

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052020\  
 Data File : VX016355.D  
 Acq On : 20 May 2020 13:12  
 Operator : JC/SP  
 Sample : L2684-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 21 03:51:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 251756   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 412728   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 396889   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 196750   | 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   | 144228   | 43.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.08%  |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 116681   | 44.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.24%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 505340   | 50.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.32% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 197274   | 51.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.96% |          |

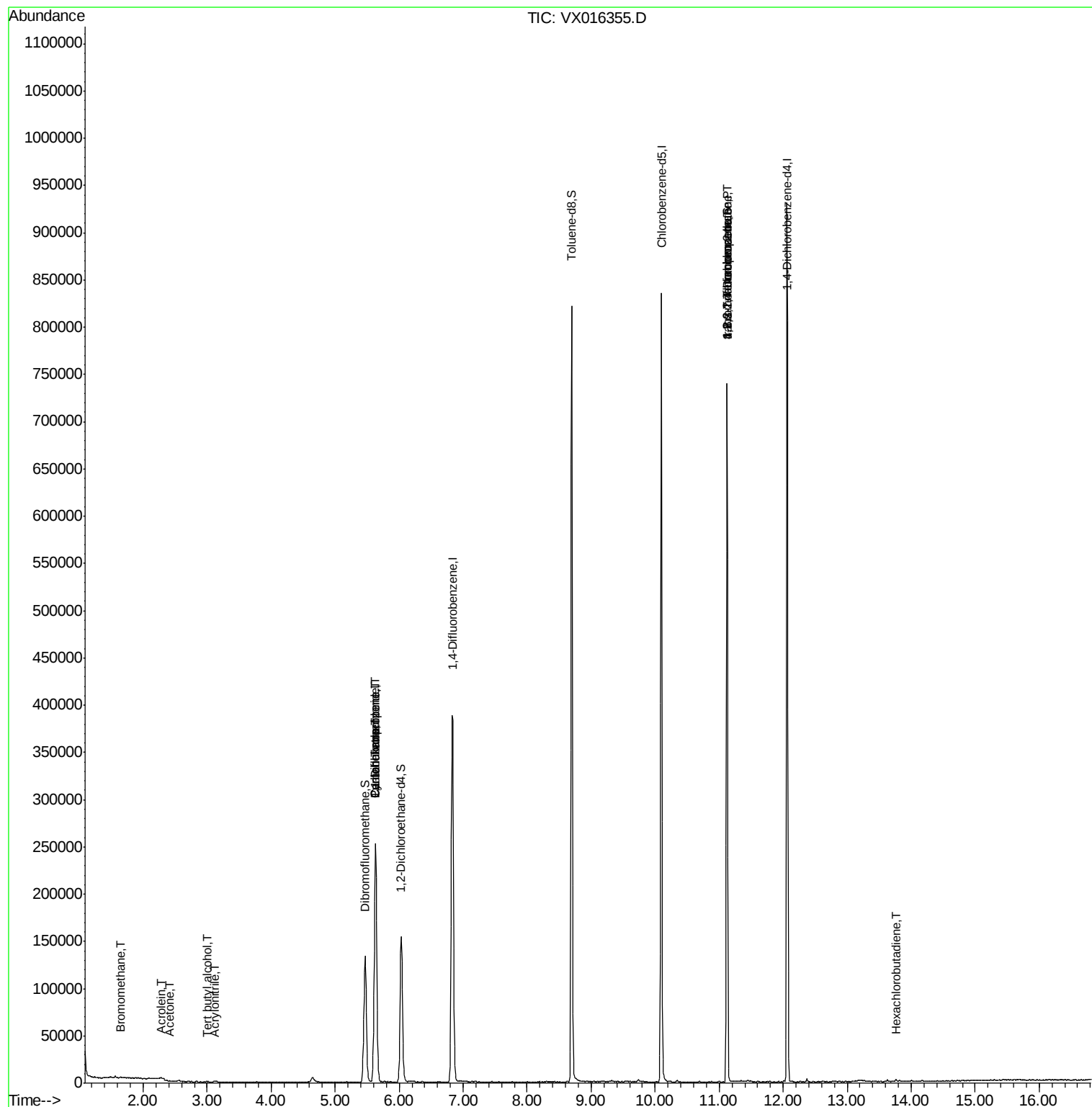
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 491      | 0.295     | ug/l # | 70     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 195      | 0.233     | ug/l # | 69     |
| 13) Acrolein                   | 2.27  | 56   | 458      | 0.874     | ug/l # | 49     |
| 15) Acrylonitrile              | 3.12  | 53   | 496      | 0.285     | ug/l # | 72     |
| 16) Acetone                    | 2.41  | 43   | 444      | 0.300     | ug/l # | 43     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1541     | Below Cal | #      | 78     |
| 31) Cyclohexane                | 5.63  | 56   | 4574     | 0.994     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 18197    | 4.479     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 23601    | 5.715     | ug/l # | 14     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.12 | 83   | 84       | 2.080     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 94033    | 21.061    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 94033    | 50.191    | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 448      | 0.741     | ug/l   | 90     |

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

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QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

Instrument :

MSVOA\_X

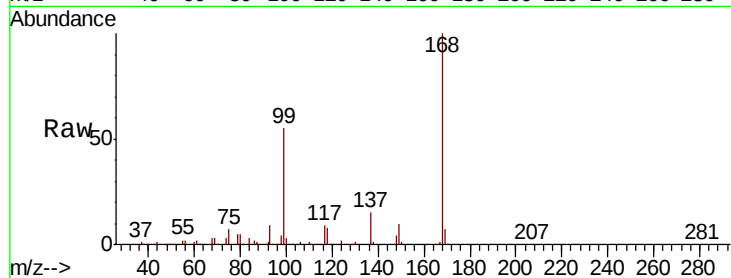
ClientSampled :

Tot Ion:168 Resp: 251756

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

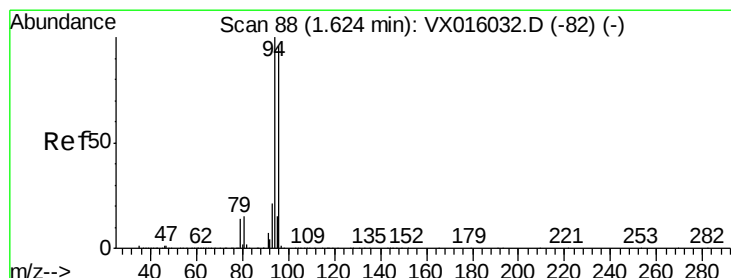
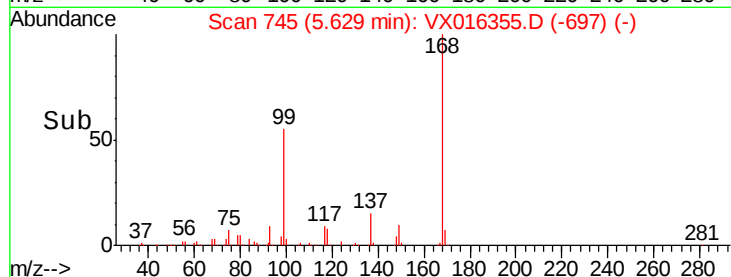
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.295 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016355.D

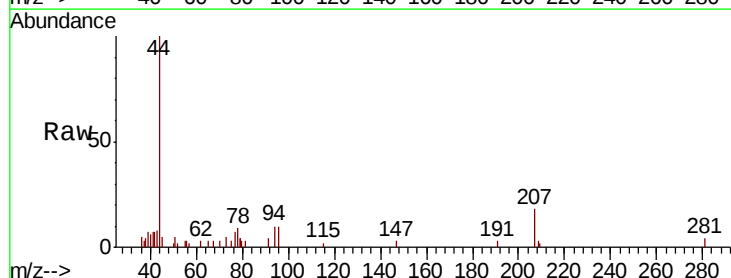
Acq: 20 May 2020 13:12

Tgt Ion: 94 Resp: 491

Ion Ratio Lower Upper

94 100

96 66.7 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

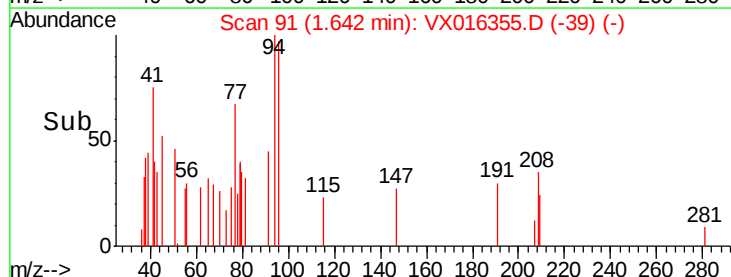
150

100

50

0

Time-->



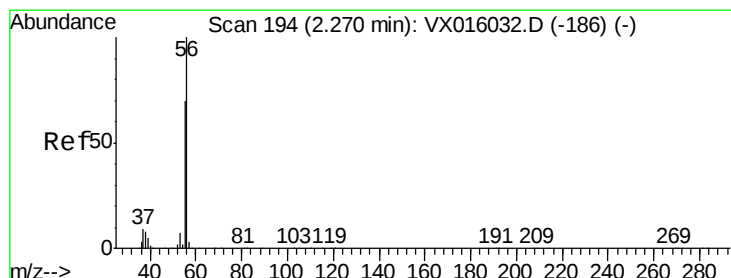
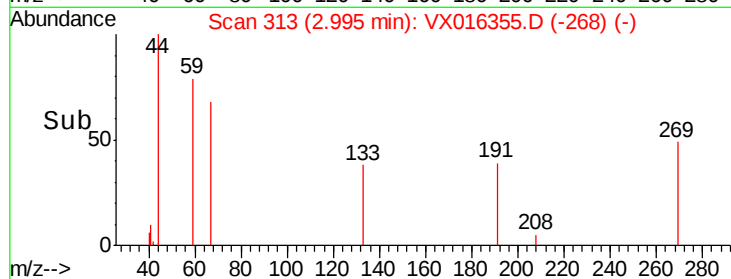
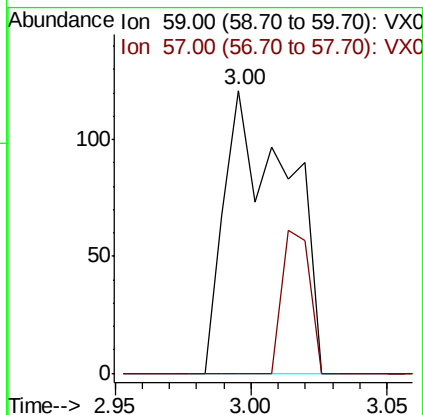
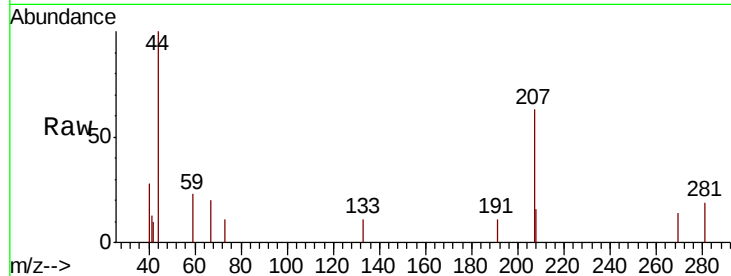


#11

Tert butyl alcohol  
 Concen: 0.233 ug/l  
 RT: 3.00 min Scan# 313  
 Delta R.T. -0.02 min  
 Lab File: VX016355.D  
 Acq: 20 May 2020 13:12

Instrument :  
 MSVOA\_X  
 ClientSampled :

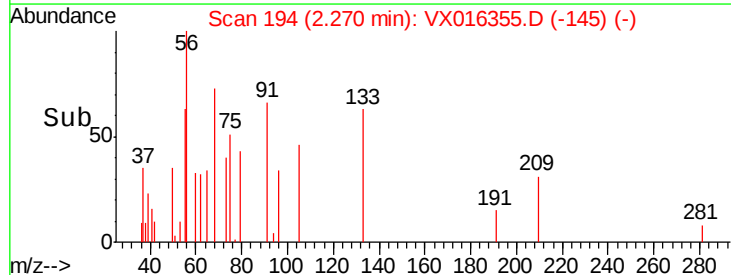
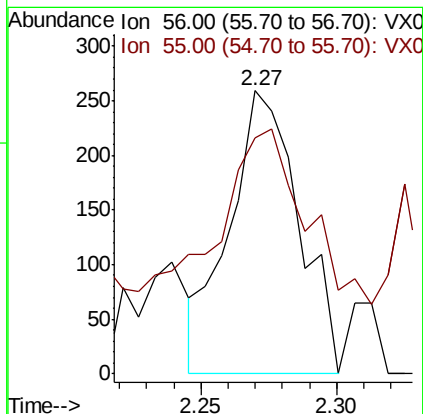
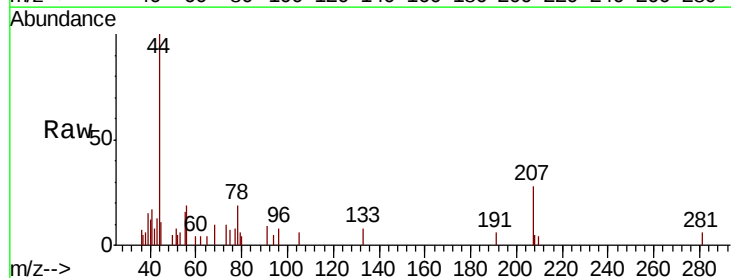
Tot Ion: 59 Resp: 195  
 Ion Ratio Lower Upper  
 59 100  
 57 22.1 8.2 12.4#

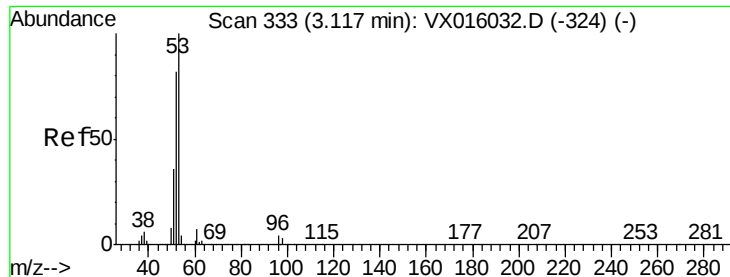


#13

Acrolein  
 Concen: 0.874 ug/l  
 RT: 2.27 min Scan# 194  
 Delta R.T. -0.00 min  
 Lab File: VX016355.D  
 Acq: 20 May 2020 13:12

Tgt Ion: 56 Resp: 458  
 Ion Ratio Lower Upper  
 56 100  
 55 112.4 56.5 84.7#





#15

Acrylonitrile

Concen: 0.285 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

Instrument :

MSVOA\_X

ClientSampleId :

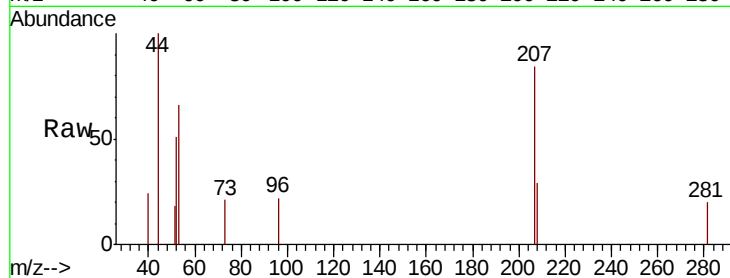
Tot Ion: 53 Resp: 496

Ion Ratio Lower Upper

53 100

52 61.3 66.1 99.1#

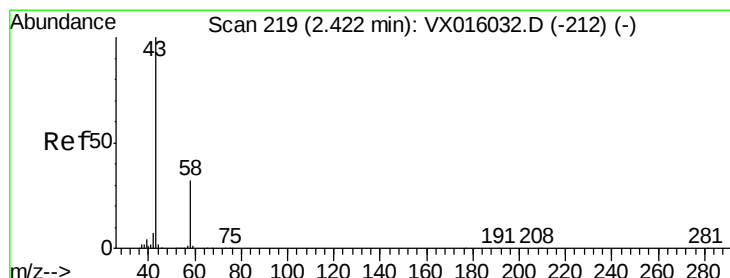
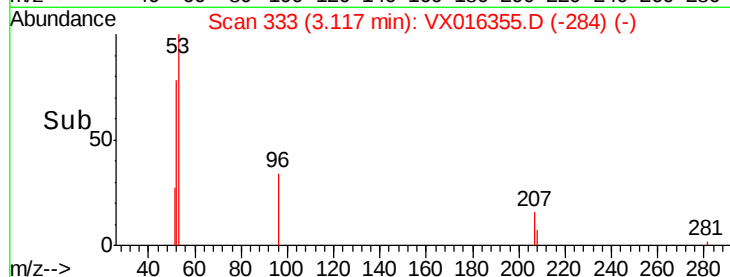
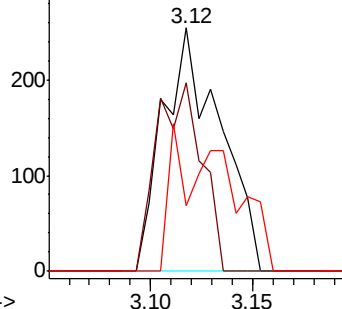
51 58.1 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.300 ug/l

RT: 2.41 min Scan# 217

Delta R.T. -0.01 min

Lab File: VX016355.D

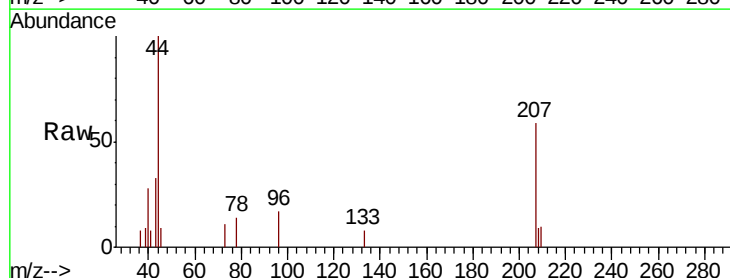
Acq: 20 May 2020 13:12

Tgt Ion: 43 Resp: 444

Ion Ratio Lower Upper

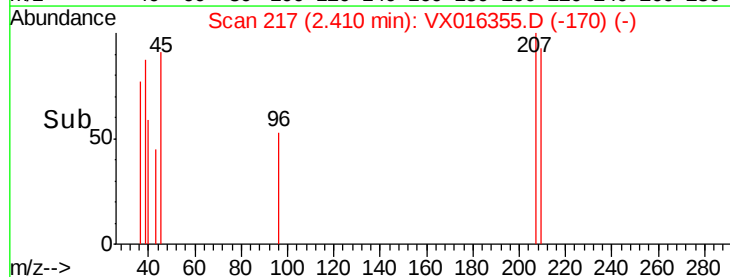
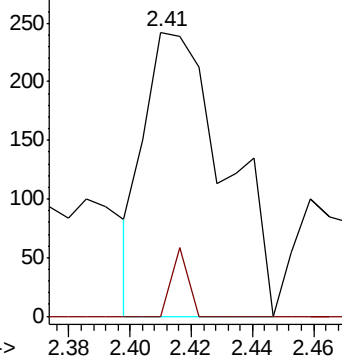
43 100

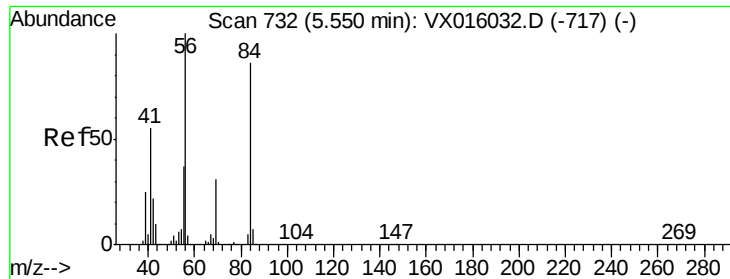
58 0.0 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

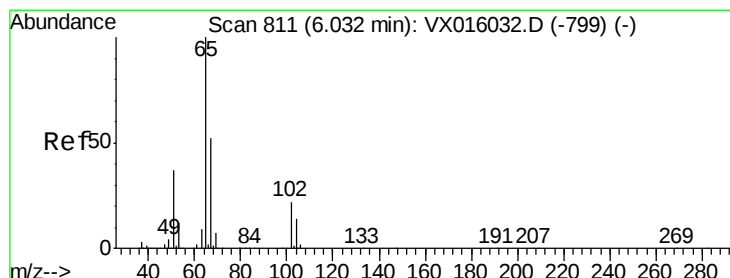
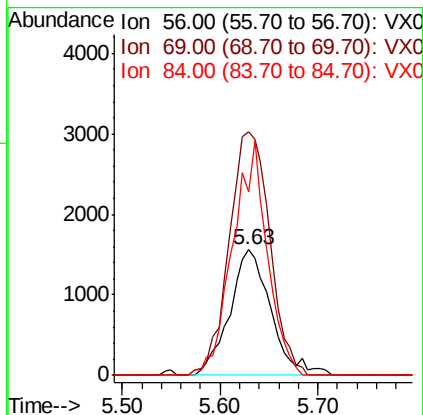
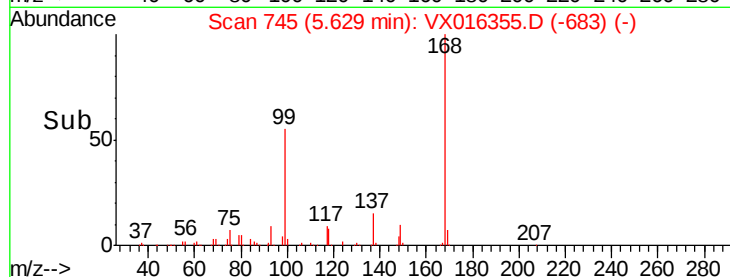
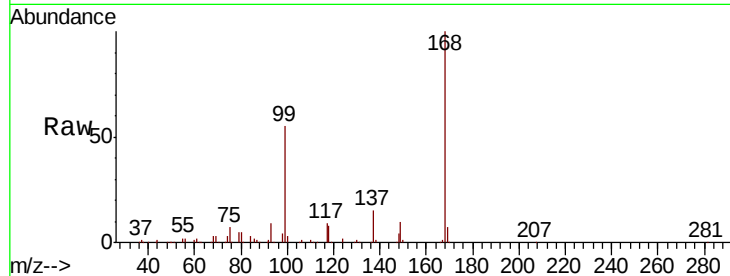




#31  
Cyclohexane  
Concen: 0.994 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

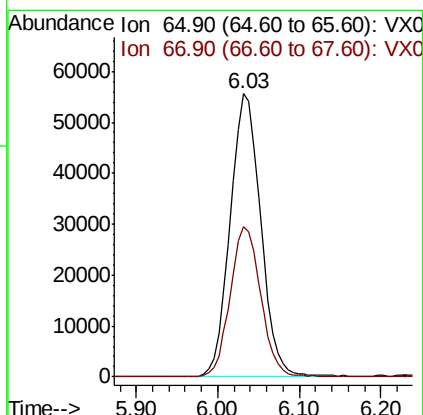
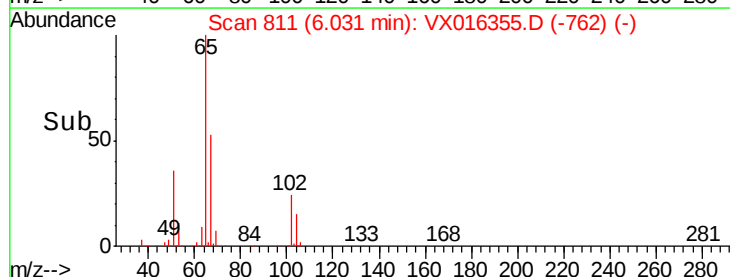
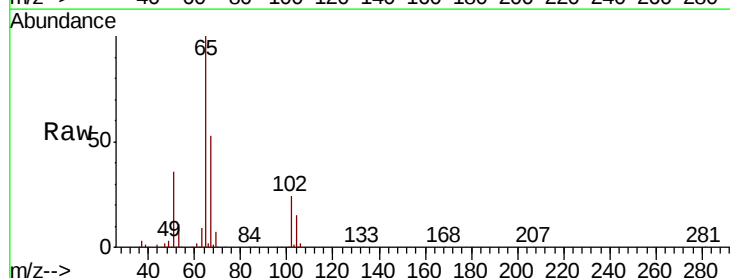
Instrument :  
MSVOA\_X  
ClientSampleId :

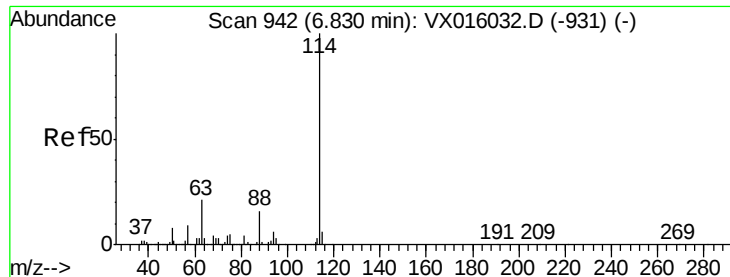
Tot Ion: 56 Resp: 4574  
Ion Ratio Lower Upper  
56 100  
69 193.9 25.0 37.6#  
84 146.0 69.0 103.6#



#33  
1,2-Dichloroethane-d4  
Concen: 43.536 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

Tgt Ion: 65 Resp: 144228  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

Instrument :

MSVOA\_X

ClientSampleId :

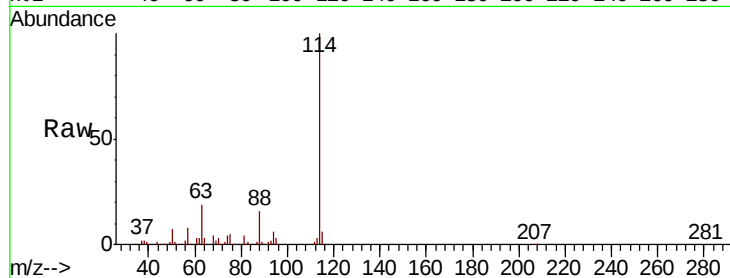
Tot Ion:114 Resp: 412728

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.8

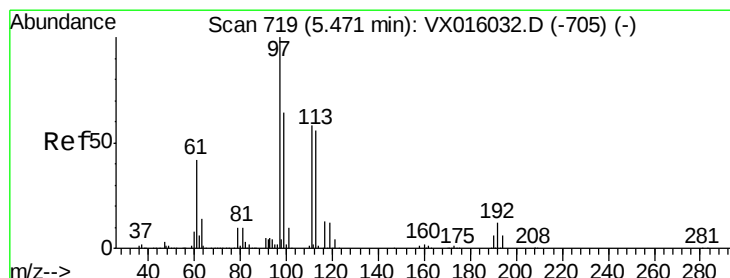
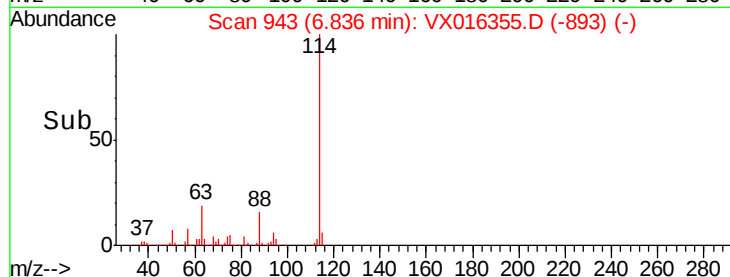
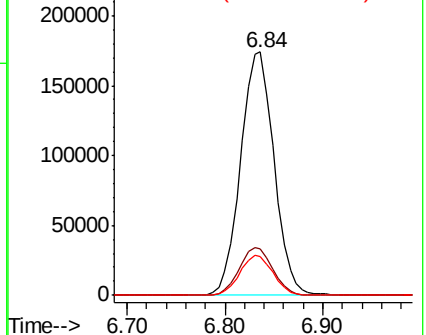
88 16.0 0.0 31.4



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: 44.623 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

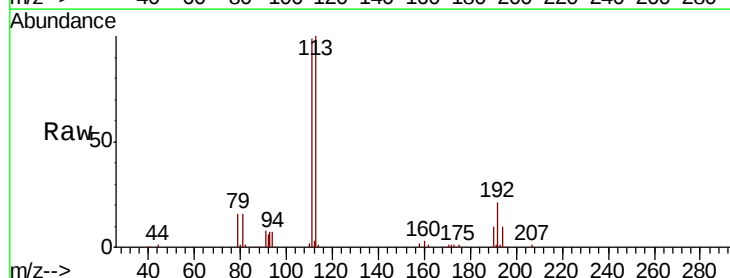
Tgt Ion:113 Resp: 116681

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

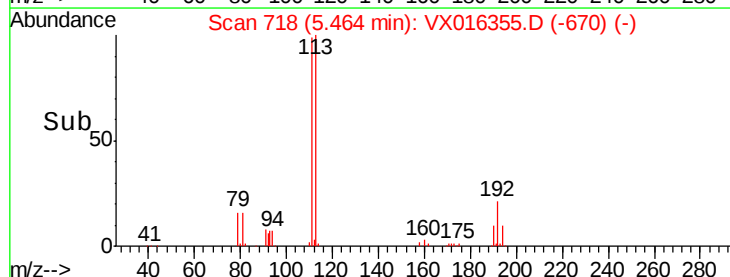
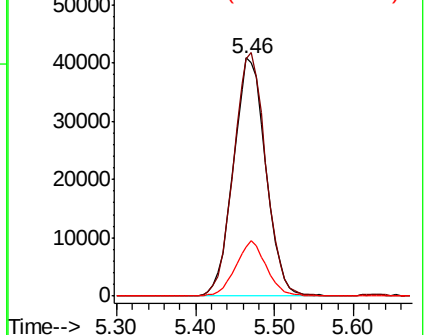
192 21.9 17.0 25.4

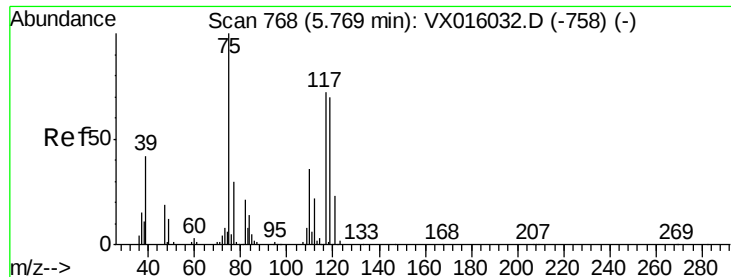


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.479 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

Instrument :

MSVOA\_X

ClientSampleId :

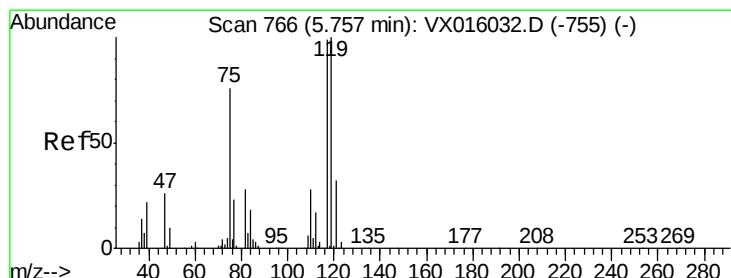
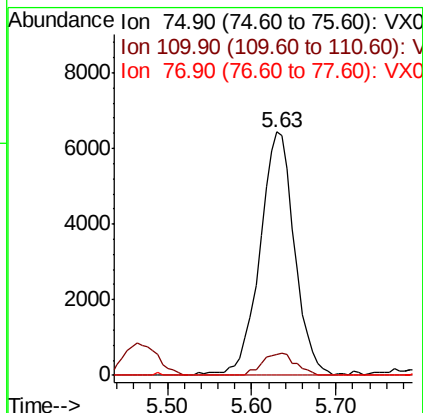
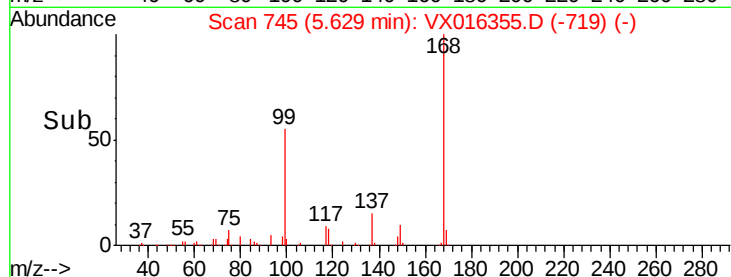
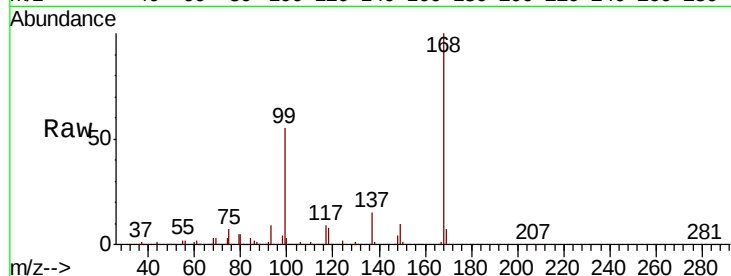
Tot Ion: 75 Resp: 18197

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.715 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

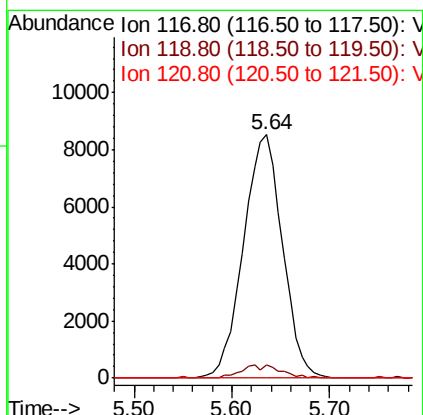
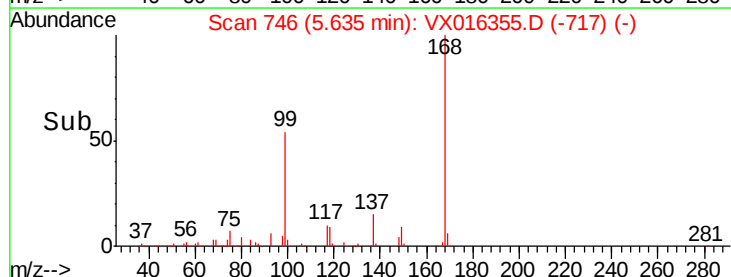
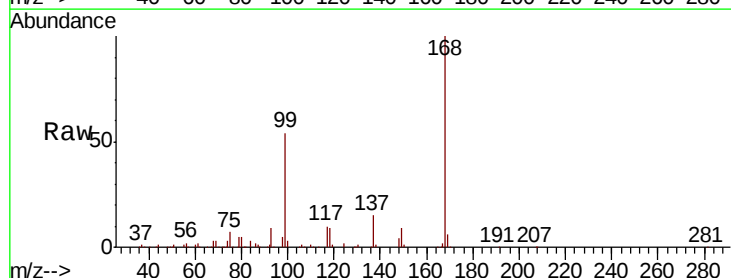
Tgt Ion: 117 Resp: 23601

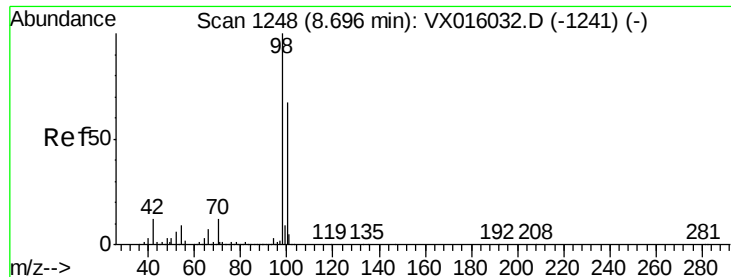
Ion Ratio Lower Upper

117 100

119 5.6 80.3 120.5#

121 0.0 25.7 38.5#

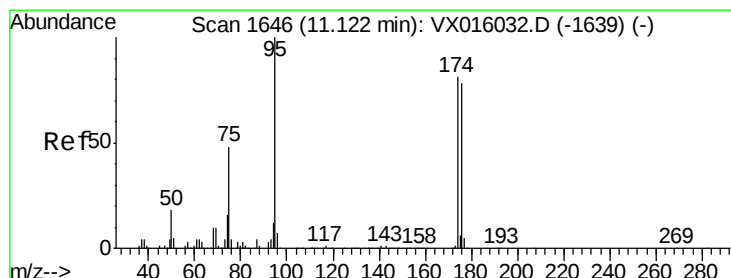
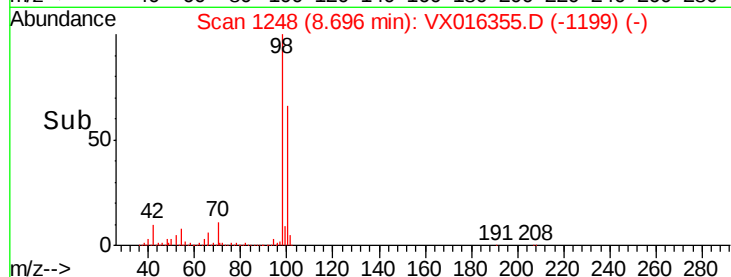
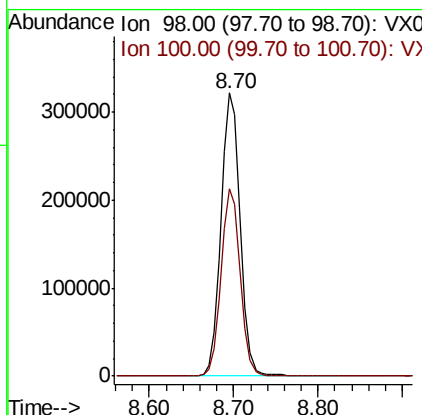
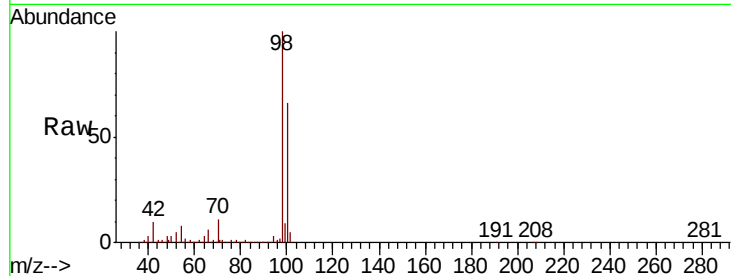




#50  
Toluene-d8  
Concen: 50.158 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

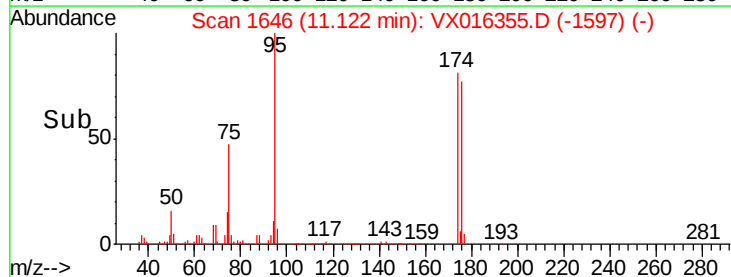
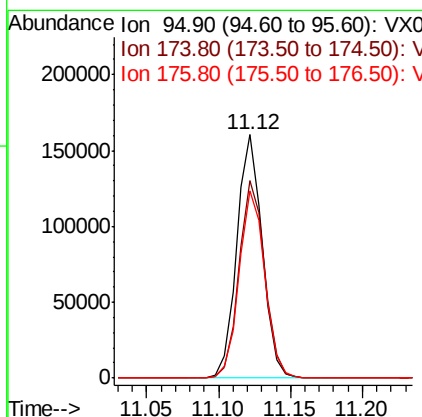
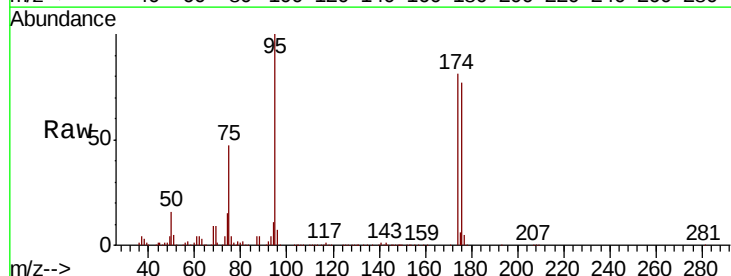
Instrument :  
MSVOA\_X  
ClientSampleId :

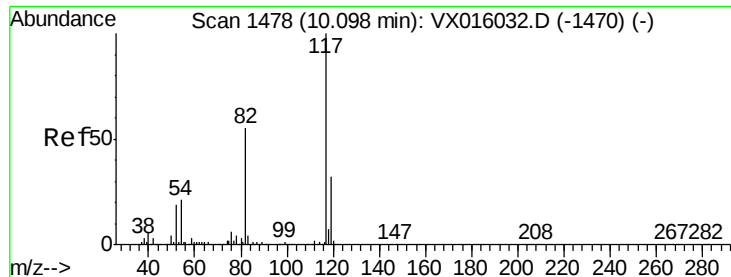
Tot Ion: 98 Resp: 505340  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.7 80.5



#62  
4-Bromofluorobenzene  
Concen: 51.480 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

Tgt Ion: 95 Resp: 197274  
Ion Ratio Lower Upper  
95 100  
174 81.8 0.0 159.4  
176 77.8 0.0 157.6

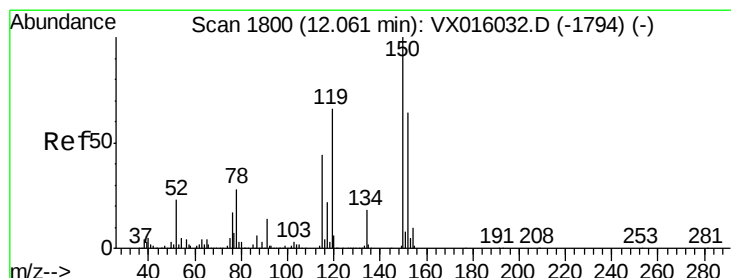
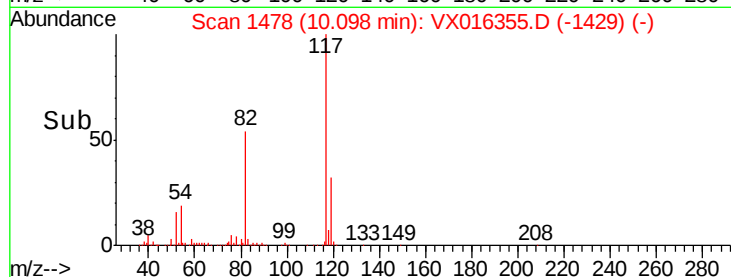
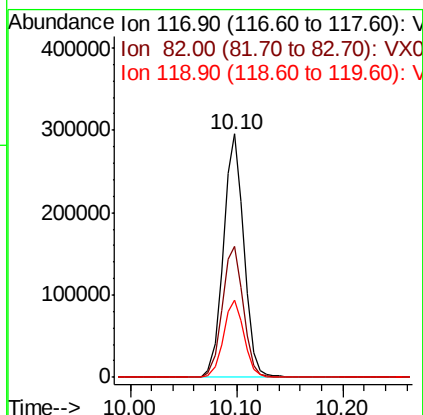
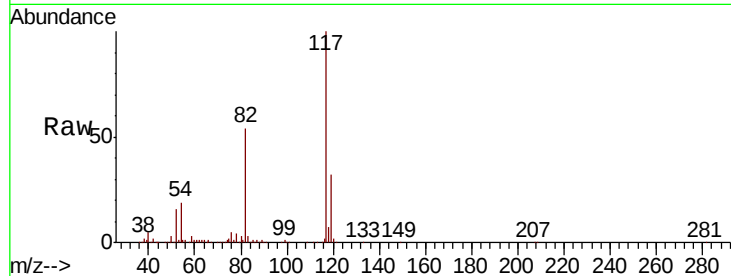




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

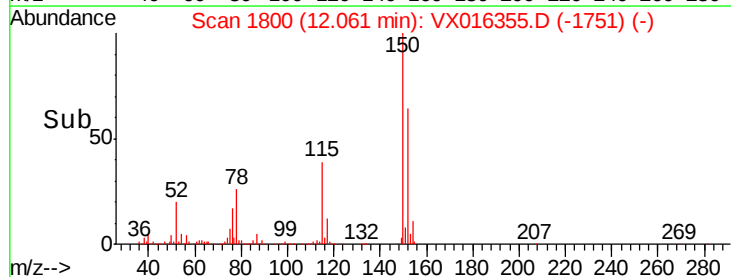
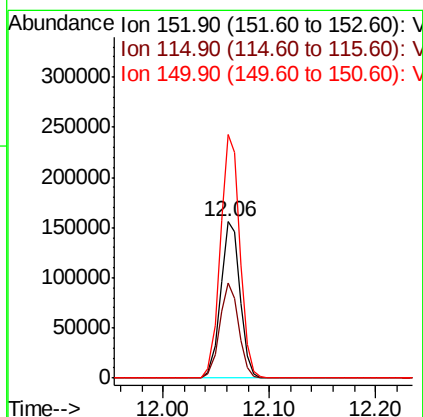
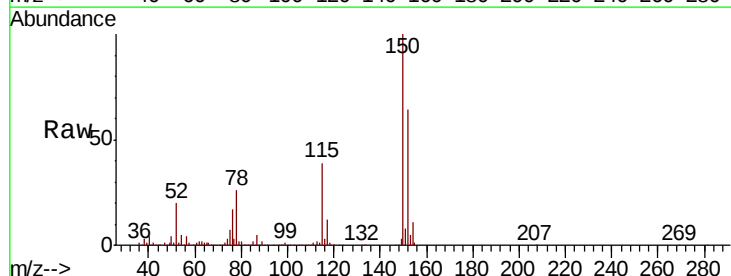
Instrument :  
MSVOA\_X  
ClientSampleId :

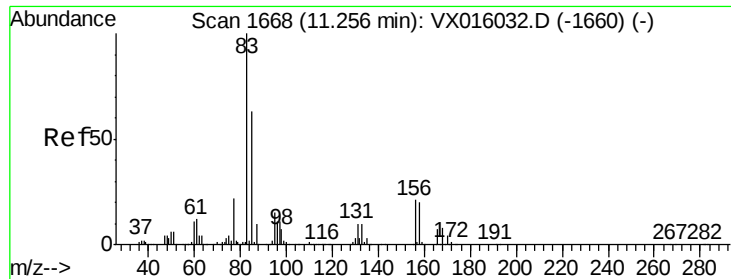
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.7  | 44.4  | 66.6  |
| 119     | 31.6  | 25.5  | 38.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.5  | 41.3  | 124.1 |
| 150     | 156.7 | 0.0   | 352.2 |





#75

1,1,2,2-Tetrachloroethane

Concen: 2.080 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016355.D

Acq: 20 May 2020 13:12

Instrument :

MSVOA\_X

ClientSampleId :

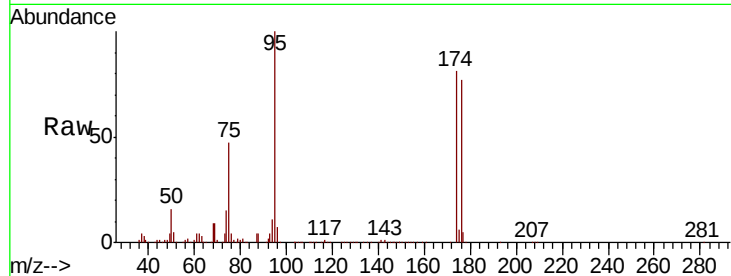
Tot Ion: 83 Resp: 84

Ion Ratio Lower Upper

83 100

131 322.6 5.1 15.4#

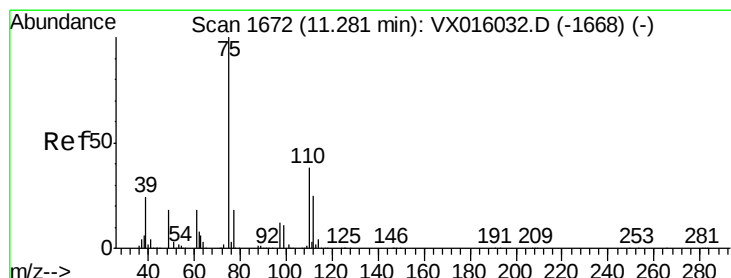
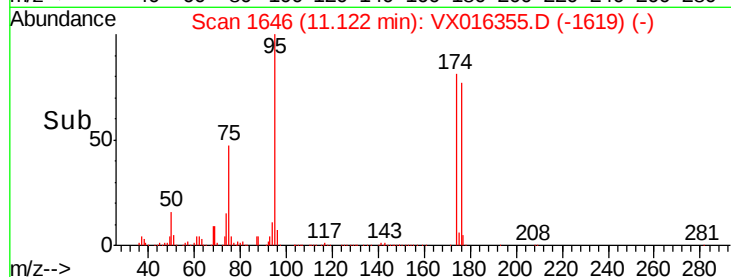
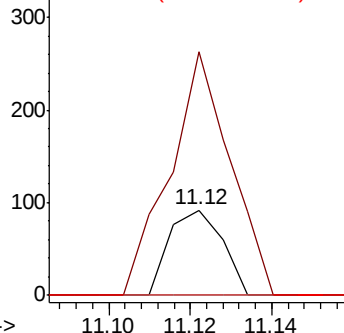
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.061 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016355.D

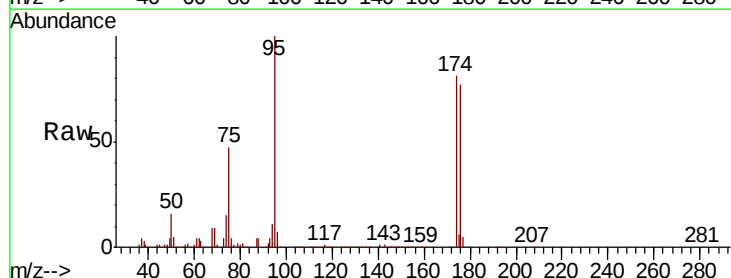
Acq: 20 May 2020 13:12

Tgt Ion: 75 Resp: 94033

Ion Ratio Lower Upper

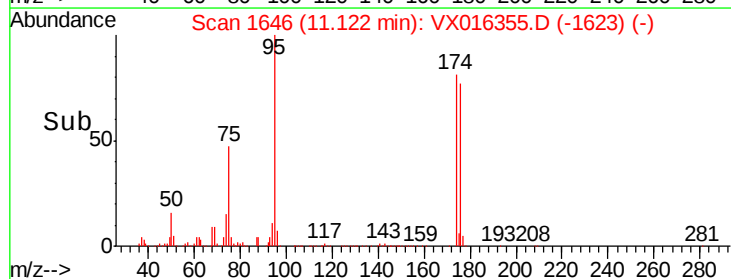
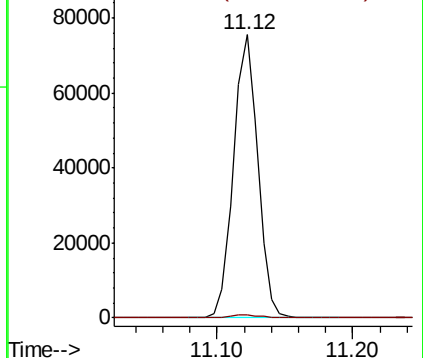
75 100

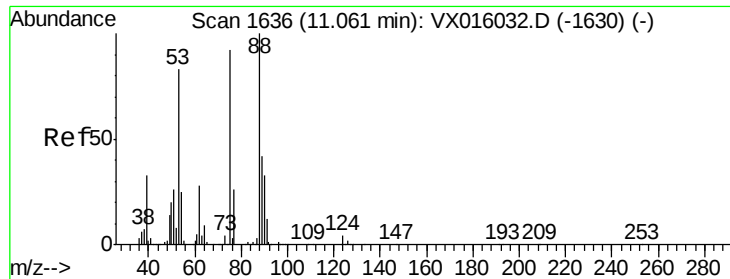
77 1.2 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

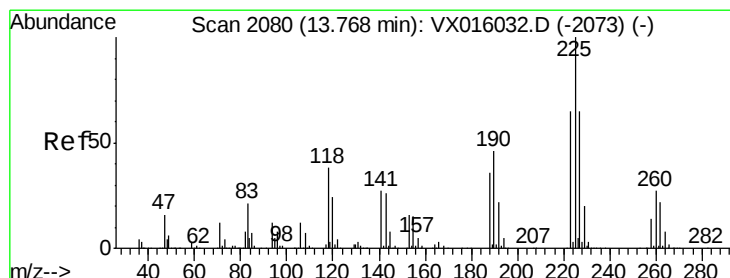
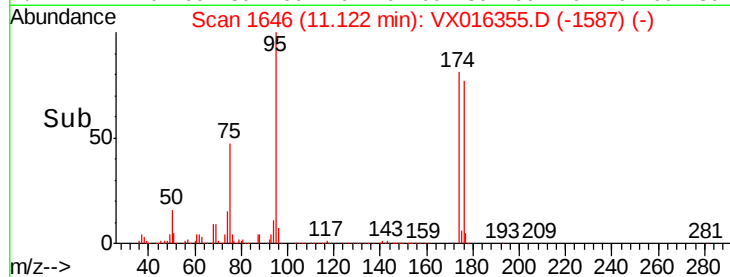
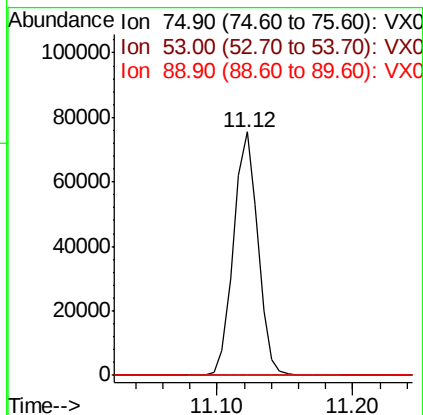
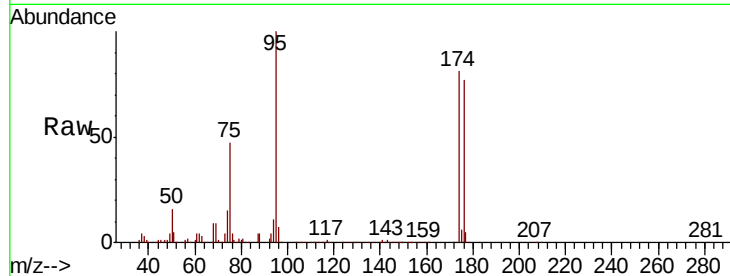




#81  
trans-1,4-Dichloro-2-butene  
Concen: 50.191 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.06 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 75 Resp: 94033  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.1 109.7#  
89 0.0 36.7 55.1#



#94  
Hexachlorobutadiene  
Concen: 0.741 ug/l  
RT: 13.77 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX016355.D  
Acq: 20 May 2020 13:12

Tgt Ion: 225 Resp: 448  
Ion Ratio Lower Upper  
225 100  
223 78.8 32.3 96.9  
227 65.0 31.8 95.4

