

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\  
 Data File : VX016005.D  
 Acq On : 01 May 2020 12:18  
 Operator : JC/SP  
 Sample : VX0501WBL02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 02 06:58:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042820W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 28 17:30:11 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 286801   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 457087   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 432390   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 213245   | 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   | 177773   | 47.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.82%  |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 136502   | 47.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.74%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 557030   | 52.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.50% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 216388   | 51.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.50% |          |

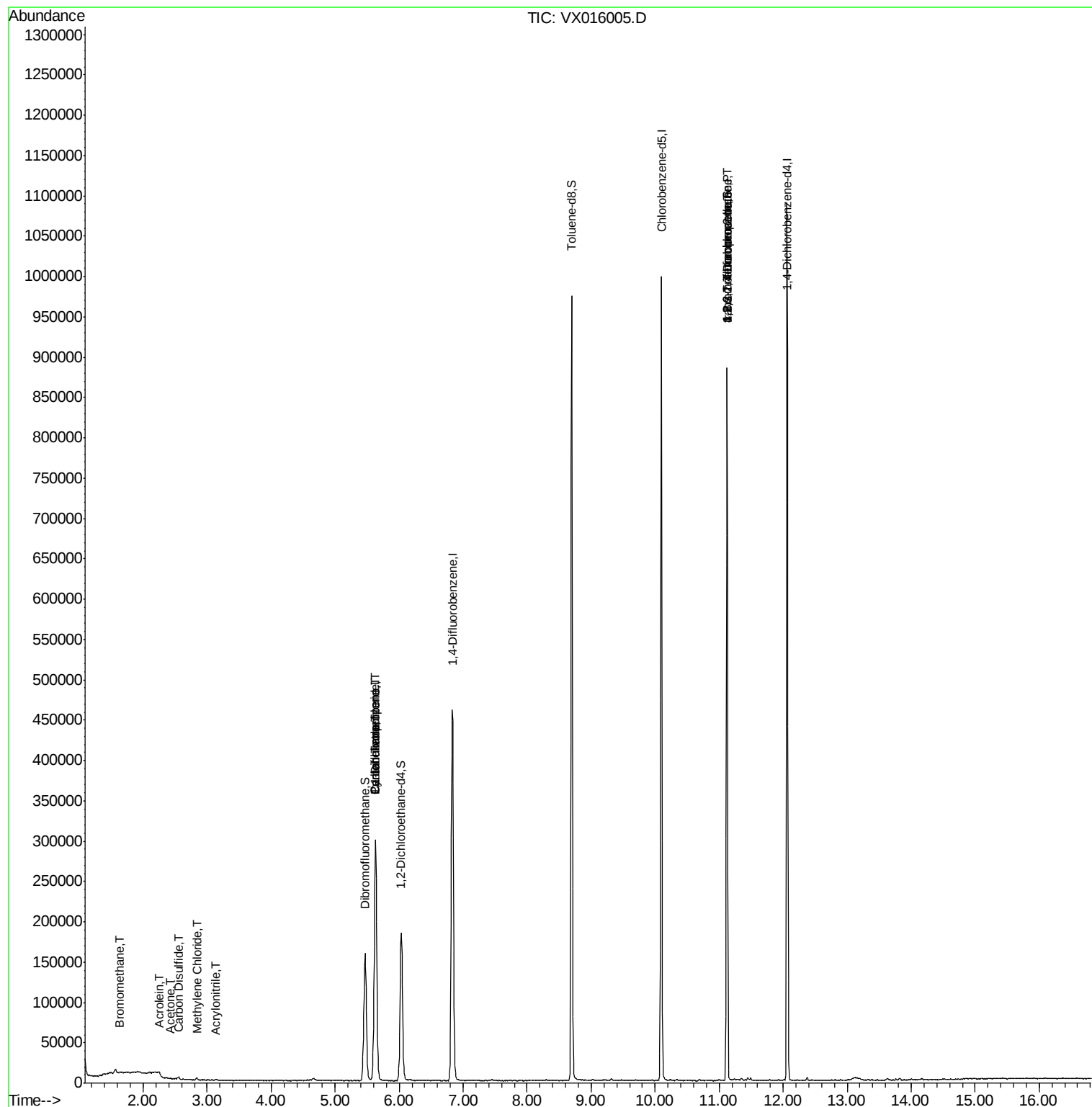
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 544      | 0.229  | ug/l   | 91     |
| 13) Acrolein                   | 2.26  | 56   | 767      | 3.353  | ug/l # | 14     |
| 15) Acrylonitrile              | 3.12  | 53   | 648      | 0.359  | ug/l # | 86     |
| 16) Acetone                    | 2.42  | 43   | 1089     | 0.679  | ug/l # | 77     |
| 17) Carbon Disulfide           | 2.56  | 76   | 3701     | 0.208  | ug/l # | 81     |
| 20) Methylene Chloride         | 2.84  | 84   | 670      | 0.211  | ug/l # | 90     |
| 31) Cyclohexane                | 5.63  | 56   | 5959     | 1.235  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.62  | 75   | 22823    | 5.242  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 27867    | 6.060  | ug/l # | 16     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.12 | 83   | 194      | 3.754  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 113693   | 25.408 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 113693   | 60.044 | ug/l # | 10     |

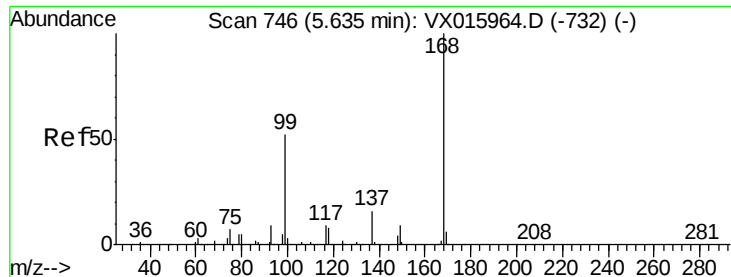
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050120\  
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Sample : VX0501WBL02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 02 06:58:01 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042820W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 28 17:30:11 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

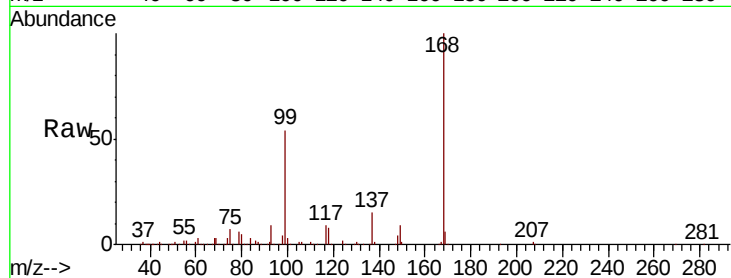
ClientSampleId :

Tot Ion:168 Resp: 286801

Ion Ratio Lower Upper

168 100

99 53.7 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

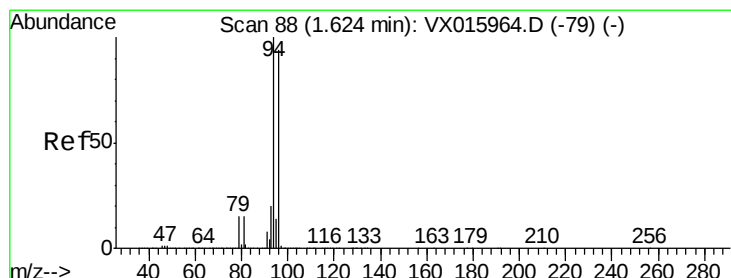
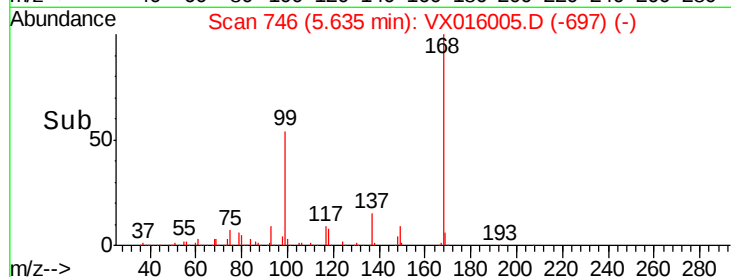
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.229 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016005.D

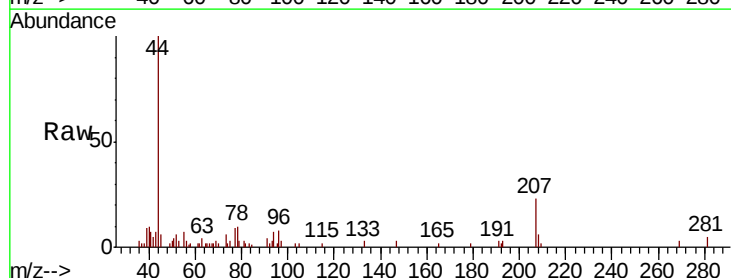
Acq: 01 May 2020 12:18

Tgt Ion: 94 Resp: 544

Ion Ratio Lower Upper

94 100

96 102.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

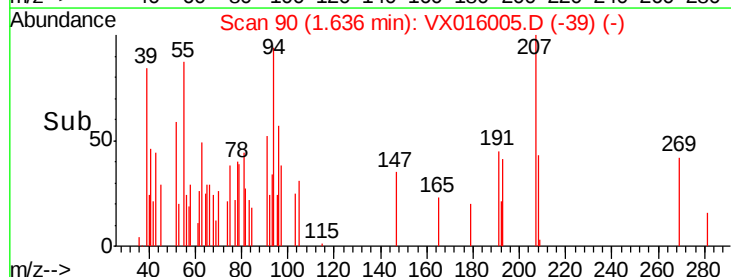
300

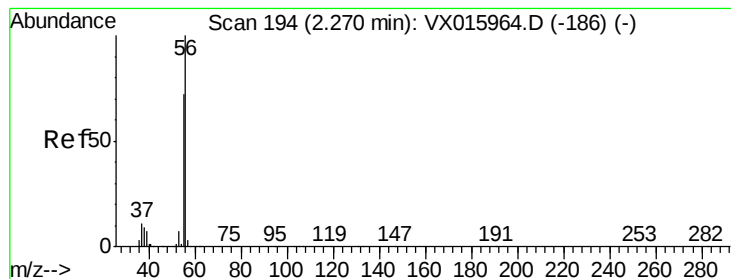
200

100

0

Time-->





#13

Acrolein

Concen: 3.353 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

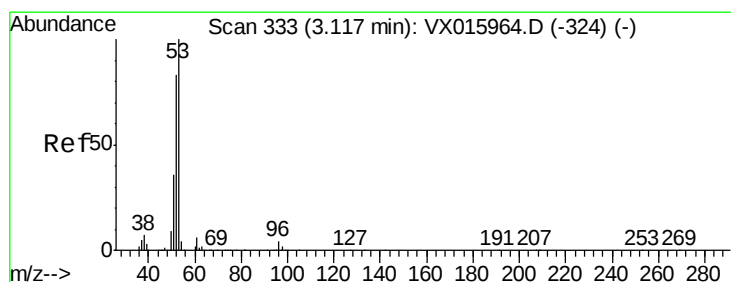
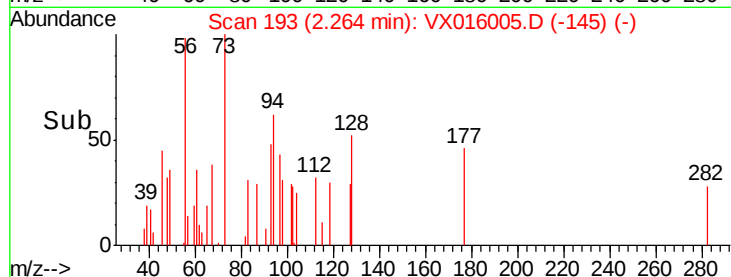
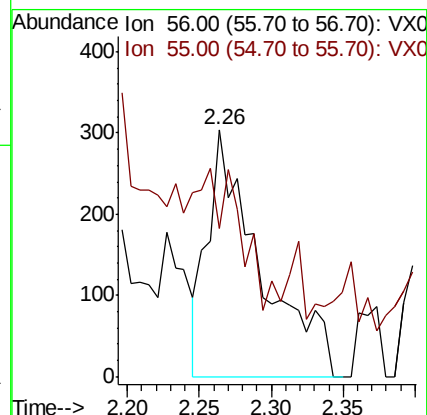
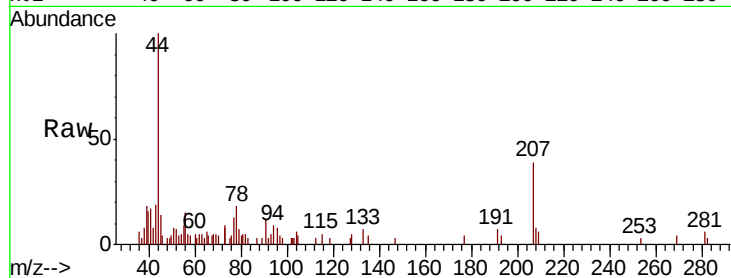
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 767

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#15

Acrylonitrile

Concen: 0.359 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

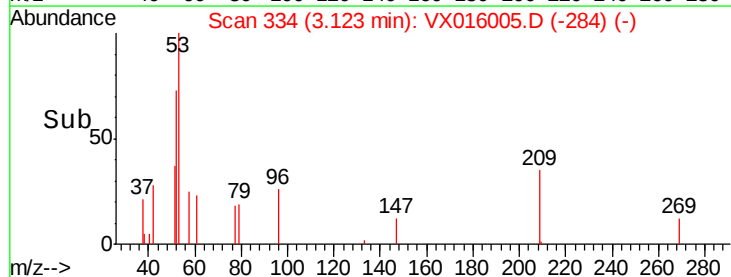
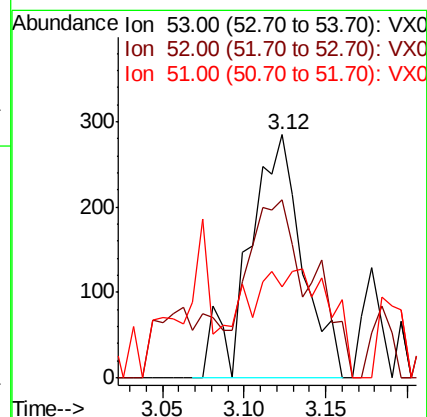
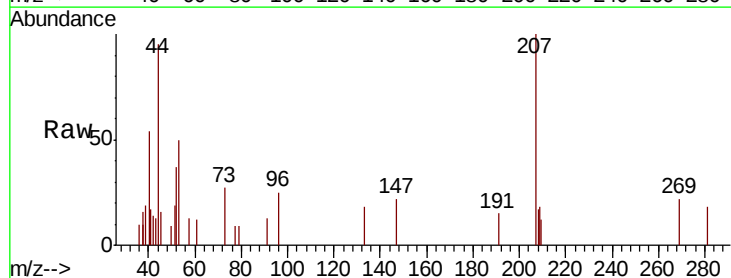
Tgt Ion: 53 Resp: 648

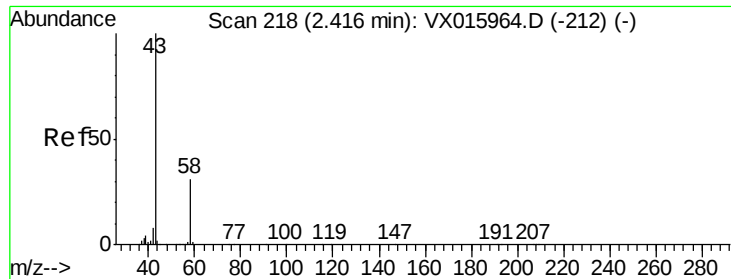
Ion Ratio Lower Upper

53 100

52 84.7 65.5 98.3

51 12.5 28.7 43.1#





#16

Acetone

Concen: 0.679 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

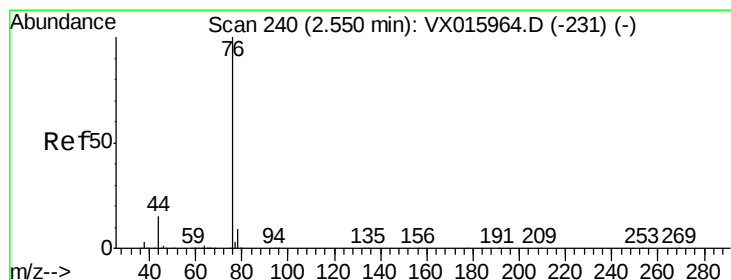
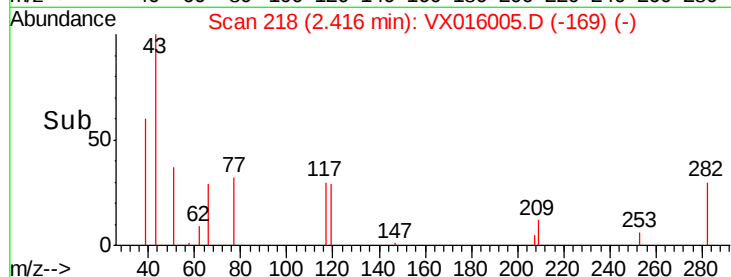
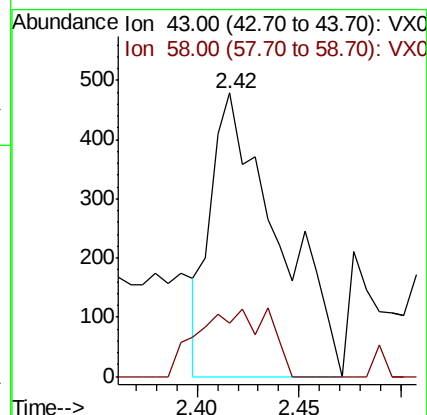
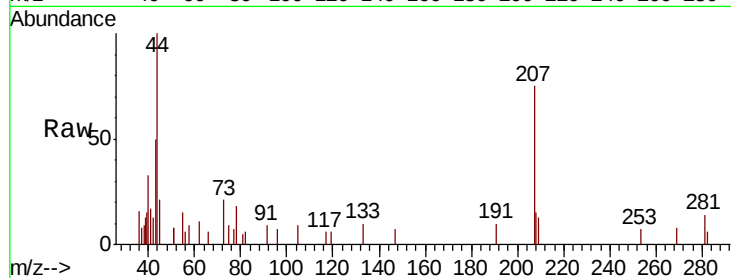
ClientSampleId :

Tot Ion: 43 Resp: 1089

Ion Ratio Lower Upper

43 100

58 18.8 25.1 37.7#



#17

Carbon Disulfide

Concen: 0.208 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016005.D

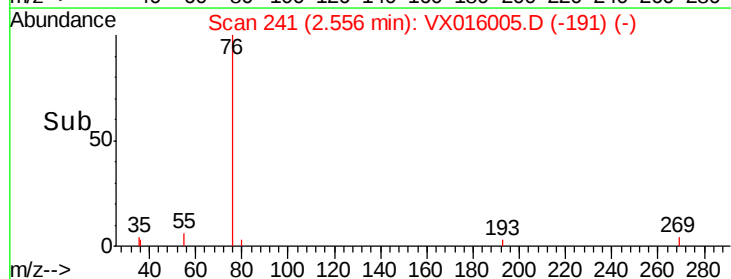
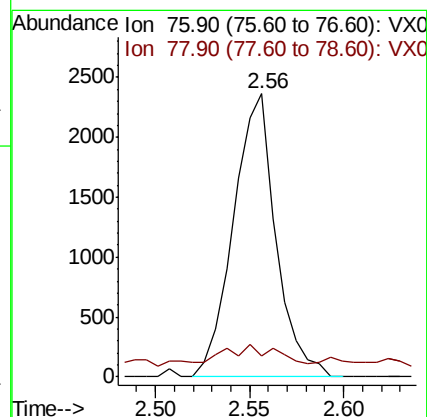
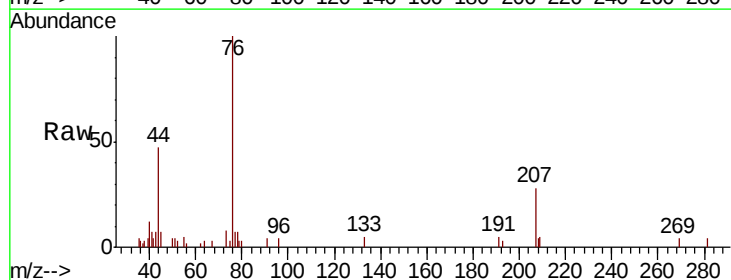
Acq: 01 May 2020 12:18

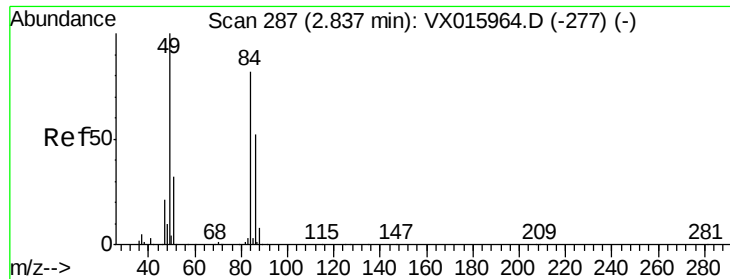
Tgt Ion: 76 Resp: 3701

Ion Ratio Lower Upper

76 100

78 2.3 7.4 11.0#

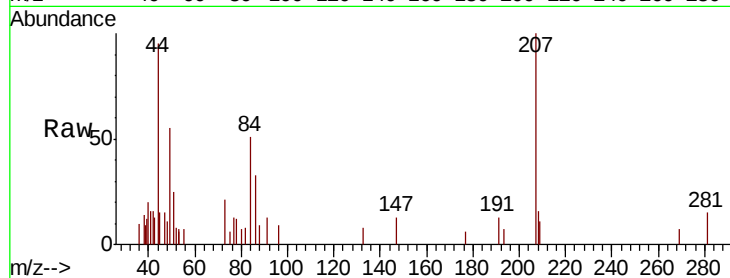




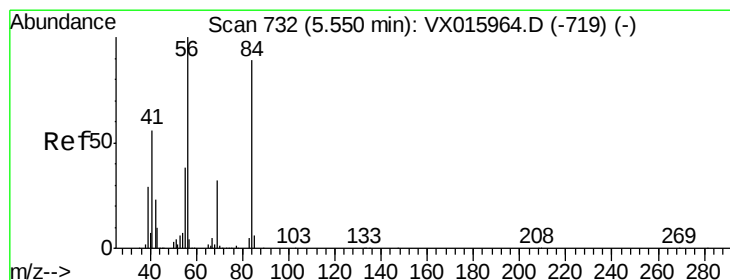
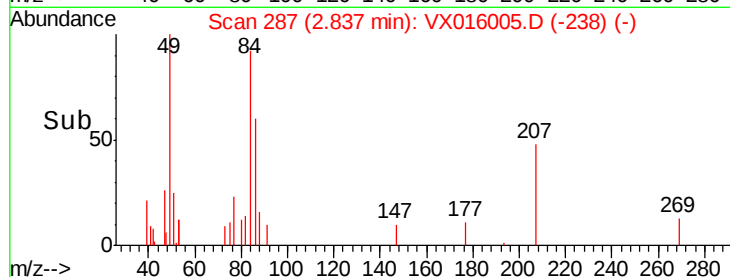
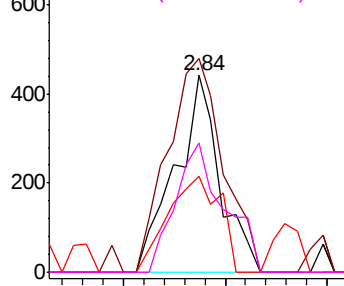
#20  
Methvlene Chloride  
Concen: 0.211 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.00 min  
Lab File: VX016005.D  
Acq: 01 May 2020 12:18

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 670   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.6 | 97.9  | 146.9 |
| 51       | 49.0  | 31.2  | 46.8# |
| 86       | 65.5  | 50.7  | 76.1  |

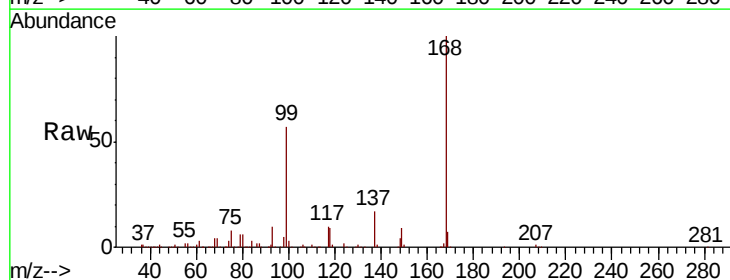


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

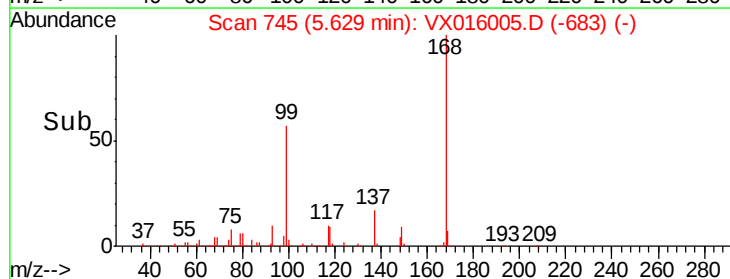
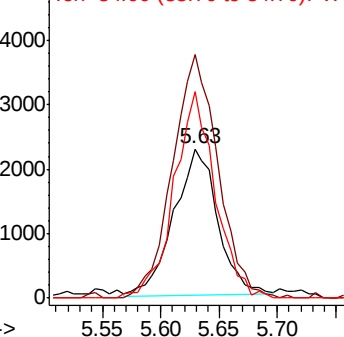


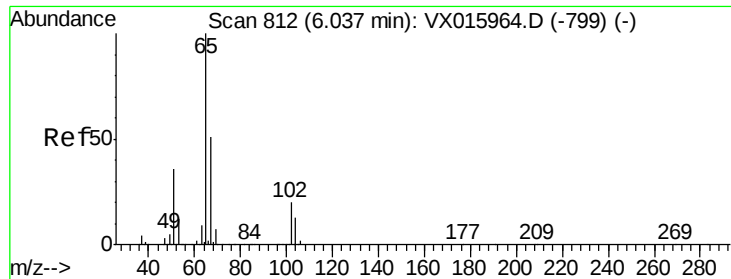
#31  
Cyclohexane  
Concen: 1.235 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016005.D  
Acq: 01 May 2020 12:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 5959   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 167.8 | 25.4  | 38.2#  |
| 84       | 142.4 | 71.0  | 106.6# |



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.408 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.01 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

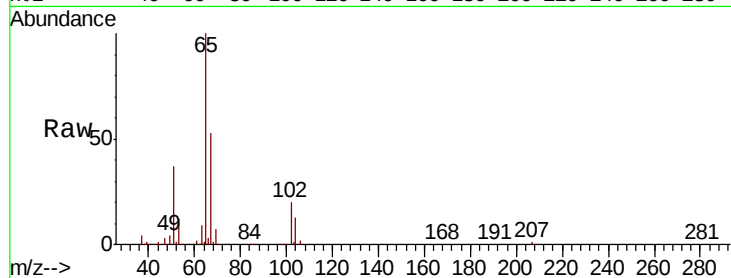
ClientSampleId :

Tot Ion: 65 Resp: 177773

Ion Ratio Lower Upper

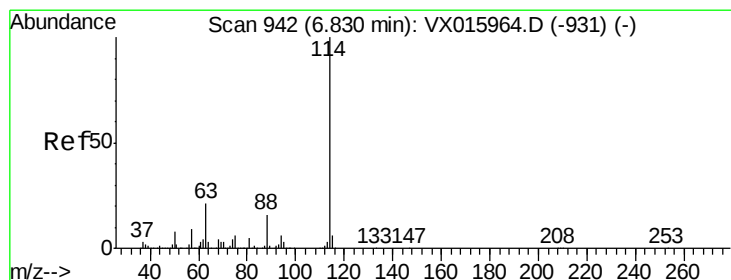
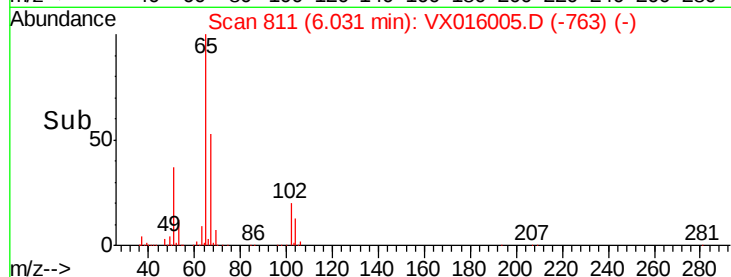
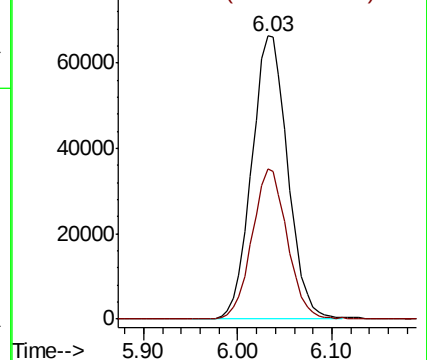
65 100

67 51.9 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

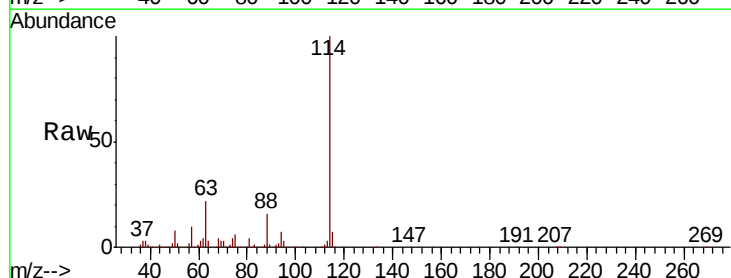
Tgt Ion: 114 Resp: 457087

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.2

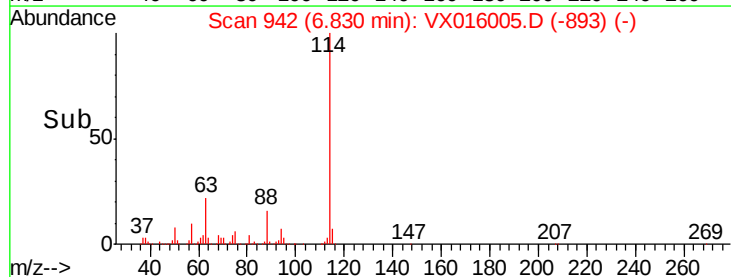
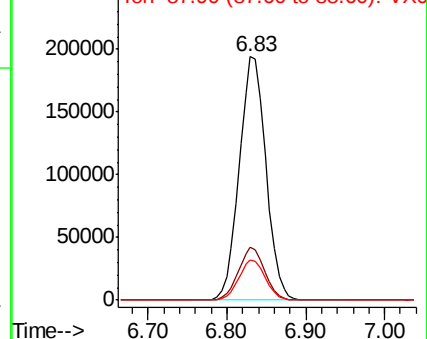
88 16.3 0.0 31.8

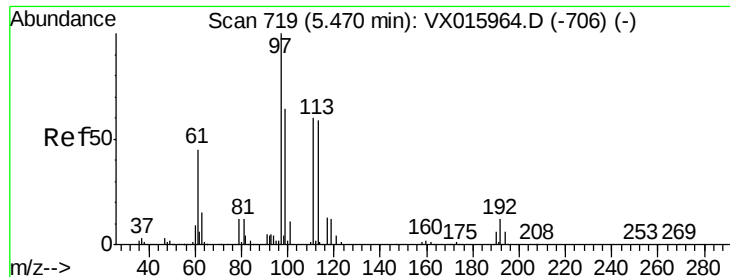


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

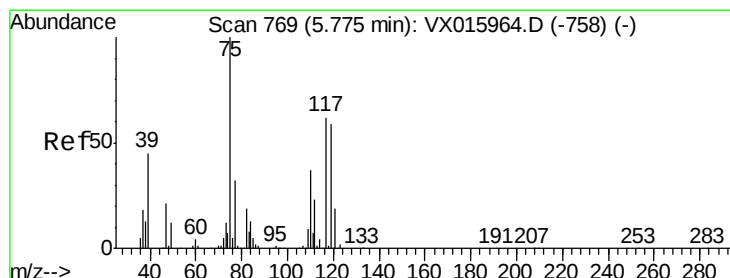
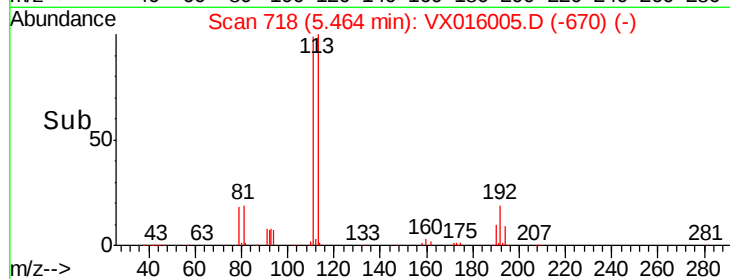
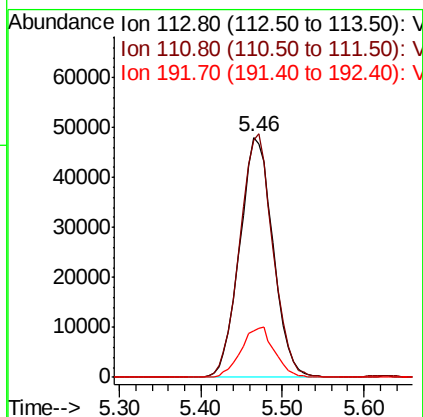
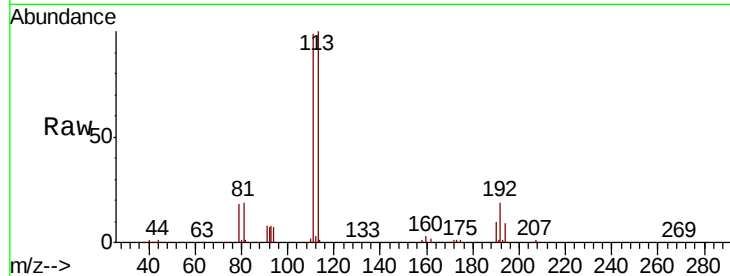




#35  
 Dibromofluoromethane  
 Concen: 47.873 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. -0.01 min  
 Lab File: VX016005.D  
 Acq: 01 May 2020 12:18

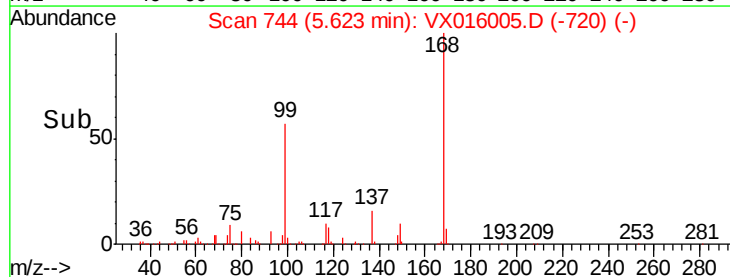
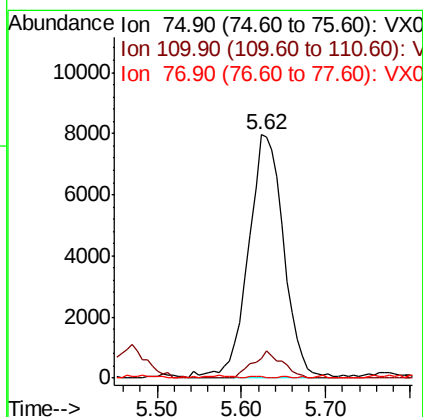
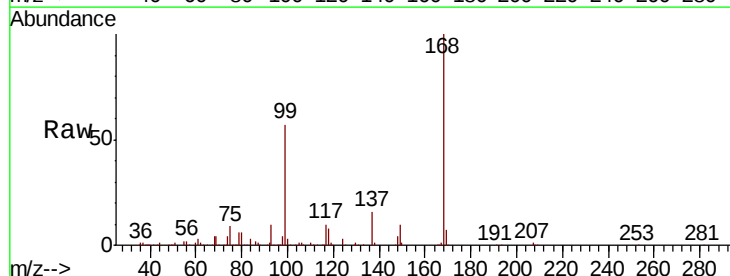
Instrument :  
 MSVOA\_X  
 ClientSampleId :

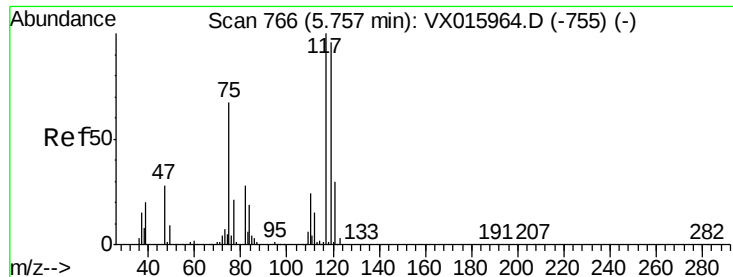
Tot Ion:113 Resp: 136502  
 Ion Ratio Lower Upper  
 113 100  
 111 101.0 81.8 122.8  
 192 20.8 16.8 25.2



#36  
 1,1-Dichloropropene  
 Concen: 5.242 ug/l  
 RT: 5.62 min Scan# 744  
 Delta R.T. -0.15 min  
 Lab File: VX016005.D  
 Acq: 01 May 2020 12:18

Tgt Ion: 75 Resp: 22823  
 Ion Ratio Lower Upper  
 75 100  
 110 9.2 17.9 53.7#  
 77 0.3 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 6.060 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

ClientSampled :

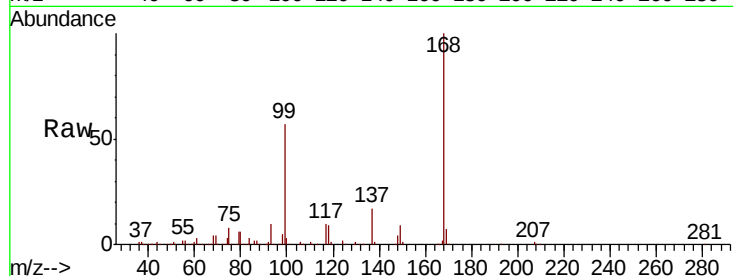
Tot Ion:117 Resp: 27867

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.4#

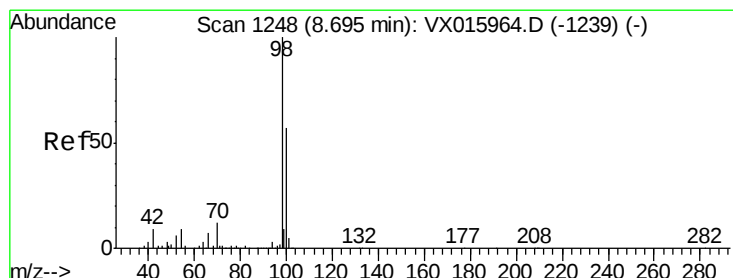
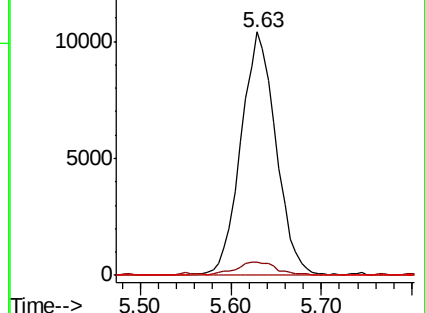
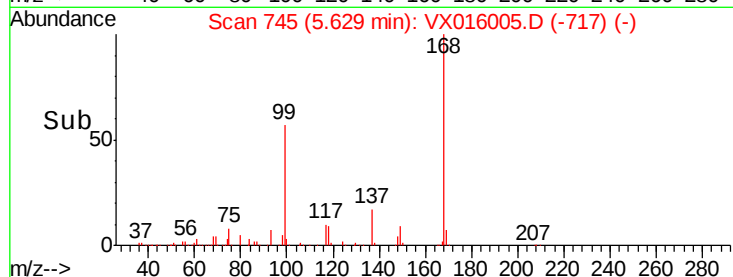
121 0.0 24.2 36.4#



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: 52.250 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016005.D

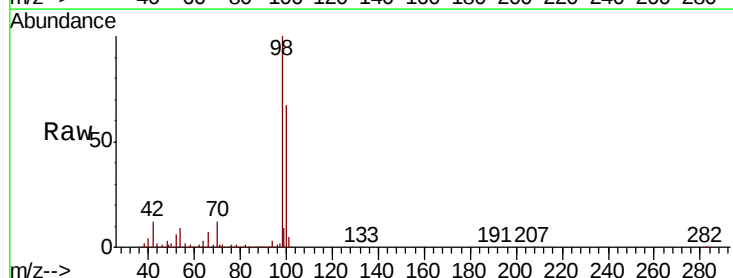
Acq: 01 May 2020 12:18

Tgt Ion: 98 Resp: 557030

Ion Ratio Lower Upper

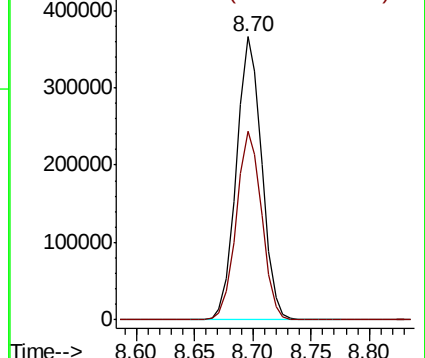
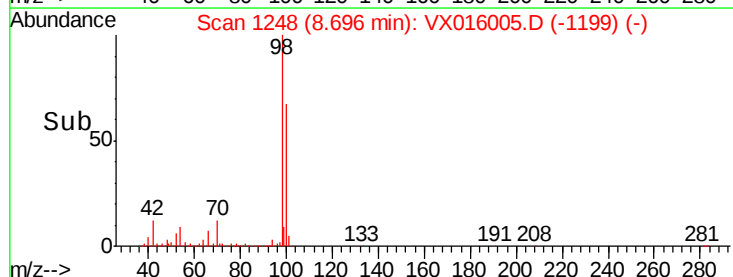
98 100

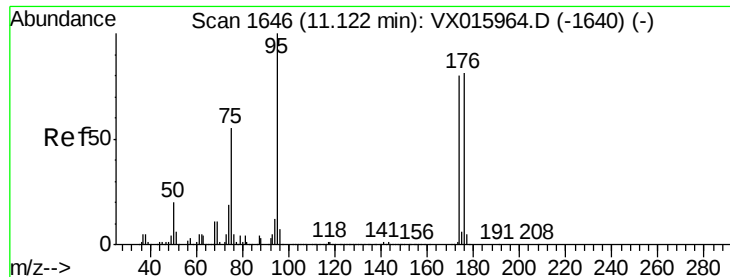
100 66.7 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 51.751 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

ClientSampleId :

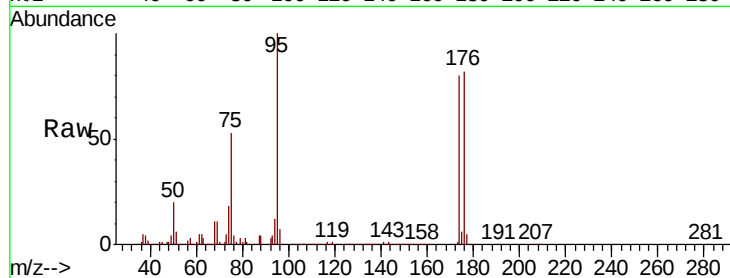
Tot Ion: 95 Resp: 216388

Ion Ratio Lower Upper

95 100

174 80.7 0.0 165.0

176 79.5 0.0 163.2

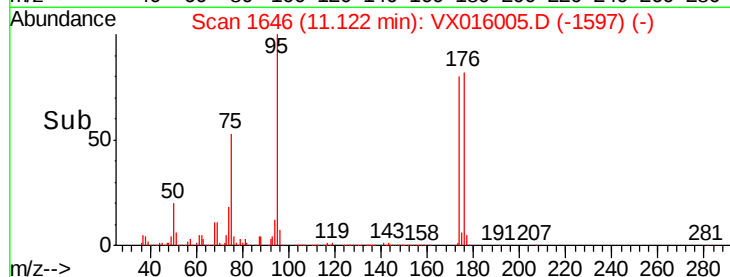


Abundance Ion 94.90 (94.60 to 95.60): VX015964.D (-1640) (-)

Ion 173.80 (173.50 to 174.50): VX015964.D (-1640) (-)

Ion 175.80 (175.50 to 176.50): VX015964.D (-1640) (-)

Time-->

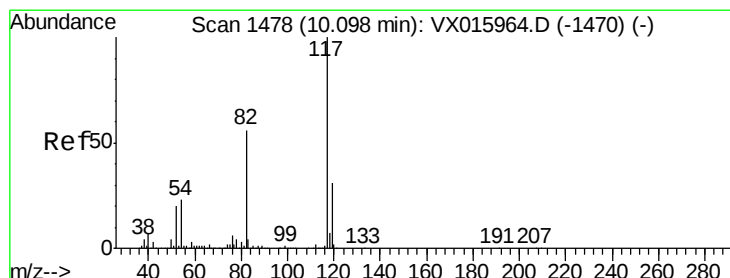


Abundance Ion 94.90 (94.60 to 95.60): VX016005.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016005.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016005.D (-1597) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

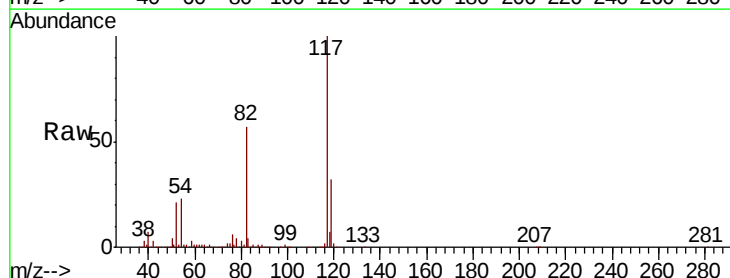
Tgt Ion: 117 Resp: 432390

Ion Ratio Lower Upper

117 100

82 56.5 44.5 66.7

119 31.5 25.0 37.6

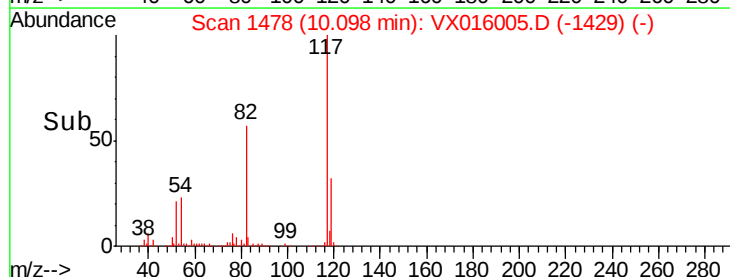


Abundance Ion 116.90 (116.60 to 117.60): VX015964.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX015964.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX015964.D (-1470) (-)

Time-->

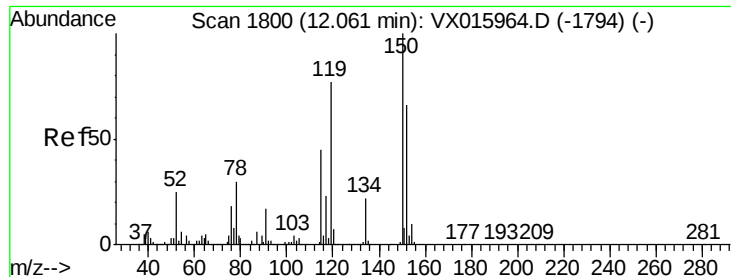


Abundance Ion 116.90 (116.60 to 117.60): VX016005.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016005.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016005.D (-1429) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

ClientSampleId :

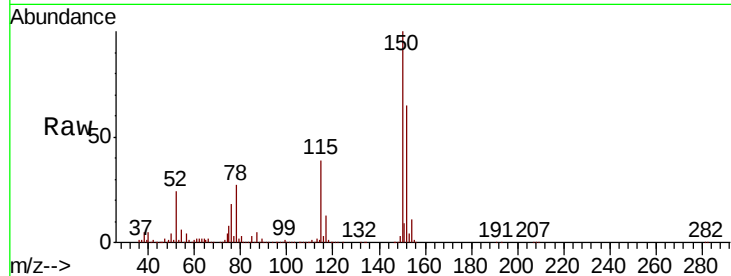
Tot Ion:152 Resp: 213245

Ion Ratio Lower Upper

152 100

115 58.1 40.9 122.7

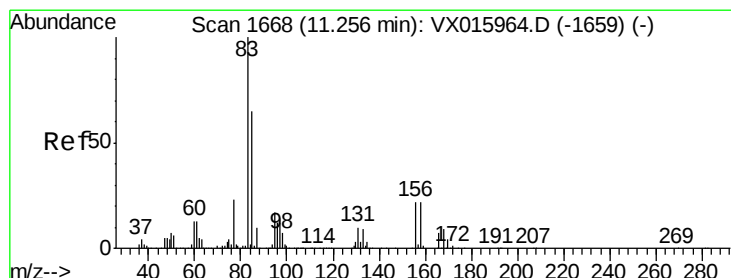
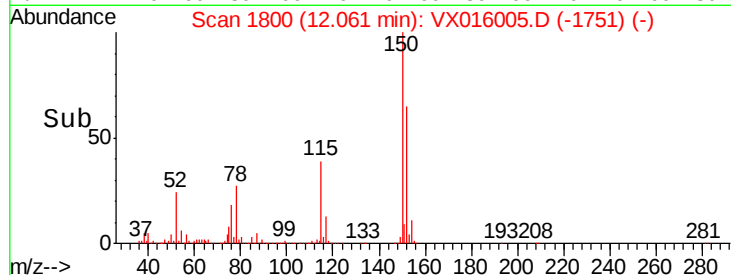
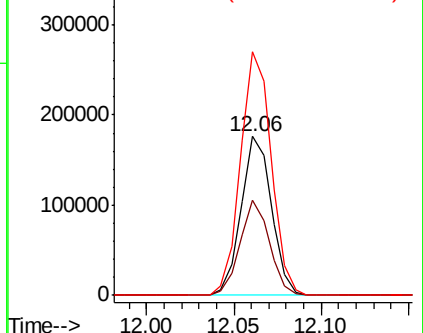
150 155.1 0.0 342.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: 3.754 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

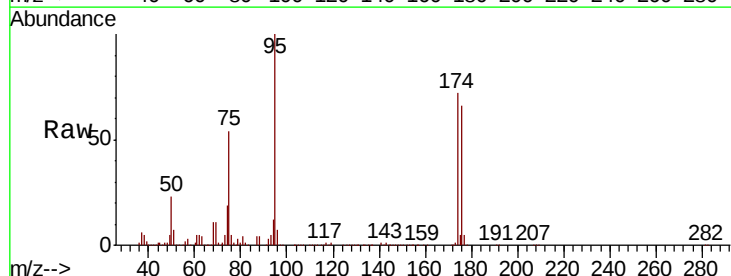
Tgt Ion: 83 Resp: 194

Ion Ratio Lower Upper

83 100

131 184.0 5.1 15.4#

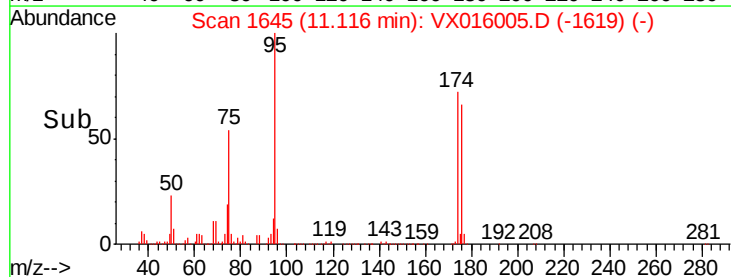
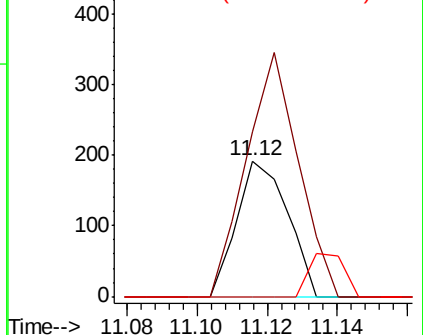
85 22.2 32.2 96.6#

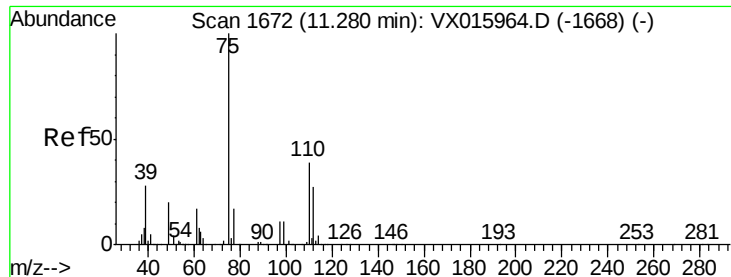


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 25.408 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

Instrument :

MSVOA\_X

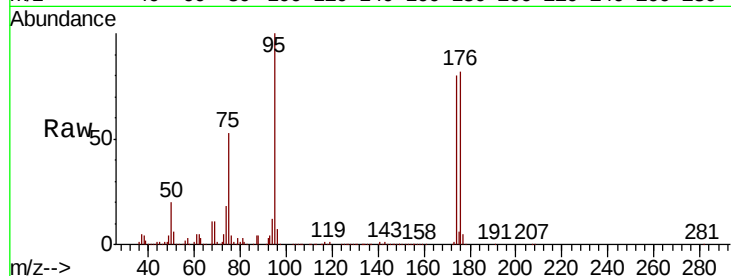
ClientSampleId :

Tot Ion: 75 Resp: 113693

Ion Ratio Lower Upper

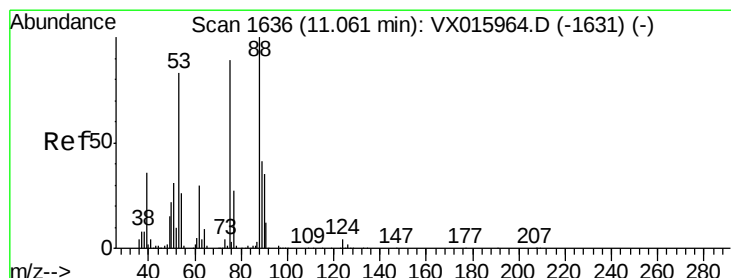
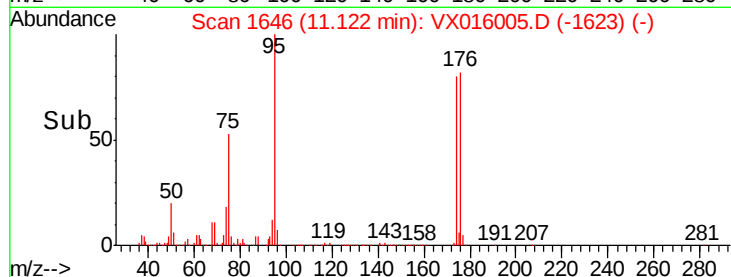
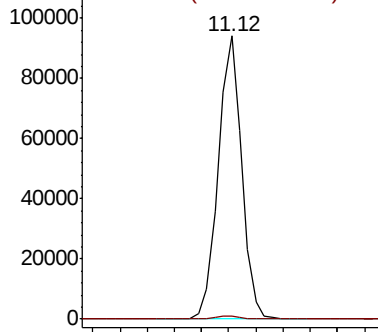
75 100

77 1.3 21.6 65.0#



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: 60.044 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016005.D

Acq: 01 May 2020 12:18

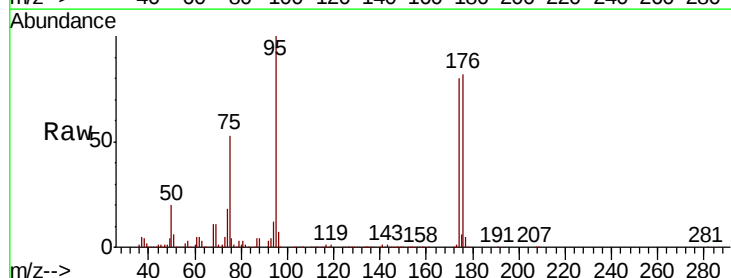
Tgt Ion: 75 Resp: 113693

Ion Ratio Lower Upper

75 100

53 0.0 78.3 117.5#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

