

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX091019\  
 Data File : VX012264.D  
 Acq On : 10 Sep 2019 19:15  
 Operator : SY/SP  
 Sample : K4624-11  
 Misc : 5.21g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T-11-A1-(4)

Quant Time: Sep 11 01:37:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 12:55:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 159171   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 276282   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 218661   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 69733    | 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   | 109922   | 48.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.70%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 84287    | 47.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.18%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 311848   | 50.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.40% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 104166   | 36.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 72.34%  |          |

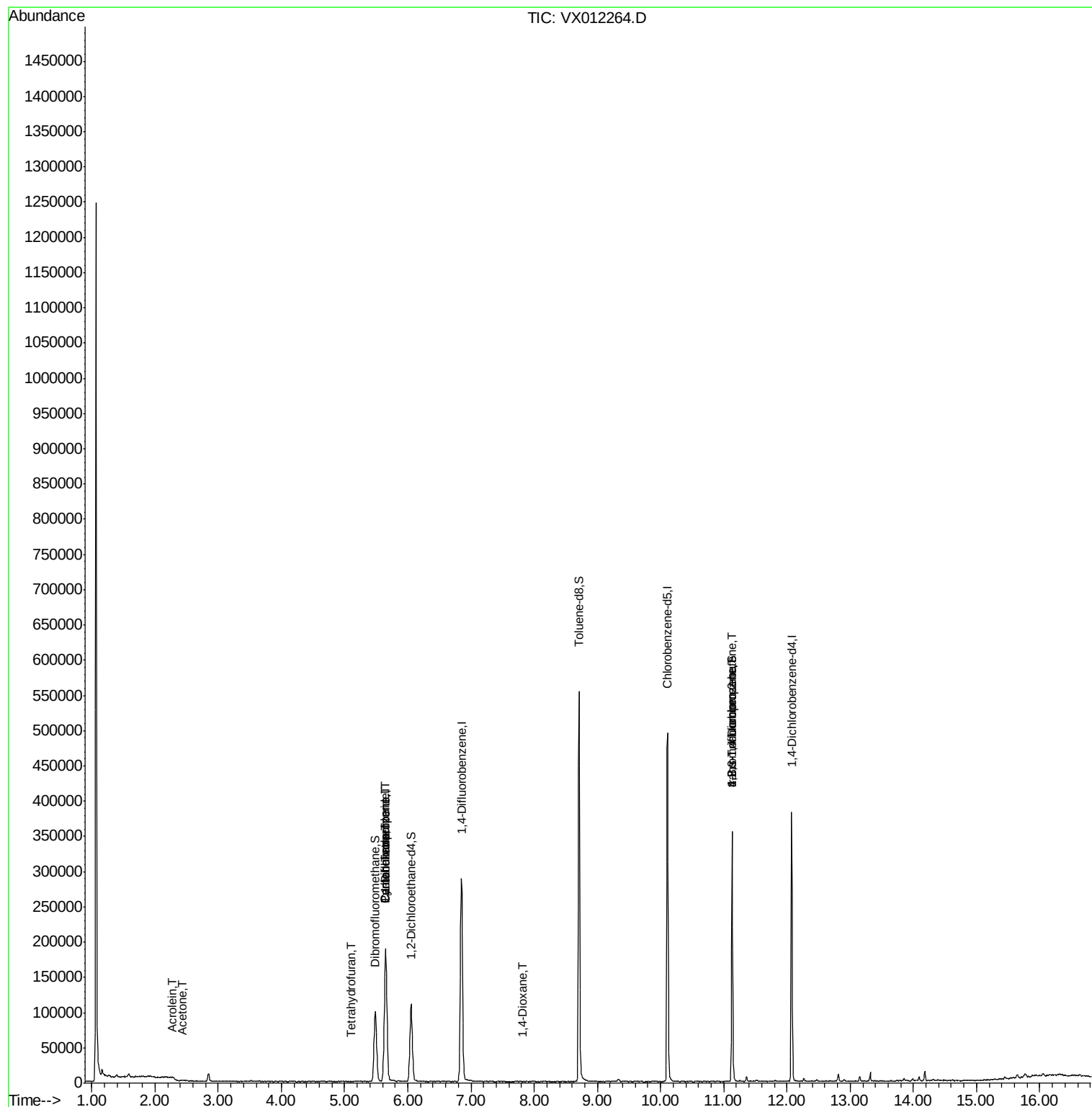
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 268      | Below Cal |        | 99     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 346      | Below Cal | #      | 74     |
| 13) Acrolein                   | 2.28  | 56   | 321      | 2.729     | ug/l # | 51     |
| 16) Acetone                    | 2.44  | 43   | 1192     | 2.238     | ug/l   | 97     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 373      | 1.015     | ug/l # | 46     |
| 31) Cyclohexane                | 5.65  | 56   | 4563     | 2.184     | ug/l # | 17     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 14622    | 7.258     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18453    | 7.807     | ug/l # | 13     |
| 49) 1,4-Dioxane                | 7.81  | 88   | 28       | 1.651     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 54449    | 60.781    | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 54449    | 182.113   | ug/l # | 5      |

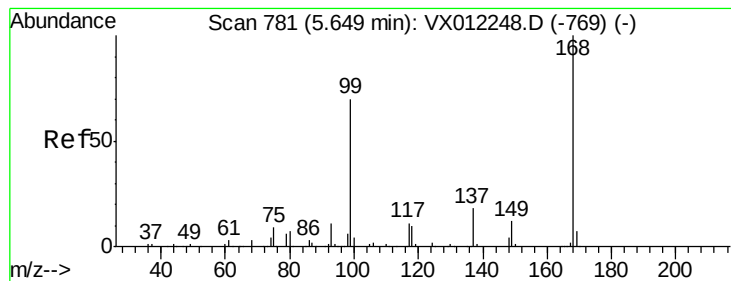
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX091019\  
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ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T-11-A1-(4)

Quant Time: Sep 11 01:37:52 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 10 12:55:26 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: VX012264.D

Acq: 10 Sep 2019 19:15

Instrument :

MSVOA\_X

ClientSampleId :

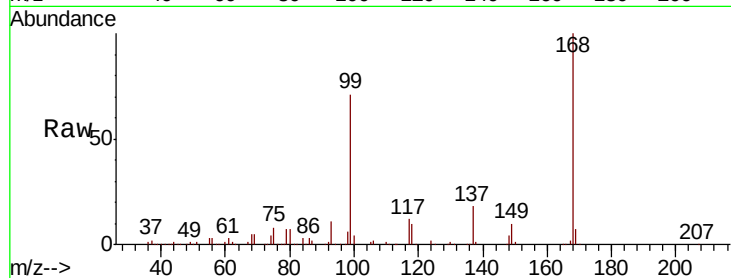
T-11-A1-(4)

Tgt Ion:168 Resp: 159171

Ion Ratio Lower Upper

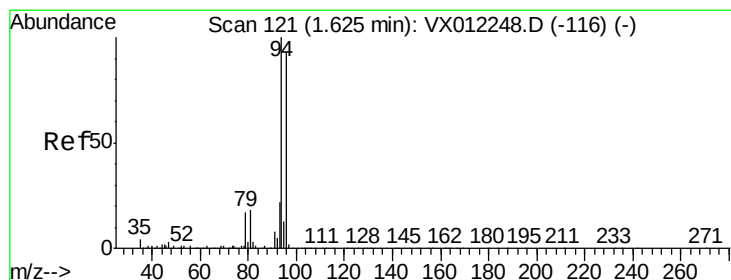
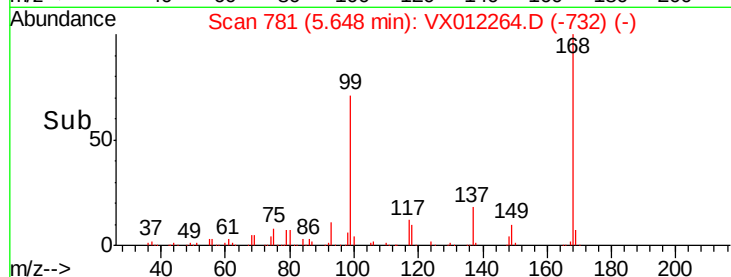
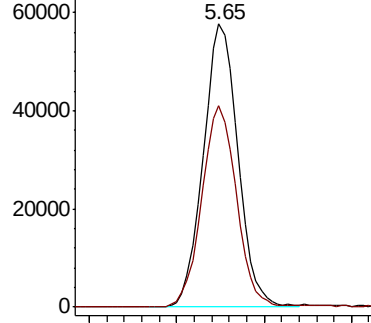
168 100

99 71.1 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012264.D

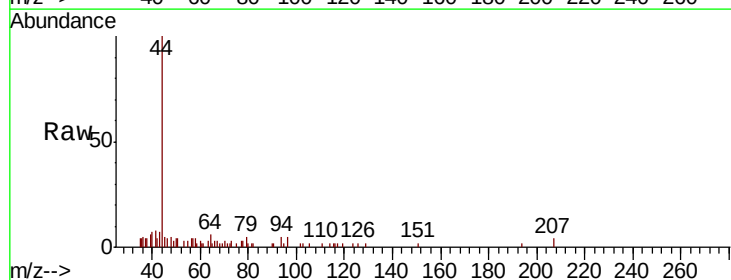
Acq: 10 Sep 2019 19:15

Tgt Ion: 94 Resp: 268

Ion Ratio Lower Upper

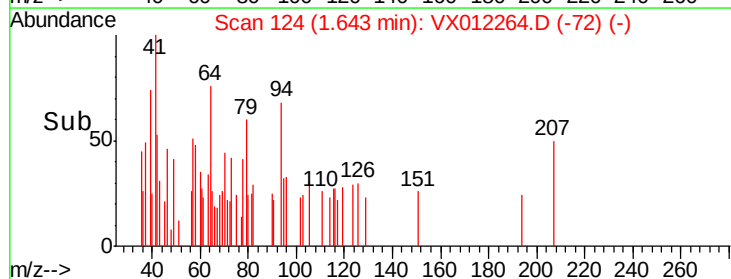
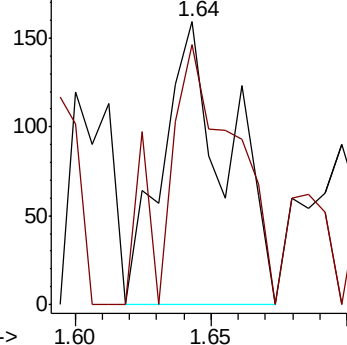
94 100

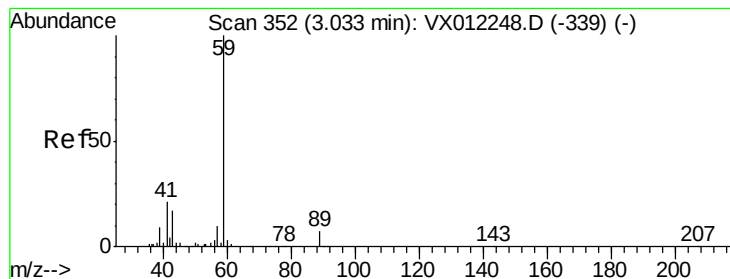
96 91.8 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



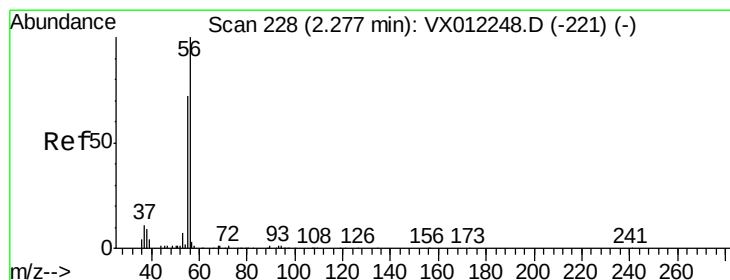
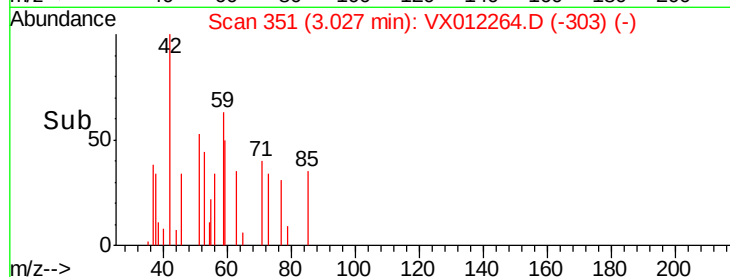
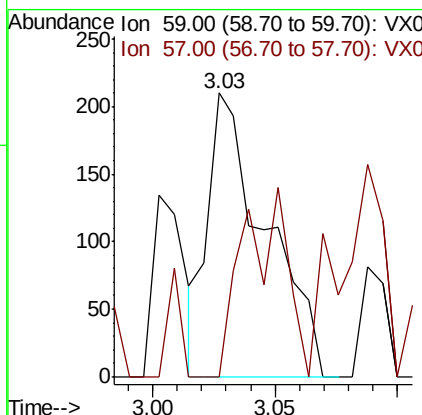
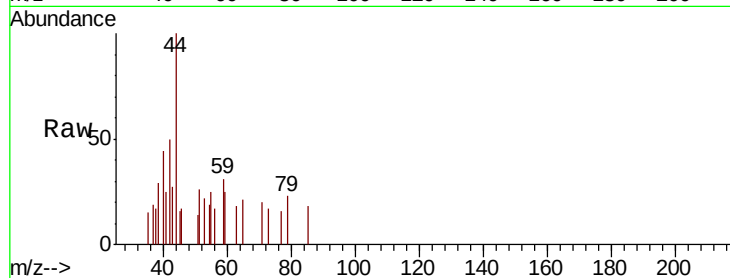


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 3.03 min Scan# 351  
 Delta R.T. -0.01 min  
 Lab File: VX012264.D  
 Acq: 10 Sep 2019 19:15

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 T-11-A1-(4)

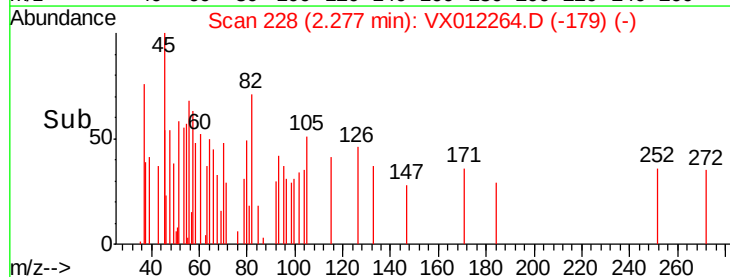
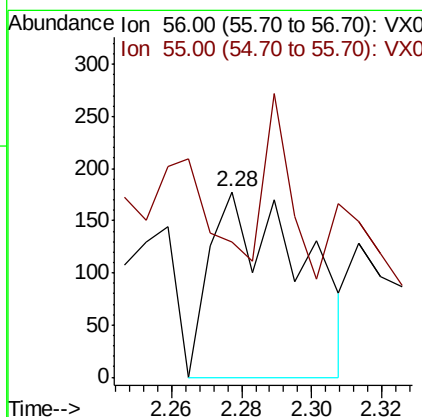
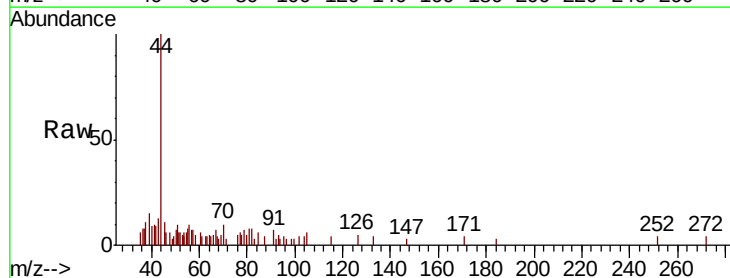
Tgt Ion: 59 Resp: 346  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.8 11.6#

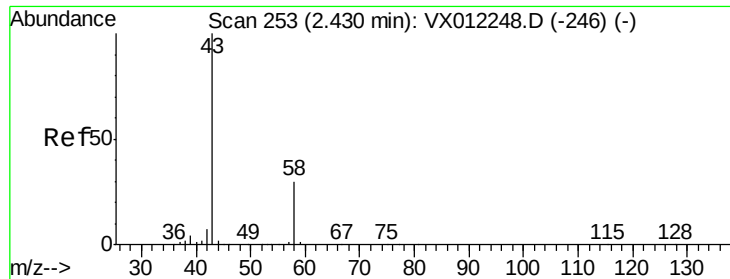


#13

Acrolein  
 Concen: 2.729 ug/l  
 RT: 2.28 min Scan# 228  
 Delta R.T. -0.00 min  
 Lab File: VX012264.D  
 Acq: 10 Sep 2019 19:15

Tgt Ion: 56 Resp: 321  
 Ion Ratio Lower Upper  
 56 100  
 55 33.0 59.8 89.6#





#16

Acetone

Concen: 2.238 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

Instrument :

MSVOA\_X

ClientSampled :

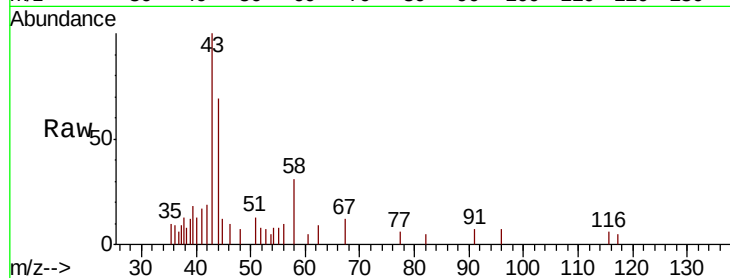
T-11-A1-(4)

Tgt Ion: 43 Resp: 1192

Ion Ratio Lower Upper

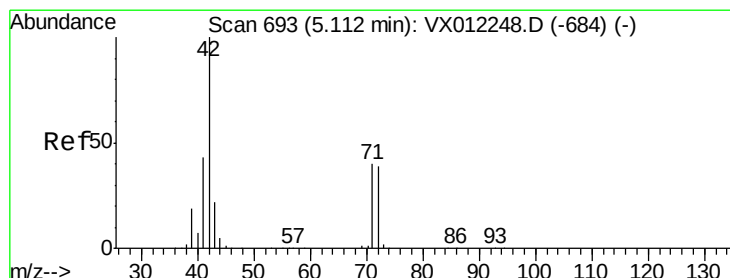
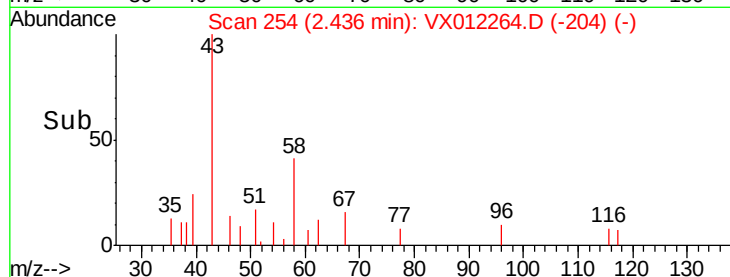
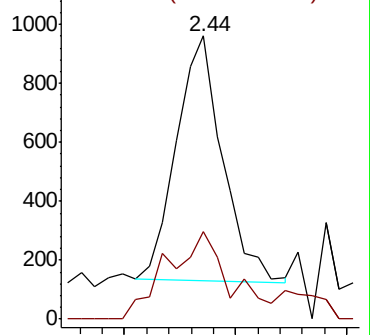
43 100

58 27.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#29

Tetrahydrofuran

Concen: 1.015 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.00 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

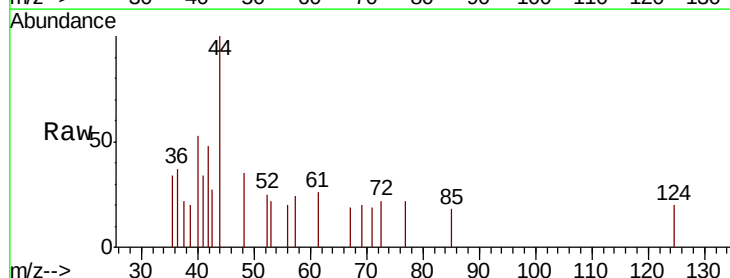
Tgt Ion: 42 Resp: 373

Ion Ratio Lower Upper

42 100

72 16.1 35.2 52.8#

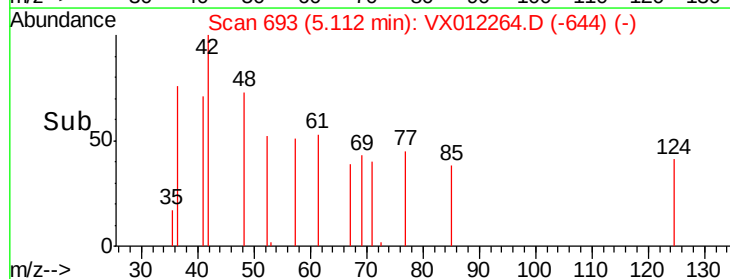
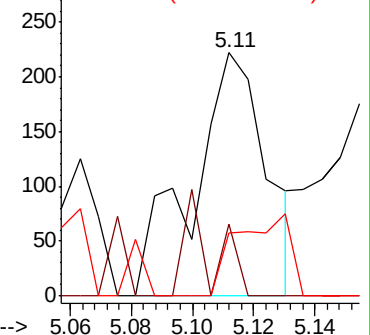
71 0.0 32.5 48.7#

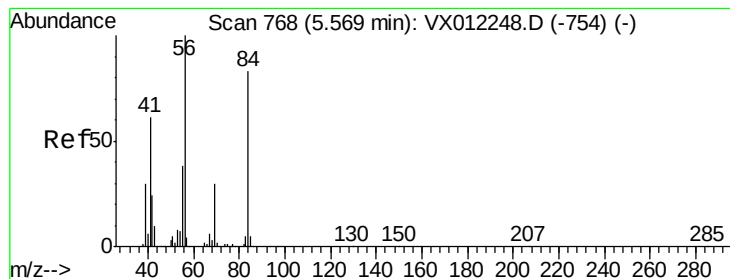


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 2.184 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

Instrument :

MSVOA\_X

ClientSampleId :

T-11-A1-(4)

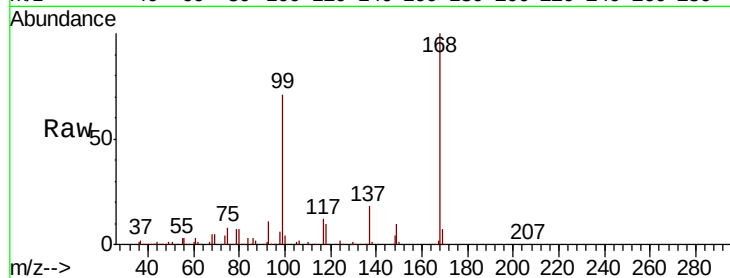
Tgt Ion: 56 Resp: 4563

Ion Ratio Lower Upper

56 100

69 177.2 23.8 35.6#

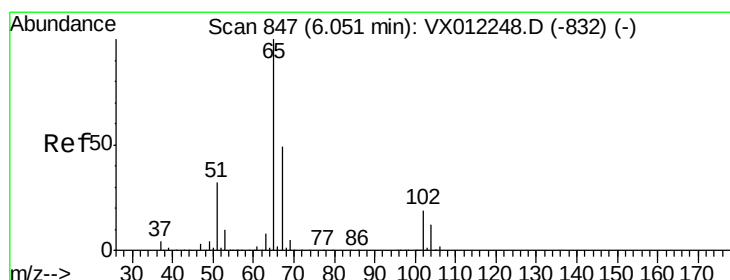
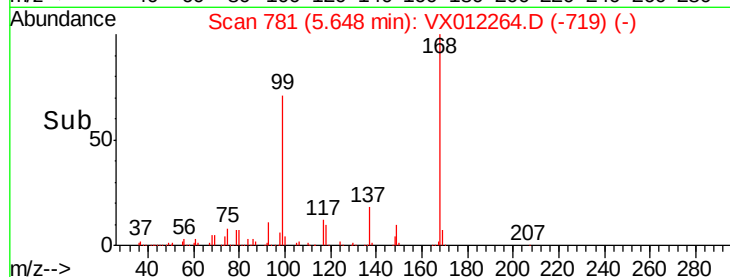
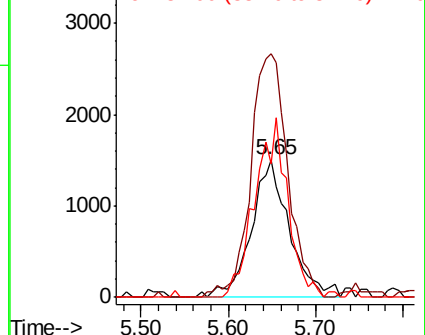
84 97.2 66.6 100.0



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: 48.846 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012264.D

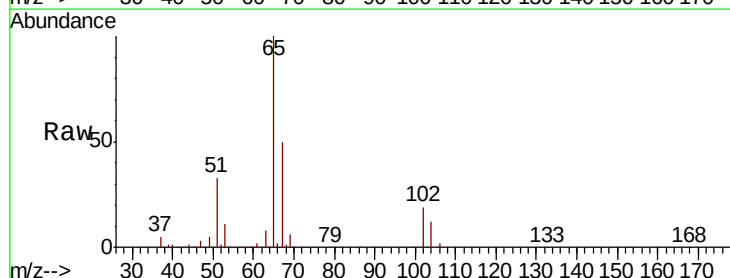
Acq: 10 Sep 2019 19:15

Tgt Ion: 65 Resp: 109922

Ion Ratio Lower Upper

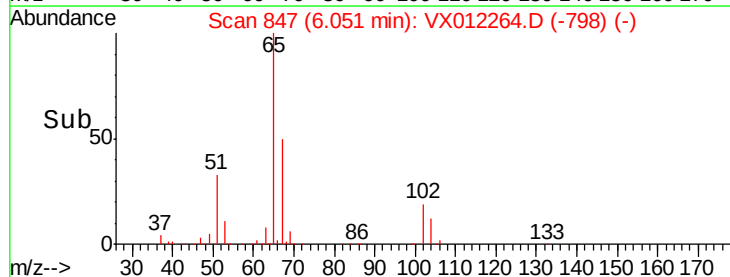
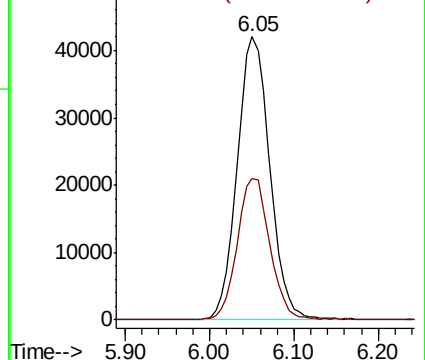
65 100

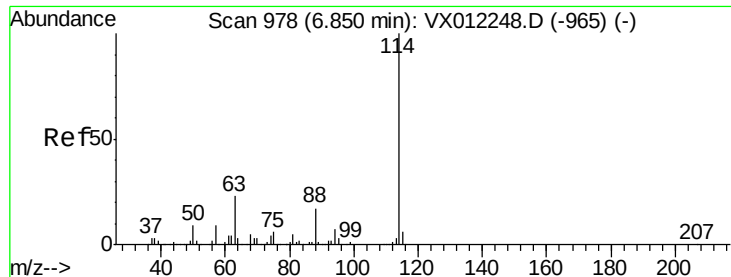
67 50.1 0.0 99.8



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: VX012264.D

Acq: 10 Sep 2019 19:15

Instrument :

MSVOA\_X

ClientSampleId :

T-11-A1-(4)

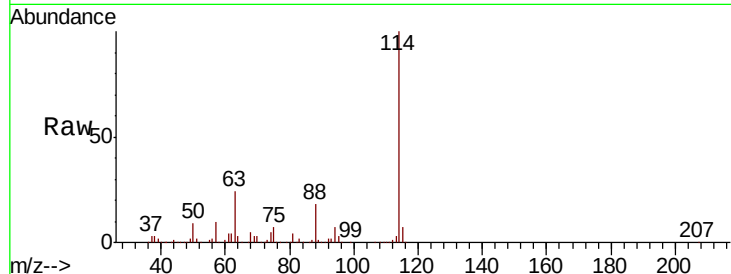
Tgt Ion:114 Resp: 276282

Ion Ratio Lower Upper

114 100

63 23.7 0.0 45.2

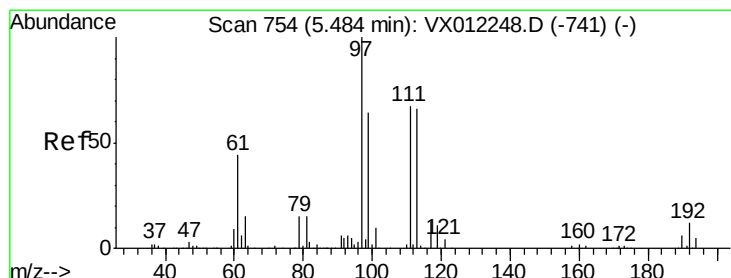
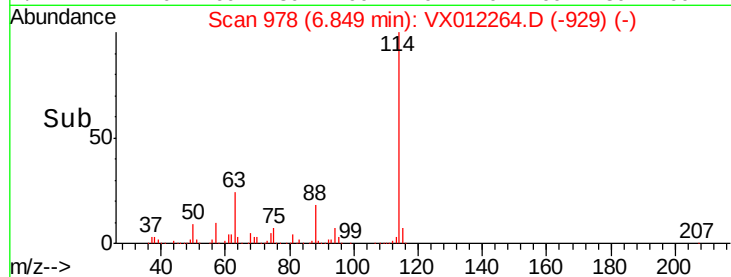
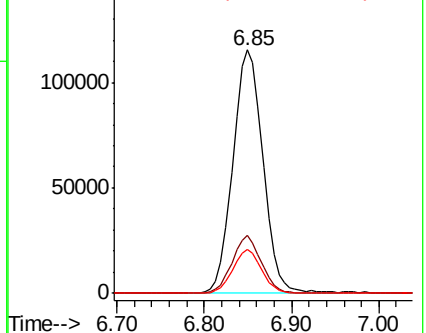
88 18.0 0.0 34.8



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: 47.590 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

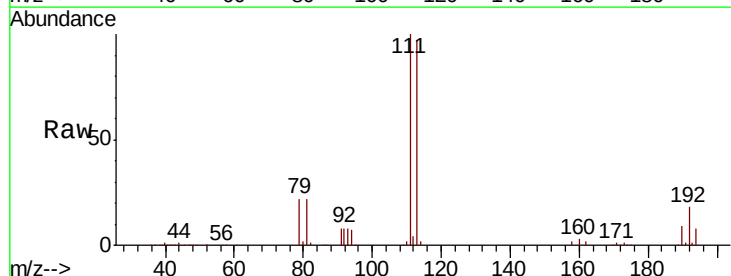
Tgt Ion:113 Resp: 84287

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.6

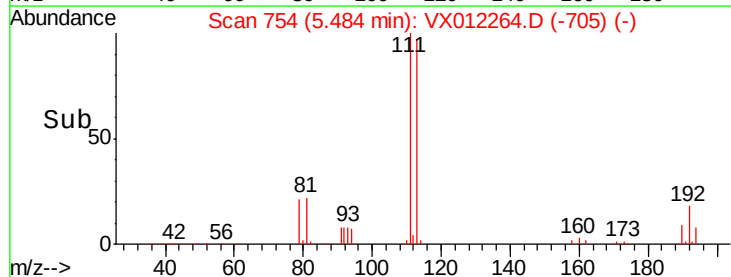
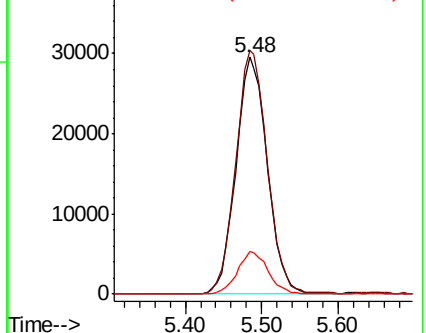
192 17.6 14.3 21.5

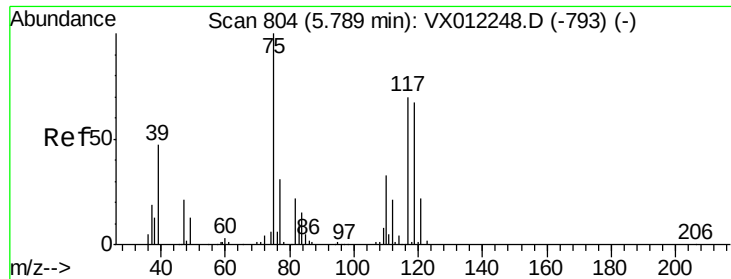


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

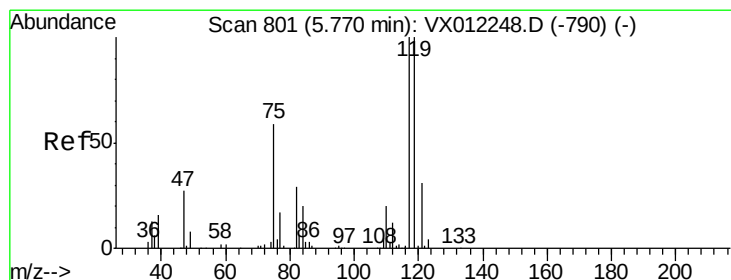
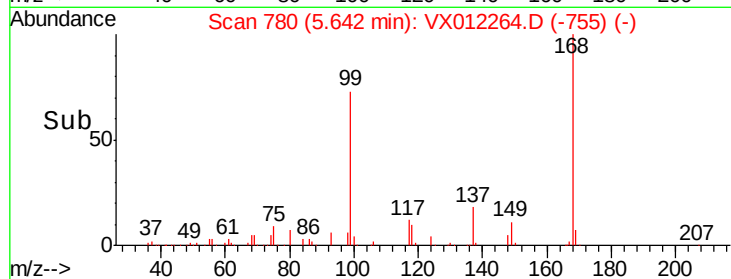
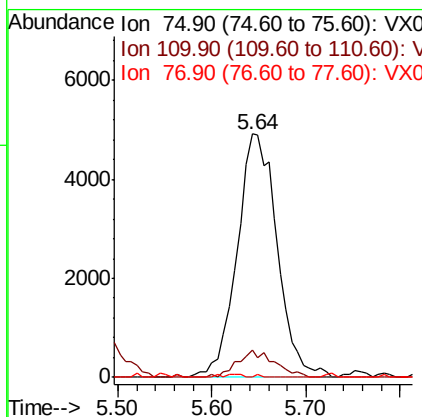
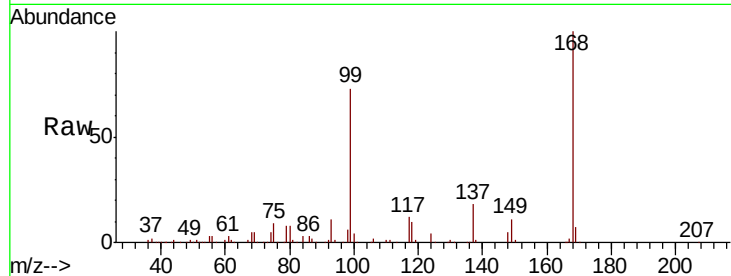




#36  
 1,1-Dichloropropene  
 Concen: 7.258 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.15 min  
 Lab File: VX012264.D  
 Acq: 10 Sep 2019 19:15

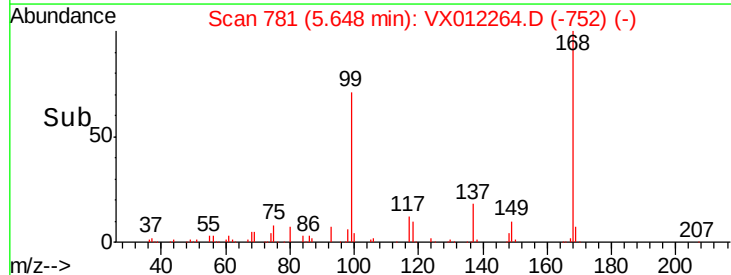
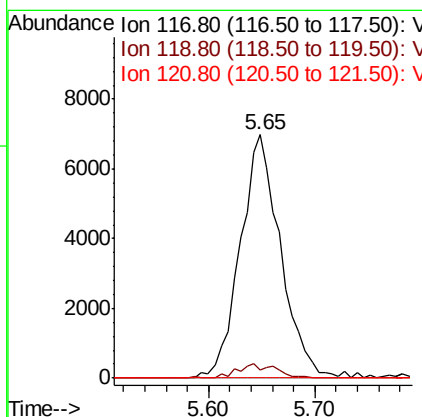
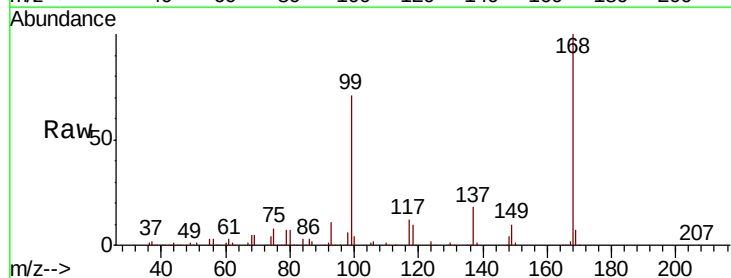
Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 T-11-A1-(4)

Tgt Ion: 75 Resp: 14622  
 Ion Ratio Lower Upper  
 75 100  
 110 10.4 16.8 50.4#  
 77 0.1 24.5 36.7#

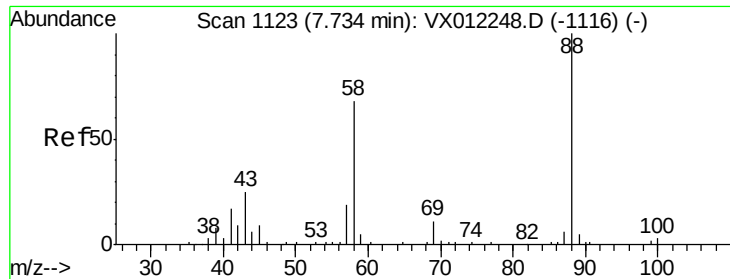


#38  
 Carbon Tetrachloride  
 Concen: 7.807 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.12 min  
 Lab File: VX012264.D  
 Acq: 10 Sep 2019 19:15

Tgt Ion: 117 Resp: 18453  
 Ion Ratio Lower Upper  
 117 100  
 119 3.2 79.6 119.4#  
 121 0.0 24.7 37.1#



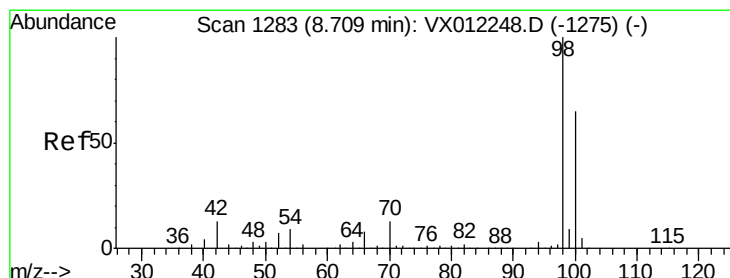
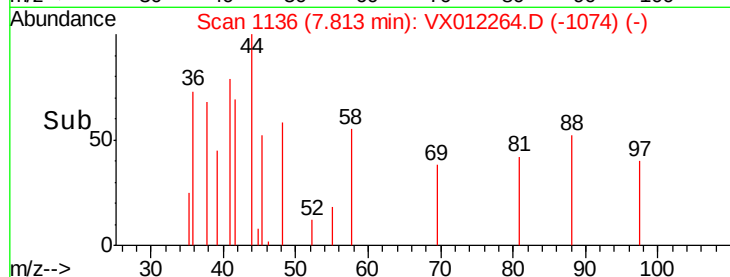
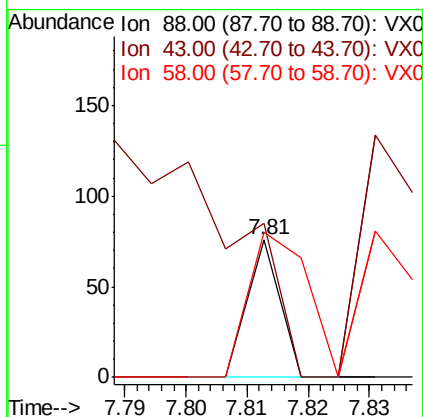
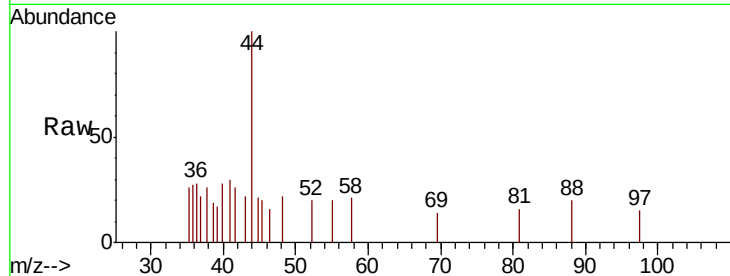




#49  
1,4-Dioxane  
Concen: 1.651 ug/l  
RT: 7.81 min Scan# 1136  
Delta R.T. 0.08 min  
Lab File: VX012264.D  
Acq: 10 Sep 2019 19:15

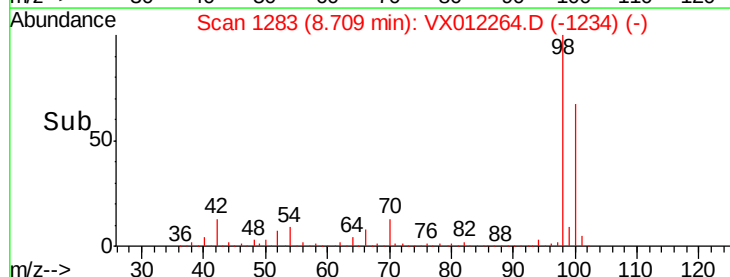
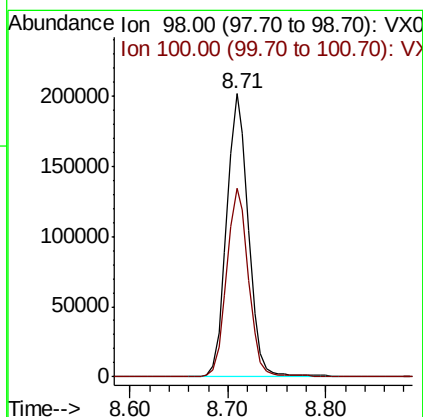
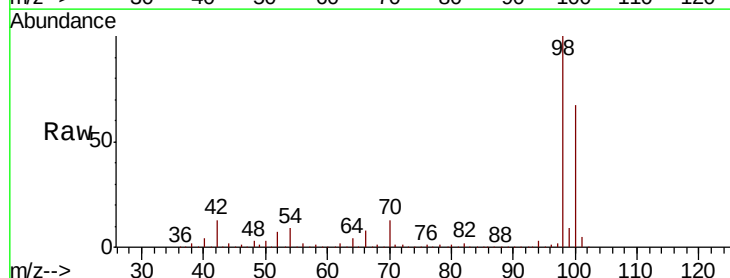
Instrument :  
MSVOA\_X  
ClientSampled :  
T-11-A1-(4)

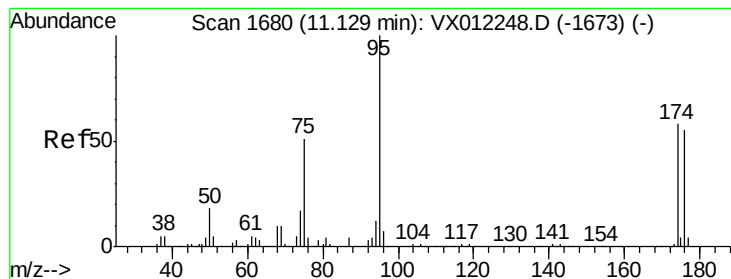
Tgt Ion: 88 Resp: 28  
Ion Ratio Lower Upper  
88 100  
43 0.0 31.0 46.4#  
58 189.3 61.5 92.3#



#50  
Toluene-d8  
Concen: 50.202 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012264.D  
Acq: 10 Sep 2019 19:15

Tgt Ion: 98 Resp: 311848  
Ion Ratio Lower Upper  
98 100  
100 67.3 54.1 81.1





#62

4-Bromofluorobenzene

Concen: 36.171 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

Instrument :

MSVOA\_X

ClientSampled :

T-11-A1-(4)

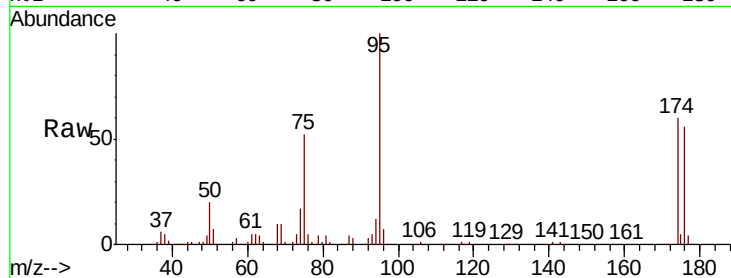
Tgt Ion: 95 Resp: 104166

Ion Ratio Lower Upper

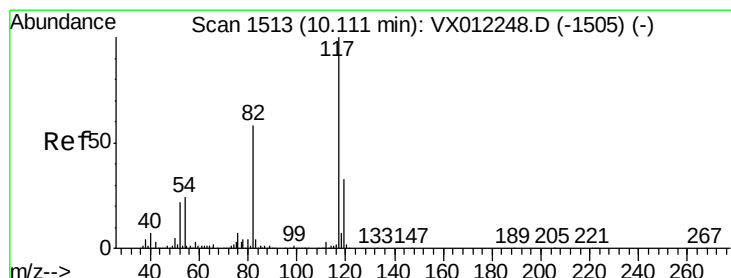
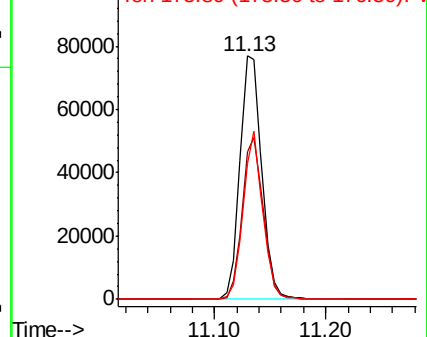
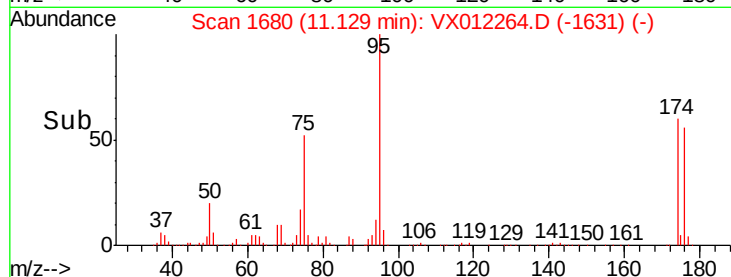
95 100

174 64.6 0.0 127.0

176 61.9 0.0 125.8



Abundance Ion 94.90 (94.60 to 95.60): VX012264.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

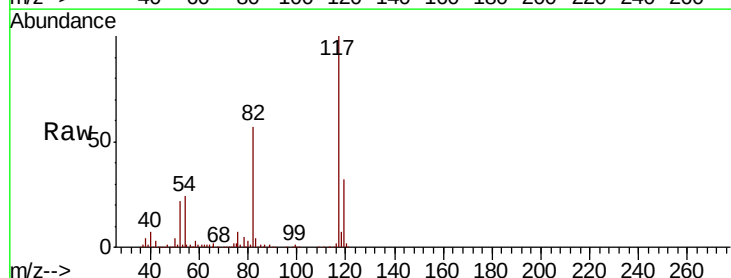
Tgt Ion: 117 Resp: 218661

Ion Ratio Lower Upper

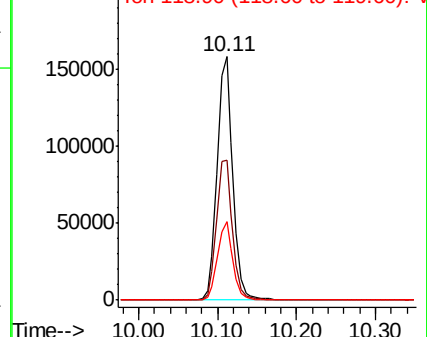
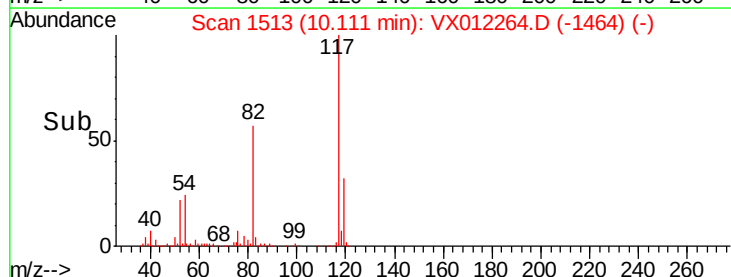
117 100

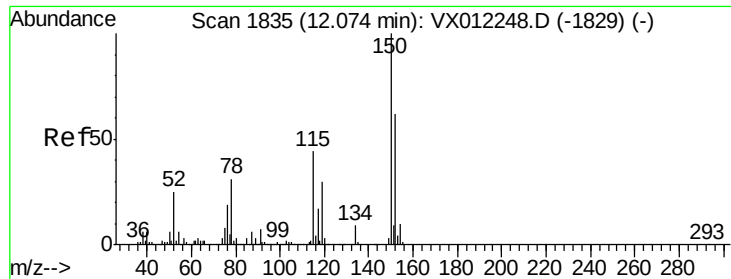
82 57.4 46.4 69.6

119 32.0 26.6 39.8



Abundance Ion 116.90 (116.60 to 117.60): VX012264.D (-1464) (-)

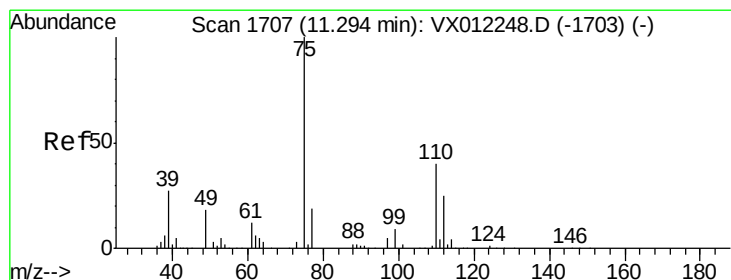
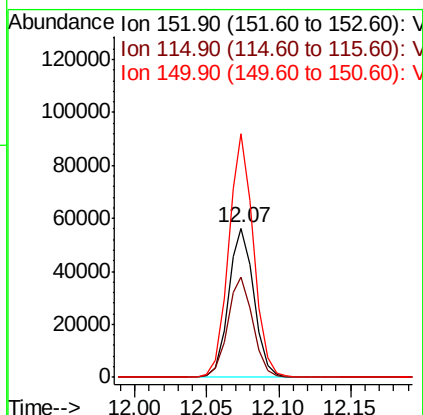
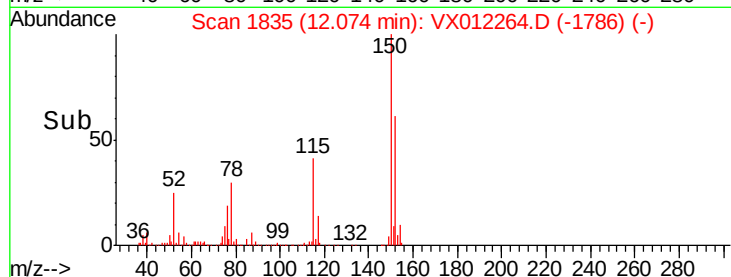
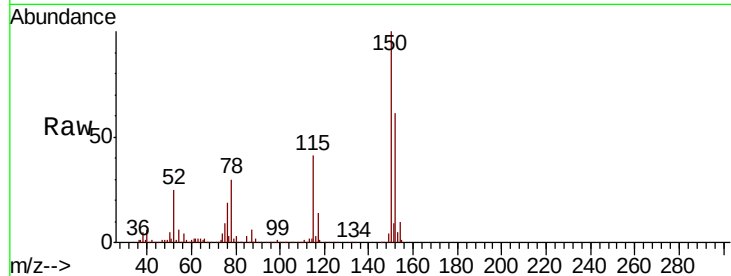




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.07 min Scan# 1835  
 Delta R.T. -0.00 min  
 Lab File: VX012264.D  
 Acq: 10 Sep 2019 19:15

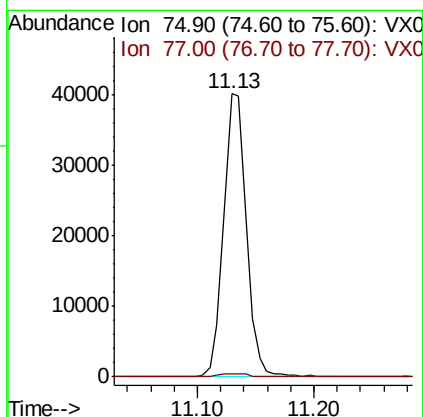
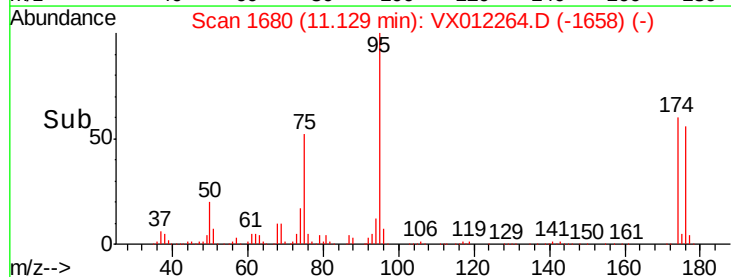
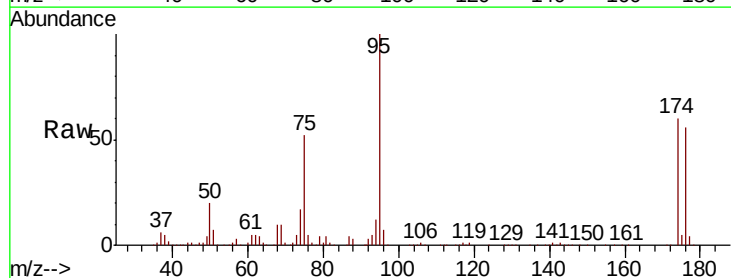
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 T-11-A1-(4)

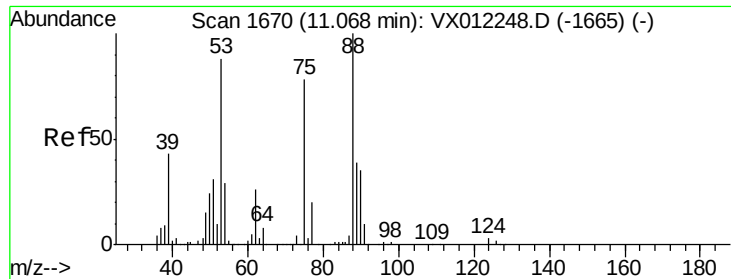
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 66.6  | 45.5  | 136.4 |
| 150     | 159.3 | 0.0   | 346.4 |



#76  
 1,2,3-Trichloropropane  
 Concen: 60.781 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. -0.16 min  
 Lab File: VX012264.D  
 Acq: 10 Sep 2019 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 19.7  | 59.0# |





#81

trans-1,4-Dichloro-2-butene

Concen: 182.113 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012264.D

Acq: 10 Sep 2019 19:15

Instrument :

MSVOA\_X

ClientSampleId :

T-11-A1-(4)

Tgt Ion: 75 Resp: 54449

Ion Ratio Lower Upper

75 100

53 0.1 88.1 132.1#

89 0.0 43.5 65.3#

