

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX100419\  
 Data File : VX012813.D  
 Acq On : 04 Oct 2019 15:48  
 Operator : JC/SP  
 Sample : K5189-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-PZ138I-20191001

Quant Time: Oct 05 04:23:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 178134   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 310225   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 260330   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 102478   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 121378   | 46.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.58%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 92805    | 50.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.46% |          |
| 50) Toluene-d8              | 8.71  | 98   | 361907   | 50.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.74% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 124920   | 44.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.30%  |          |

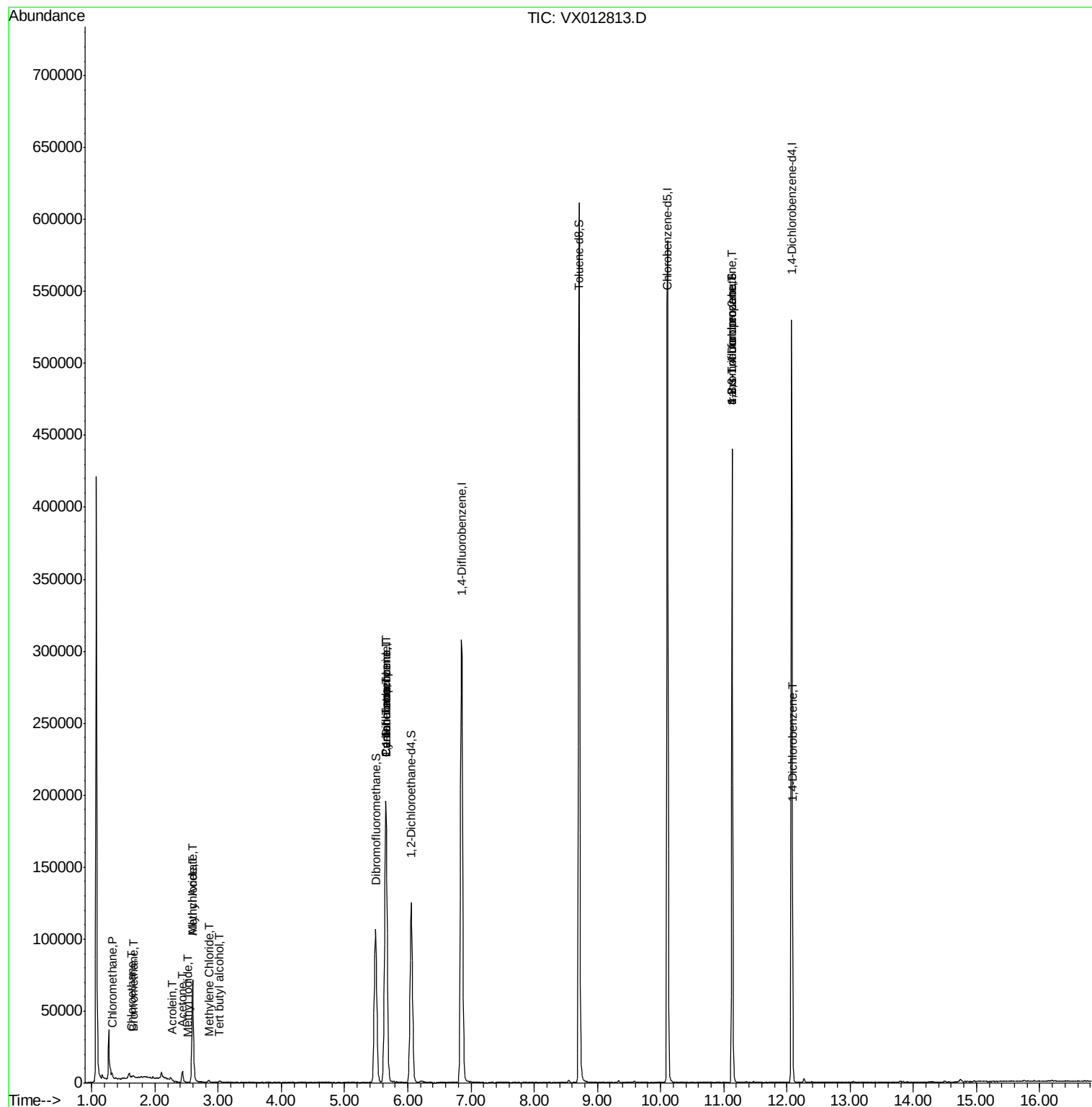
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1925     | 0.837  | ug/l # | 72     |
| 5) Bromomethane                | 1.65  | 94   | 406      | 0.451  | ug/l # | 67     |
| 6) Chloroethane                | 1.63  | 64   | 1977     | 1.282  | ug/l # | 61     |
| 10) Methyl Iodide              | 2.52  | 142  | 48       | 4.974  | ug/l # | 56     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1349     | 2.082  | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 204      | 10.775 | ug/l # | 15     |
| 14) Allyl chloride             | 2.59  | 41   | 6972     | 1.835  | ug/l # | 67     |
| 16) Acetone                    | 2.44  | 43   | 7705     | 5.608  | ug/l # | 86     |
| 18) Methyl Acetate             | 2.59  | 43   | 17820    | 5.508  | ug/l # | 54     |
| 20) Methylene Chloride         | 2.85  | 84   | 652      | 0.281  | ug/l # | 55     |
| 31) Cyclohexane                | 5.65  | 56   | 3866     | 1.071  | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14633    | 4.894  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18891    | 6.219  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 62668    | 23.118 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 62668    | 66.251 | ug/l # | 8      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 795      | 0.231  | ug/l # | 1      |

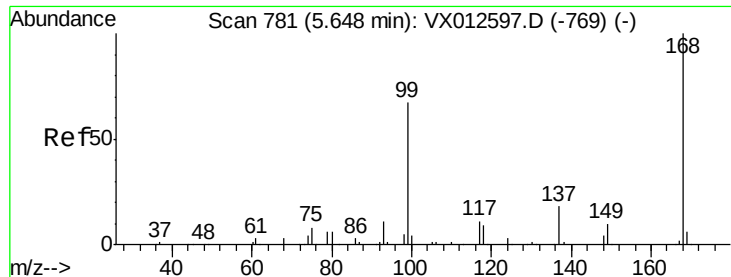
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

Instrument :

MSVOA\_X

ClientSampleId :

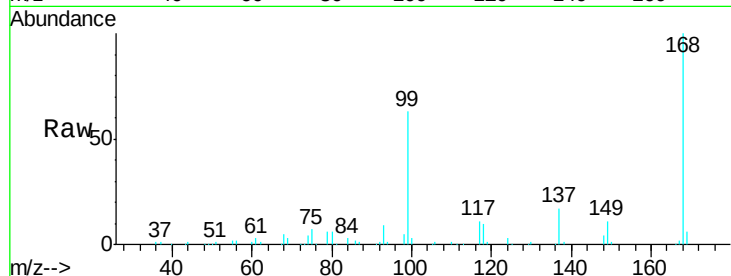
SA-PZ138I-20191001

Tgt Ion:168 Resp: 178134

Ion Ratio Lower Upper

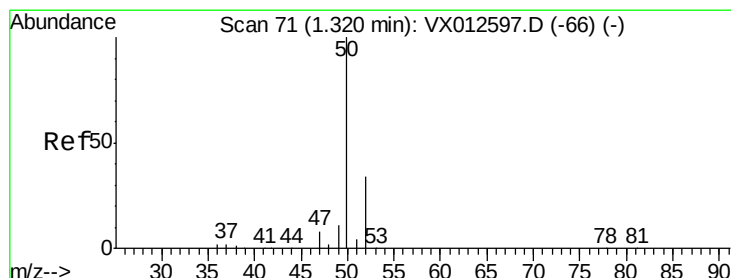
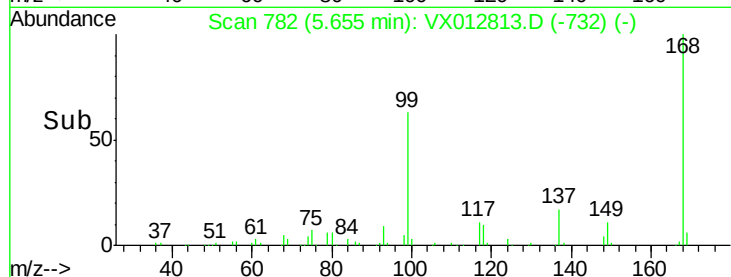
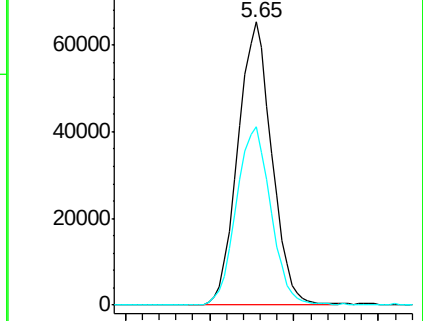
168 100

99 63.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.837 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012813.D

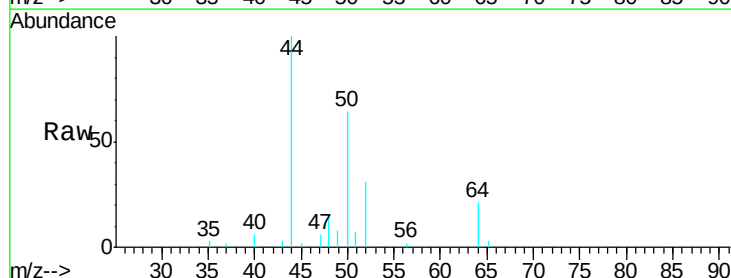
Acq: 04 Oct 2019 15:48

Tgt Ion: 50 Resp: 1925

Ion Ratio Lower Upper

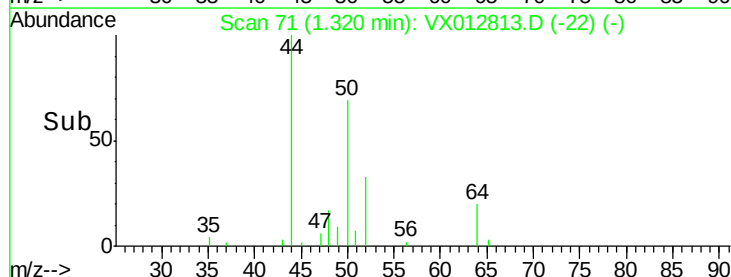
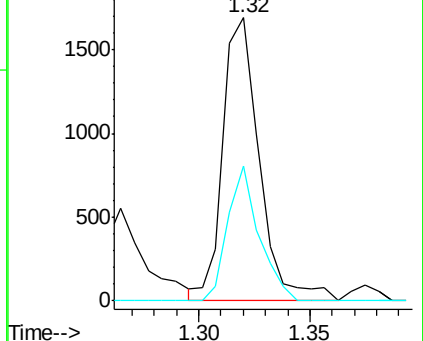
50 100

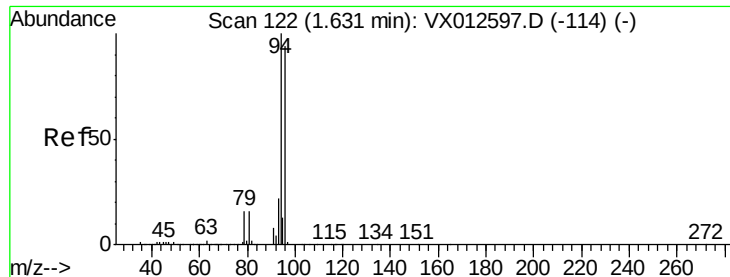
52 47.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.451 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

Instrument :

MSVOA\_X

ClientSampleId :

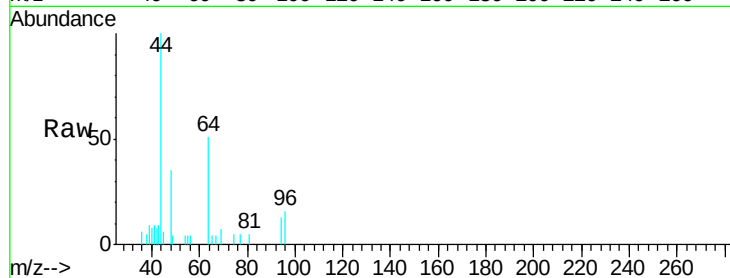
SA-PZ138I-20191001

Tgt Ion: 94 Resp: 406

Ion Ratio Lower Upper

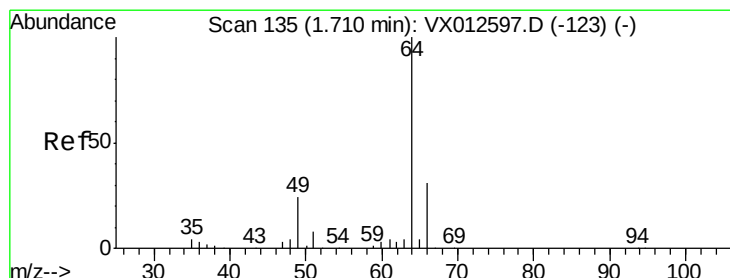
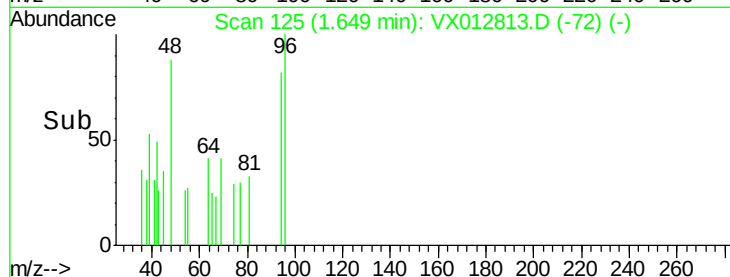
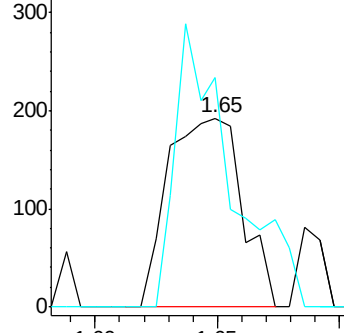
94 100

96 121.9 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.282 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.08 min

Lab File: VX012813.D

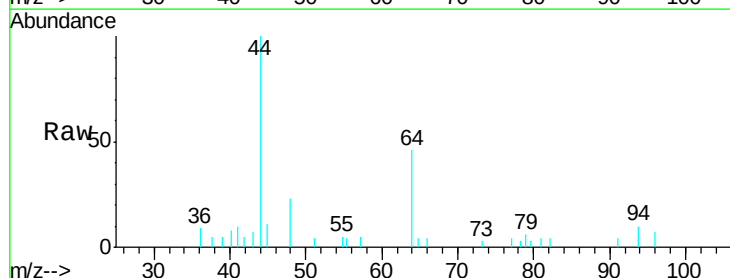
Acq: 04 Oct 2019 15:48

Tgt Ion: 64 Resp: 1977

Ion Ratio Lower Upper

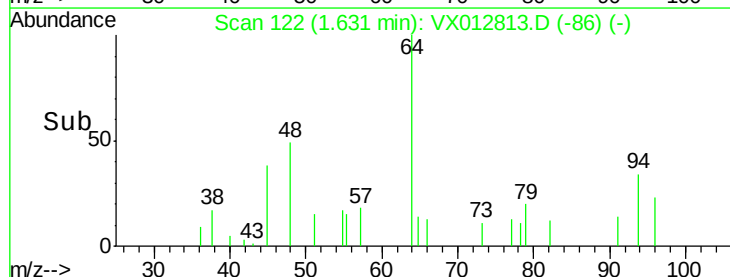
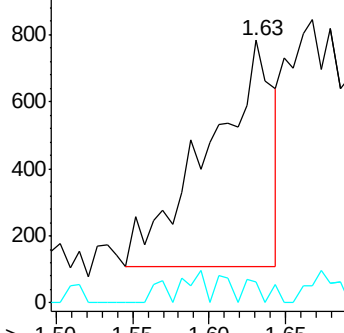
64 100

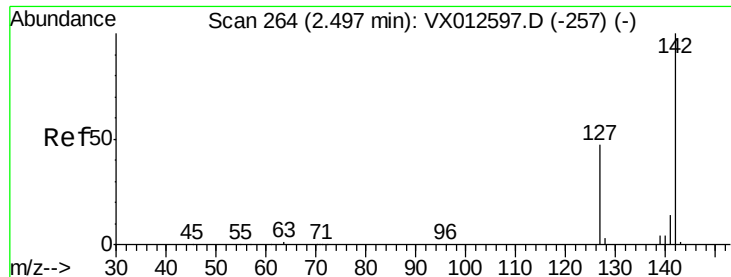
66 9.1 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

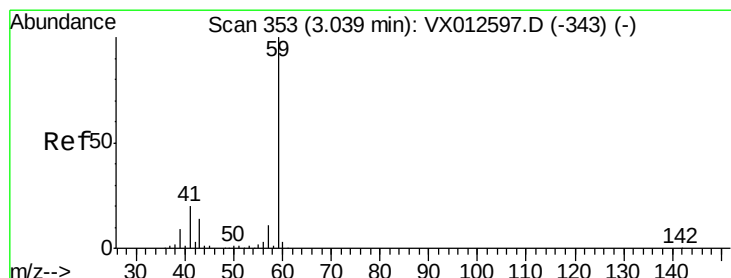
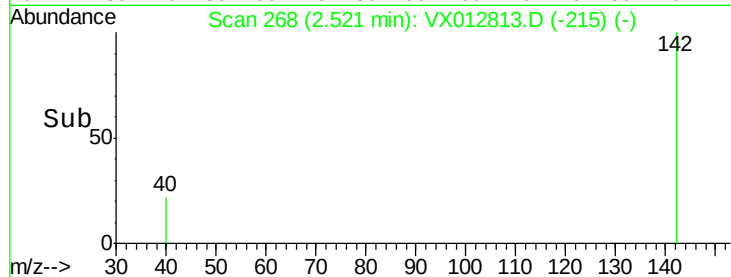
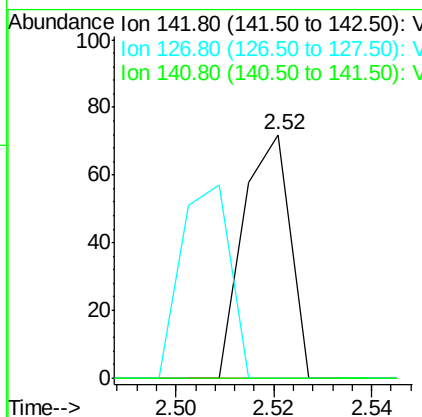
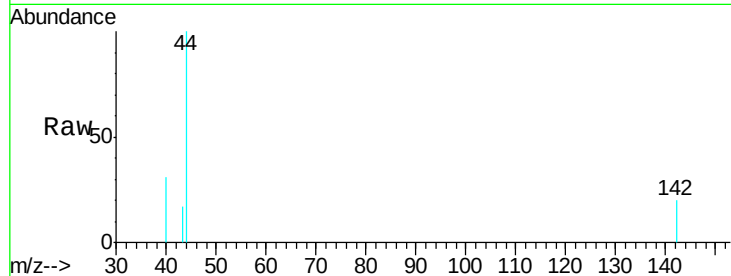




#10  
Methyl Iodide  
Concen: 4.974 ug/l  
RT: 2.52 min Scan# 268  
Delta R.T. 0.02 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

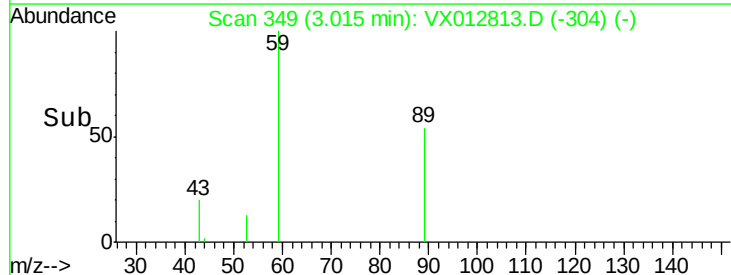
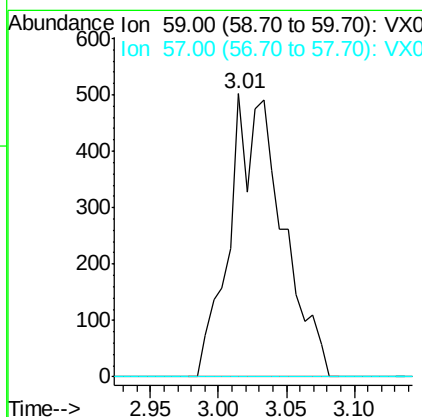
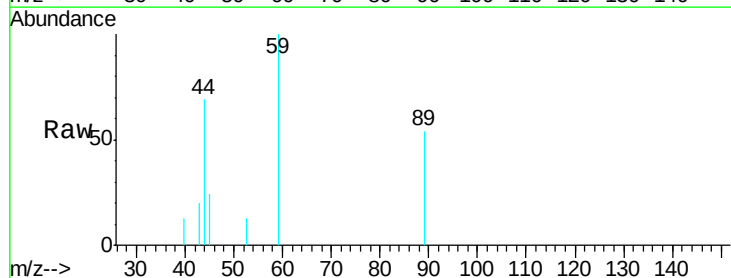
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SA-PZ138I-20191001

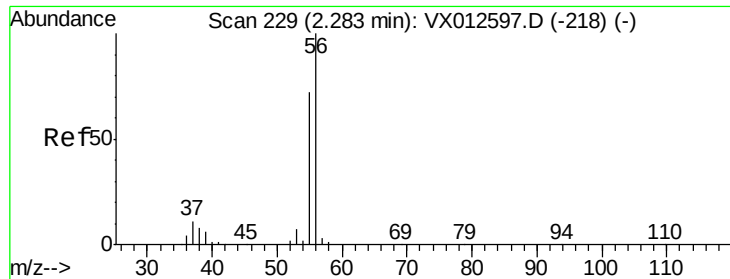
Tgt Ion: 142 Resp: 48  
Ion Ratio Lower Upper  
142 100  
127 83.3 40.8 61.2#  
141 0.0 12.1 18.1#



#11  
Tert butyl alcohol  
Concen: 2.082 ug/l  
RT: 3.01 min Scan# 349  
Delta R.T. -0.02 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Tgt Ion: 59 Resp: 1349  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.775 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

Instrument :

MSVOA\_X

ClientSampleId :

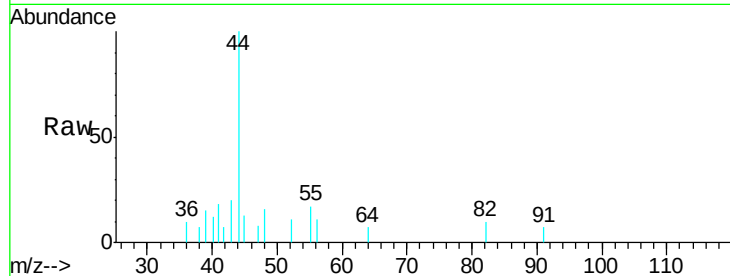
SA-PZ138I-20191001

Tgt Ion: 56 Resp: 204

Ion Ratio Lower Upper

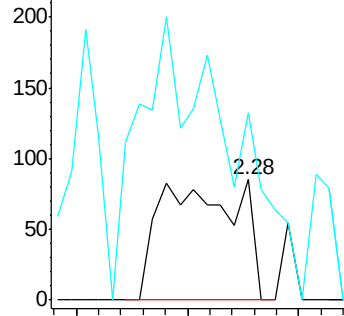
56 100

55 0.0 55.8 83.8#

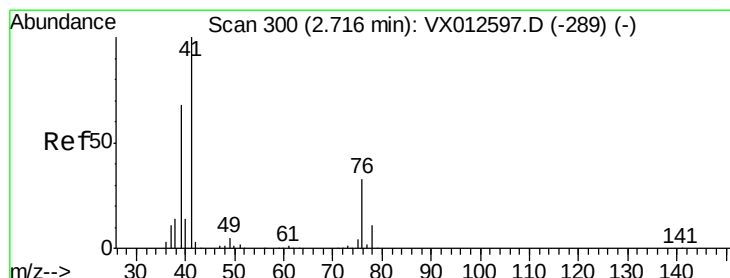
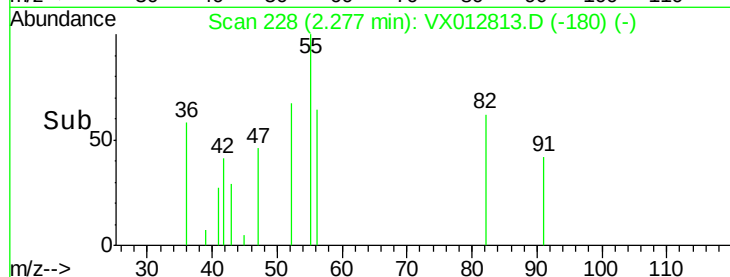


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#14

Allyl chloride

Concen: 1.835 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

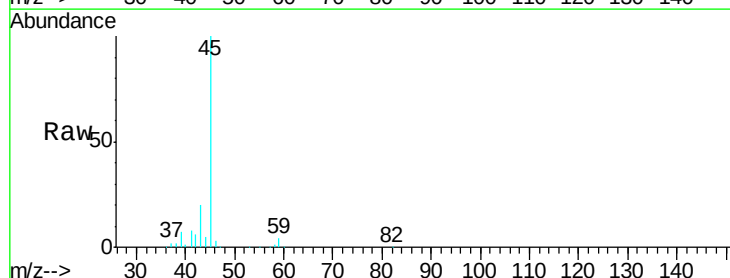
Tgt Ion: 41 Resp: 6972

Ion Ratio Lower Upper

41 100

39 83.1 51.3 76.9#

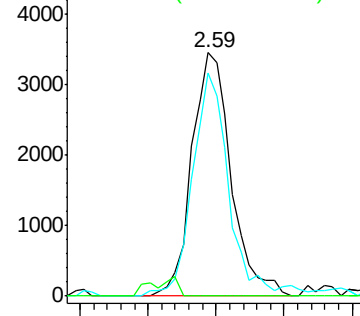
76 0.0 22.6 33.8#



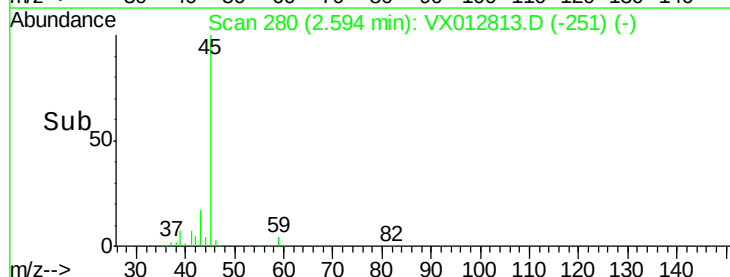
Abundance Ion 41.00 (40.70 to 41.70): VX0

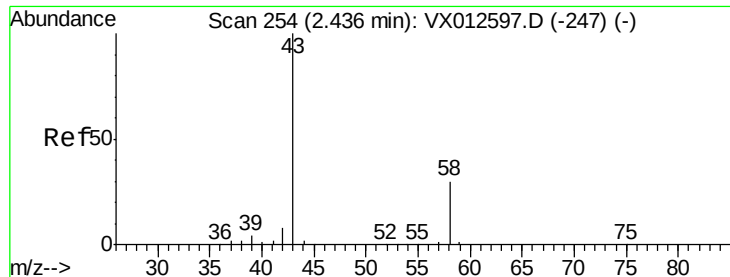
Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



Time-->





#16

Acetone

Concen: 5.608 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

Instrument :

MSVOA\_X

ClientSampleId :

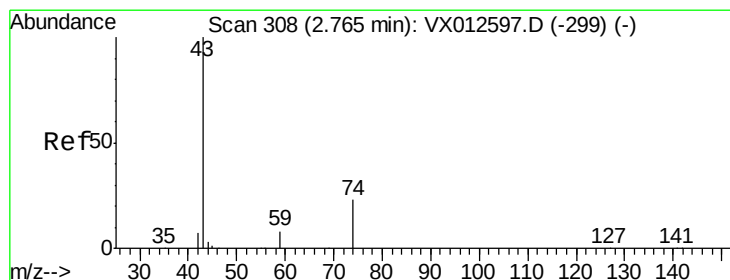
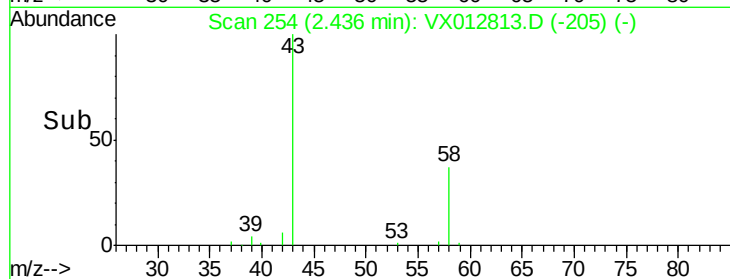
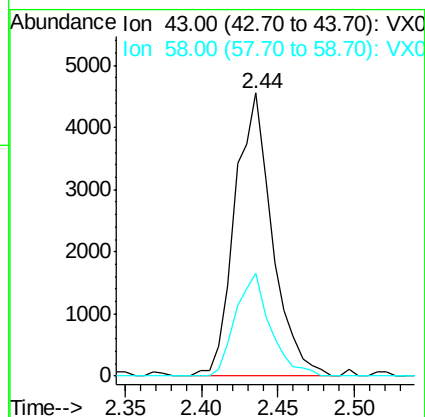
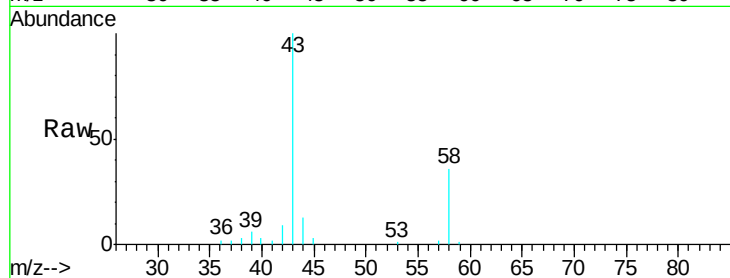
SA-PZ138I-20191001

Tgt Ion: 43 Resp: 7705

Ion Ratio Lower Upper

43 100

58 36.3 23.3 34.9#



#18

Methyl Acetate

Concen: 5.508 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012813.D

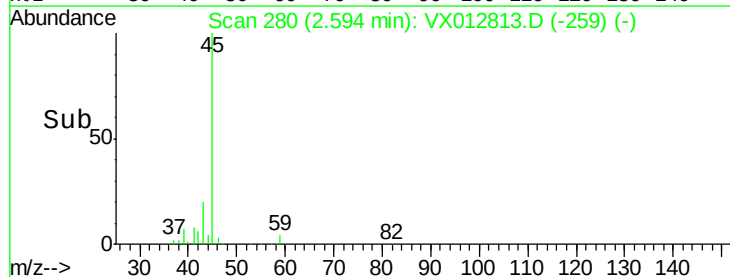
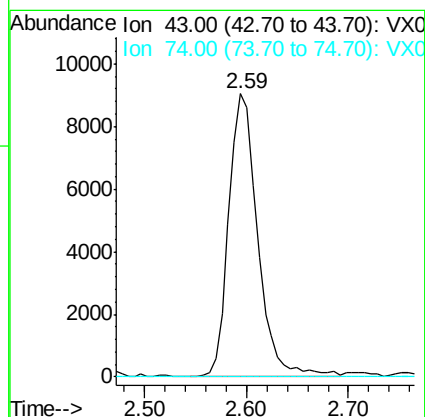
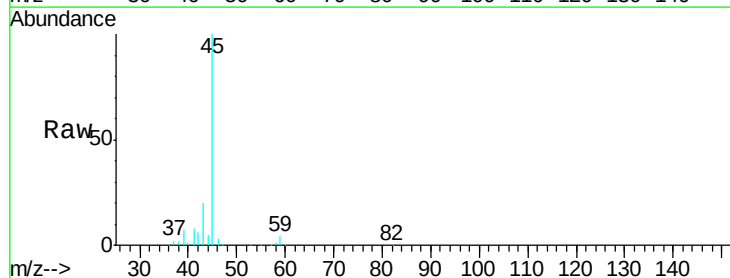
Acq: 04 Oct 2019 15:48

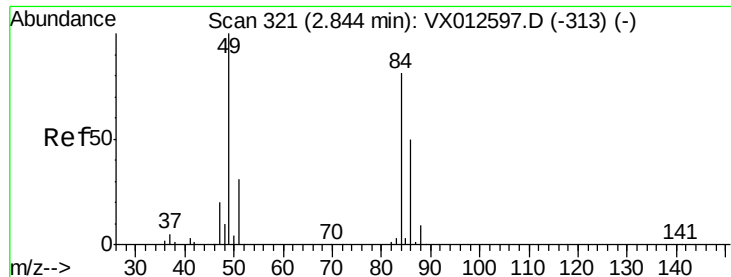
Tgt Ion: 43 Resp: 17820

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#20

Methylene Chloride

Concen: 0.281 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

Instrument :

MSVOA\_X

ClientSampleId :

SA-PZ138I-20191001

Tgt Ion: 84 Resp: 652

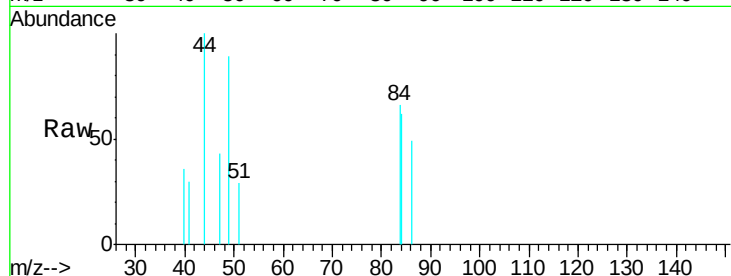
Ion Ratio Lower Upper

84 100

49 69.0 106.8 160.2#

51 22.3 32.3 48.5#

86 37.8 51.3 76.9#

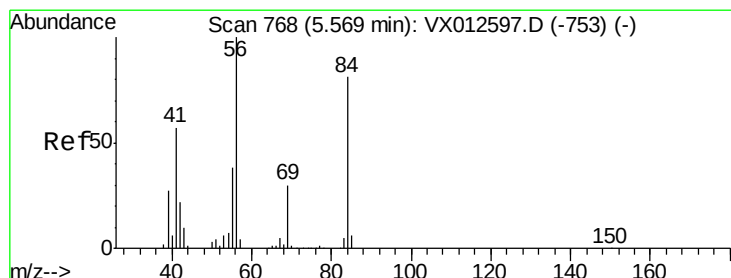
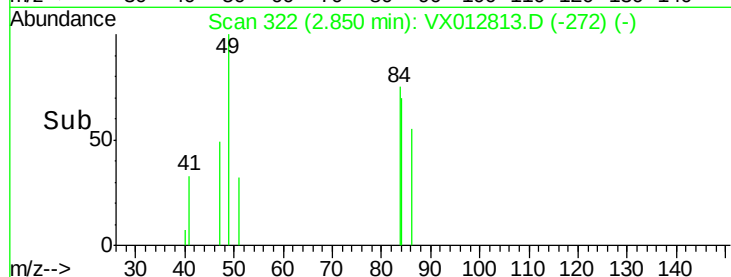
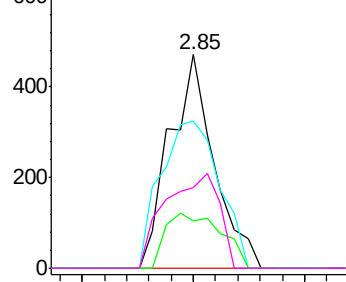


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.071 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

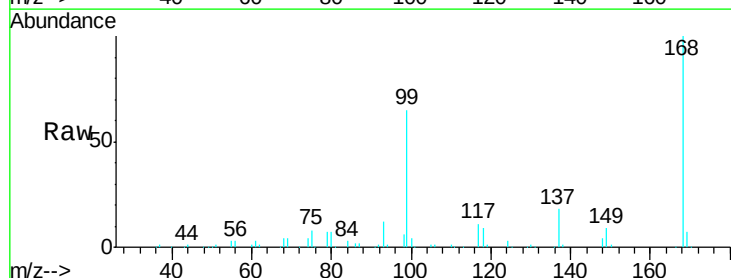
Tgt Ion: 56 Resp: 3866

Ion Ratio Lower Upper

56 100

69 173.7 25.0 37.6#

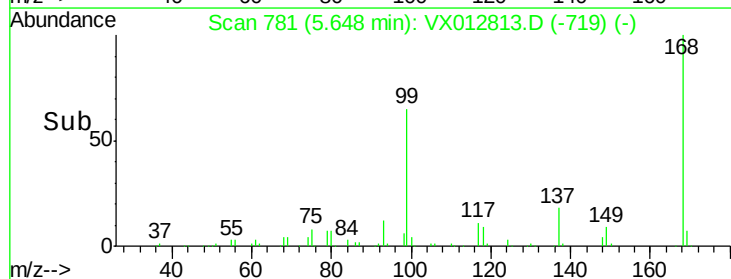
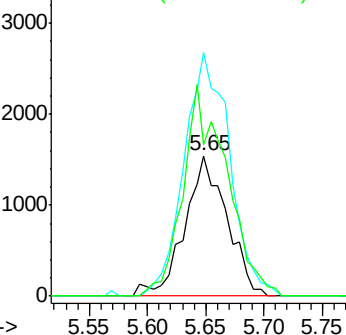
84 107.7 66.4 99.6#



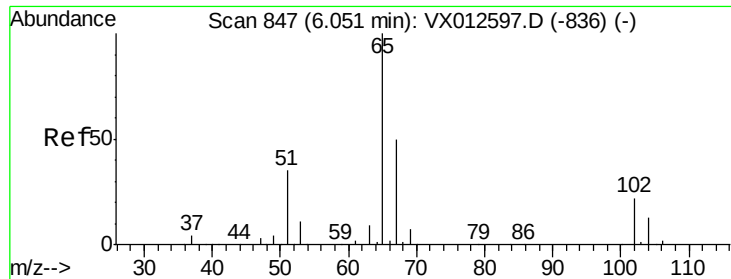
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



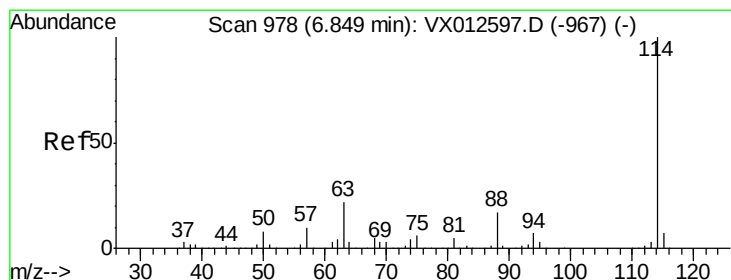
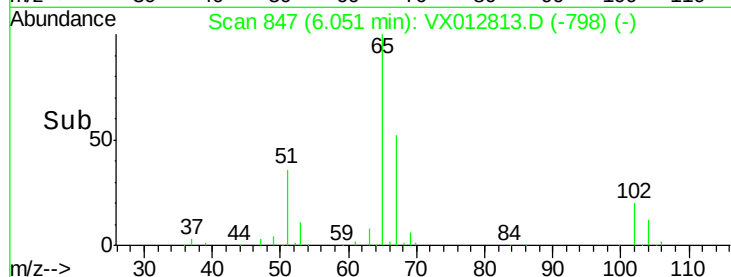
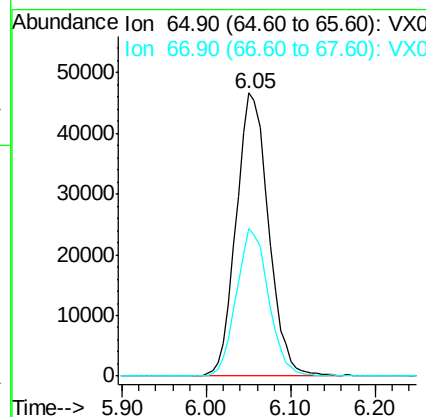
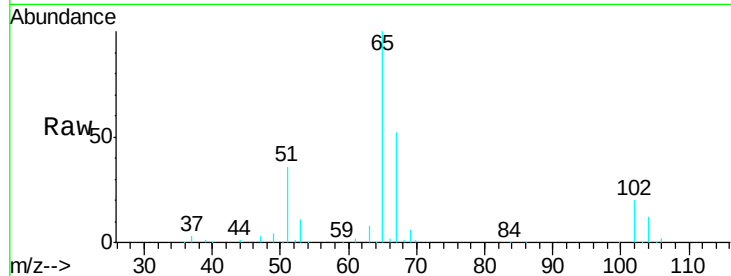




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.792 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX012813.D  
 Acq: 04 Oct 2019 15:48

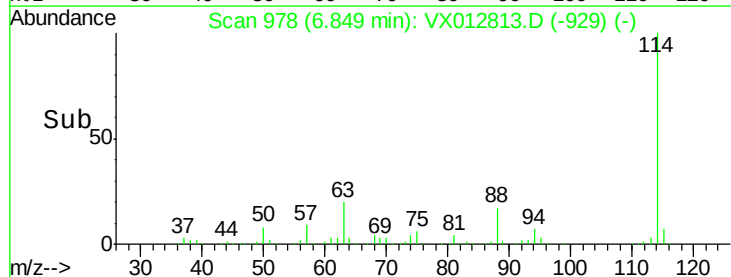
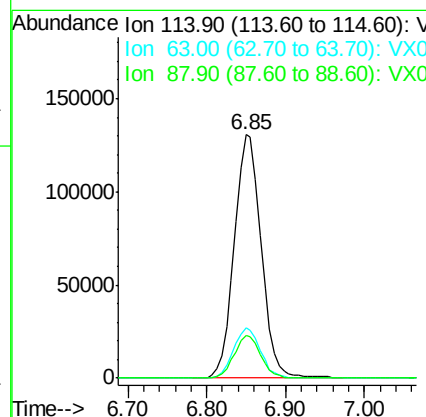
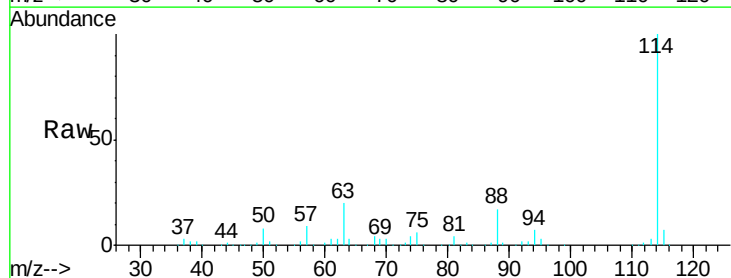
Instrument :  
 MSVOA\_X  
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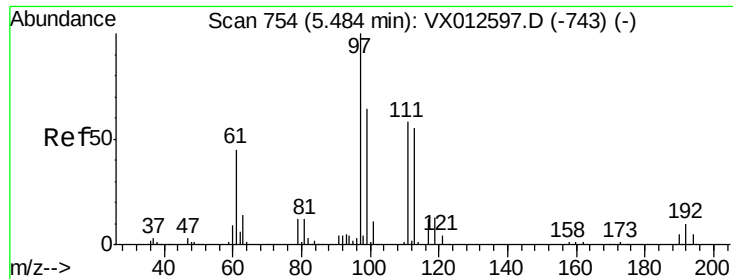
Tgt Ion: 65 Resp: 121378  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 101.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX012813.D  
 Acq: 04 Oct 2019 15:48

Tgt Ion: 114 Resp: 310225  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 43.2  
 88 17.3 0.0 33.2

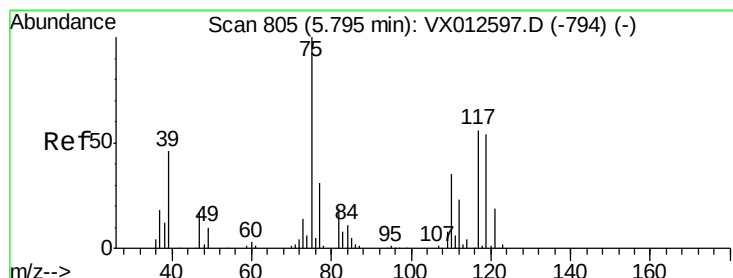
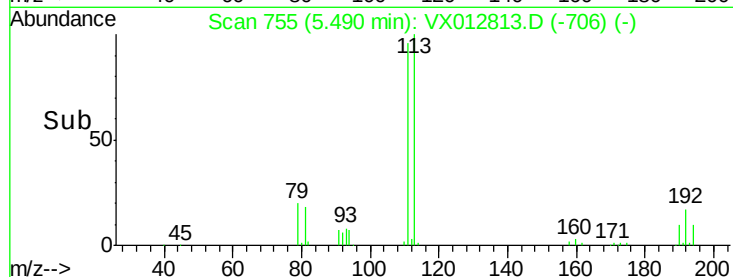
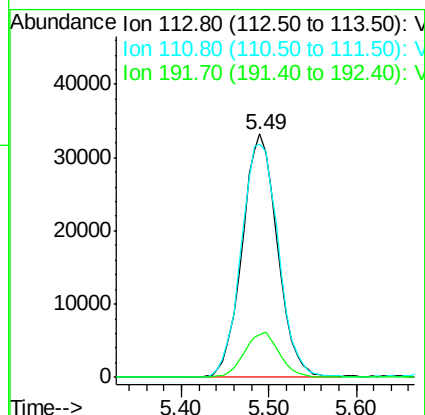
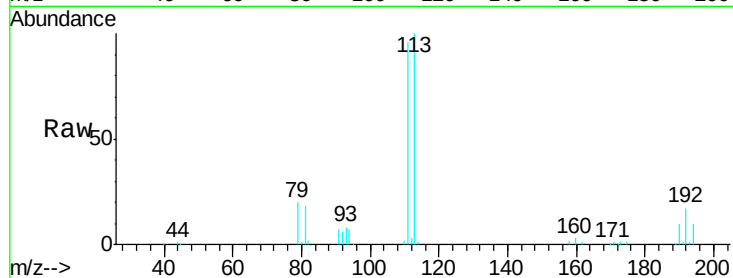




#35  
Dibromofluoromethane  
Concen: 50.232 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. 0.00 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

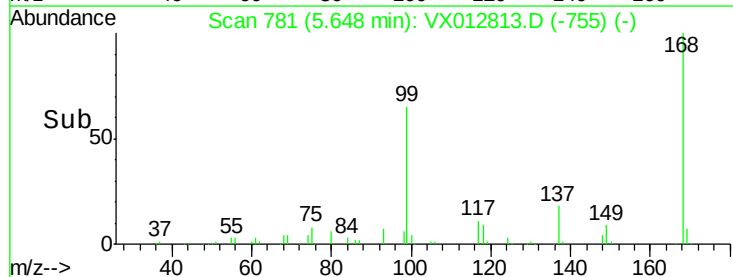
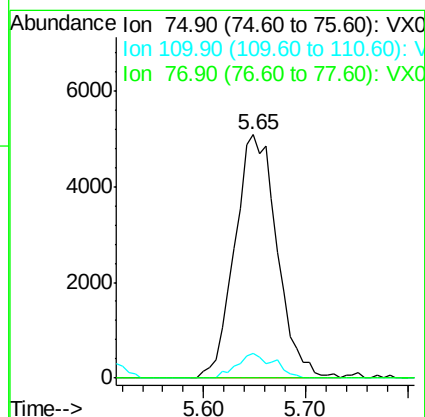
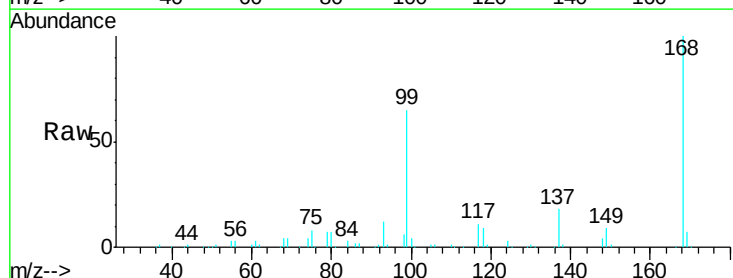
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ138I-20191001

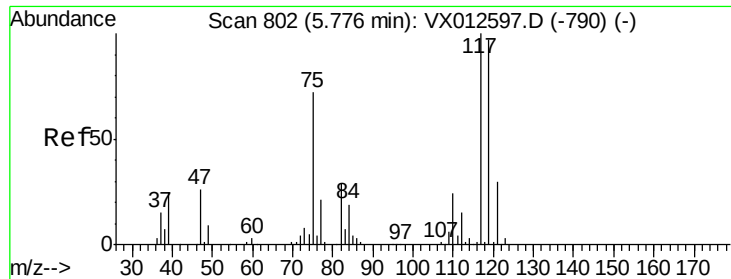
Tgt Ion:113 Resp: 92805  
Ion Ratio Lower Upper  
113 100  
111 102.1 83.4 125.2  
192 18.4 14.4 21.6



#36  
1,1-Dichloropropene  
Concen: 4.894 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. -0.14 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Tgt Ion: 75 Resp: 14633  
Ion Ratio Lower Upper  
75 100  
110 8.8 16.7 50.0#  
77 0.0 24.2 36.2#

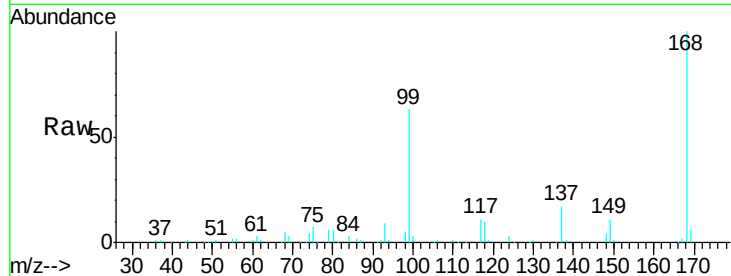




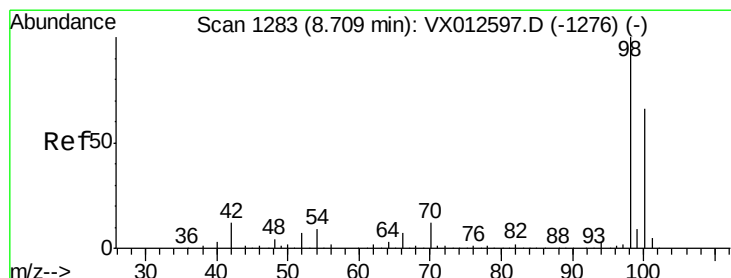
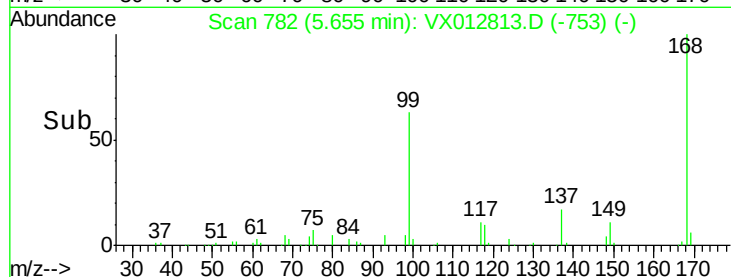
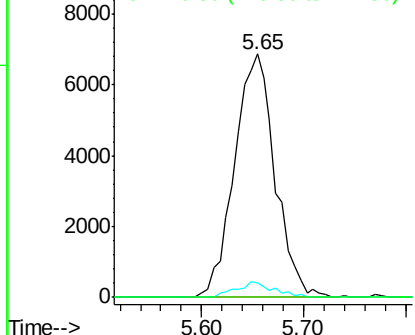
#38  
Carbon Tetrachloride  
Concen: 6.219 ug/l  
RT: 5.65 min Scan# 782  
Delta R.T. -0.12 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tgt Ion:117 Resp: 18891  
Ion Ratio Lower Upper  
117 100  
119 5.8 75.7 113.5#  
121 0.0 24.2 36.4#

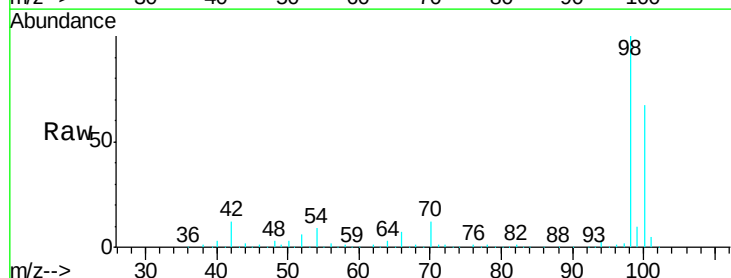


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

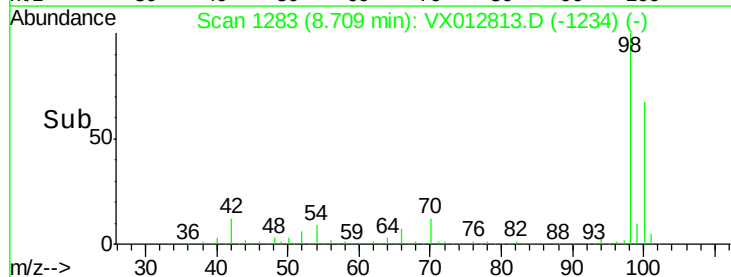
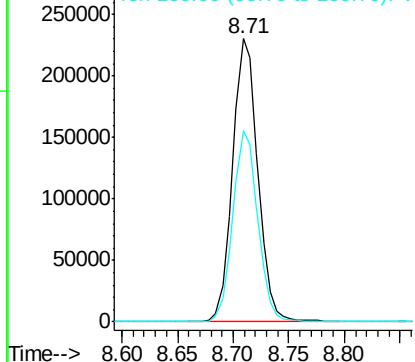


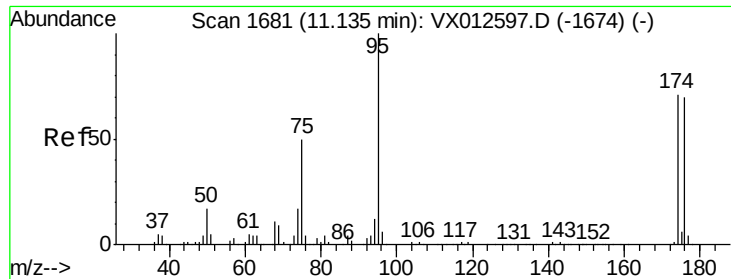
#50  
Toluene-d8  
Concen: 50.866 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Tgt Ion: 98 Resp: 361907  
Ion Ratio Lower Upper  
98 100  
100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

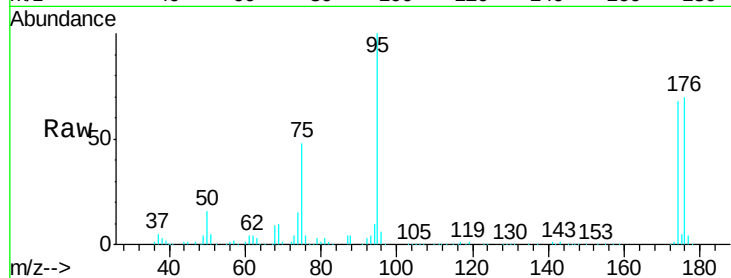




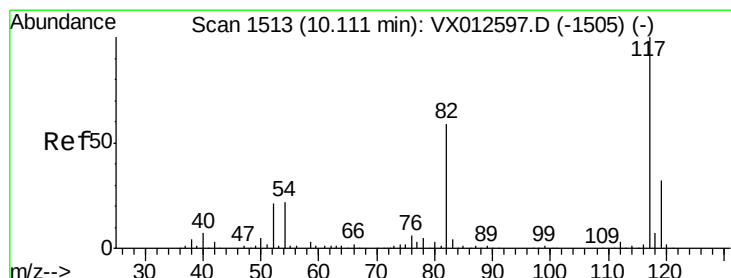
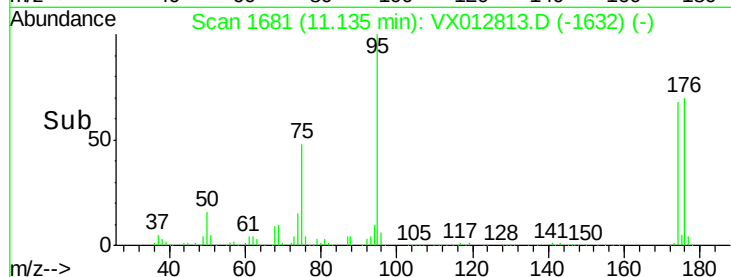
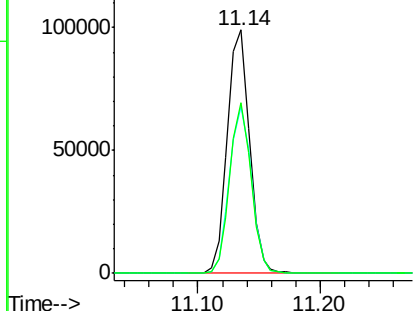
#62  
4-Bromofluorobenzene  
Concen: 44.652 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ138I-20191001

Tgt Ion: 95 Resp: 124920  
Ion Ratio Lower Upper  
95 100  
174 68.6 0.0 140.0  
176 67.7 0.0 135.4

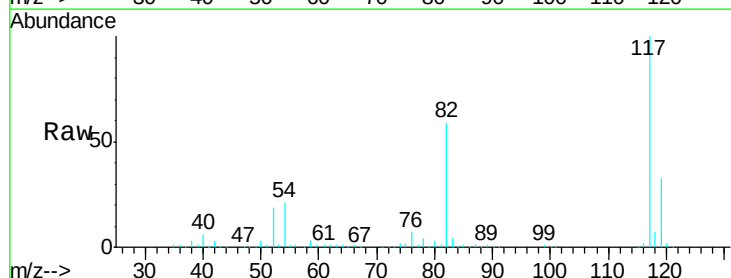


Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

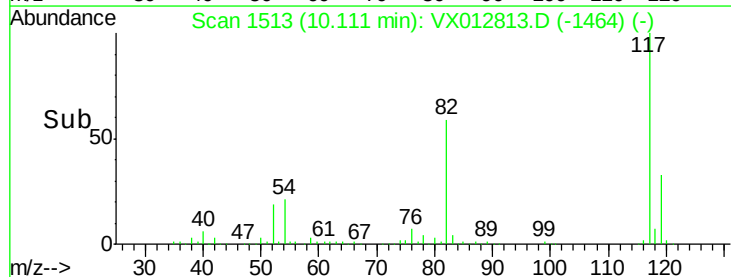
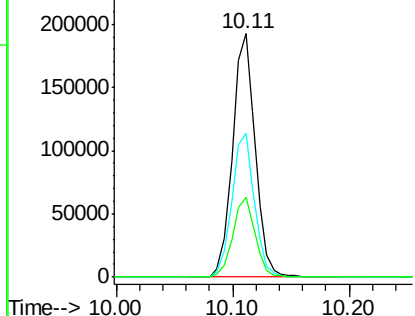


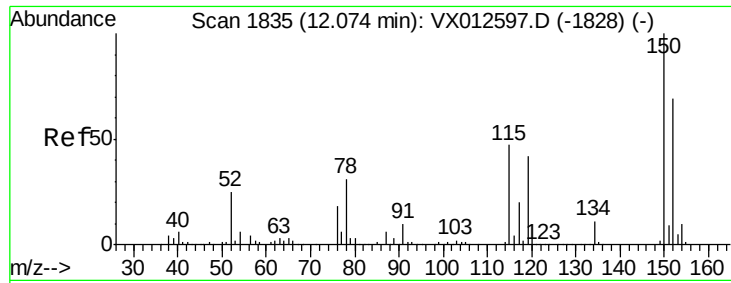
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Tgt Ion: 117 Resp: 260330  
Ion Ratio Lower Upper  
117 100  
82 58.8 45.9 68.9  
119 32.7 25.3 37.9



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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012813.D

Acq: 04 Oct 2019 15:48

Instrument :

MSVOA\_X

ClientSampleId :

SA-PZ138I-20191001

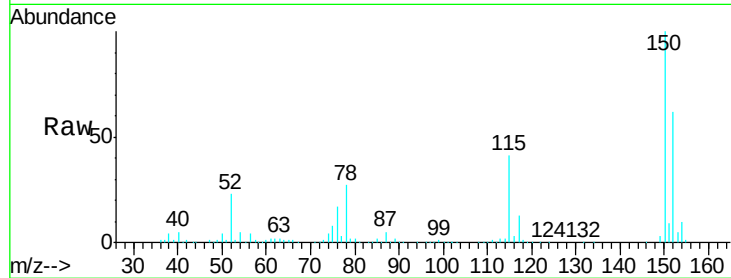
Tgt Ion:152 Resp: 102478

Ion Ratio Lower Upper

152 100

115 64.0 44.1 132.3

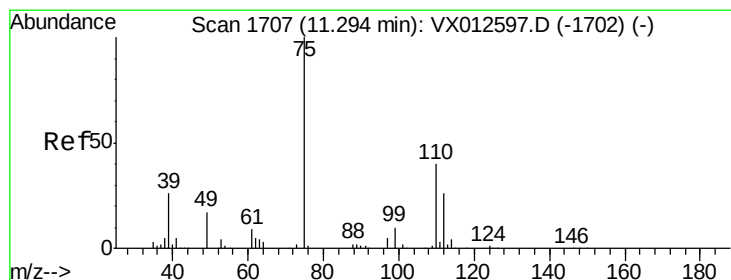
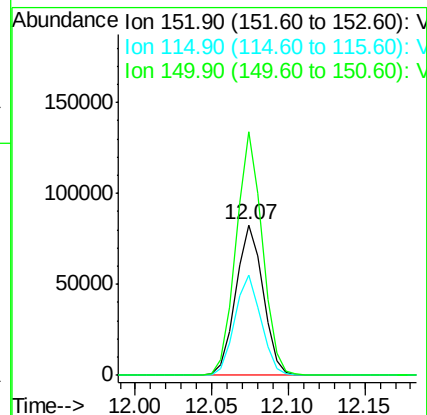
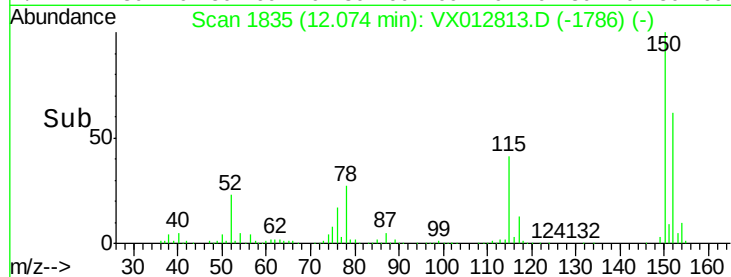
150 155.2 0.0 343.8



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: 23.118 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012813.D

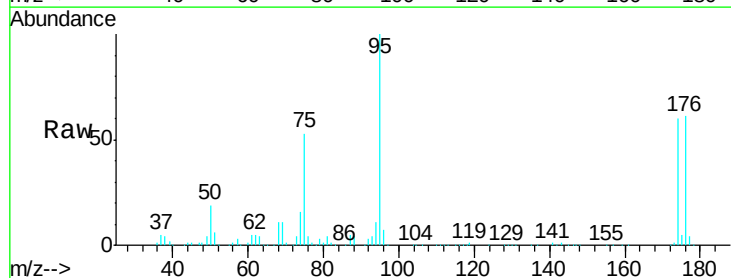
Acq: 04 Oct 2019 15:48

Tgt Ion: 75 Resp: 62668

Ion Ratio Lower Upper

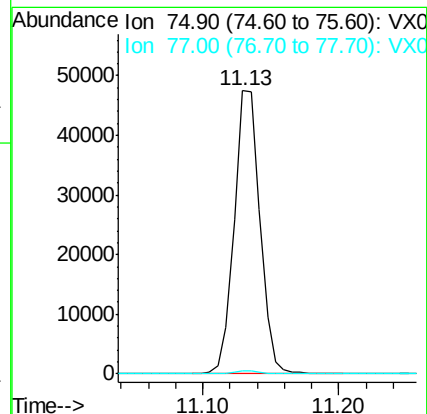
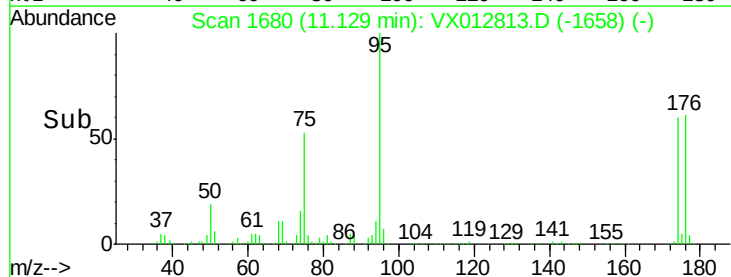
75 100

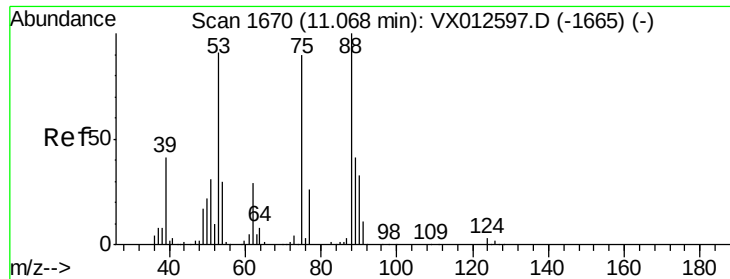
77 1.0 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

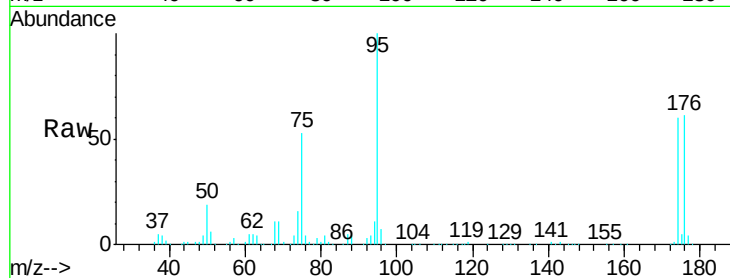




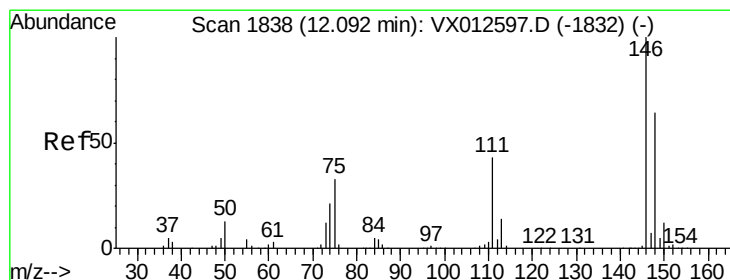
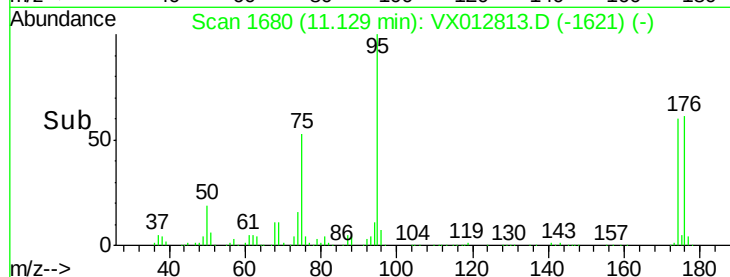
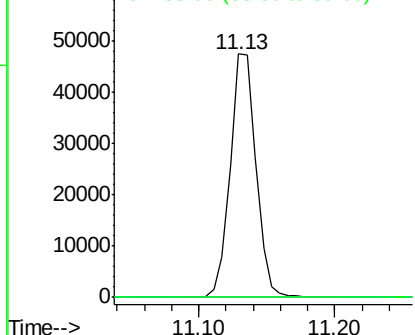
#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.251 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.06 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ138I-20191001

Tgt Ion: 75 Resp: 62668  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.6 125.4#  
89 0.0 36.3 54.5#

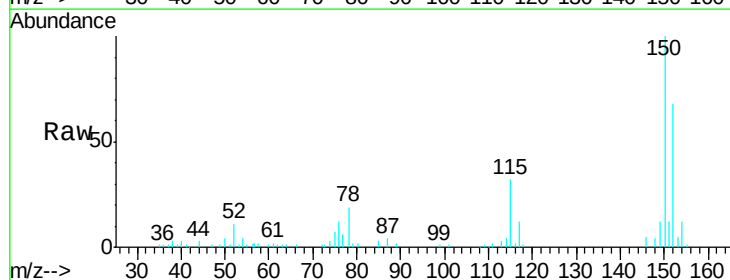


Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 53.00 (52.70 to 53.70): VX0  
Ion 88.90 (88.60 to 89.60): VX0



#88  
1,4-Dichlorobenzene  
Concen: 0.231 ug/l  
RT: 12.09 min Scan# 1838  
Delta R.T. 0.00 min  
Lab File: VX012813.D  
Acq: 04 Oct 2019 15:48

Tgt Ion: 146 Resp: 795  
Ion Ratio Lower Upper  
146 100  
111 226.7 21.1 63.3#  
148 91.4 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V

