

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX122619\  
 Data File : VX014261.D  
 Acq On : 26 Dec 2019 11:45  
 Operator : JC/SP  
 Sample : VX1226WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1226WBL01

Quant Time: Dec 27 05:56:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 553692   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 848003   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 767663   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 338103   | 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   | 307917   | 49.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 254903   | 49.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.90%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1012464  | 50.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.90% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 340626   | 46.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.86%  |          |

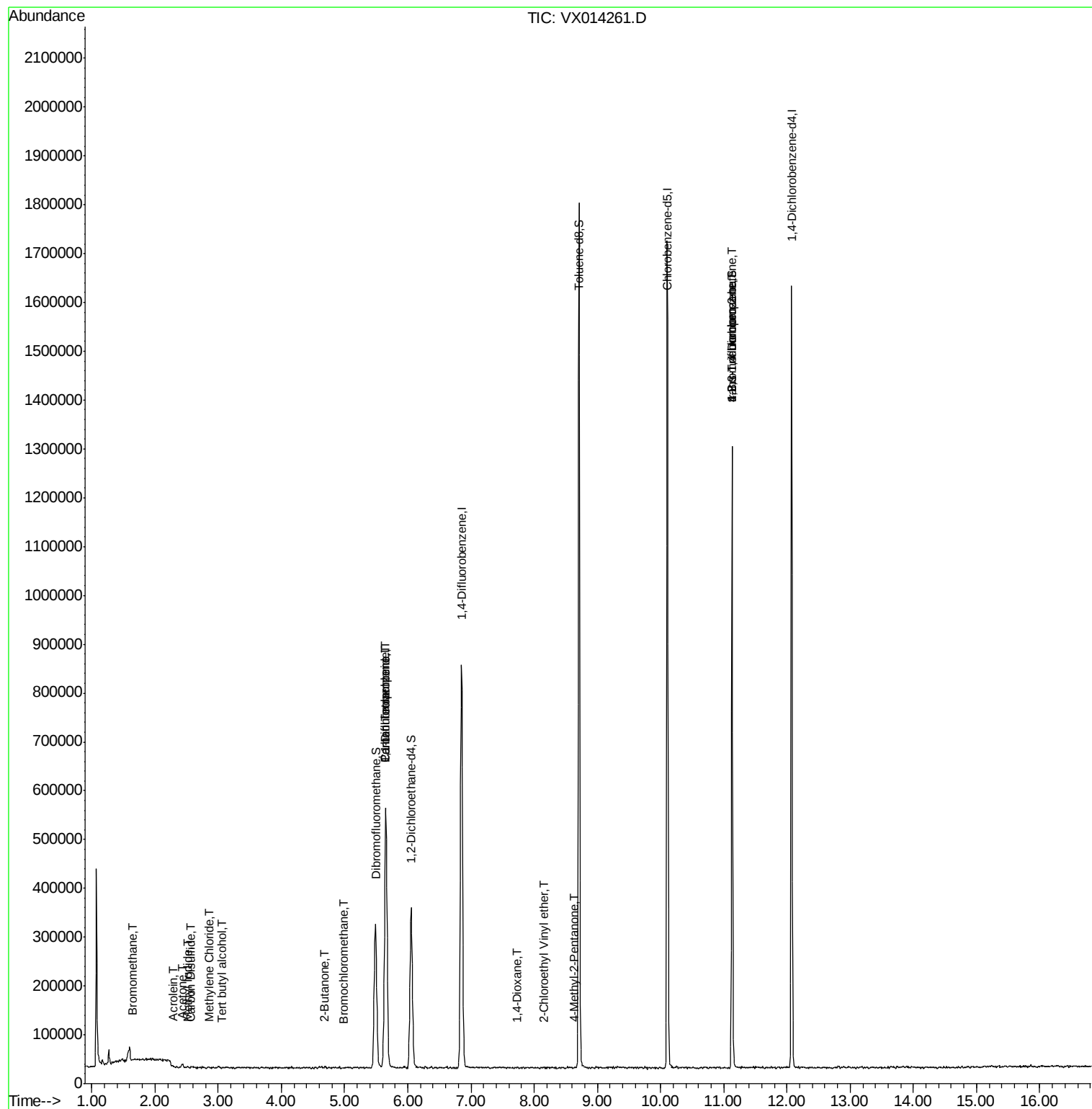
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 1715     | 0.344  | ug/l # | 28     |
| 10) Methyl Iodide              | 2.51  | 142  | 855      | 2.738  | ug/l # | 1      |
| 11) Tert butyl alcohol         | 3.06  | 59   | 289      | 0.213  | ug/l # | 1      |
| 13) Acrolein                   | 2.28  | 56   | 642      | 0.827  | ug/l # | 14     |
| 16) Acetone                    | 2.43  | 43   | 10736    | 2.635  | ug/l # | 80     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1322     | 0.838  | ug/l   | 99     |
| 20) Methylene Chloride         | 2.84  | 84   | 1518     | 0.237  | ug/l # | 49     |
| 25) 2-Butanone                 | 4.68  | 43   | 1621     | 0.323  | ug/l # | 52     |
| 28) Bromochloromethane         | 4.98  | 49   | 257      | 0.517  | ug/l # | 84     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 37032    | 4.759  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 48964    | 6.908  | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 216      | 1.524  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 2277     | 0.255  | ug/l # | 85     |
| 58) 2-Chloroethyl Vinyl ether  | 8.15  | 63   | 732      | 0.203  | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 164920   | 22.468 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 164920   | 63.417 | ug/l # | 11     |

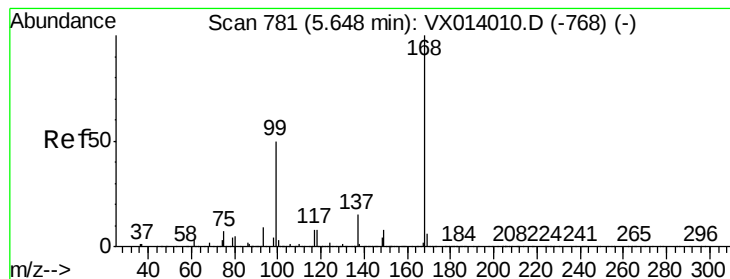
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX122619\  
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Operator : JC/SP  
Sample : VX1226WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1226WBL01

Quant Time: Dec 27 05:56:06 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampleId :

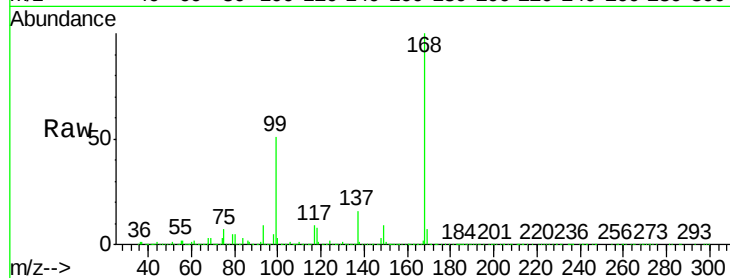
VX1226WBL01

Tgt Ion: 168 Resp: 553692

Ion Ratio Lower Upper

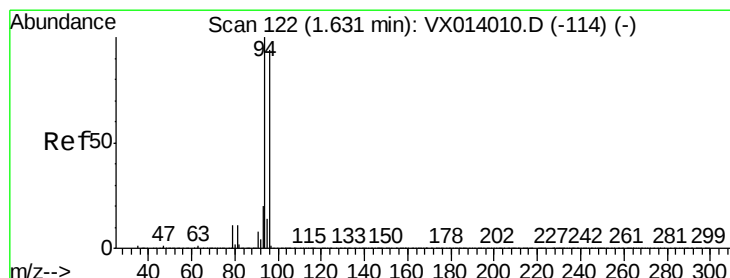
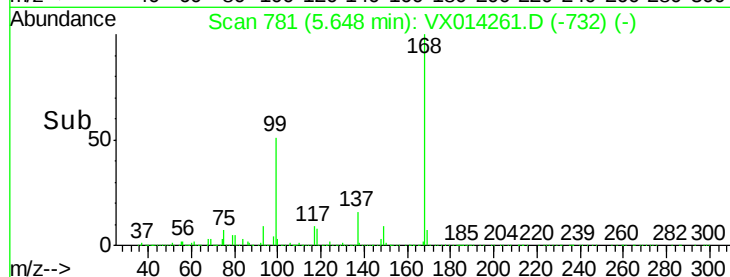
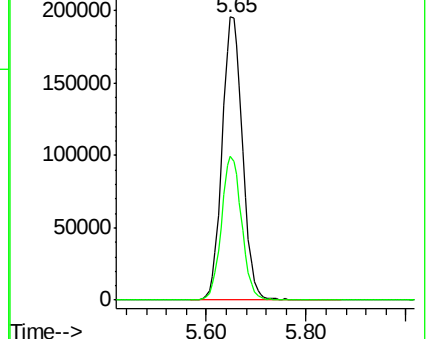
168 100

99 50.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.344 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014261.D

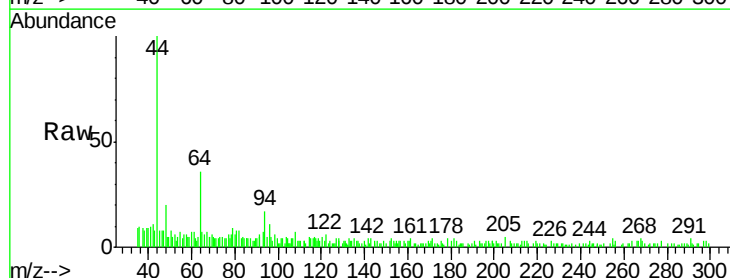
Acq: 26 Dec 2019 11:45

Tgt Ion: 94 Resp: 1715

Ion Ratio Lower Upper

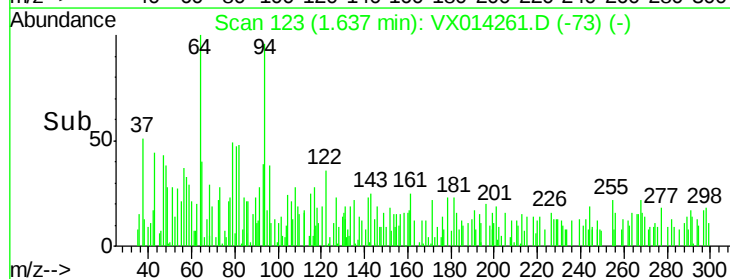
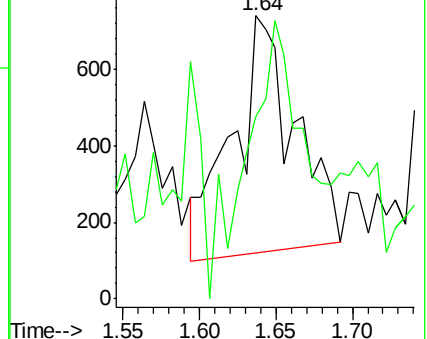
94 100

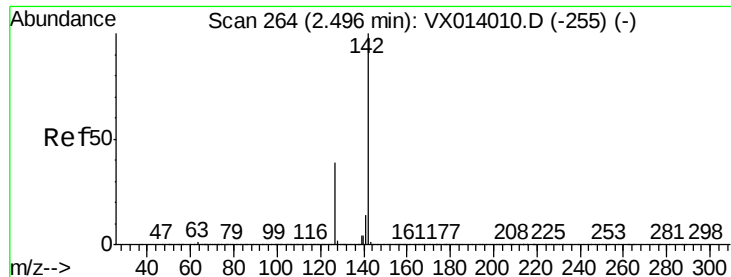
96 24.6 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

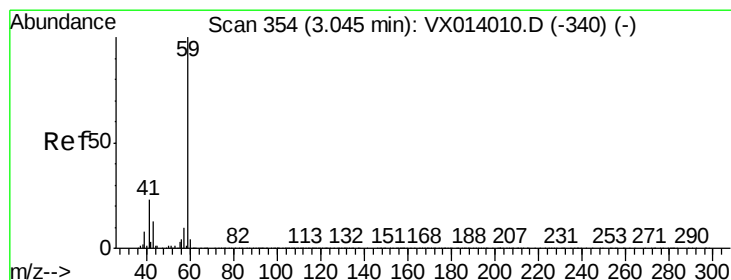
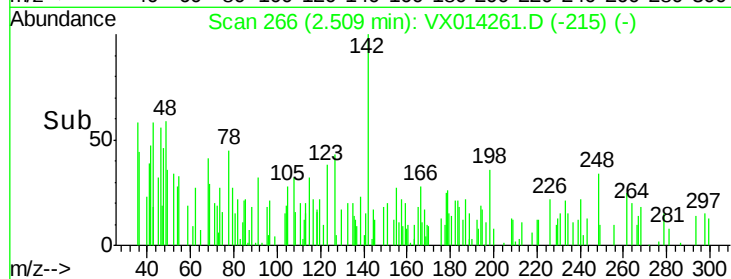
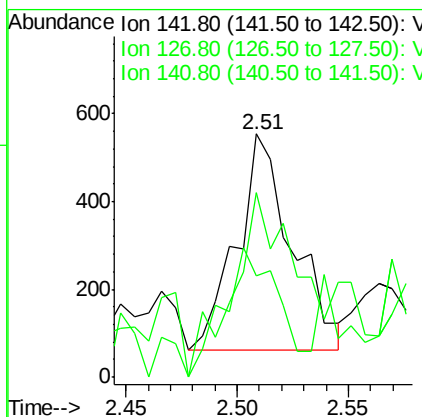
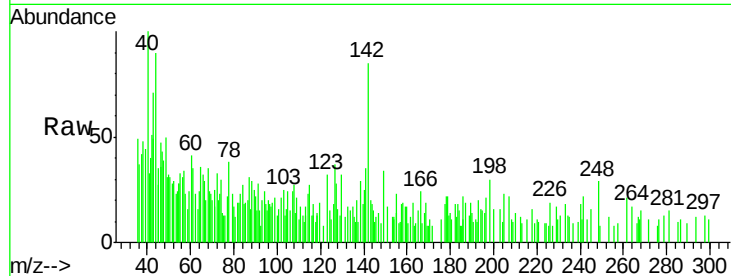




#10  
Methyl Iodide  
Concen: 2.738 ug/l  
RT: 2.51 min Scan# 266  
Delta R.T. 0.01 min  
Lab File: VX014261.D  
Acq: 26 Dec 2019 11:45

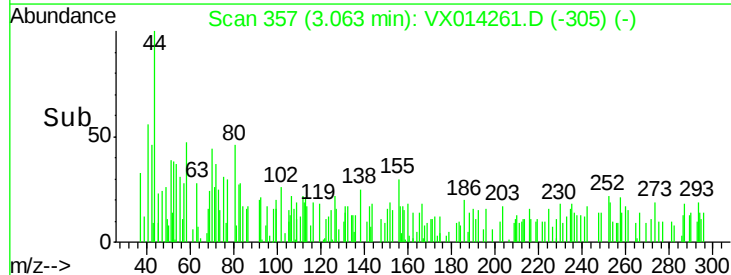
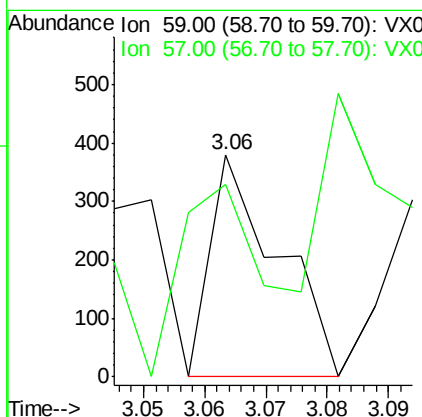
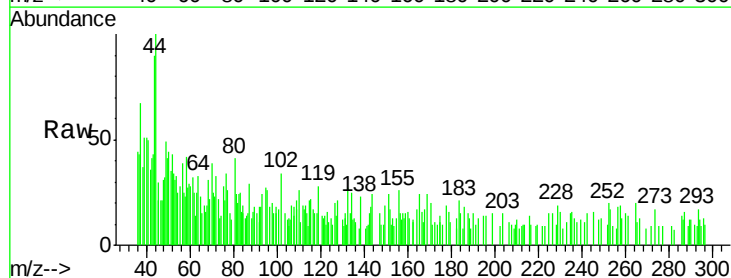
Instrument :  
MSVOA\_X  
ClientSampled :  
VX1226WBL01

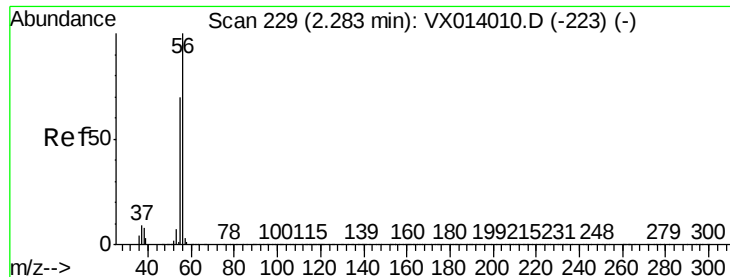
Tgt Ion: 142 Resp: 855  
Ion Ratio Lower Upper  
142 100  
127 98.4 31.6 47.4#  
141 58.8 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 0.213 ug/l  
RT: 3.06 min Scan# 357  
Delta R.T. 0.02 min  
Lab File: VX014261.D  
Acq: 26 Dec 2019 11:45

Tgt Ion: 59 Resp: 289  
Ion Ratio Lower Upper  
59 100  
57 115.2 8.4 12.6#





#13

Acrolein

Concen: 0.827 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampled :

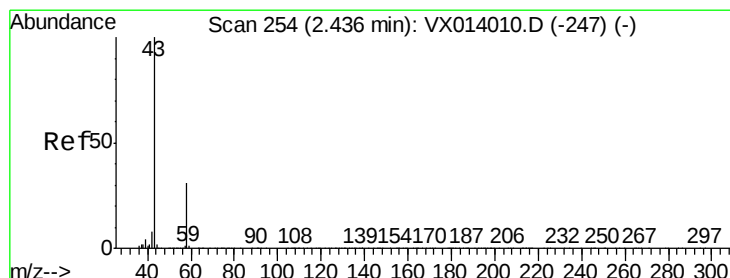
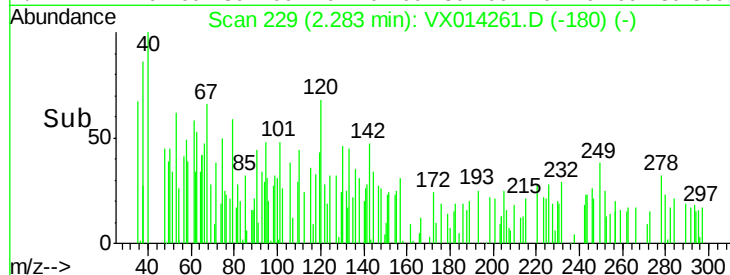
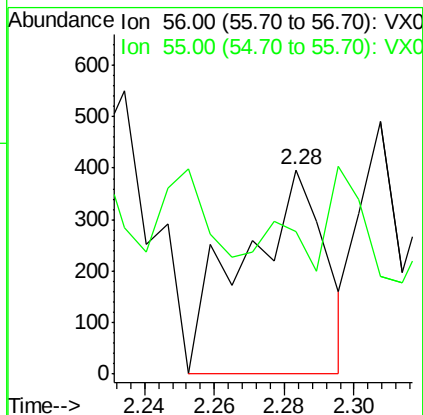
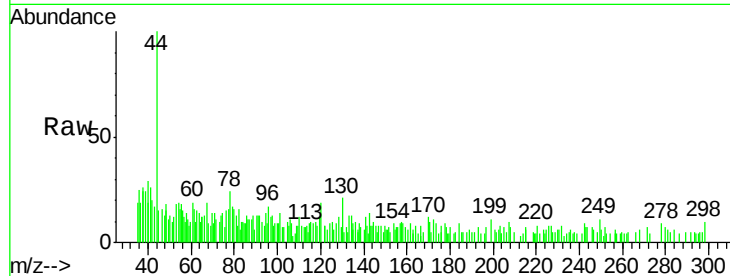
VX1226WBL01

Tgt Ion: 56 Resp: 642

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 2.635 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014261.D

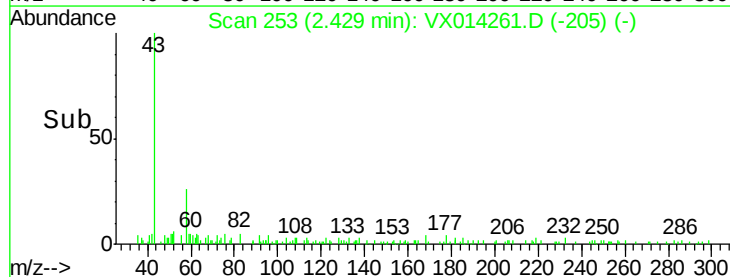
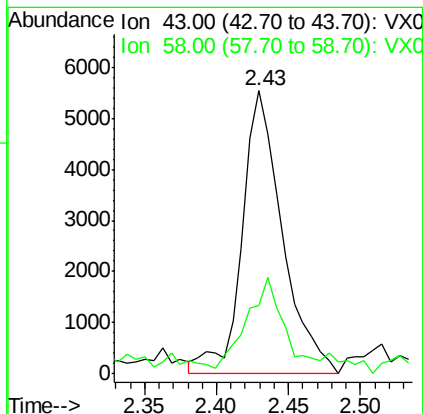
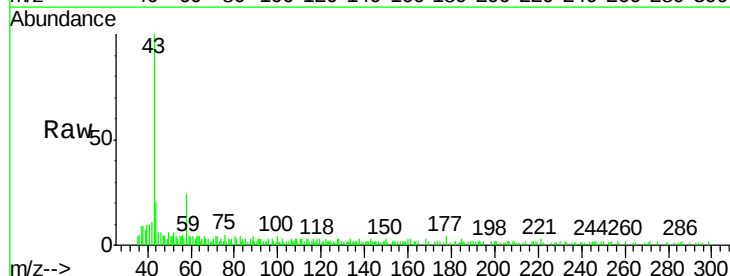
Acq: 26 Dec 2019 11:45

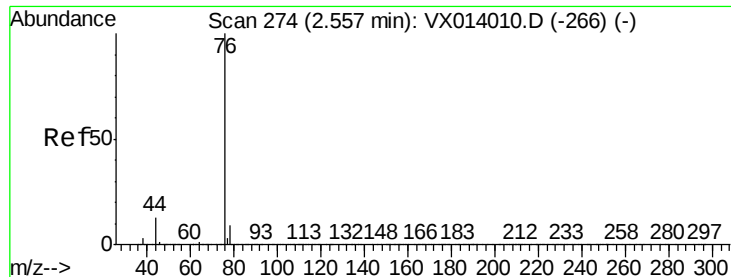
Tgt Ion: 43 Resp: 10736

Ion Ratio Lower Upper

43 100

58 20.0 24.9 37.3#





#17

Carbon Disulfide

Concen: 0.838 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampleId :

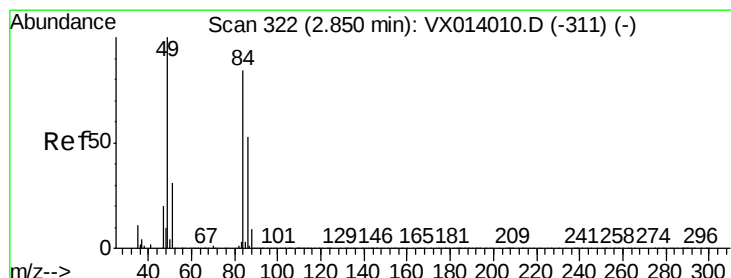
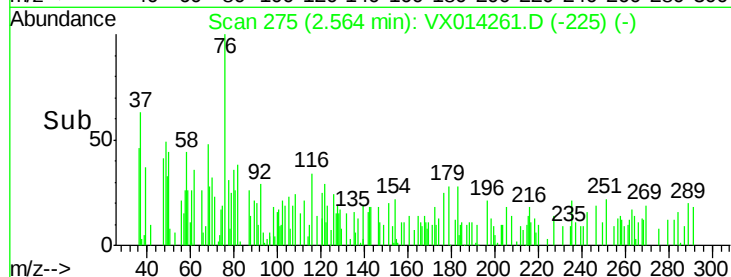
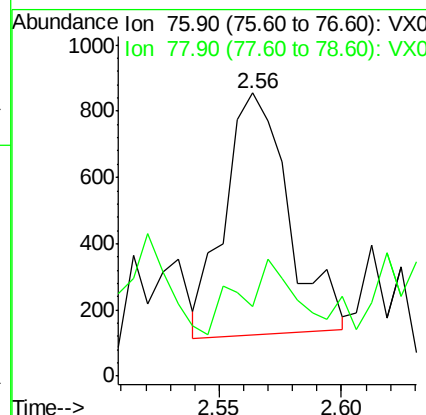
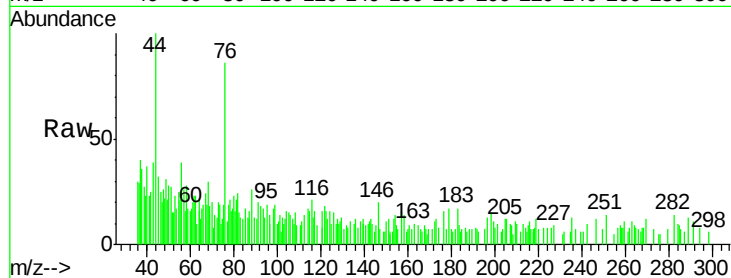
VX1226WBL01

Tgt Ion: 76 Resp: 1322

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8



#20

Methylene Chloride

Concen: 0.237 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Tgt Ion: 84 Resp: 1518

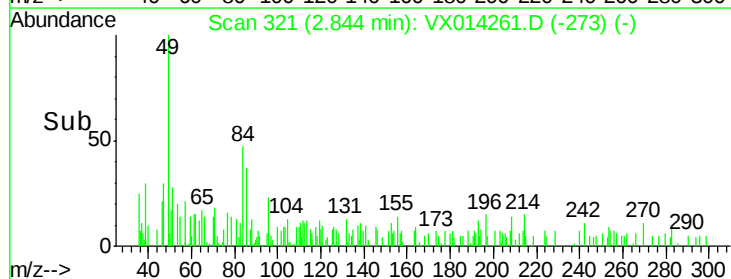
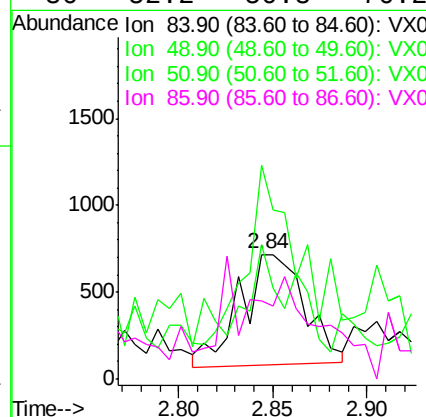
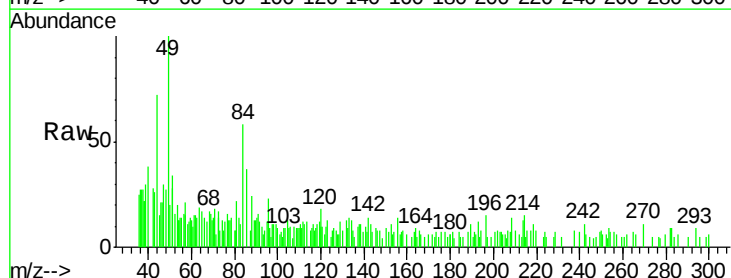
Ion Ratio Lower Upper

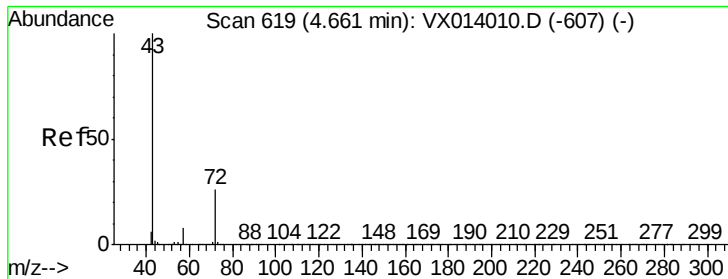
84 100

49 177.6 95.8 143.6#

51 101.4 29.8 44.8#

86 52.2 50.8 76.2





#25

2-Butanone

Concen: 0.323 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampleId :

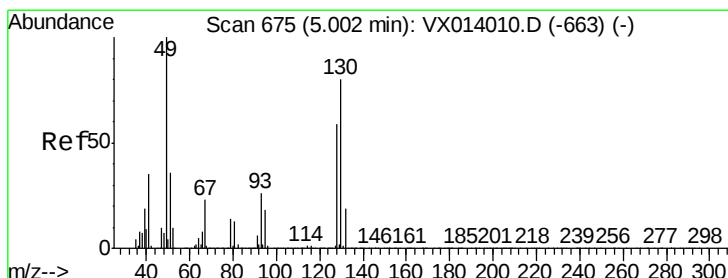
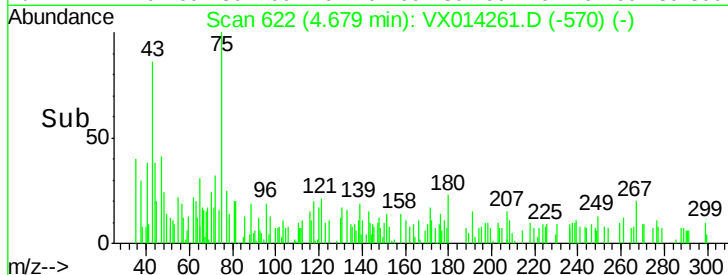
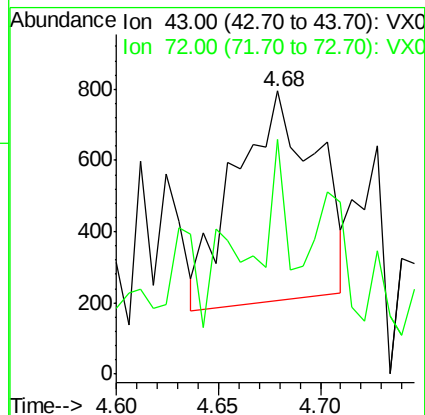
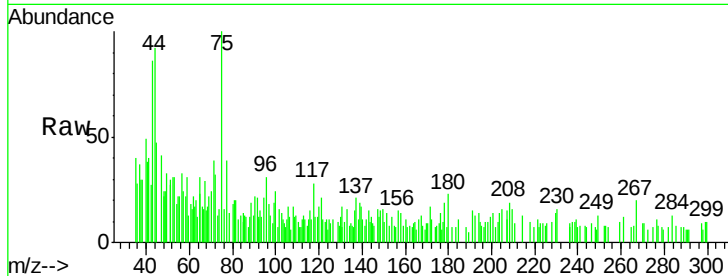
VX1226WBL01

Tgt Ion: 43 Resp: 1621

Ion Ratio Lower Upper

43 100

72 50.9 21.0 31.4#



#28

Bromochloromethane

Concen: 0.517 ug/l

RT: 4.98 min Scan# 672

Delta R.T. -0.02 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

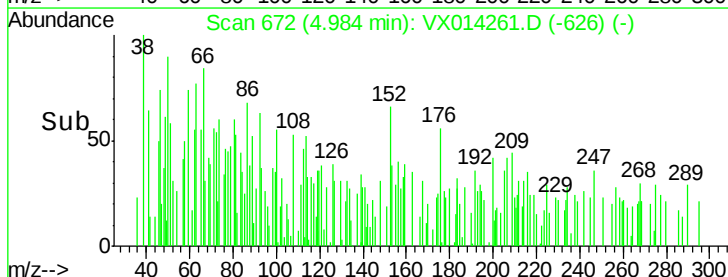
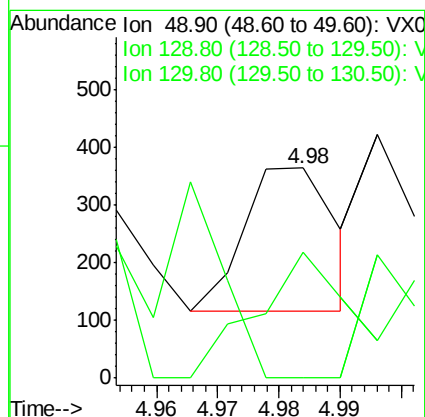
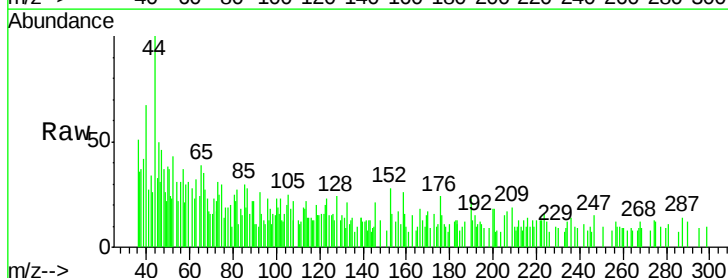
Tgt Ion: 49 Resp: 257

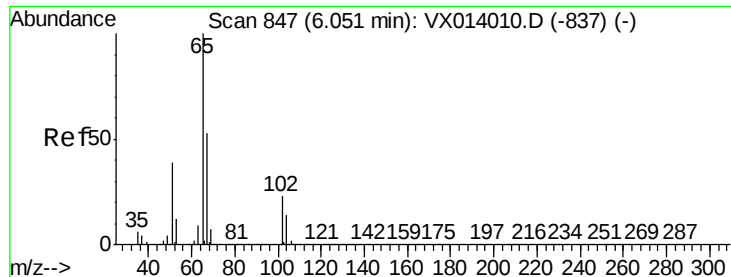
Ion Ratio Lower Upper

49 100

129 80.9 0.0 5.0#

130 89.5 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 49.068 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampleId :

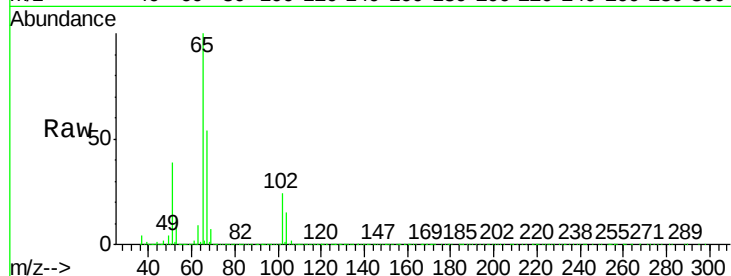
VX1226WBL01

Tgt Ion: 65 Resp: 307917

Ion Ratio Lower Upper

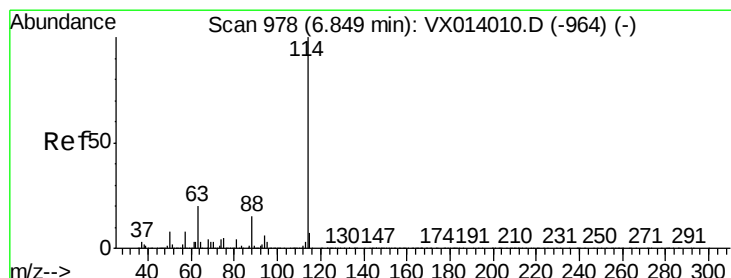
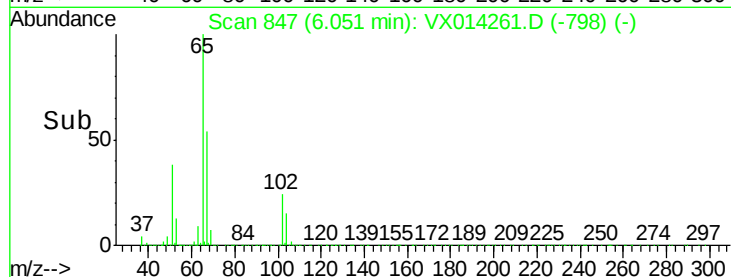
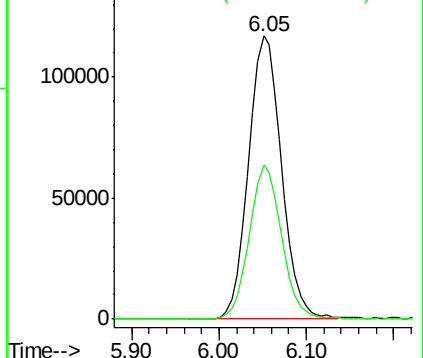
65 100

67 52.9 0.0 106.4



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

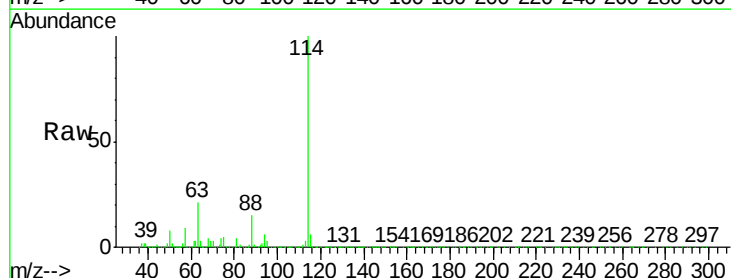
Tgt Ion: 114 Resp: 848003

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

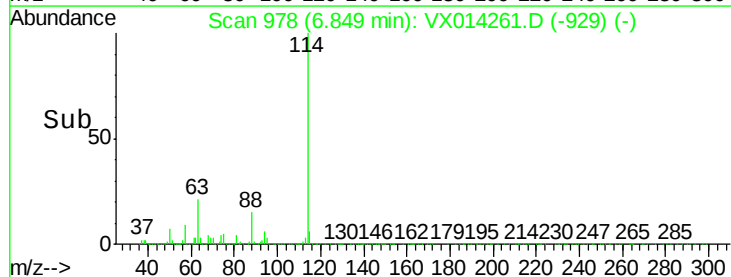
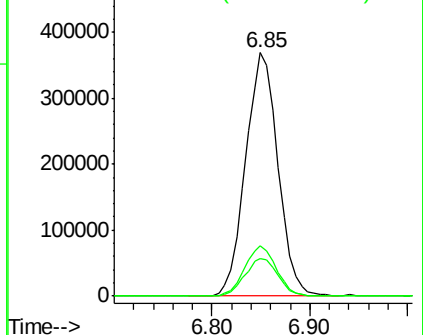
88 15.1 0.0 30.4

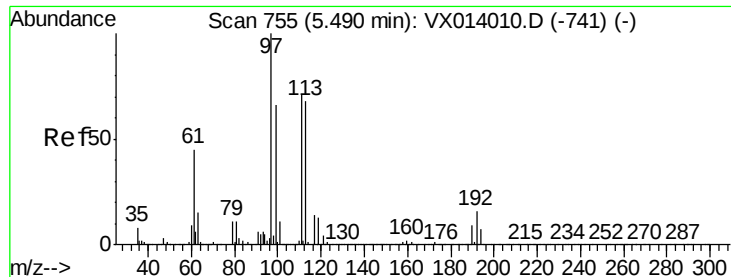


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

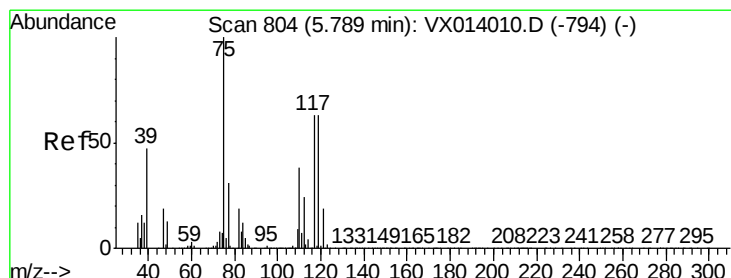
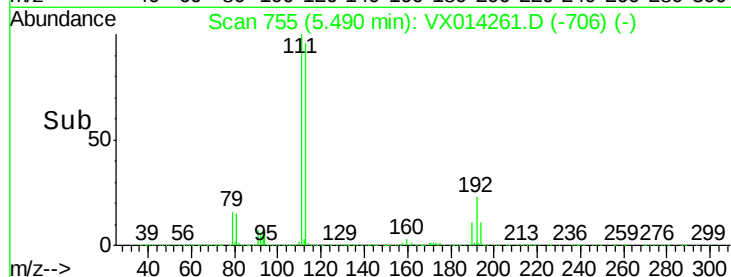
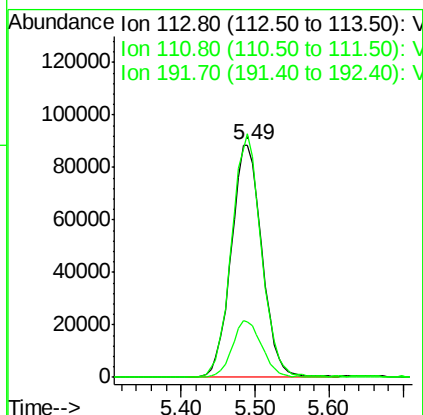
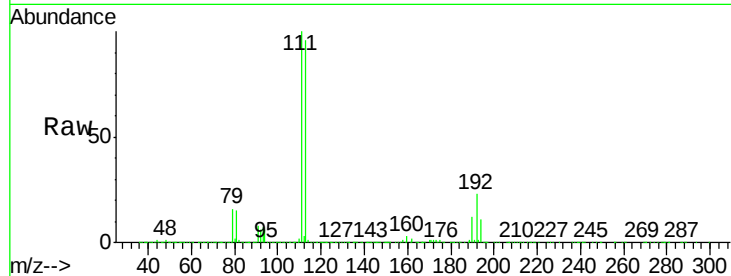




#35  
 Dibromofluoromethane  
 Concen: 49.448 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX014261.D  
 Acq: 26 Dec 2019 11:45

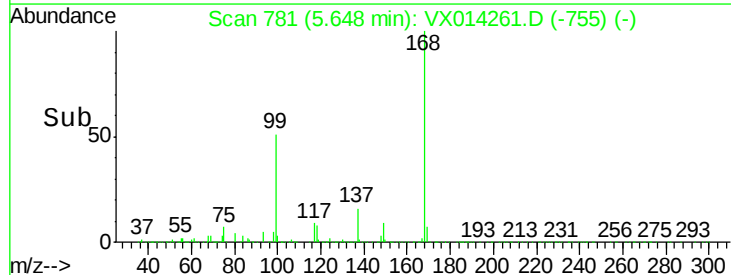
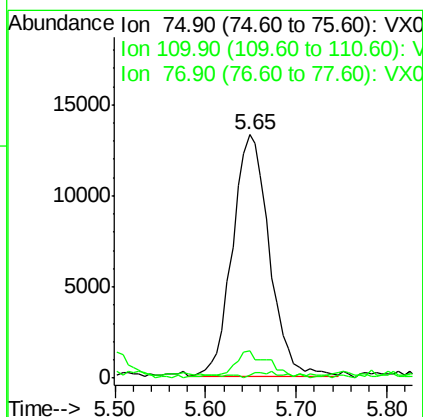
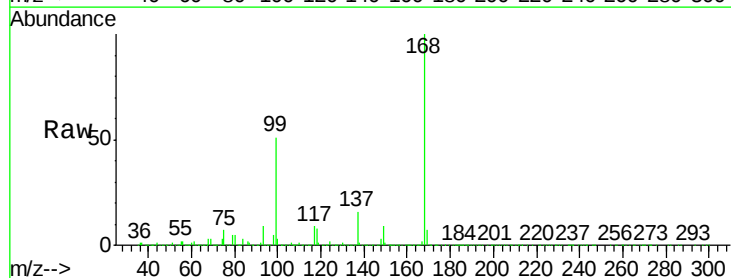
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1226WBL01

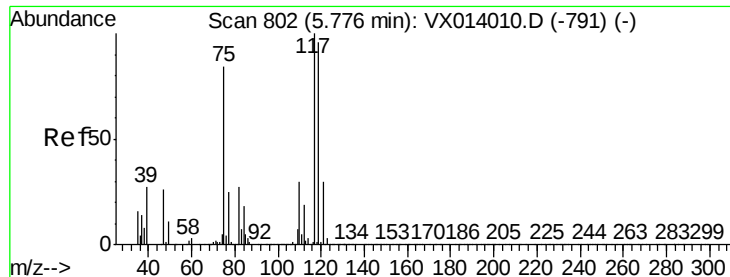
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 82.0  | 123.0 |
| 192     | 23.8  | 19.3  | 28.9  |



#36  
 1,1-Dichloropropene  
 Concen: 4.759 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX014261.D  
 Acq: 26 Dec 2019 11:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.5  | 18.3  | 54.9# |
| 77      | 0.0   | 24.8  | 37.2# |





#38

Carbon Tetrachloride

Concen: 6.908 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampled :

VX1226WBL01

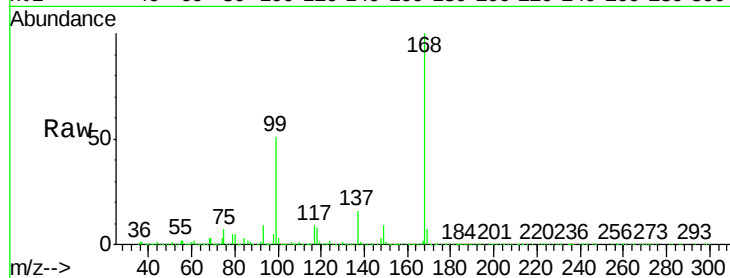
Tgt Ion: 117 Resp: 48964

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.4#

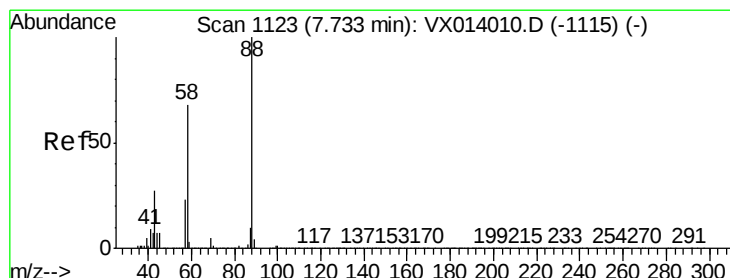
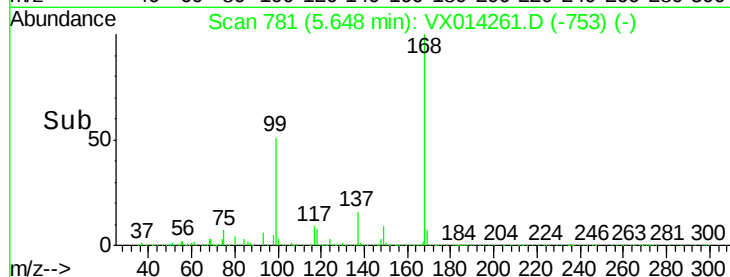
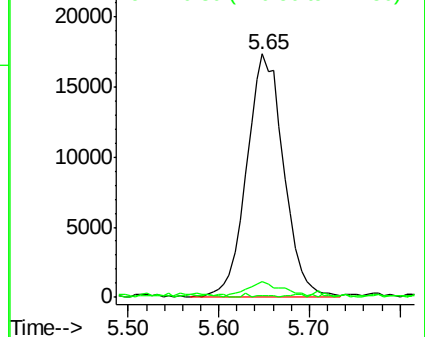
121 0.2 23.6 35.4#



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



#49

1,4-Dioxane

Concen: 1.524 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

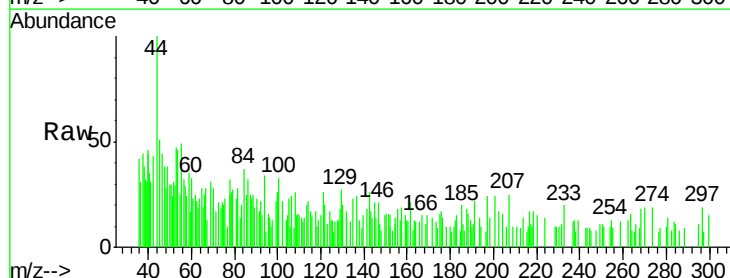
Tgt Ion: 88 Resp: 216

Ion Ratio Lower Upper

88 100

43 188.4 26.5 39.7#

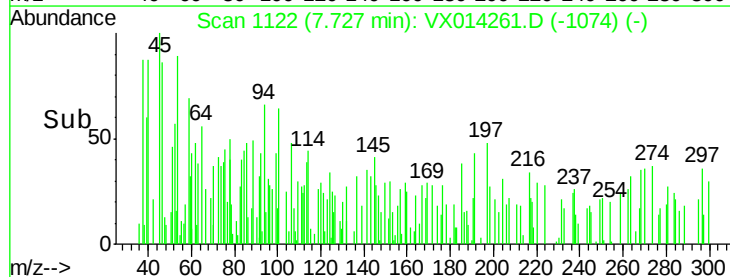
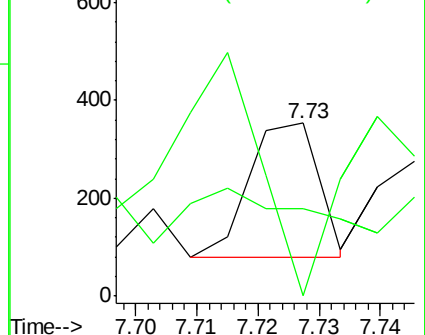
58 0.0 56.8 85.2#

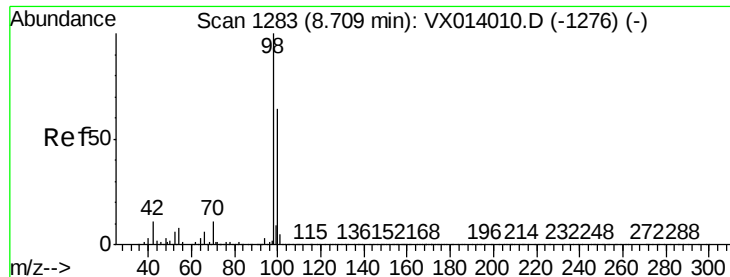


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.448 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014261.D

Acq: 26 Dec 2019 11:45

Instrument :

MSVOA\_X

ClientSampleId :

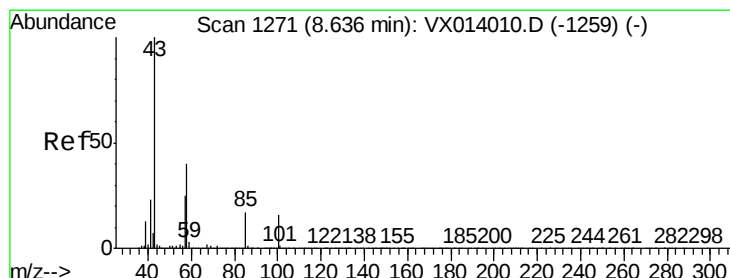
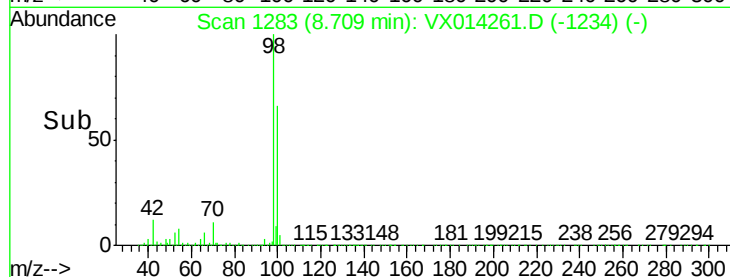
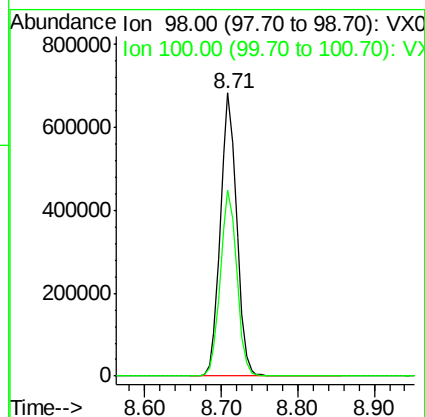
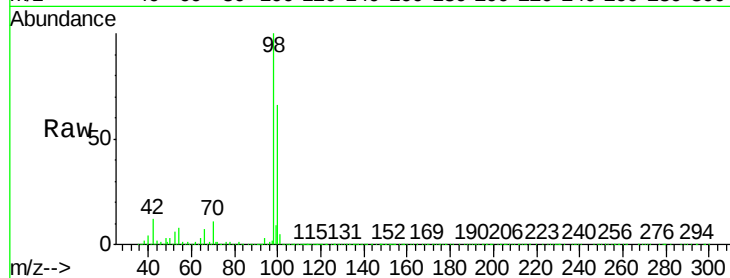
VX1226WBL01

Tgt Ion: 98 Resp: 1012464

Ion Ratio Lower Upper

98 100

100 66.2 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.255 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX014261.D

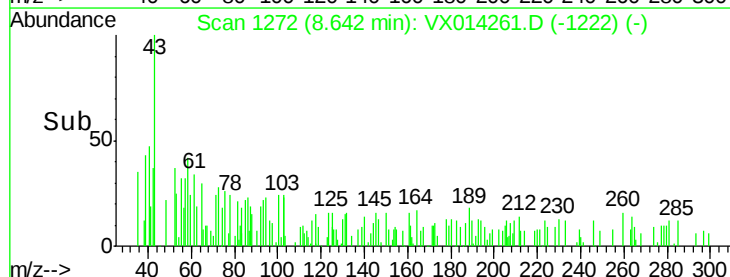
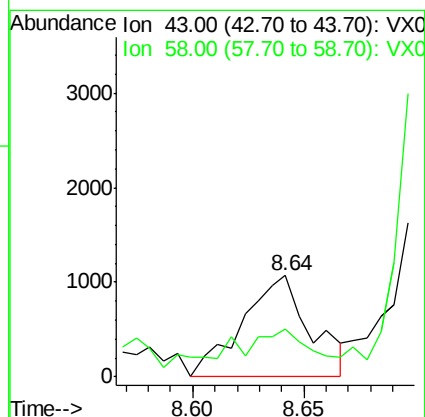
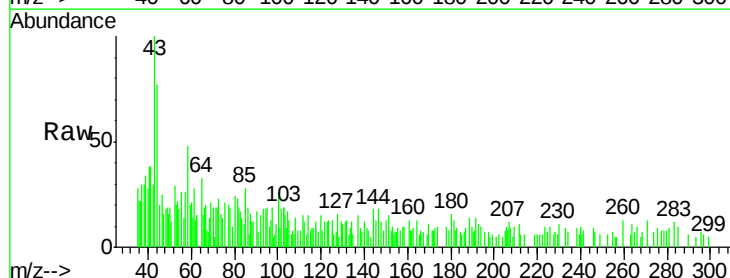
Acq: 26 Dec 2019 11:45

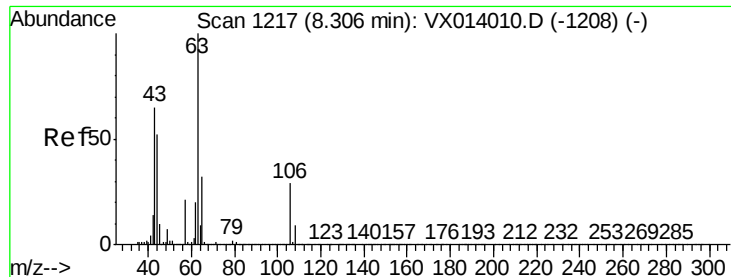
Tgt Ion: 43 Resp: 2277

Ion Ratio Lower Upper

43 100

58 31.2 32.2 48.2#

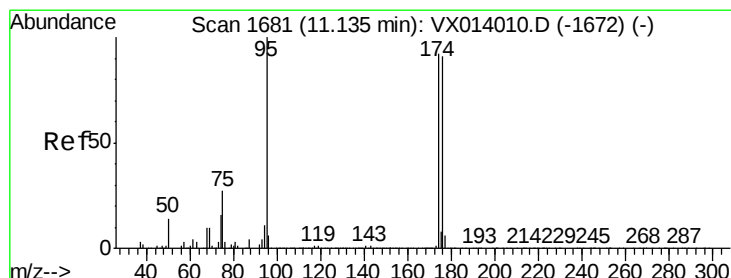
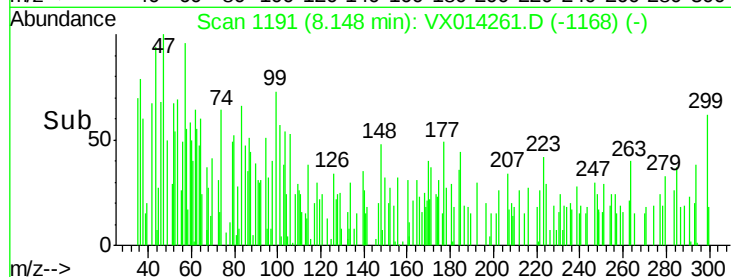
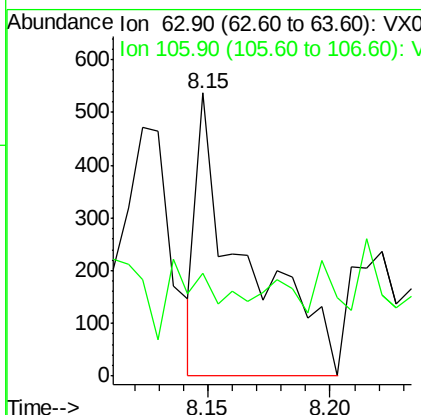
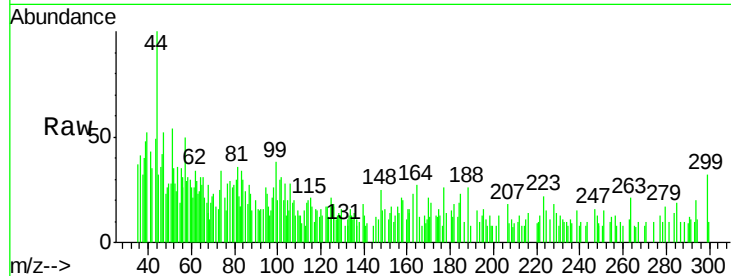




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 0.203 ug/l  
 RT: 8.15 min Scan# 1191  
 Delta R.T. -0.16 min  
 Lab File: VX014261.D  
 Acq: 26 Dec 2019 11:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1226WBL01

Tgt Ion: 63 Resp: 732  
 Ion Ratio Lower Upper  
 63 100  
 106 29.9 23.0 34.6



#62  
 4-Bromofluorobenzene  
 Concen: 46.431 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. -0.01 min  
 Lab File: VX014261.D  
 Acq: 26 Dec 2019 11:45

Tgt Ion: 95 Resp: 340626  
 Ion Ratio Lower Upper  
 95 100  
 174 87.7 0.0 175.8  
 176 84.2 0.0 173.0

