
Concen: 6.318 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.13 min  
Lab File: VW015232.D  
Acq: 20 Apr 2020 19:16

Instrument :  
MSVOA\_W  
ClientSampleId :  
VOC

Tot Ion:117 Resp: 19898  
Ion Ratio Lower Upper  
117 100  
119 5.4 72.3 108.5#  
121 0.0 23.7 35.5#

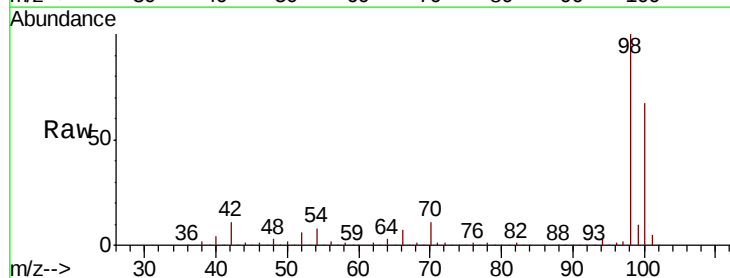


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

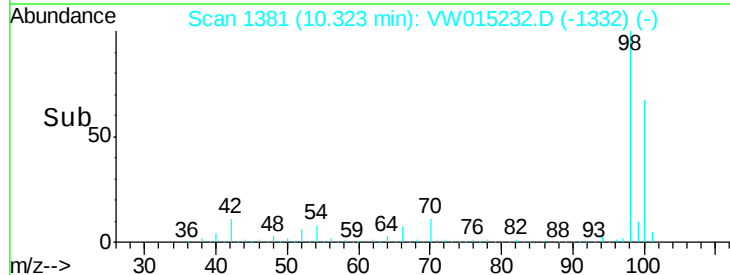
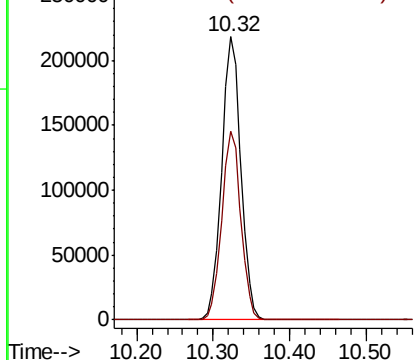


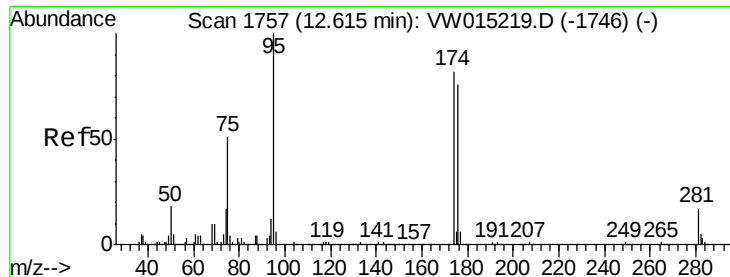
#50  
Toluene-d8  
Concen: 50.805 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW015232.D  
Acq: 20 Apr 2020 19:16

Tgt Ion: 98 Resp: 378038  
Ion Ratio Lower Upper  
98 100  
100 66.4 52.9 79.3



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





#62

4-Bromofluorobenzene

Concen: 43.517 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

Instrument :

MSVOA\_W

ClientSampled :

VOC

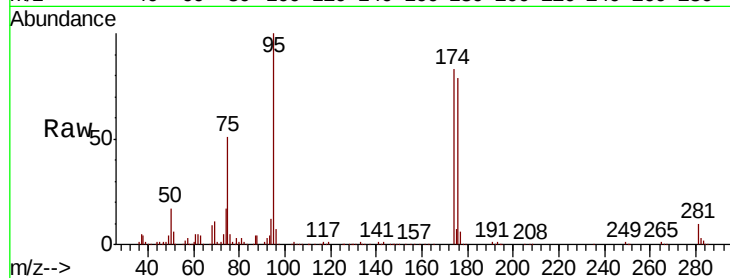
Tot Ion: 95 Resp: 123546

Ion Ratio Lower Upper

95 100

174 87.4 0.0 144.4

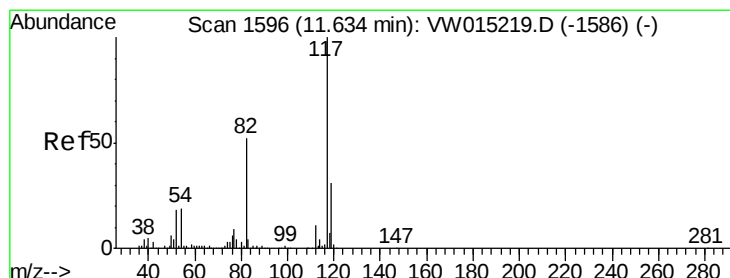
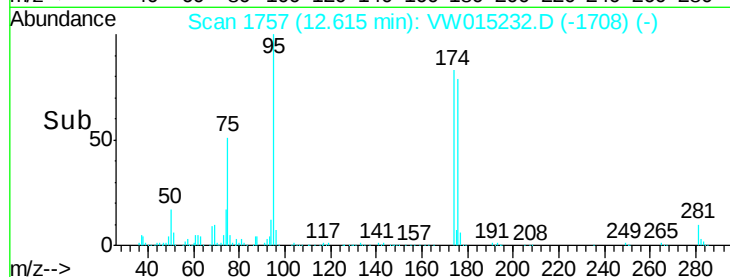
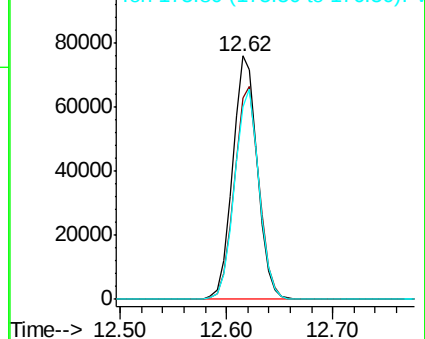
176 85.5 0.0 140.6



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# 1596

Delta R.T. -0.00 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

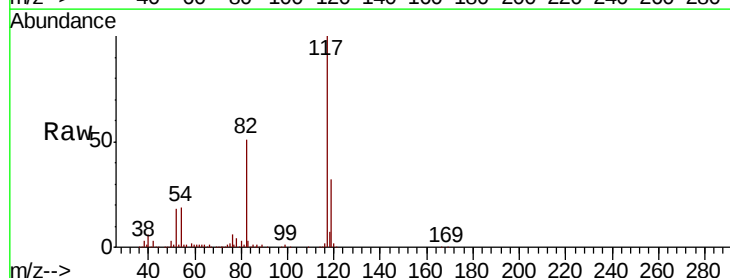
Tgt Ion: 117 Resp: 277720

Ion Ratio Lower Upper

117 100

82 50.9 44.1 66.1

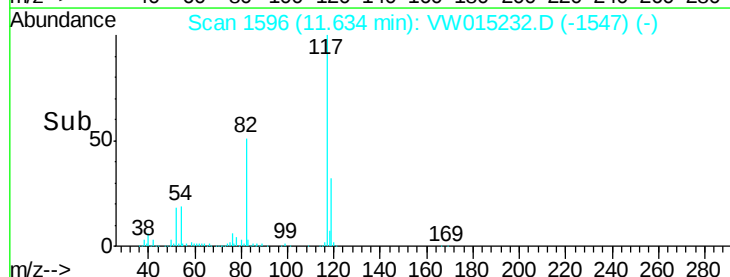
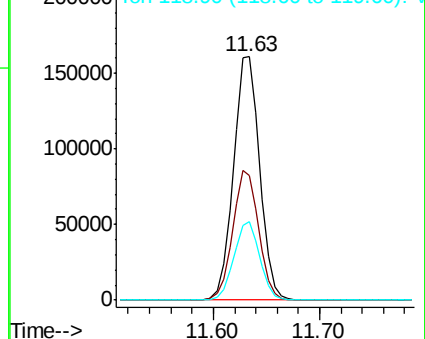
119 31.9 24.9 37.3

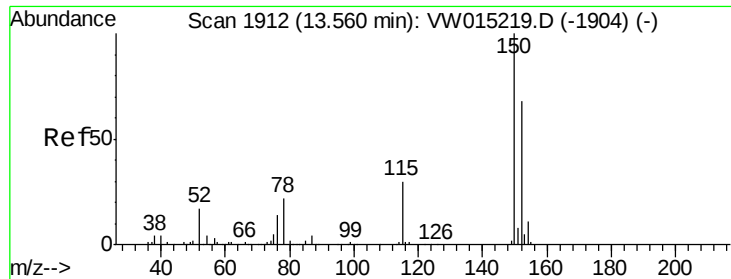


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

Instrument :

MSVOA\_W

ClientSampleId :

VOC

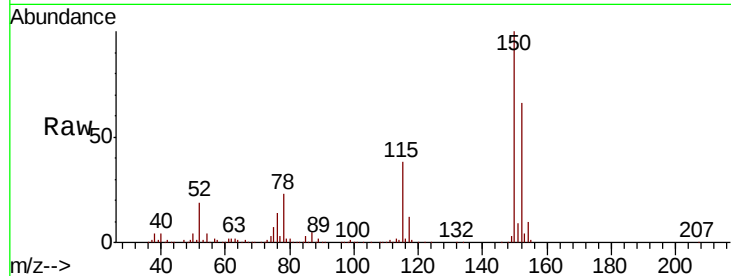
Tot Ion:152 Resp: 119056

Ion Ratio Lower Upper

152 100

115 56.9 31.3 93.9

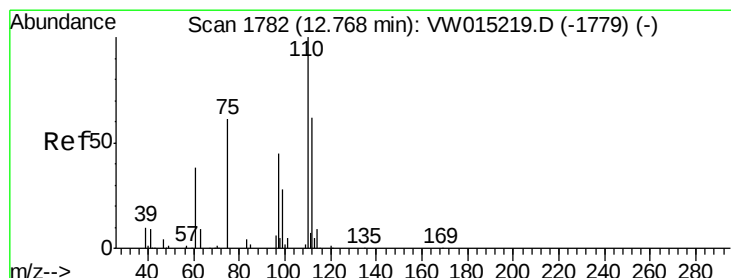
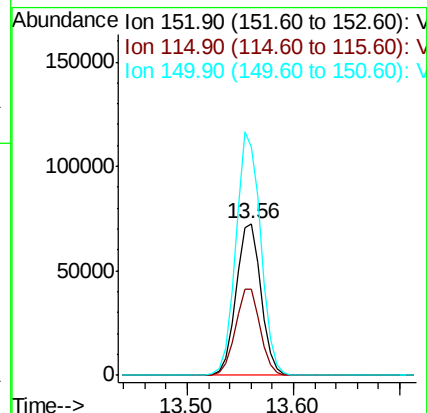
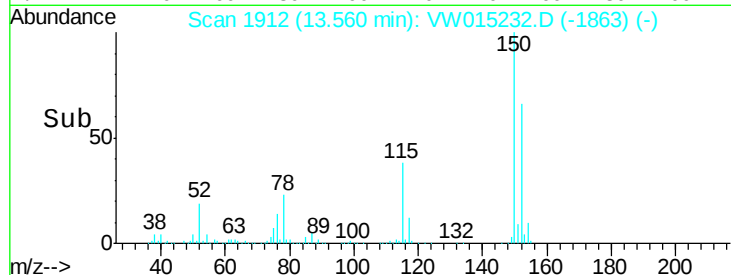
150 159.1 0.0 343.4



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: 67.715 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW015232.D

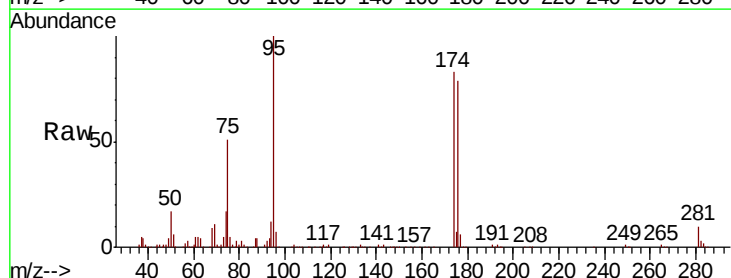
Acq: 20 Apr 2020 19:16

Tgt Ion: 75 Resp: 62367

Ion Ratio Lower Upper

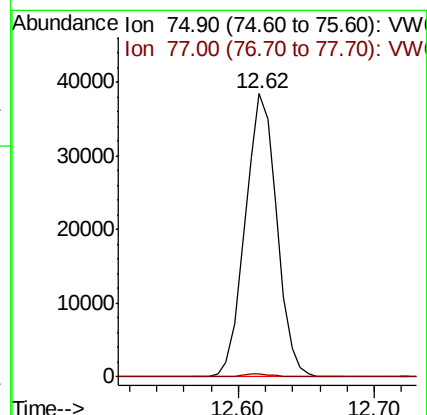
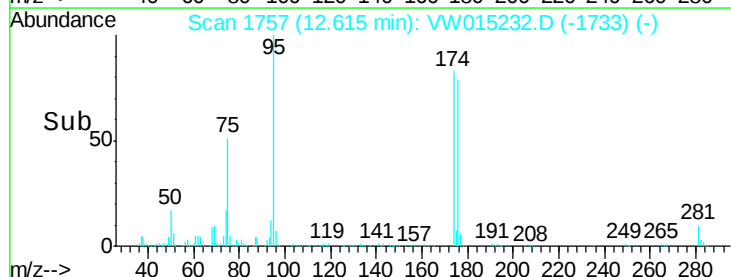
75 100

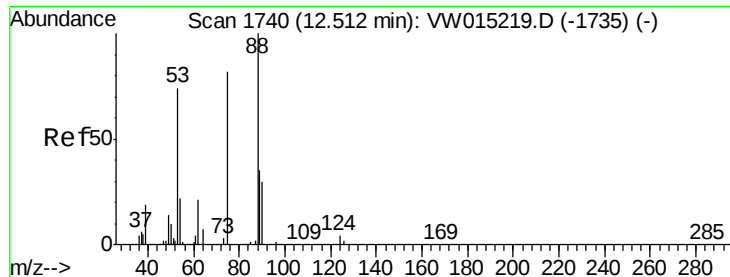
77 1.2 0.0 0.0#



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: 148.025 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW015232.D

Acq: 20 Apr 2020 19:16

Instrument :

MSVOA\_W

ClientSampleId :

VOC

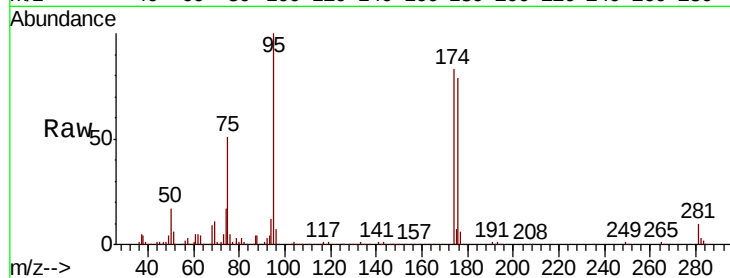
Tot Ion: 75 Resp: 62367

Ion Ratio Lower Upper

75 100

53 0.0 69.4 104.2#

89 0.0 34.8 52.2#



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

