

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\  
 Data File : VX009382.D  
 Acq On : 07 May 2019 17:18  
 Operator : JC/SP  
 Sample : K2719-23  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RB-190506

Quant Time: May 08 02:16:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 08:24:47 2019  
 Response via : Initial Calibration

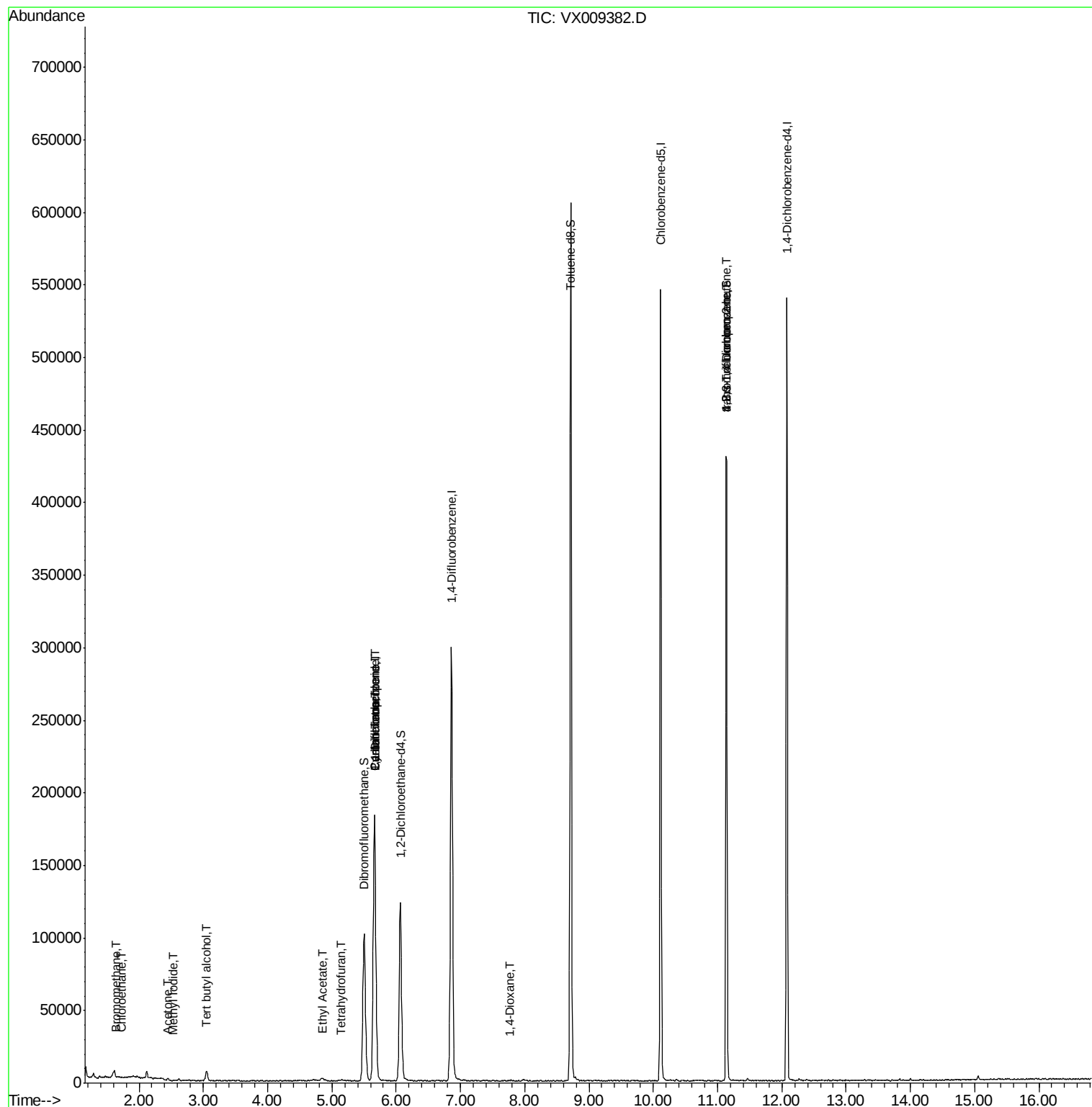
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 5.67   | 168  | 178107   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.86   | 114  | 286389   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 10.12  | 117  | 248710   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.08  | 152  | 107091   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |        |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 6.06   | 65   | 115971   | 47.70     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 95.40% |          |
| 35) Dibromofluoromethane       | 5.50   | 113  | 86766    | 48.19     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 96.38% |          |
| 50) Toluene-d8                 | 8.71   | 98   | 357755   | 49.22     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 98.44% |          |
| 62) 4-Bromofluorobenzene       | 11.13  | 95   | 117786   | 44.60     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 89.20% |          |
| Target Compounds               |        |      |          |           |        |          |
|                                |        |      |          |           | Qvalue |          |
| 5) Bromomethane                | 1.64   | 94   | 273      | 0.208     | ug/l   | 91       |
| 6) Chloroethane                | 1.73   | 64   | 386      | 0.275     | ug/l   | 98       |
| 10) Methyl Iodide              | 2.52   | 142  | 90       | 4.636     | ug/l # | 73       |
| 11) Tert butyl alcohol         | 3.04   | 59   | 7372     | 13.099    | ug/l   | 96       |
| 16) Acetone                    | 2.44   | 43   | 1558     | 1.193     | ug/l   | 93       |
| 28) Bromochloromethane         | 5.01   | 49   | 81       | Below Cal | #      | 20       |
| 29) Tetrahydrofuran            | 5.15   | 42   | 1222     | 0.936     | ug/l # | 80       |
| 31) Cyclohexane                | 5.66   | 56   | 3691     | 1.027     | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 5.66   | 75   | 13761    | 5.170     | ug/l # | 51       |
| 37) Ethyl Acetate              | 4.85   | 43   | 3234     | 0.872     | ug/l # | 82       |
| 38) Carbon Tetrachloride       | 5.67   | 117  | 16583    | 6.858     | ug/l # | 17       |
| 49) 1,4-Dioxane                | 7.77   | 88   | 19       | 0.318     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane     | 11.13  | 75   | 59224    | 23.841    | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-buten | 11.13  | 75   | 59224    | 61.001    | ug/l # | 10       |

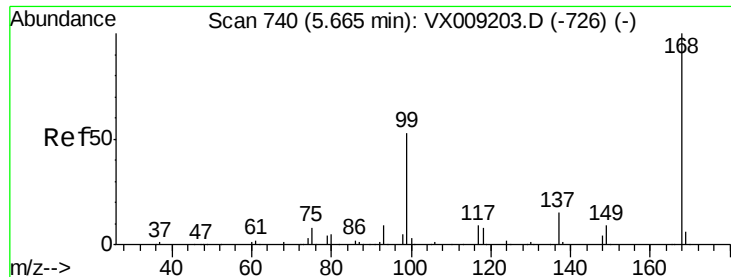
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050719\  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-190506

Quant Time: May 08 02:16:43 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 08:24:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

Instrument :

MSVOA\_X

ClientSampleId :

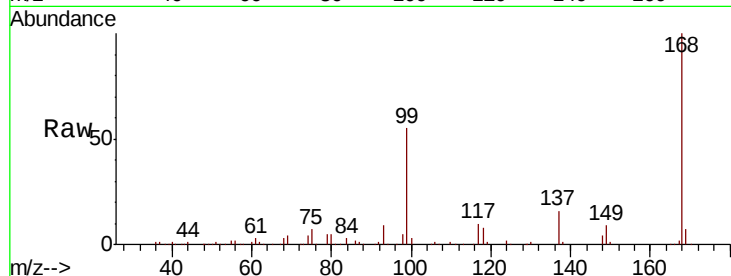
RB-190506

Tot Ion:168 Resp: 178107

Ion Ratio Lower Upper

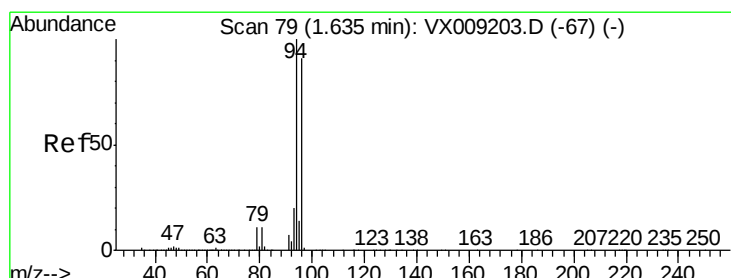
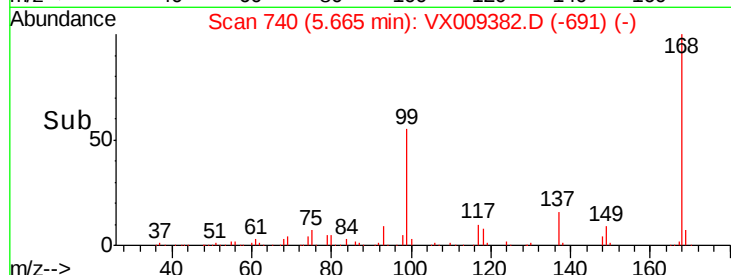
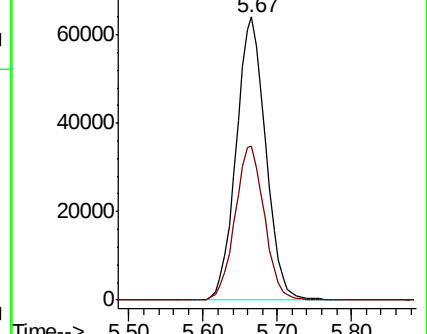
168 100

99 54.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009382.D

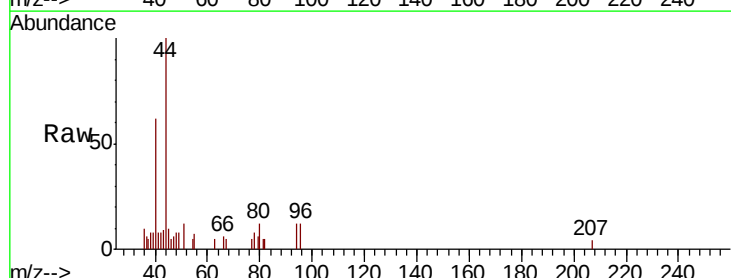
Acq: 07 May 2019 17:18

Tgt Ion: 94 Resp: 273

Ion Ratio Lower Upper

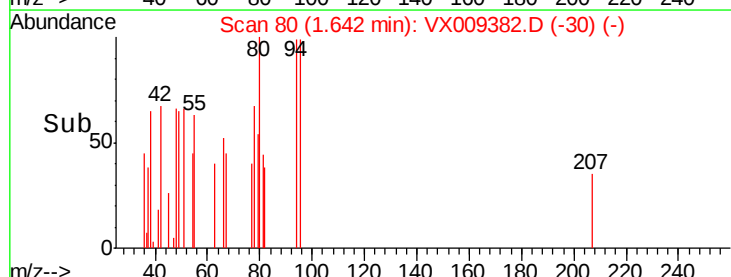
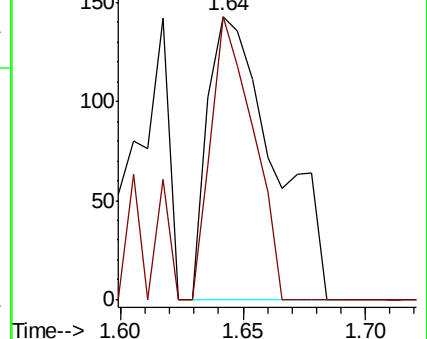
94 100

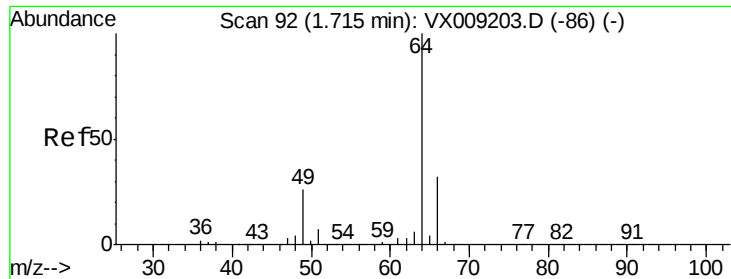
96 100.0 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.275 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

Instrument :

MSVOA\_X

ClientSampled :

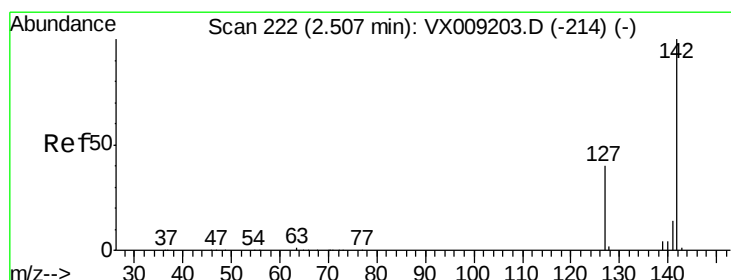
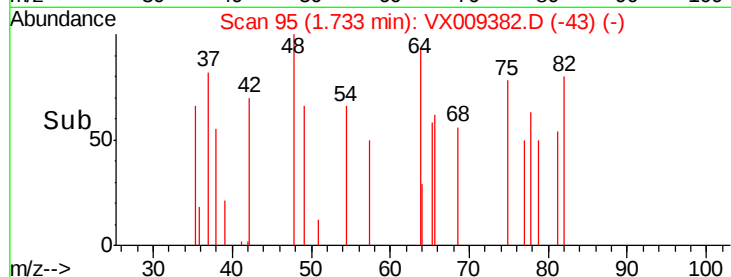
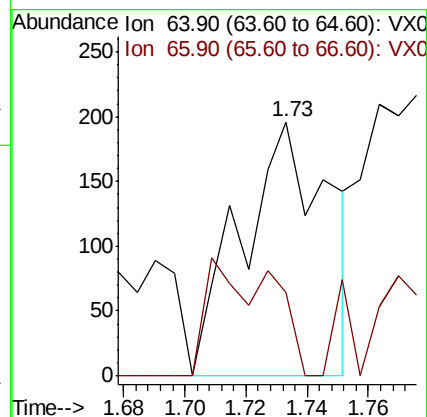
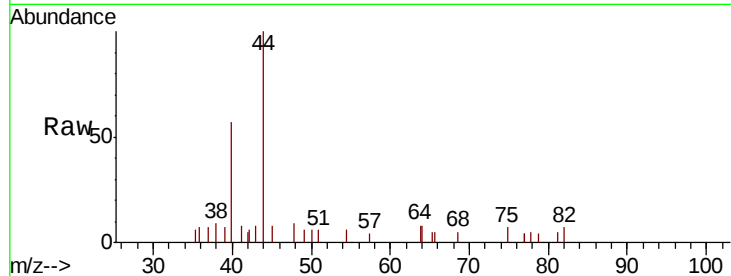
RB-190506

Tot Ion: 64 Resp: 386

Ion Ratio Lower Upper

64 100

66 32.7 25.3 37.9



#10

Methyl Iodide

Concen: 4.636 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

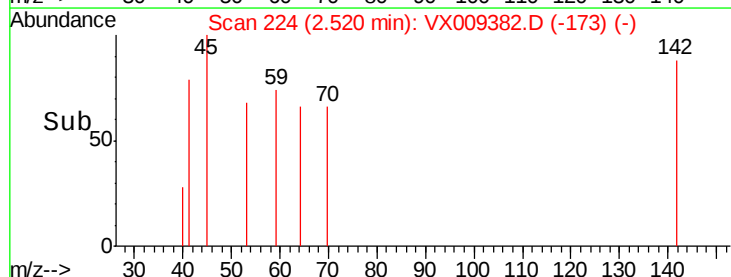
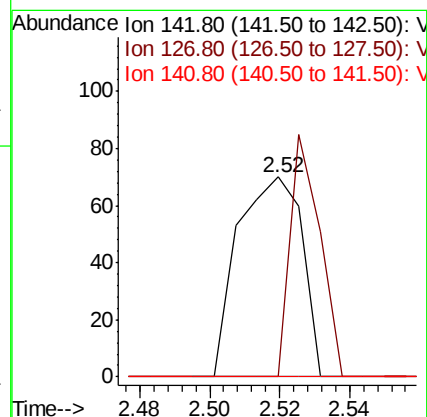
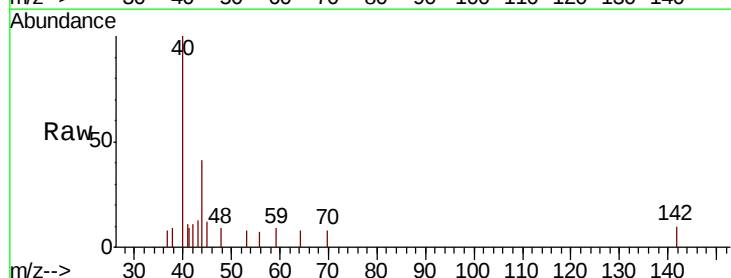
Tgt Ion: 142 Resp: 90

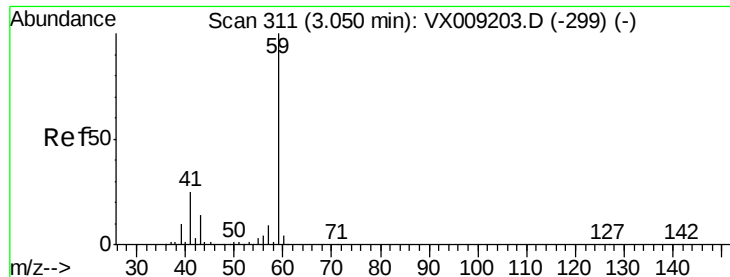
Ion Ratio Lower Upper

142 100

127 55.6 32.7 49.1#

141 0.0 11.5 17.3#

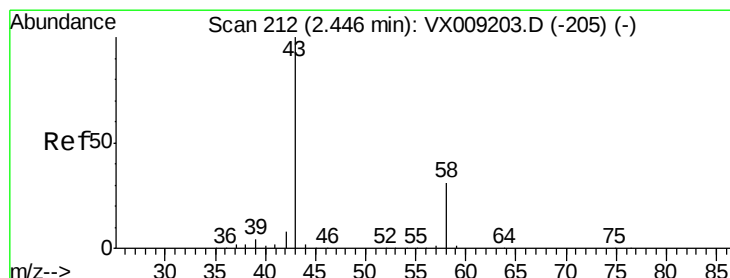
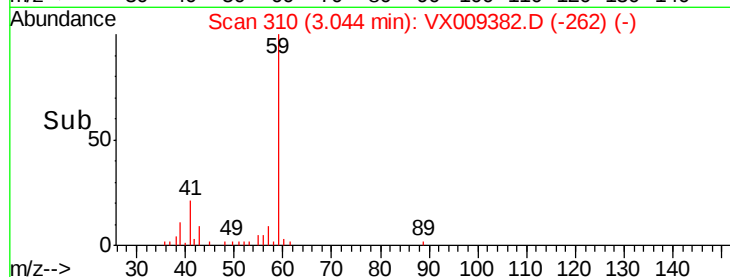
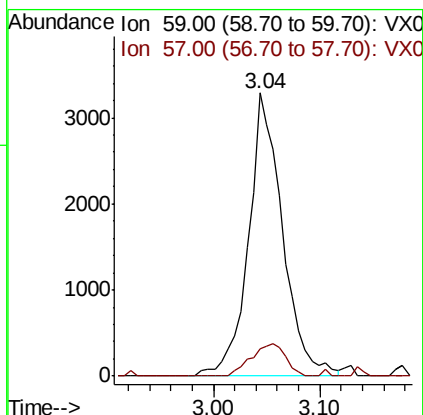
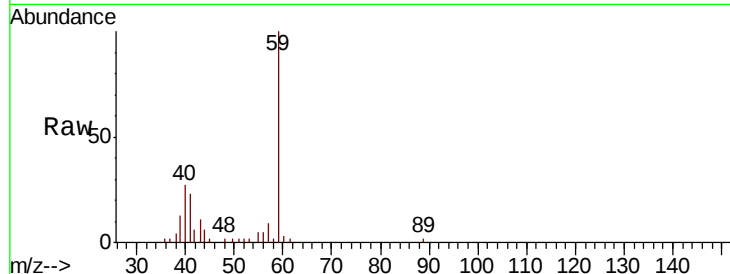




#11  
Tert butyl alcohol  
Concen: 13.099 ug/l  
RT: 3.04 min Scan# 310  
Delta R.T. -0.01 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

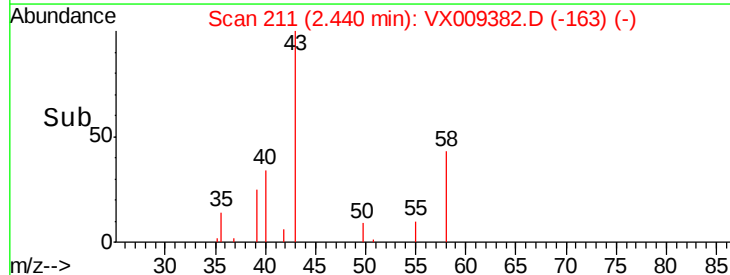
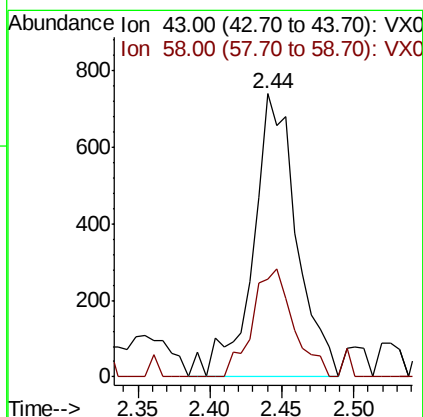
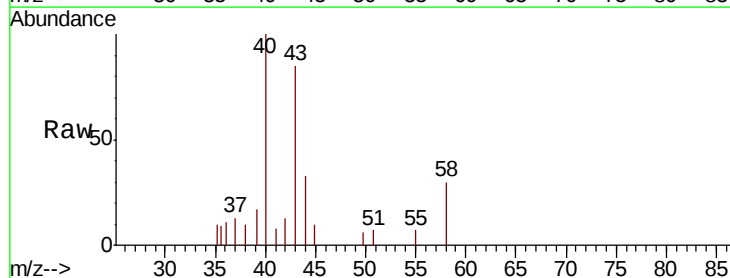
Instrument :  
MSVOA\_X  
ClientSampled :  
RB-190506

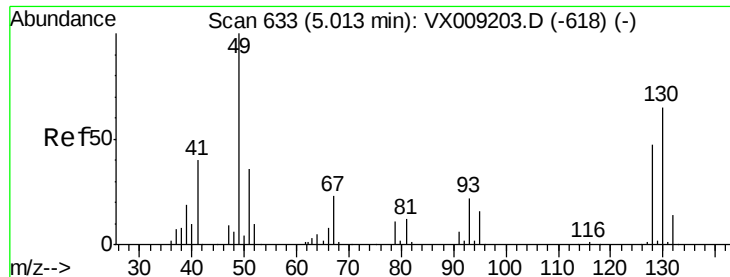
Tot Ion: 59 Resp: 7372  
Ion Ratio Lower Upper  
59 100  
57 11.6 8.2 12.2



#16  
Acetone  
Concen: 1.193 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. -0.01 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Tgt Ion: 43 Resp: 1558  
Ion Ratio Lower Upper  
43 100  
58 34.7 24.9 37.3





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

Instrument :

MSVOA\_X

ClientSampleId :

RB-190506

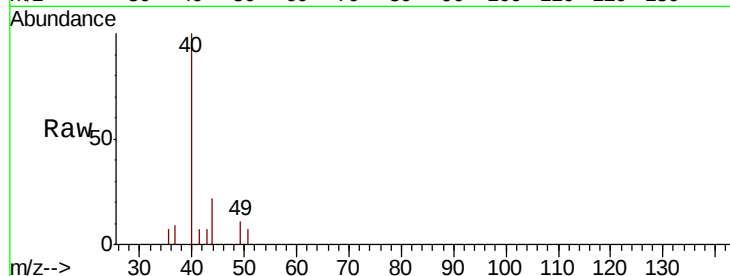
Tot Ion: 49 Resp: 81

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



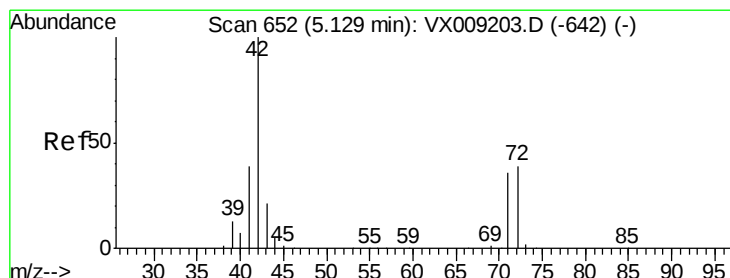
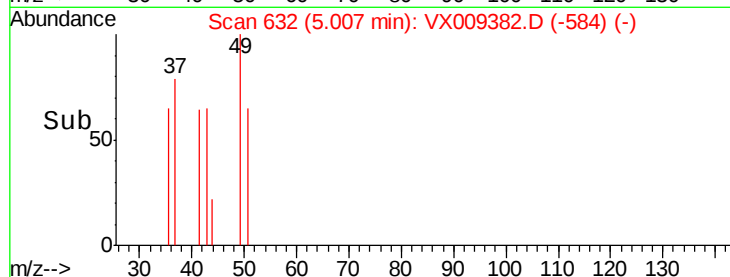
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01

Time-->



#29

Tetrahydrofuran

Concen: 0.936 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

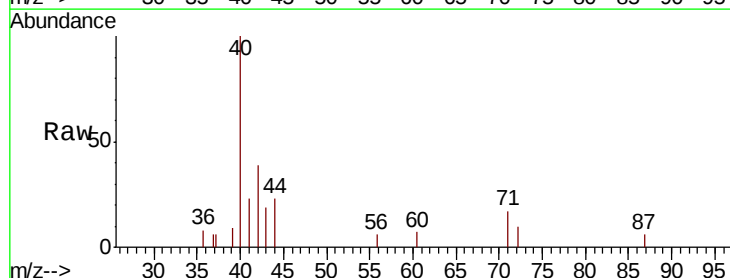
Tgt Ion: 42 Resp: 1222

Ion Ratio Lower Upper

42 100

72 21.2 30.4 45.6#

71 29.1 28.6 43.0



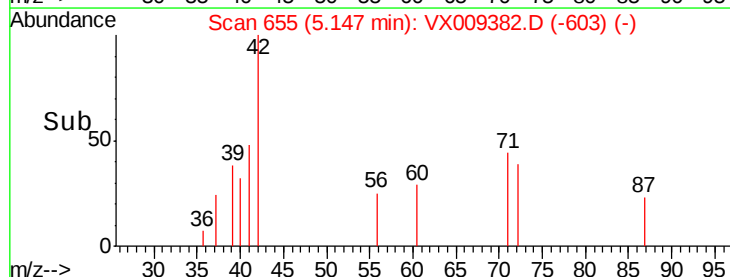
Abundance Ion 42.00 (41.70 to 42.70): VX0

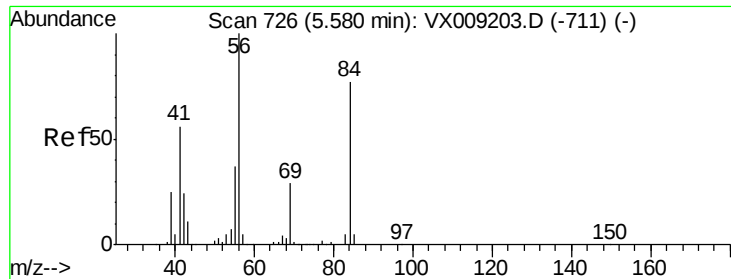
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.15

Time-->

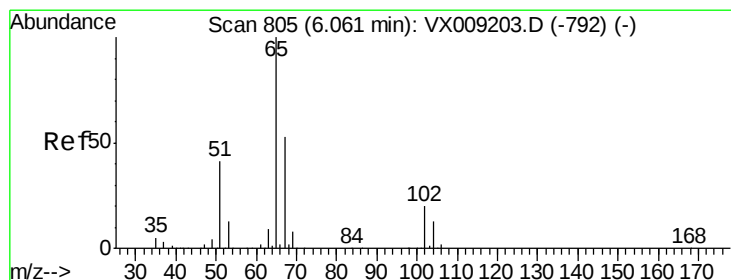
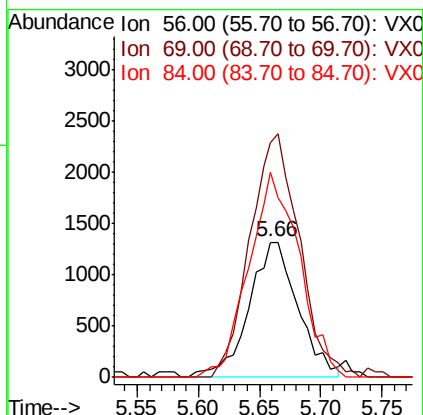
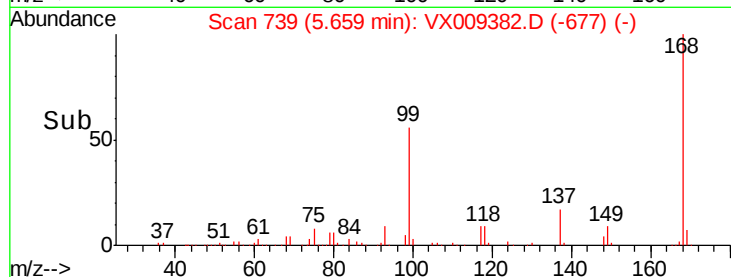
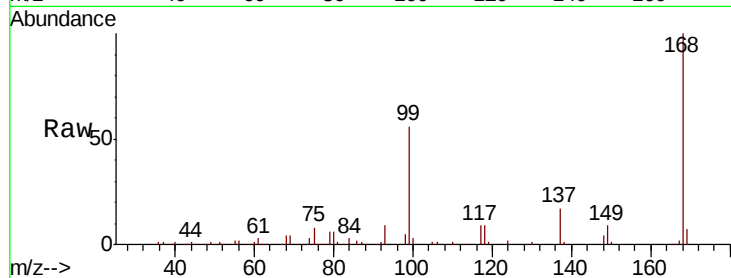




#31  
Cyclohexane  
Concen: 1.027 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

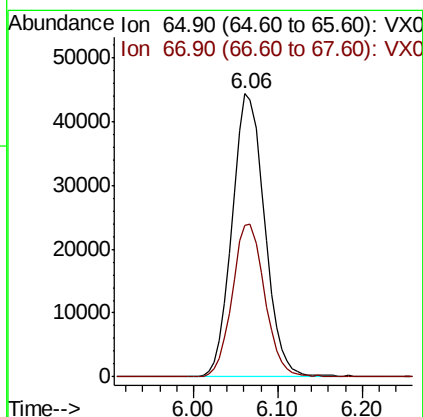
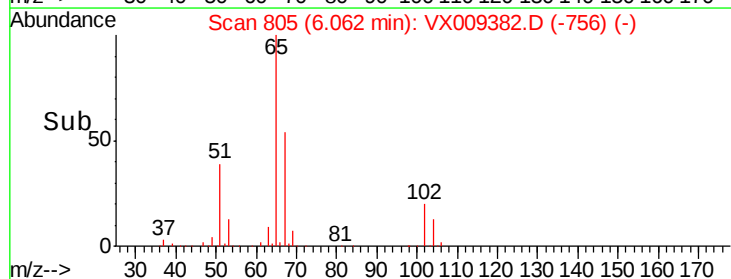
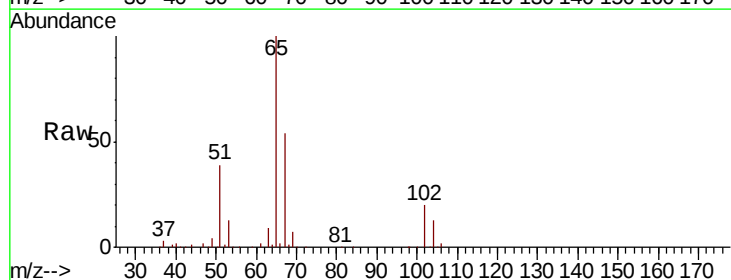
Instrument :  
MSVOA\_X  
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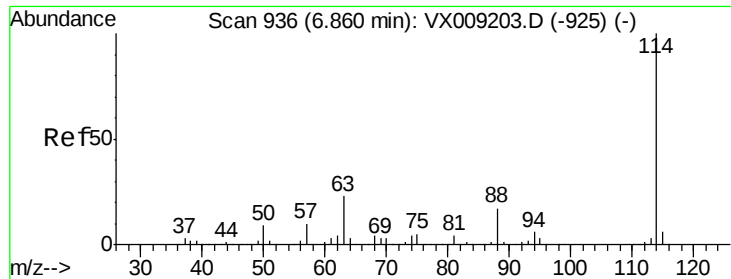
Tot Ion: 56 Resp: 3691  
Ion Ratio Lower Upper  
56 100  
69 173.2 23.4 35.0#  
84 152.0 61.9 92.9#



#33  
1,2-Dichloroethane-d4  
Concen: 47.698 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Tgt Ion: 65 Resp: 115971  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 106.6

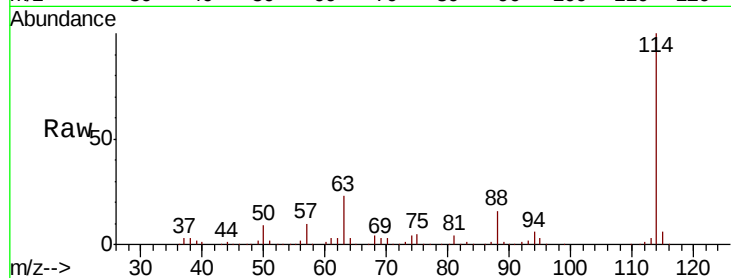




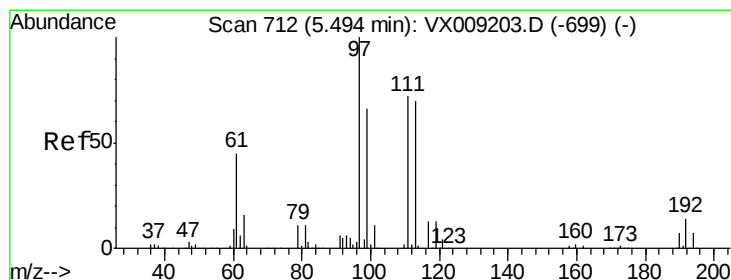
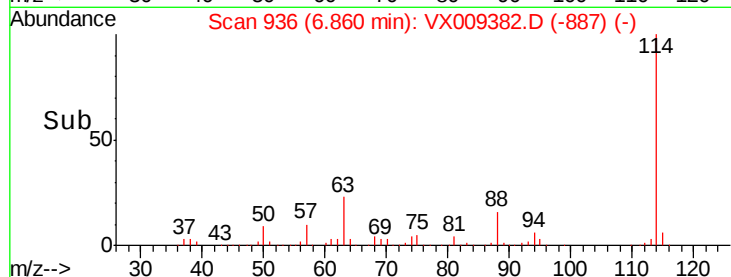
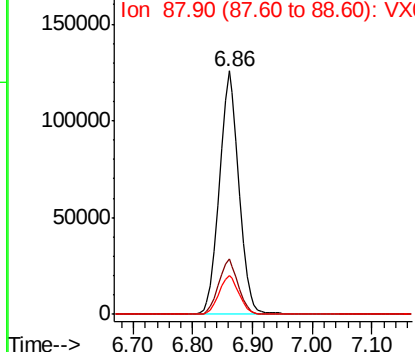
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. 0.00 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-190506

Tot Ion:114 Resp: 286389  
Ion Ratio Lower Upper  
114 100  
63 22.7 0.0 45.6  
88 15.9 0.0 33.2

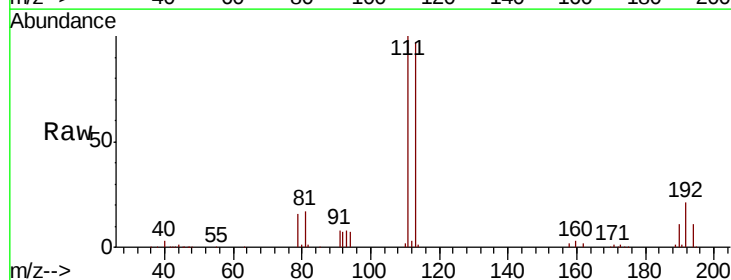


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

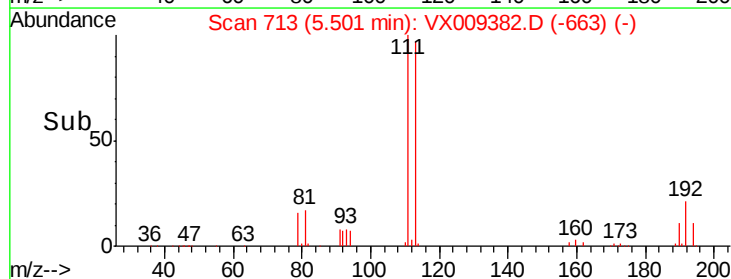
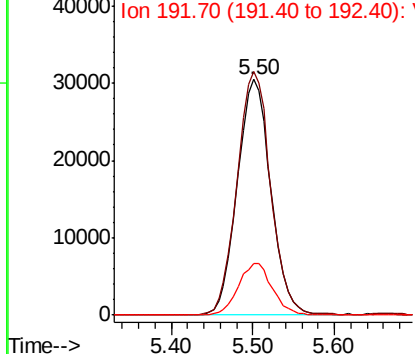


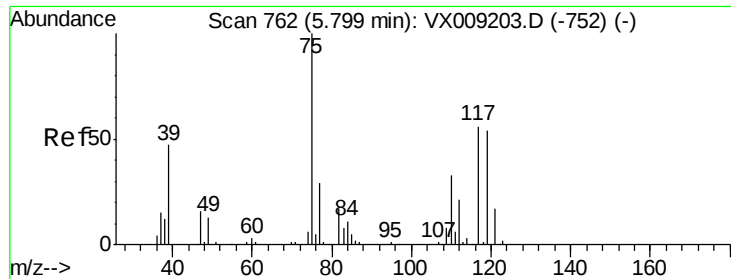
#35  
Dibromofluoromethane  
Concen: 48.194 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.01 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Tgt Ion:113 Resp: 86766  
Ion Ratio Lower Upper  
113 100  
111 103.9 82.8 124.2  
192 22.1 17.0 25.6



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

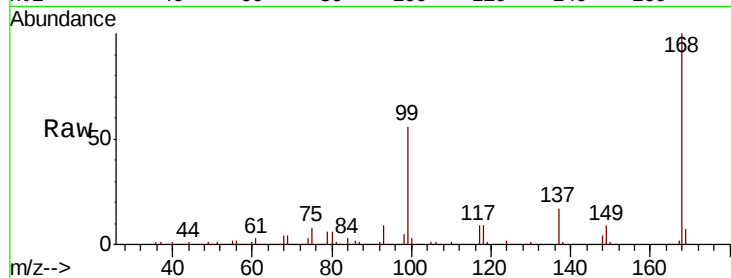




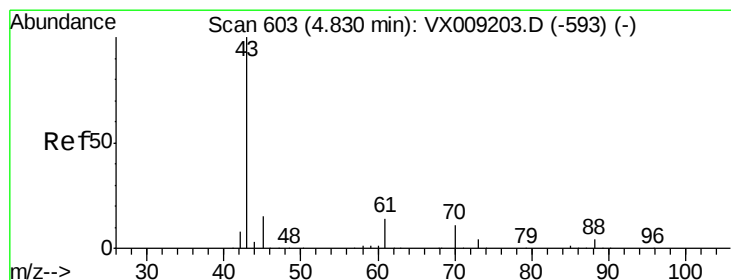
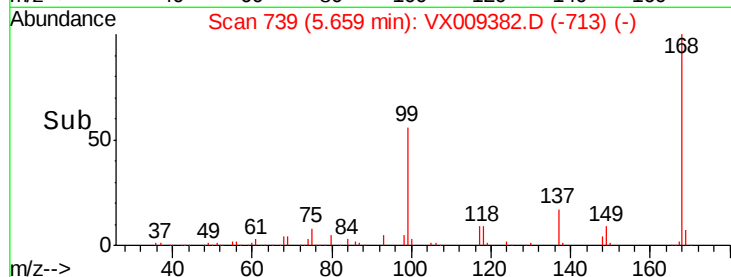
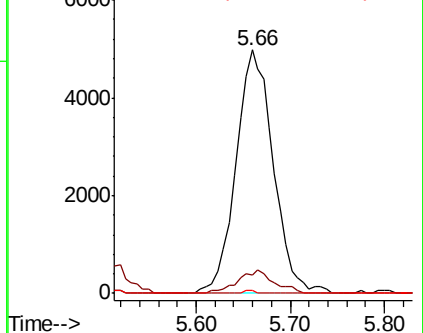
#36  
 1,1-Dichloropropene  
 Concen: 5.170 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009382.D  
 Acq: 07 May 2019 17:18

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RB-190506

Tot Ion: 75 Resp: 13761  
 Ion Ratio Lower Upper  
 75 100  
 110 9.4 16.9 50.6#  
 77 0.3 24.8 37.2#

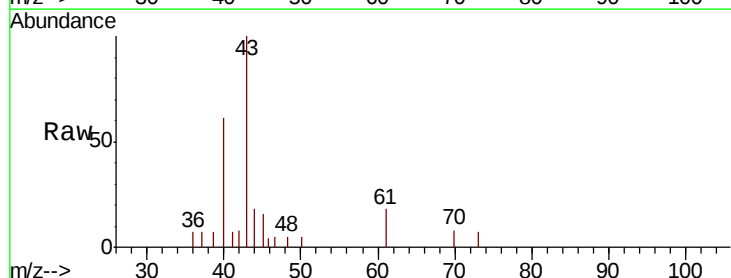


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

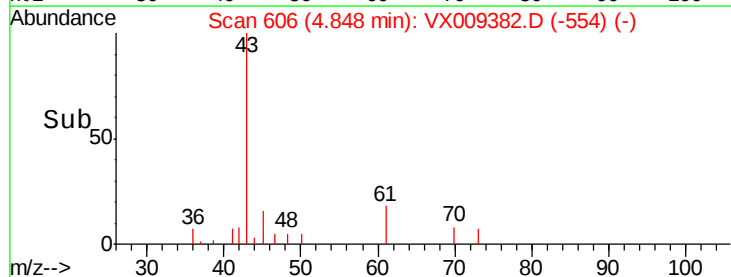
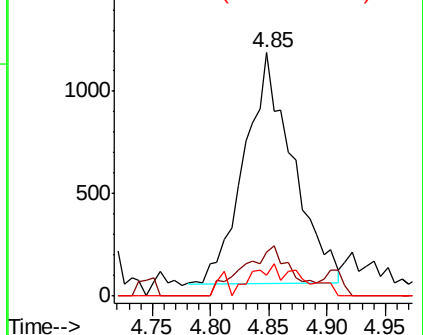


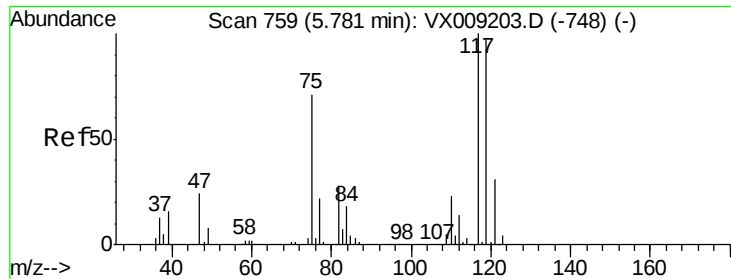
#37  
 Ethyl Acetate  
 Concen: 0.872 ug/l  
 RT: 4.85 min Scan# 606  
 Delta R.T. 0.02 min  
 Lab File: VX009382.D  
 Acq: 07 May 2019 17:18

Tgt Ion: 43 Resp: 3234  
 Ion Ratio Lower Upper  
 43 100  
 61 21.9 10.5 15.7#  
 70 5.3 7.9 11.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0  
 Ion 60.90 (60.60 to 61.60): VX0  
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.858 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

Instrument :

MSVOA\_X

ClientSampleId :

RB-190506

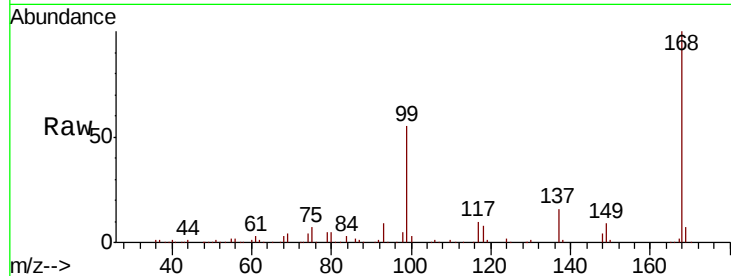
Tot Ion:117 Resp: 16583

Ion Ratio Lower Upper

117 100

119 6.5 77.5 116.3#

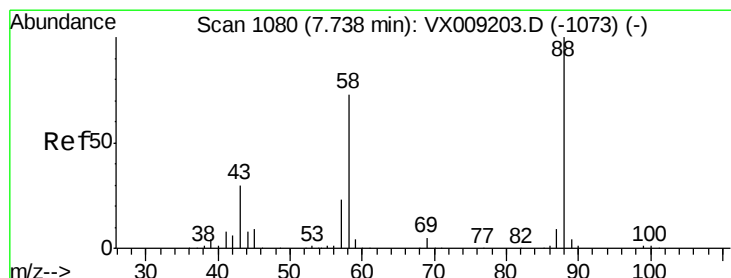
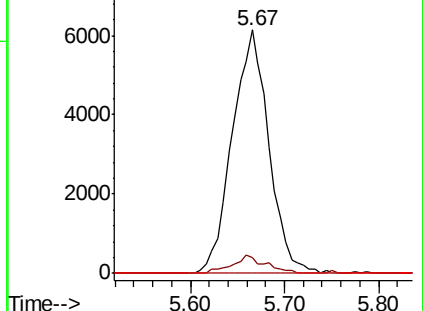
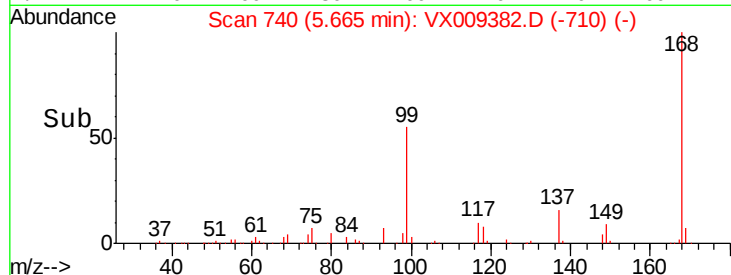
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.318 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

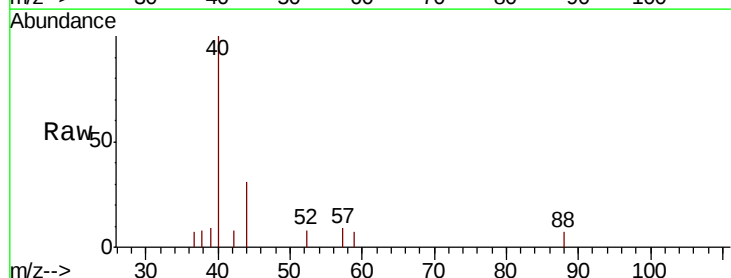
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 247.4 28.6 42.8#

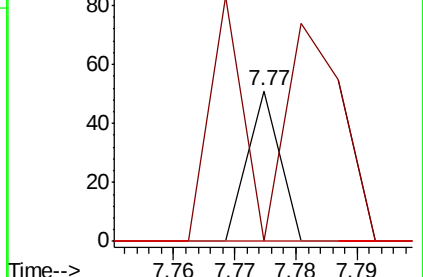
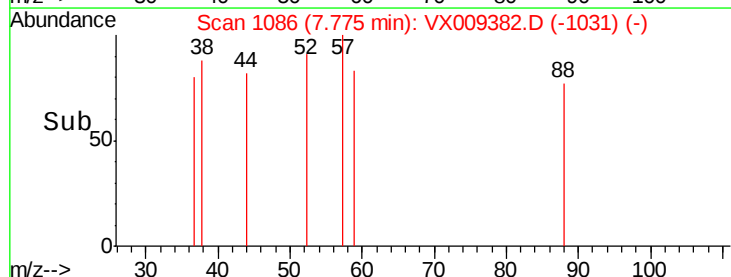
58 0.0 61.7 92.5#

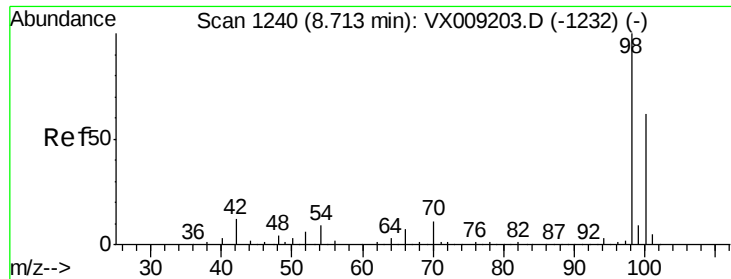


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

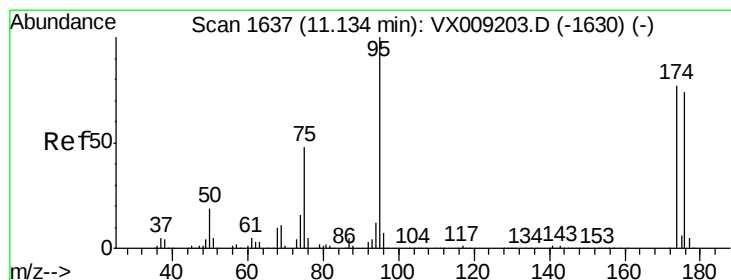
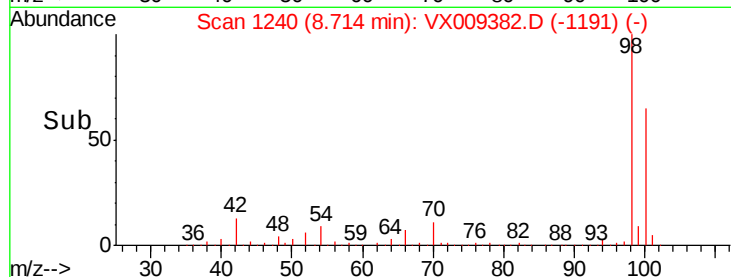
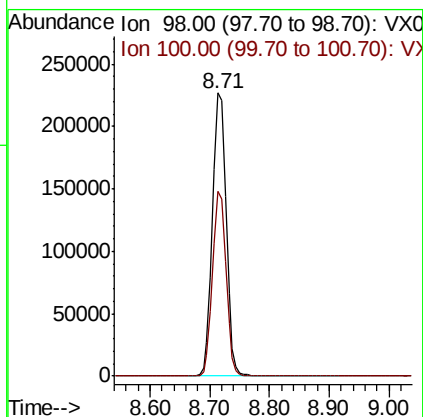
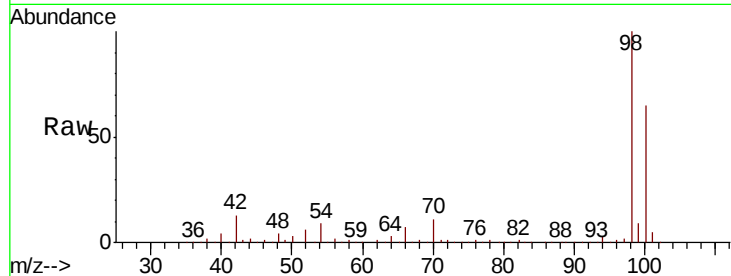




#50  
Toluene-d8  
Concen: 49.220 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

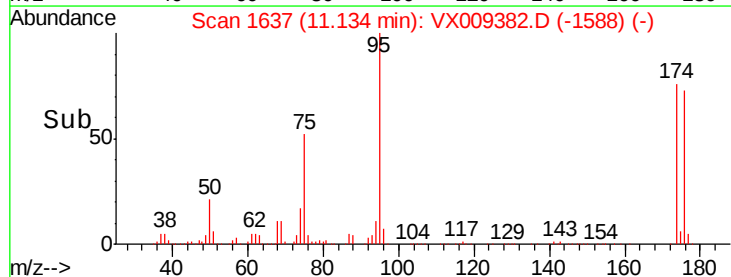
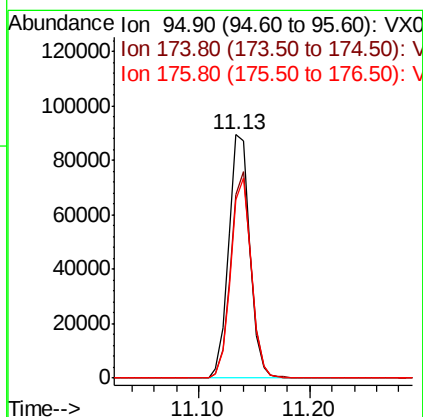
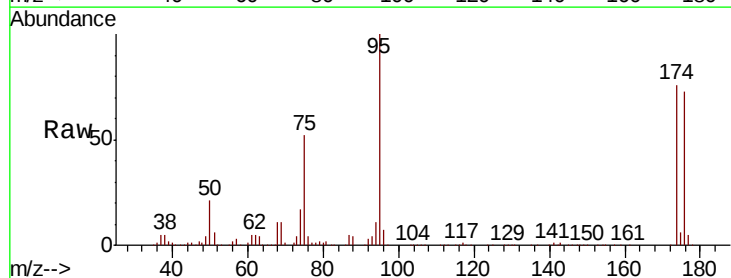
Instrument :  
MSVOA\_X  
ClientSampled :  
RB-190506

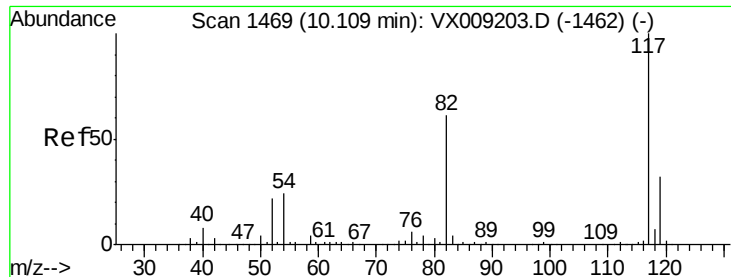
Tot Ion: 98 Resp: 357755  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 44.597 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Tgt Ion: 95 Resp: 117786  
Ion Ratio Lower Upper  
95 100  
174 81.8 0.0 161.6  
176 80.0 0.0 159.2

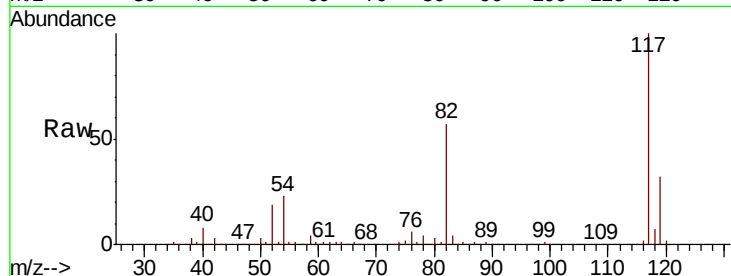




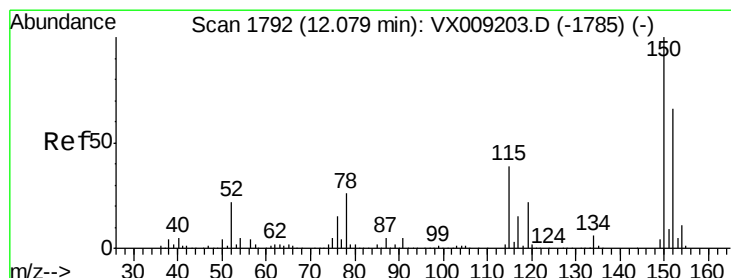
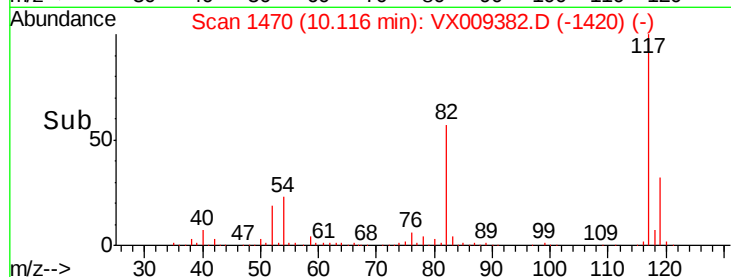
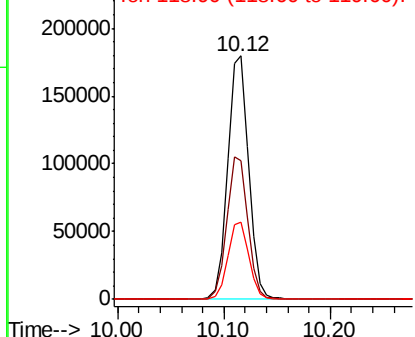
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
RB-190506

Tot Ion:117 Resp: 248710  
Ion Ratio Lower Upper  
117 100  
82 57.2 48.8 73.2  
119 31.7 25.8 38.6

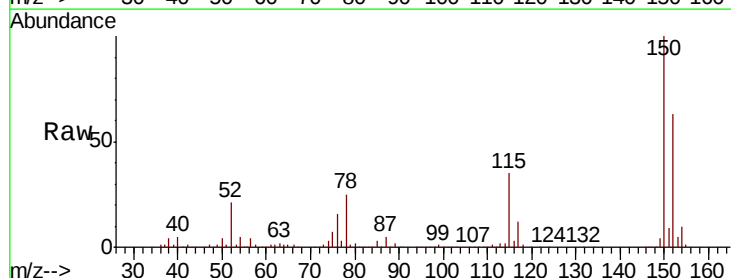


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

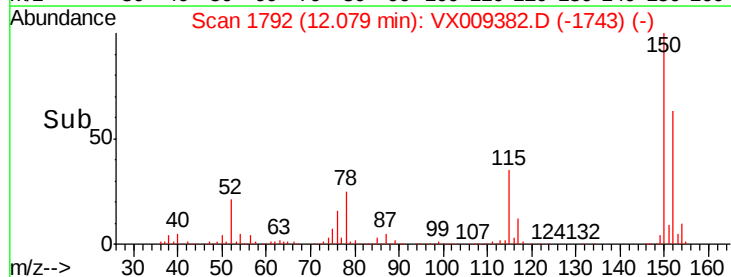
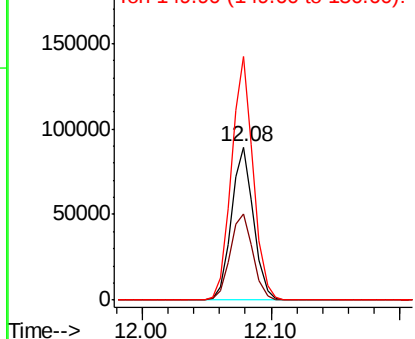


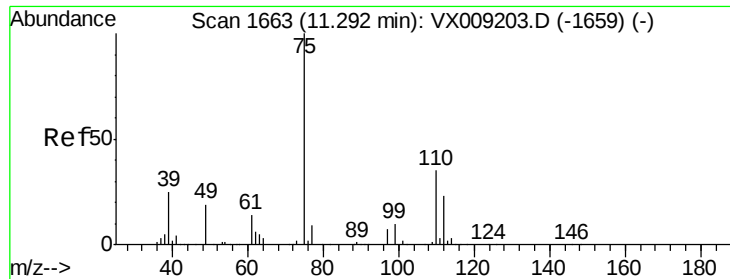
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX009382.D  
Acq: 07 May 2019 17:18

Tgt Ion:152 Resp: 107091  
Ion Ratio Lower Upper  
152 100  
115 58.2 41.2 123.6  
150 156.6 0.0 346.4



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: 23.841 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

Instrument :

MSVOA\_X

ClientSampleId :

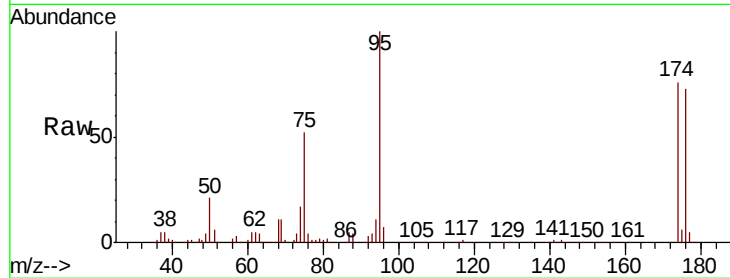
RB-190506

Tot Ion: 75 Resp: 59224

Ion Ratio Lower Upper

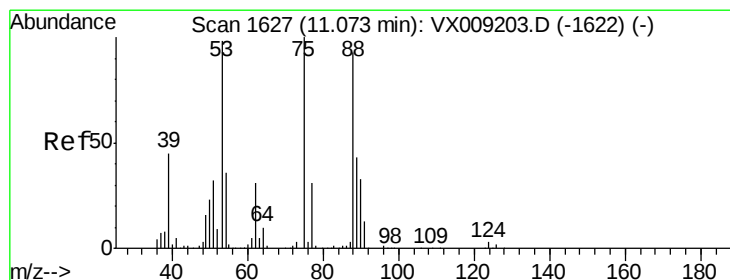
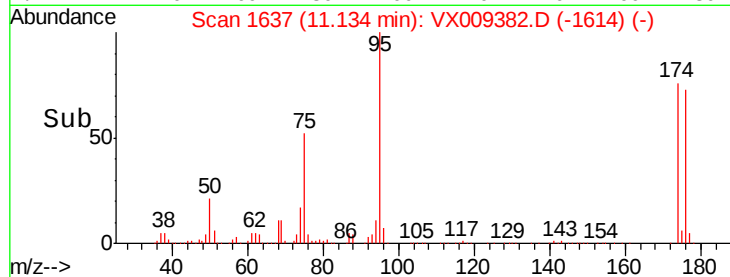
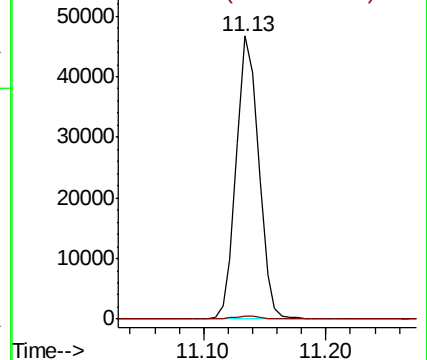
75 100

77 1.4 22.1 66.1#



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: 61.001 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009382.D

Acq: 07 May 2019 17:18

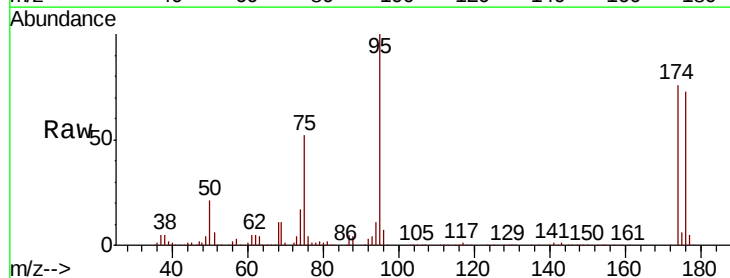
Tgt Ion: 75 Resp: 59224

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

