

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\  
 Data File : VX019350.D  
 Acq On : 06 Nov 2020 18:20  
 Operator : JC/MD  
 Sample : L4666-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Quant Time: Nov 07 01:08:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:55:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 288658   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 502392   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 476400   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 237423   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 204069   | 54.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.64% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 157225   | 49.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.64%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 620718   | 52.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.36% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 239948   | 53.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.52% |          |

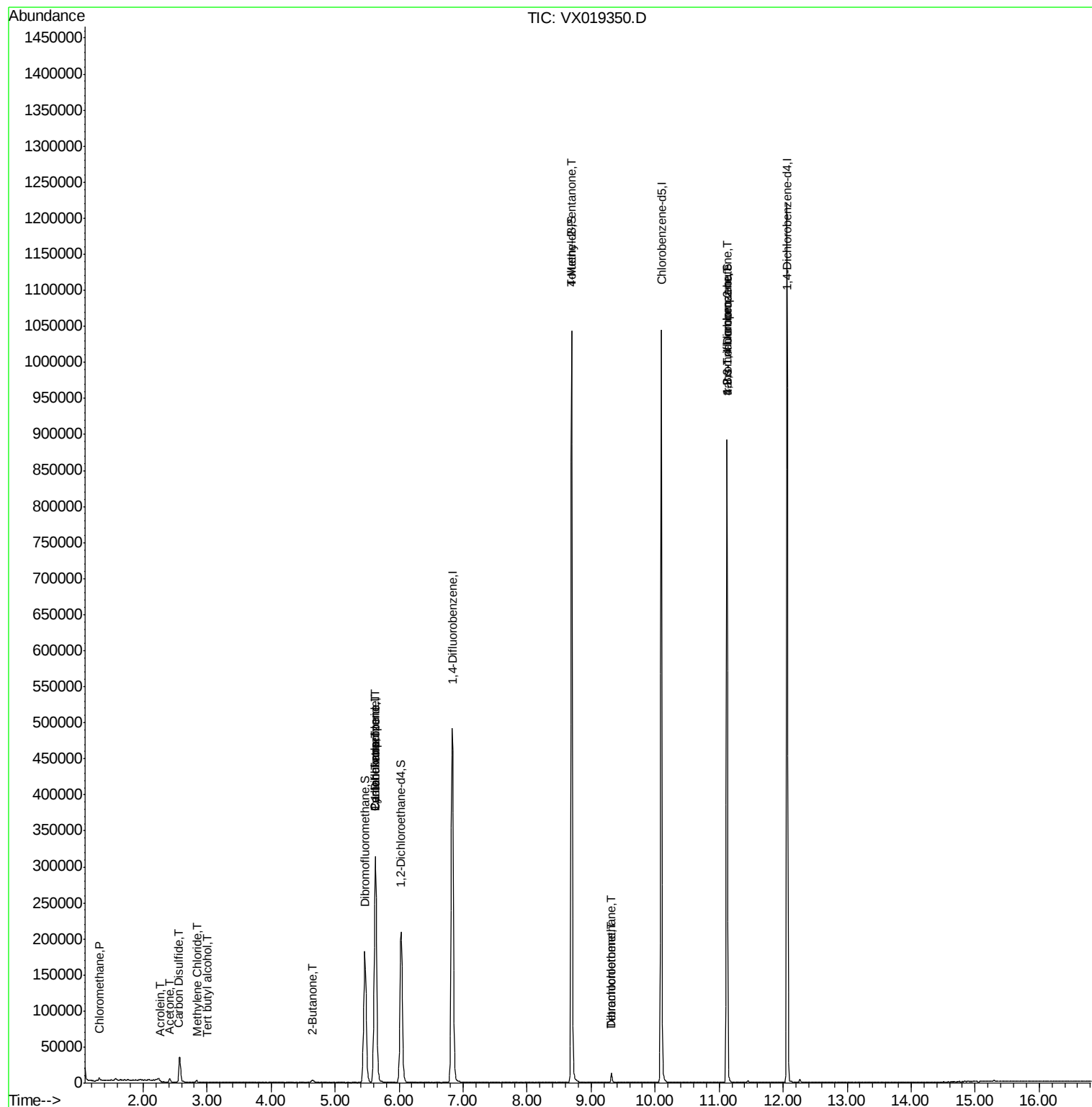
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1822     | 0.678  | ug/l   | 98     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 613      | 0.834  | ug/l # | 72     |
| 13) Acrolein                   | 2.27  | 56   | 49       | 5.794  | ug/l # | 16     |
| 16) Acetone                    | 2.42  | 43   | 5228     | 4.071  | ug/l   | 95     |
| 17) Carbon Disulfide           | 2.55  | 76   | 282      | 0.795  | ug/l # | 75     |
| 20) Methylene Chloride         | 2.84  | 84   | 1102     | 0.342  | ug/l   | 94     |
| 25) 2-Butanone                 | 4.64  | 43   | 558      | 0.276  | ug/l # | 44     |
| 31) Cyclohexane                | 5.63  | 56   | 6194     | 1.316  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 23782    | 5.126  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 30031    | 6.351  | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 8.70  | 43   | 2973     | 0.717  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.32  | 129  | 2329     | 0.641  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.32  | 164  | 2336     | 0.644  | ug/l # | 88     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 123633   | 25.219 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 123633   | 66.403 | ug/l # | 12     |

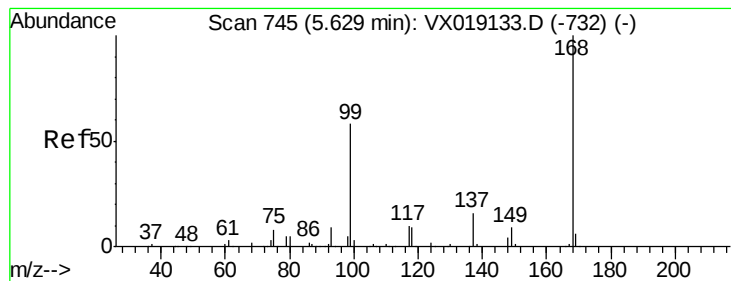
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 07 01:08:10 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 27 13:55:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

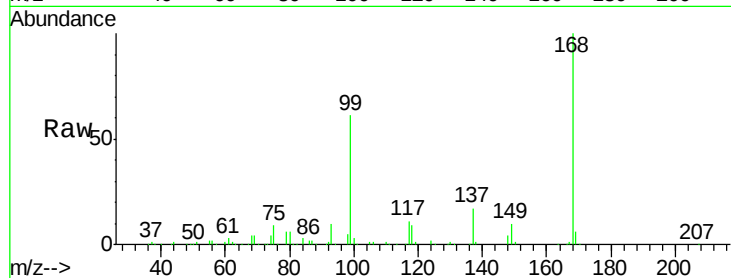
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 288658

Ion Ratio Lower Upper

168 100

99 61.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

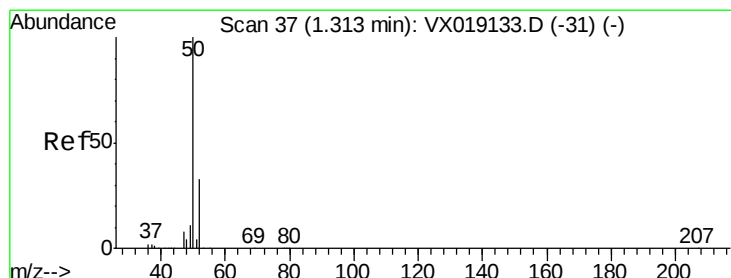
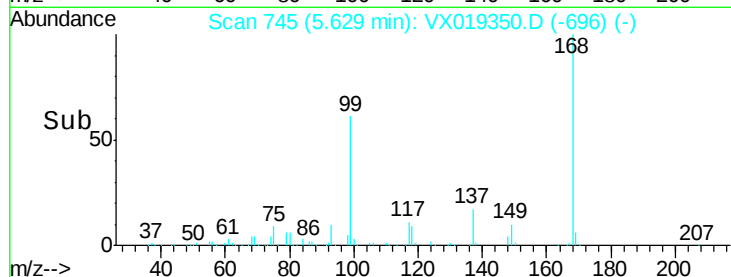
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.678 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019350.D

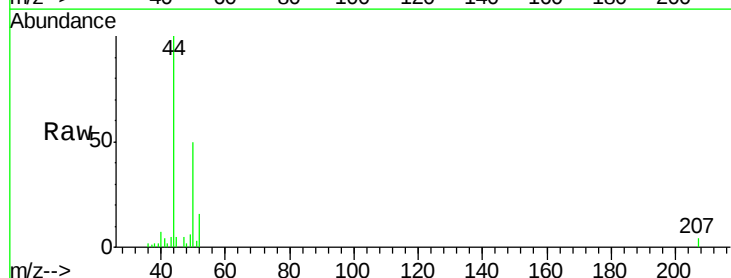
Acq: 06 Nov 2020 18:20

Tgt Ion: 50 Resp: 1822

Ion Ratio Lower Upper

50 100

52 32.2 26.8 40.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

2000

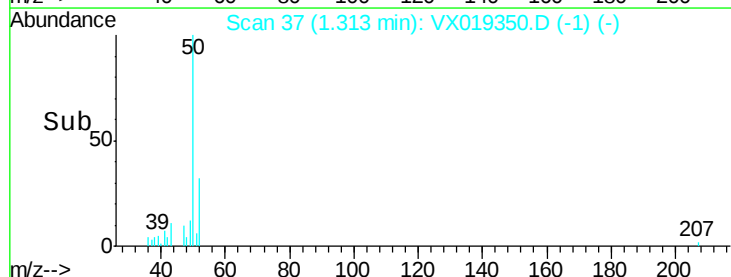
1500

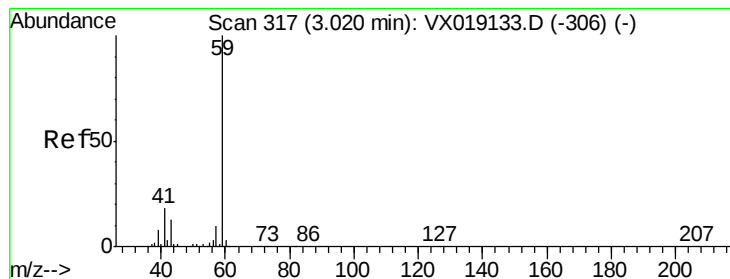
1000

500

0

Time-->





#11

Tert butyl alcohol

Concen: 0.834 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

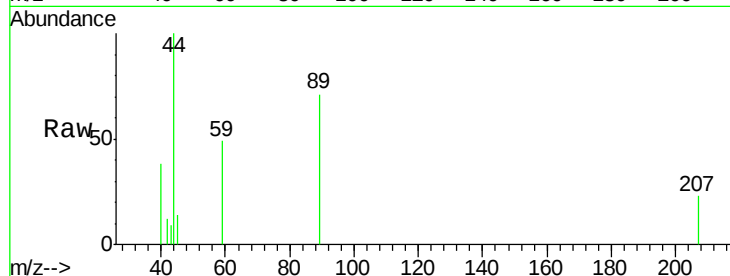
STORAGE-BLANK-WATER-REF-5

Tot Ion: 59 Resp: 613

Ion Ratio Lower Upper

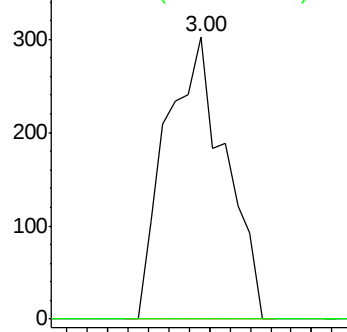
59 100

57 0.0 8.4 12.6#

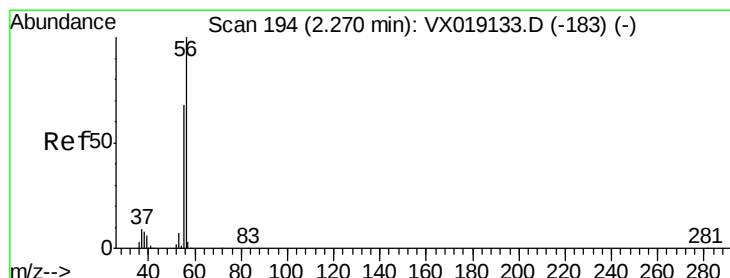
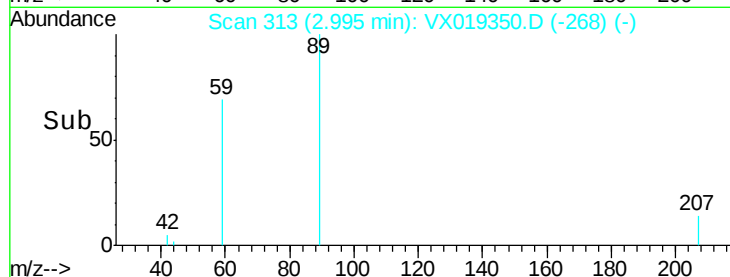


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 5.794 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019350.D

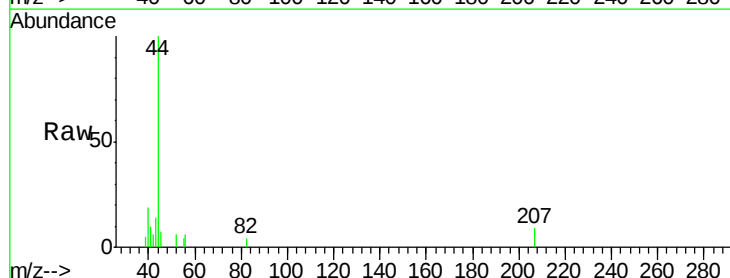
Acq: 06 Nov 2020 18:20

Tgt Ion: 56 Resp: 49

Ion Ratio Lower Upper

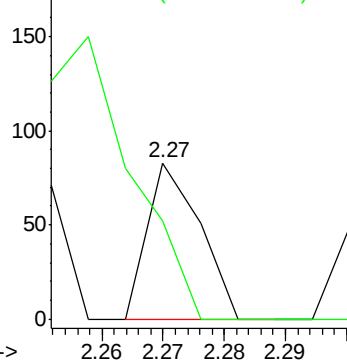
56 100

55 0.0 54.7 82.1#

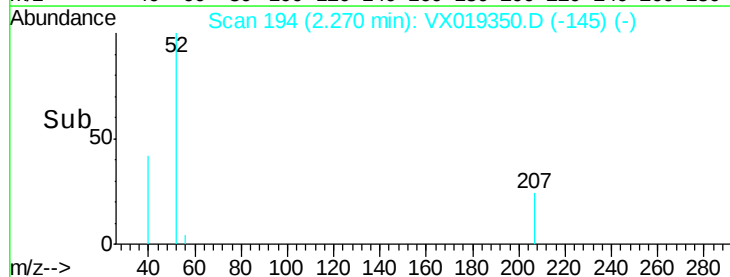


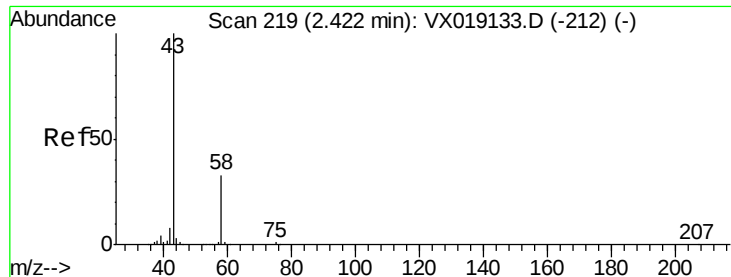
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#16

Acetone

Concen: 4.071 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

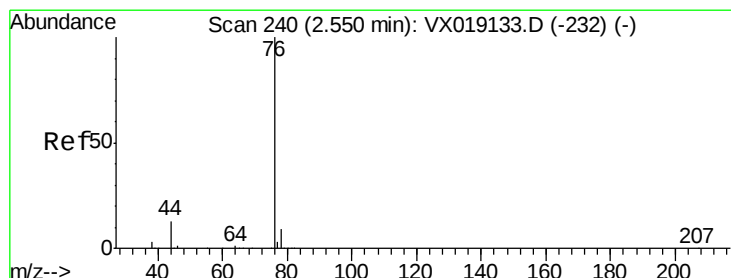
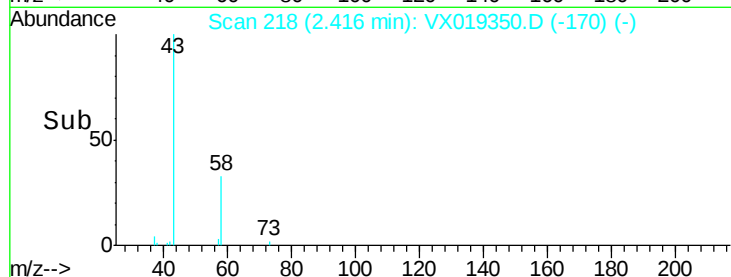
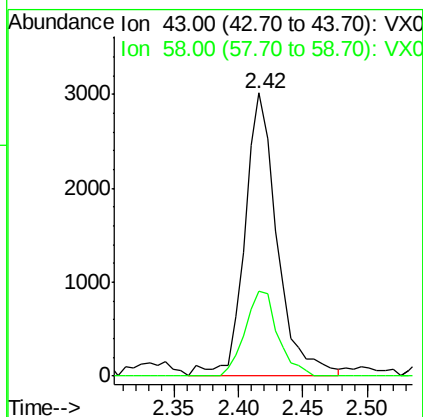
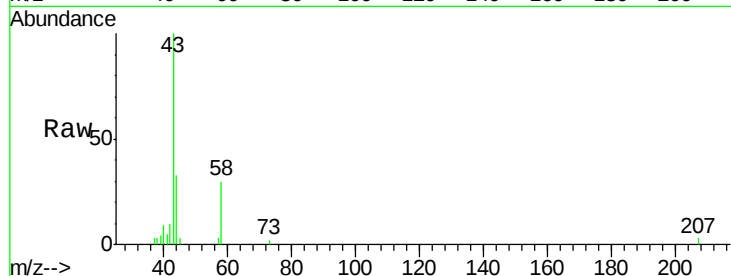
STORAGE-BLANK-WATER-REF-5

Tot Ion: 43 Resp: 5228

Ion Ratio Lower Upper

43 100

58 30.0 26.3 39.5



#17

Carbon Disulfide

Concen: 0.795 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019350.D

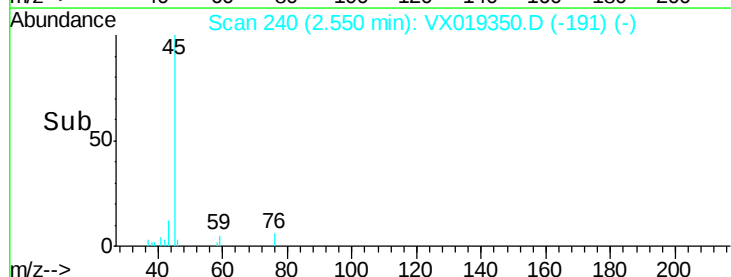
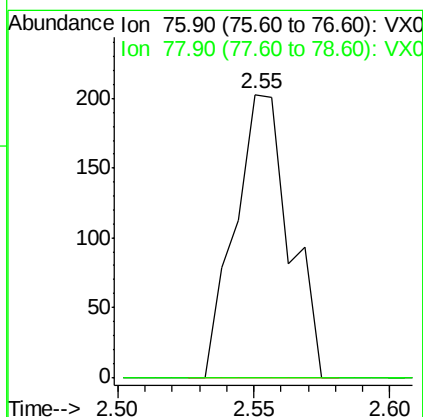
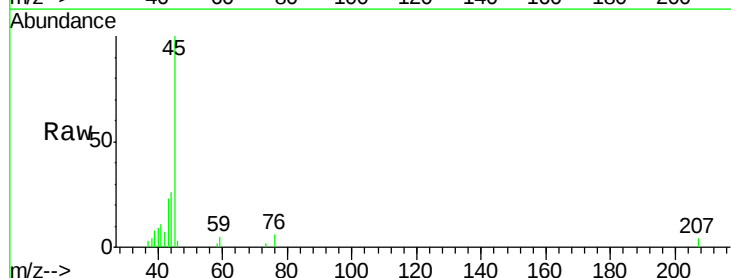
Acq: 06 Nov 2020 18:20

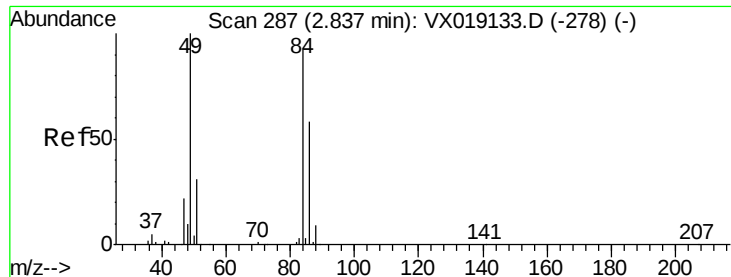
Tgt Ion: 76 Resp: 282

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

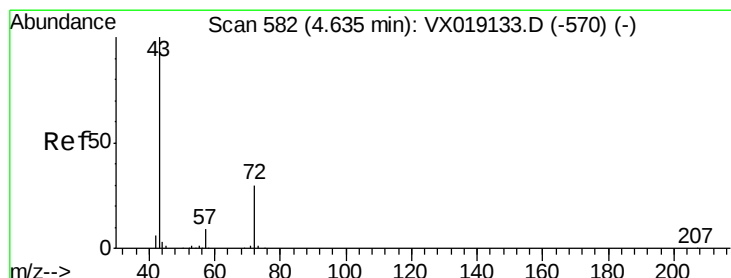
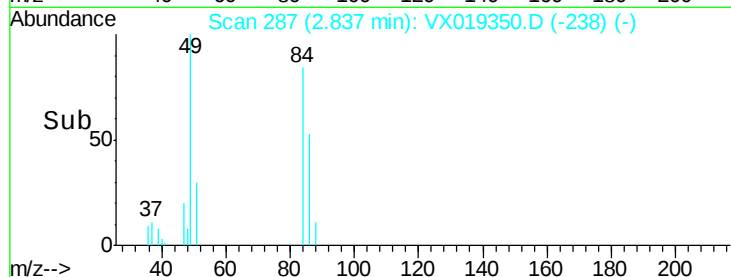
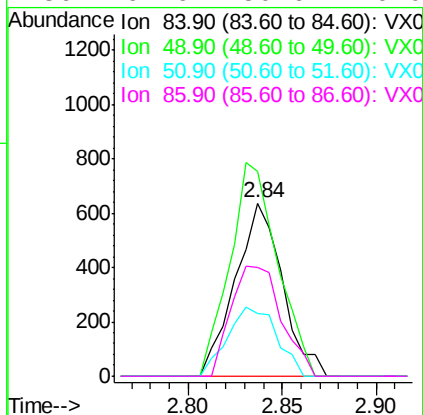
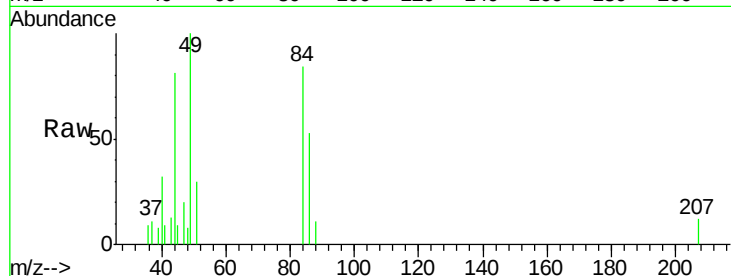




#20  
Methvlene Chloride  
Concen: 0.342 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.00 min  
Lab File: VX019350.D  
Acq: 06 Nov 2020 18:20

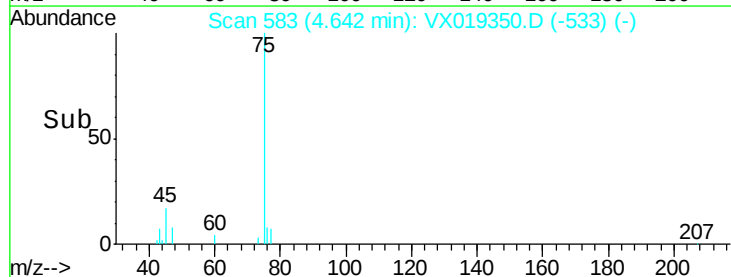
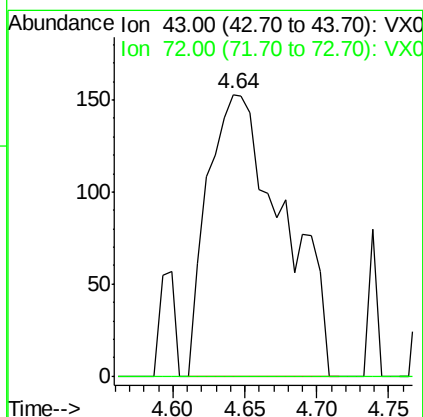
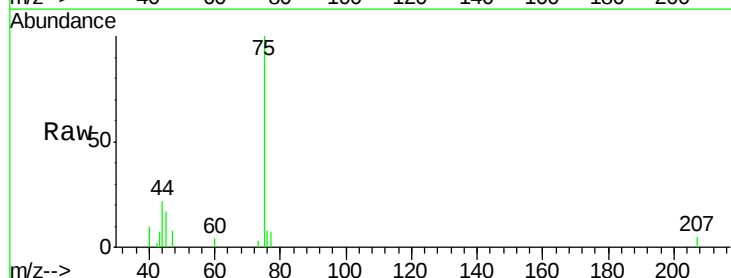
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

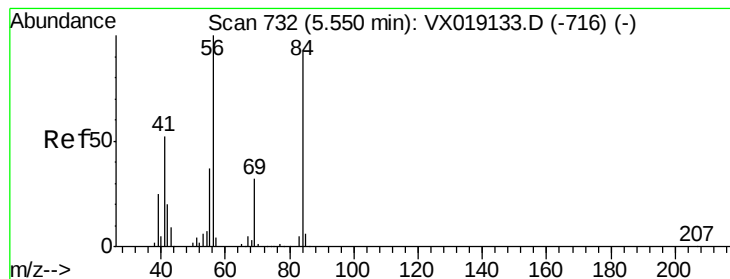
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 1102  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.5 | 86.8  | 130.2 |
| 51       | 35.9  | 27.3  | 40.9  |
| 86       | 62.6  | 50.6  | 76.0  |



#25  
2-Butanone  
Concen: 0.276 ug/l  
RT: 4.64 min Scan# 583  
Delta R.T. 0.01 min  
Lab File: VX019350.D  
Acq: 06 Nov 2020 18:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 558   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 24.6  | 36.8# |





#31

Cyclohexane

Concen: 1.316 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

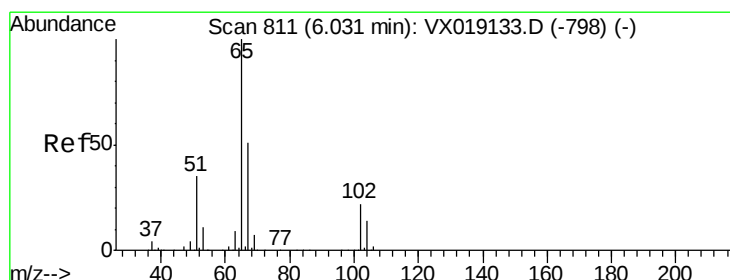
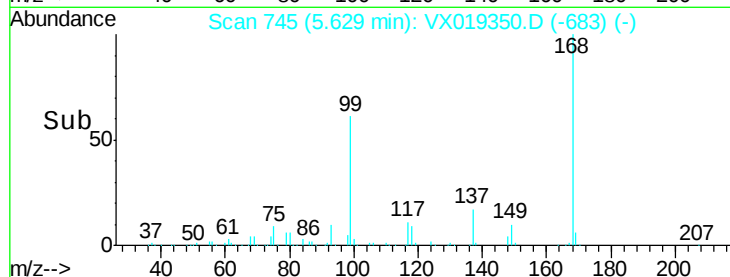
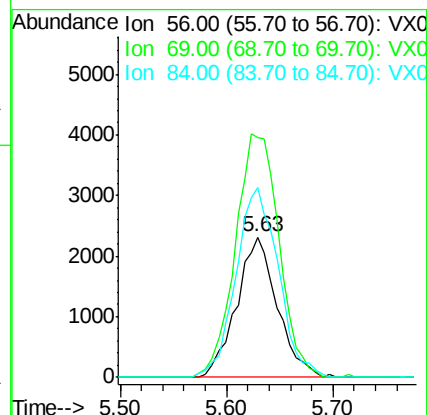
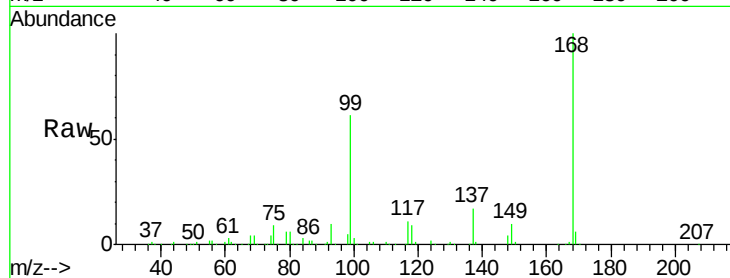
Tot Ion: 56 Resp: 6194

Ion Ratio Lower Upper

56 100

69 171.3 25.9 38.9#

84 135.7 73.4 110.2#



#33

1,2-Dichloroethane-d4

Concen: 54.819 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019350.D

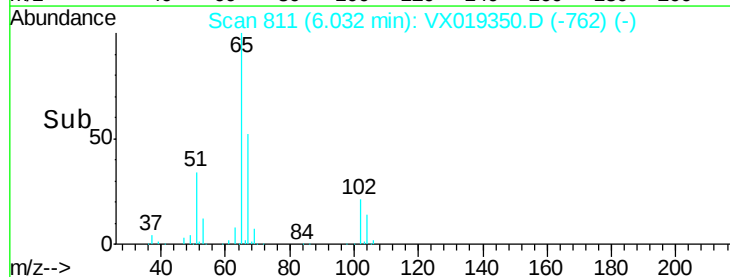
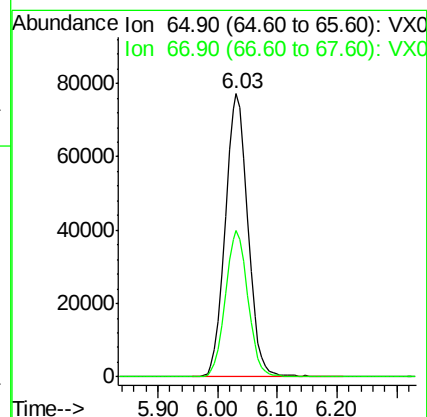
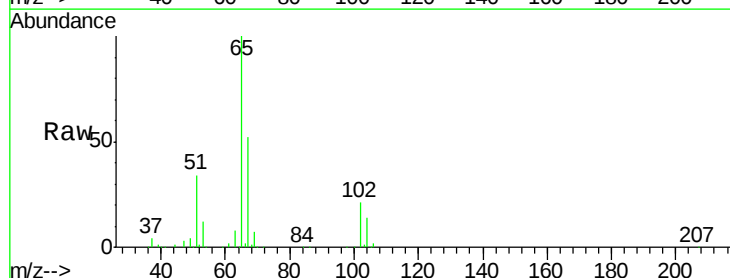
Acq: 06 Nov 2020 18:20

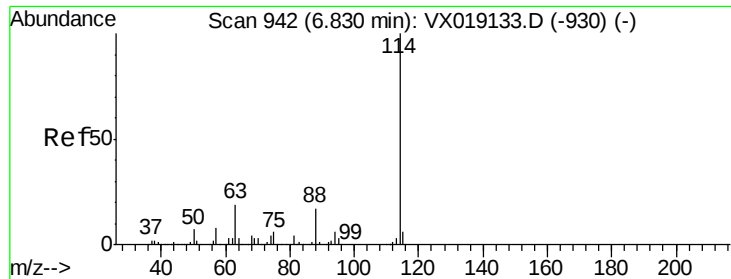
Tgt Ion: 65 Resp: 204069

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

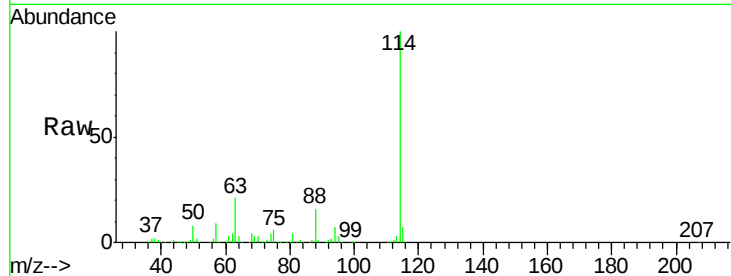
Tot Ion:114 Resp: 502392

Ion Ratio Lower Upper

114 100

63 20.9 0.0 38.8

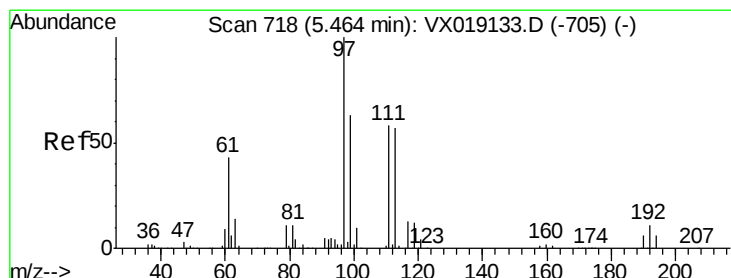
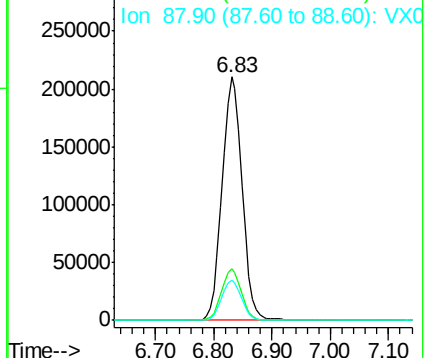
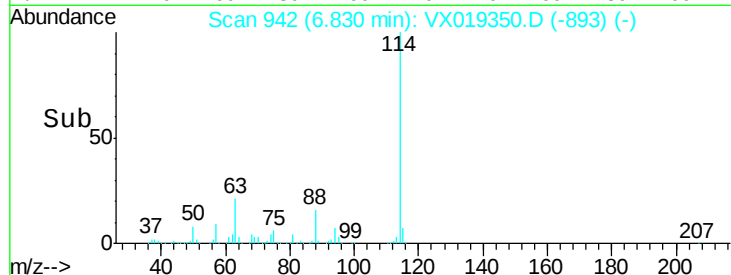
88 16.5 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.822 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

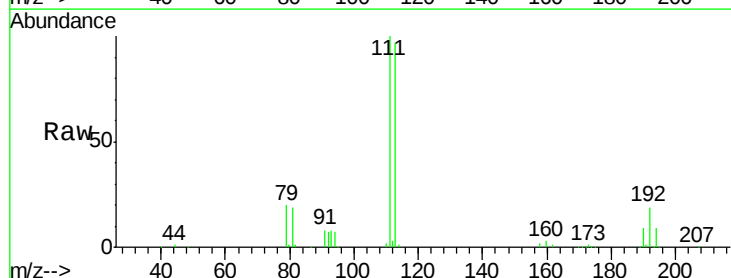
Tgt Ion:113 Resp: 157225

Ion Ratio Lower Upper

113 100

111 103.1 82.3 123.5

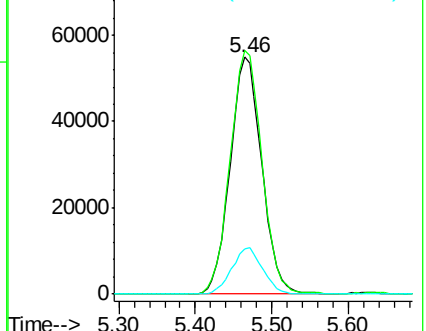
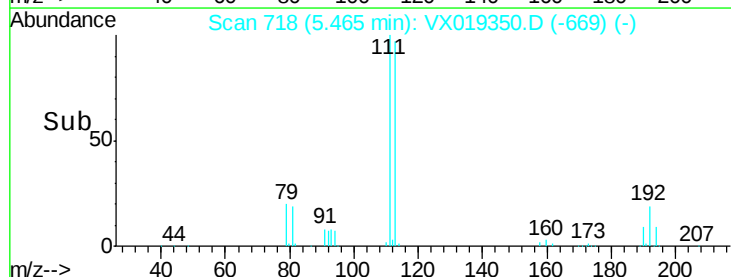
192 19.3 16.2 24.2

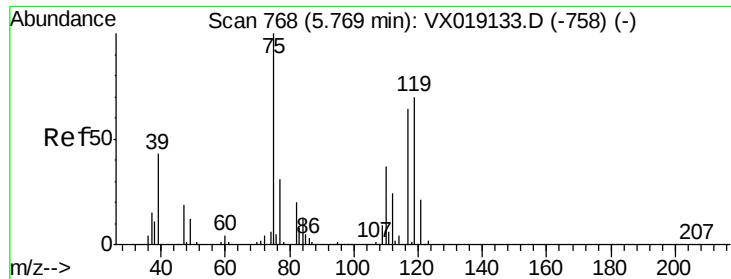


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.126 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

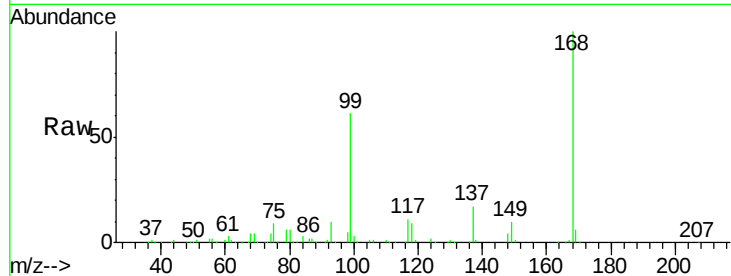
Tot Ion: 75 Resp: 23782

Ion Ratio Lower Upper

75 100

110 9.2 18.3 54.9#

77 0.0 24.9 37.3#

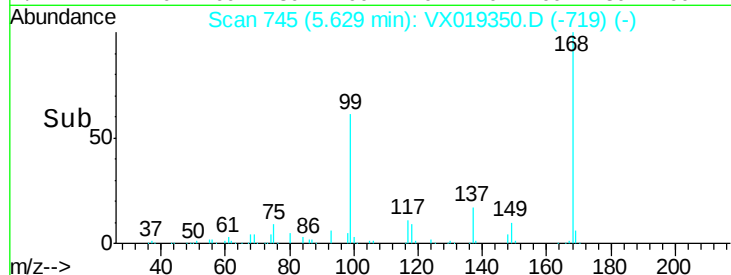


Abundance Ion 74.90 (74.60 to 75.60): VX019350.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX019350.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX019350.D (-719) (-)

Time-->



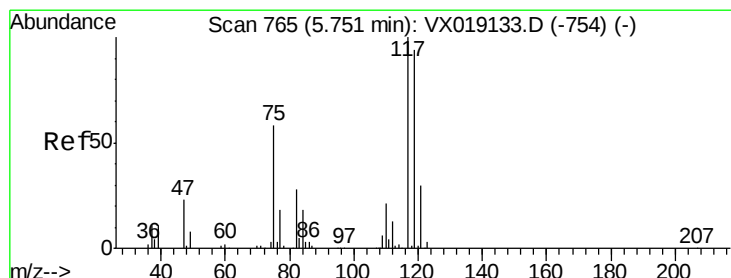
Abundance

Ion 74.90 (74.60 to 75.60): VX019350.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX019350.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX019350.D (-719) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.351 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

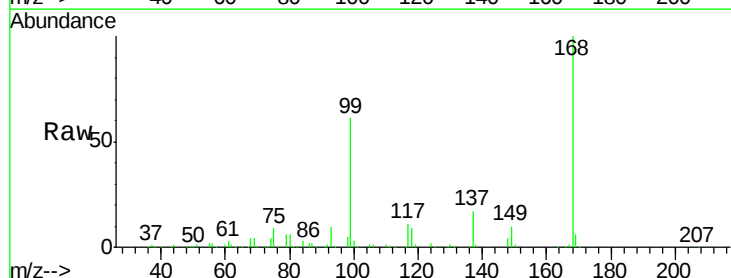
Tgt Ion: 117 Resp: 30031

Ion Ratio Lower Upper

117 100

119 5.2 75.0 112.6#

121 0.0 23.9 35.9#

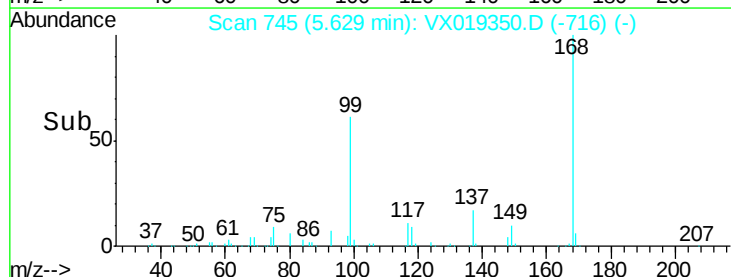


Abundance Ion 116.80 (116.50 to 117.50): VX019350.D (-716) (-)

Ion 118.80 (118.50 to 119.50): VX019350.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX019350.D (-716) (-)

Time-->



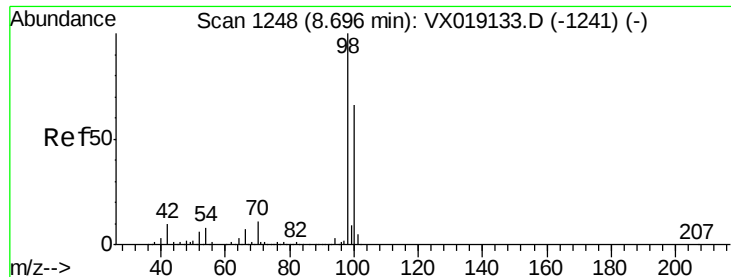
Abundance

Ion 116.80 (116.50 to 117.50): VX019350.D (-716) (-)

Ion 118.80 (118.50 to 119.50): VX019350.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX019350.D (-716) (-)

Time-->



#50

Toluene-d8

Concen: 52.179 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

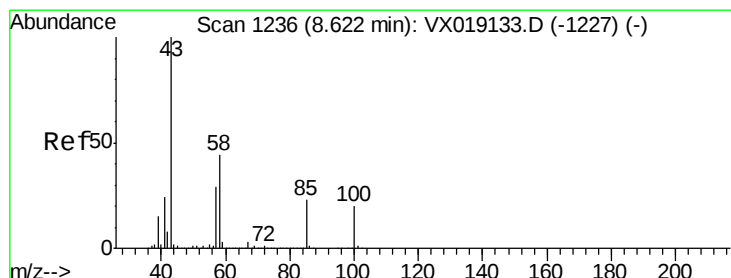
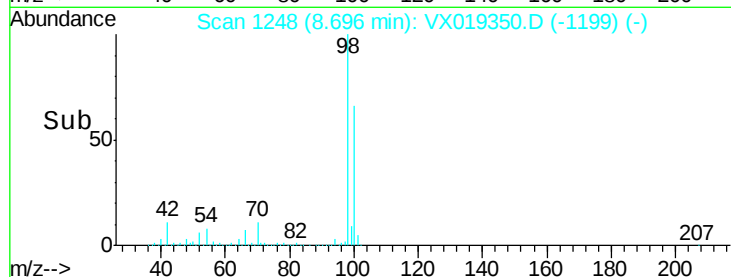
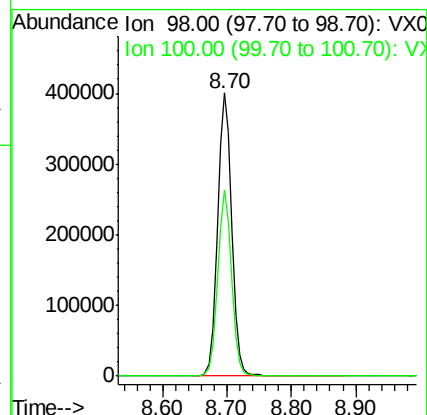
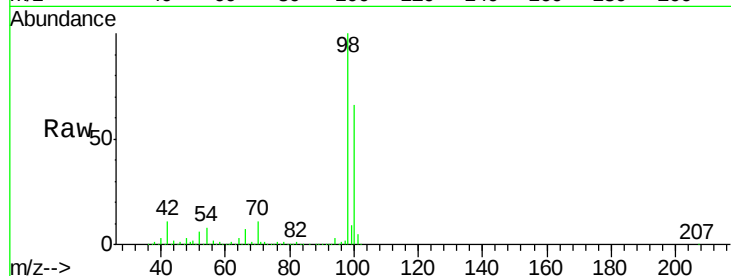
STORAGE-BLANK-WATER-REF-5

Tot Ion: 98 Resp: 620718

Ion Ratio Lower Upper

98 100

100 64.8 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 0.717 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX019350.D

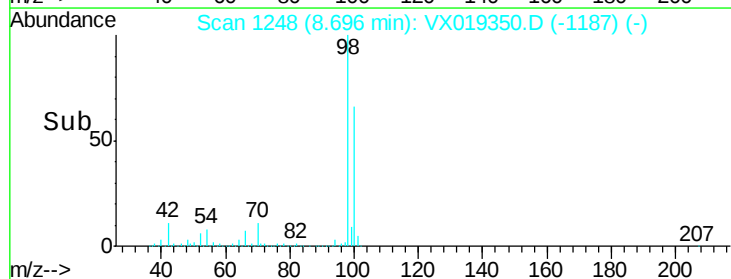
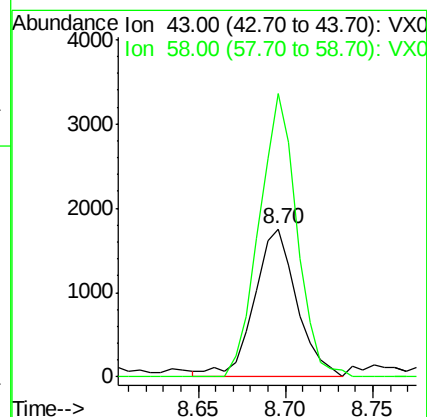
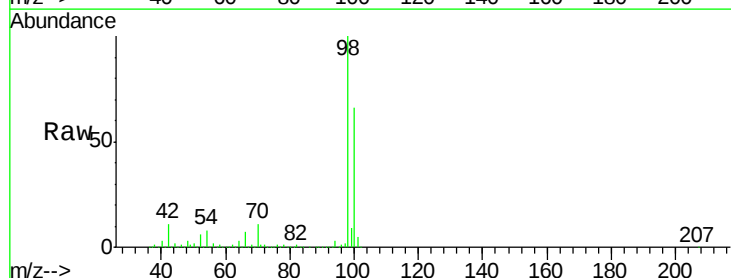
Acq: 06 Nov 2020 18:20

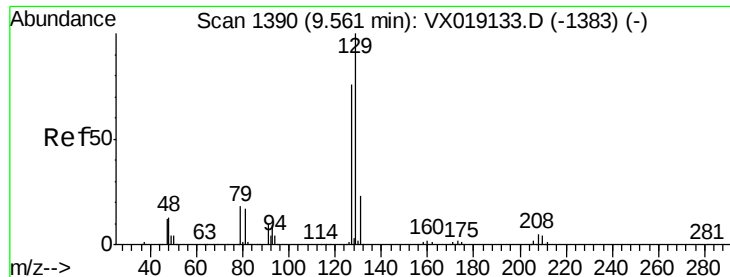
Tgt Ion: 43 Resp: 2973

Ion Ratio Lower Upper

43 100

58 169.0 35.0 52.4#





#60

Dibromochloromethane

Concen: 0.641 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

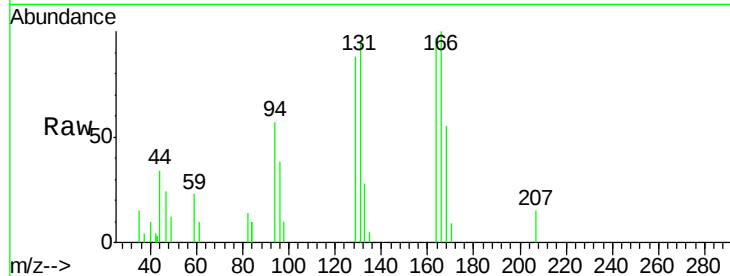
STORAGE-BLANK-WATER-REF-5

Tot Ion:129 Resp: 2329

Ion Ratio Lower Upper

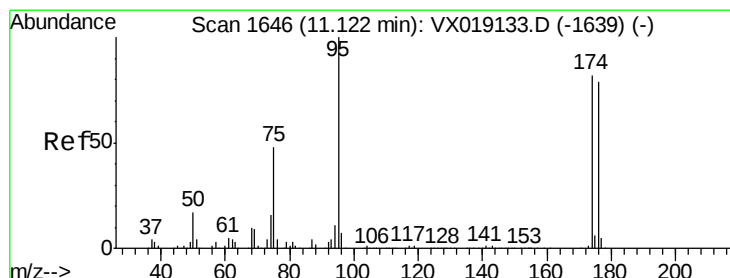
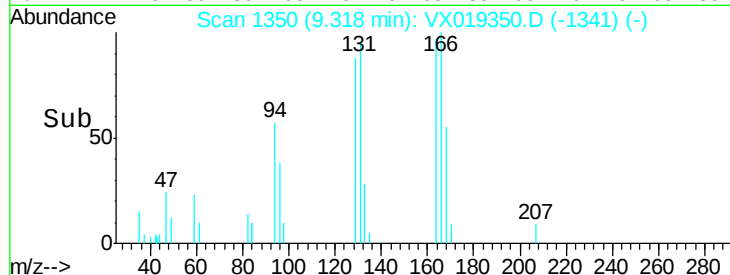
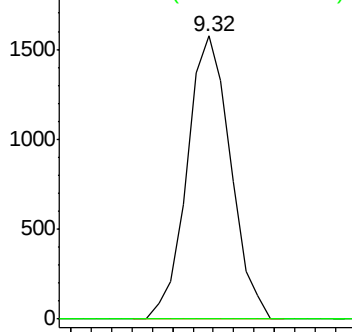
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 53.262 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

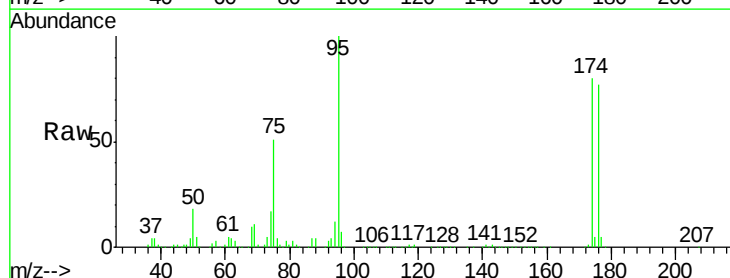
Tgt Ion: 95 Resp: 239948

Ion Ratio Lower Upper

95 100

174 75.0 0.0 156.0

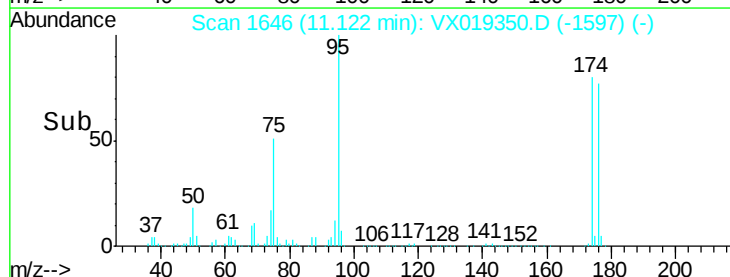
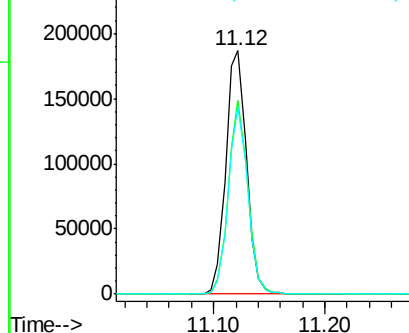
176 72.5 0.0 149.8

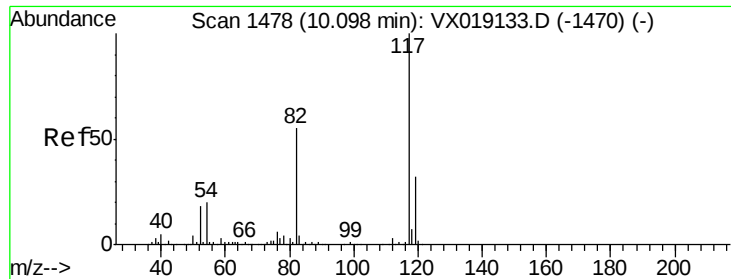


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

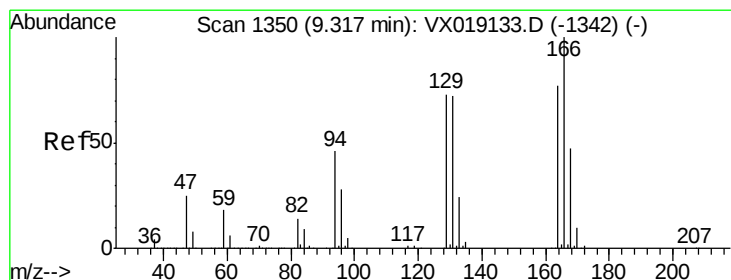
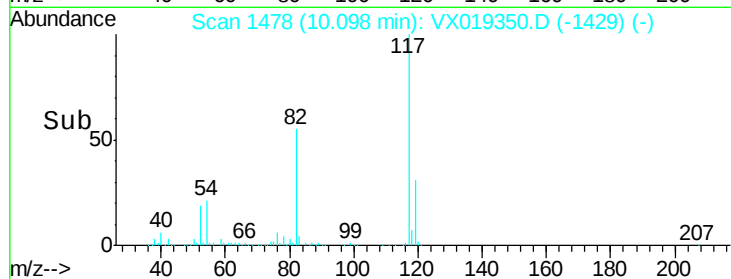
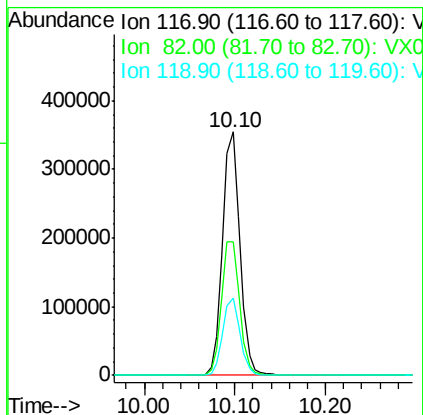
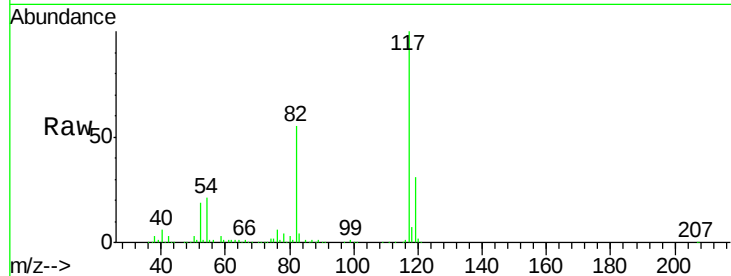




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX019350.D  
Acq: 06 Nov 2020 18:20

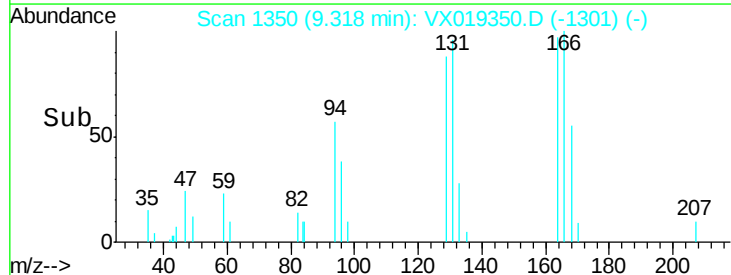
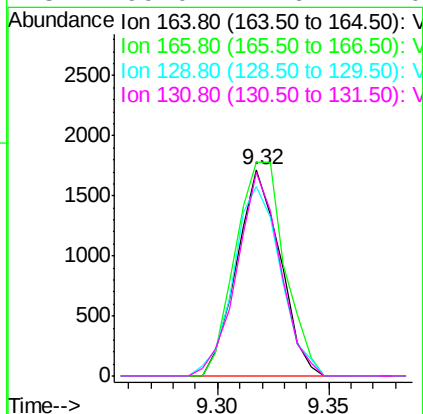
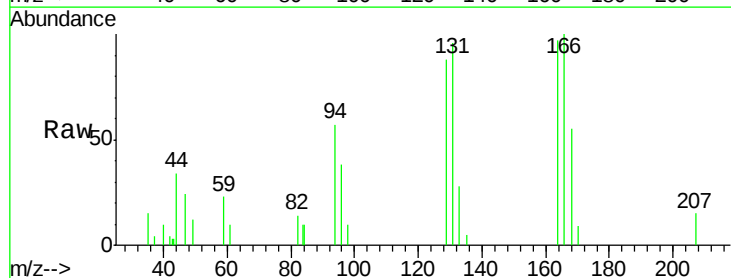
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

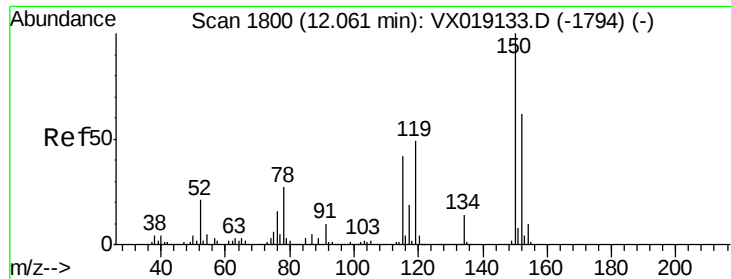
Tot Ion:117 Resp: 476400  
Ion Ratio Lower Upper  
117 100  
82 55.0 43.6 65.4  
119 31.5 25.5 38.3



#64  
Tetrachloroethene  
Concen: 0.644 ug/l  
RT: 9.32 min Scan# 1350  
Delta R.T. 0.00 min  
Lab File: VX019350.D  
Acq: 06 Nov 2020 18:20

Tgt Ion:164 Resp: 2336  
Ion Ratio Lower Upper  
164 100  
166 103.6 104.1 156.1#  
129 91.6 76.2 114.4  
131 99.0 74.6 112.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019350.D

Acq: 06 Nov 2020 18:20

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

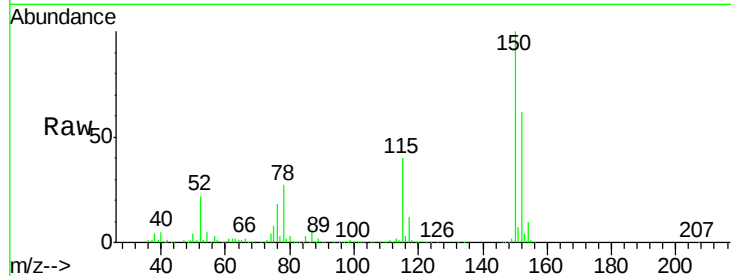
Tot Ion:152 Resp: 237423

Ion Ratio Lower Upper

152 100

115 62.1 41.9 125.7

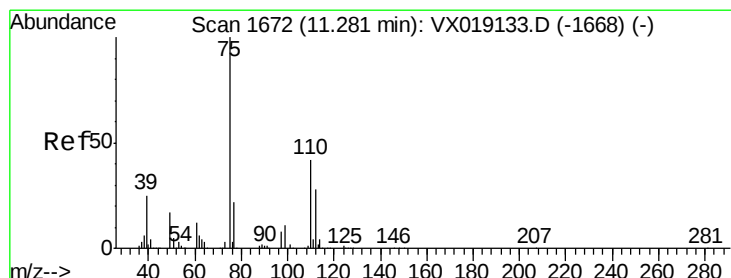
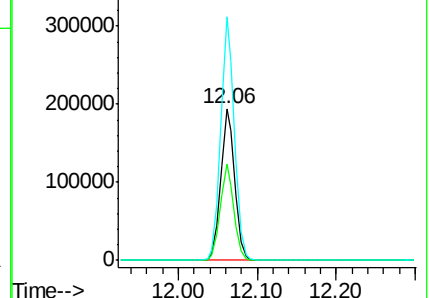
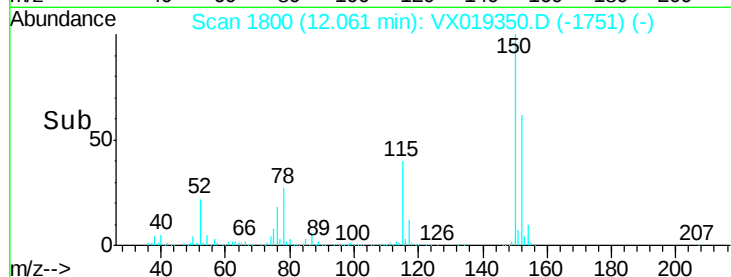
150 158.6 0.0 347.8



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: 25.219 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019350.D

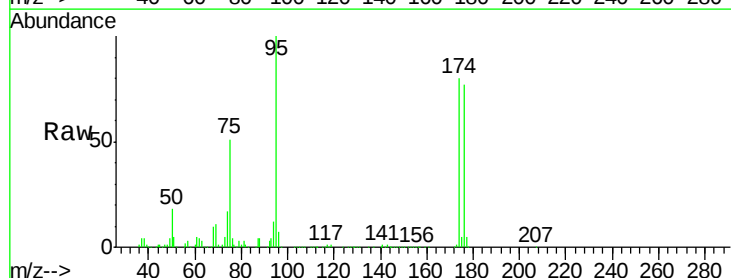
Acq: 06 Nov 2020 18:20

Tgt Ion: 75 Resp: 123633

Ion Ratio Lower Upper

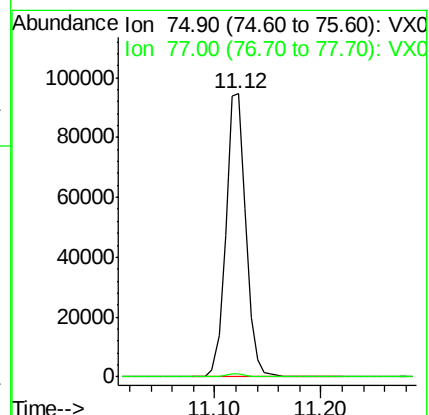
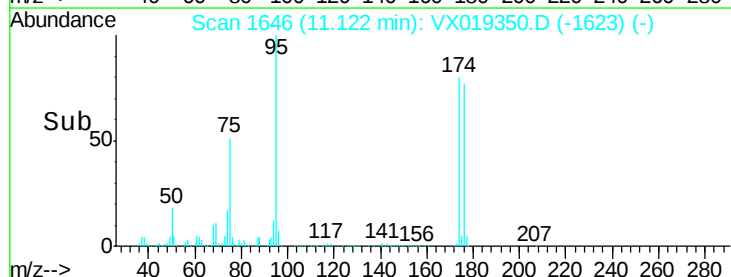
75 100

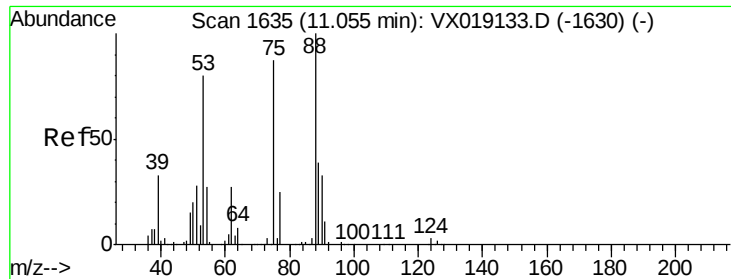
77 1.2 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.403 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. 0.07 min  
 Lab File: VX019350.D  
 Acq: 06 Nov 2020 18:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Tot Ion: 75 Resp: 123633  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.3 109.9#  
 89 0.0 38.2 57.2#

