

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\  
 Data File : VX005332.D  
 Acq On : 15 Oct 2018 10:09  
 Operator : JC/MD  
 Sample : J5459-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Oct 16 03:17:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 293891   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 405498   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 360510   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 174509   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 163660   | 50.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.36% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 132461   | 49.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.64%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 479943   | 52.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.10% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 157356   | 45.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.86%  |          |

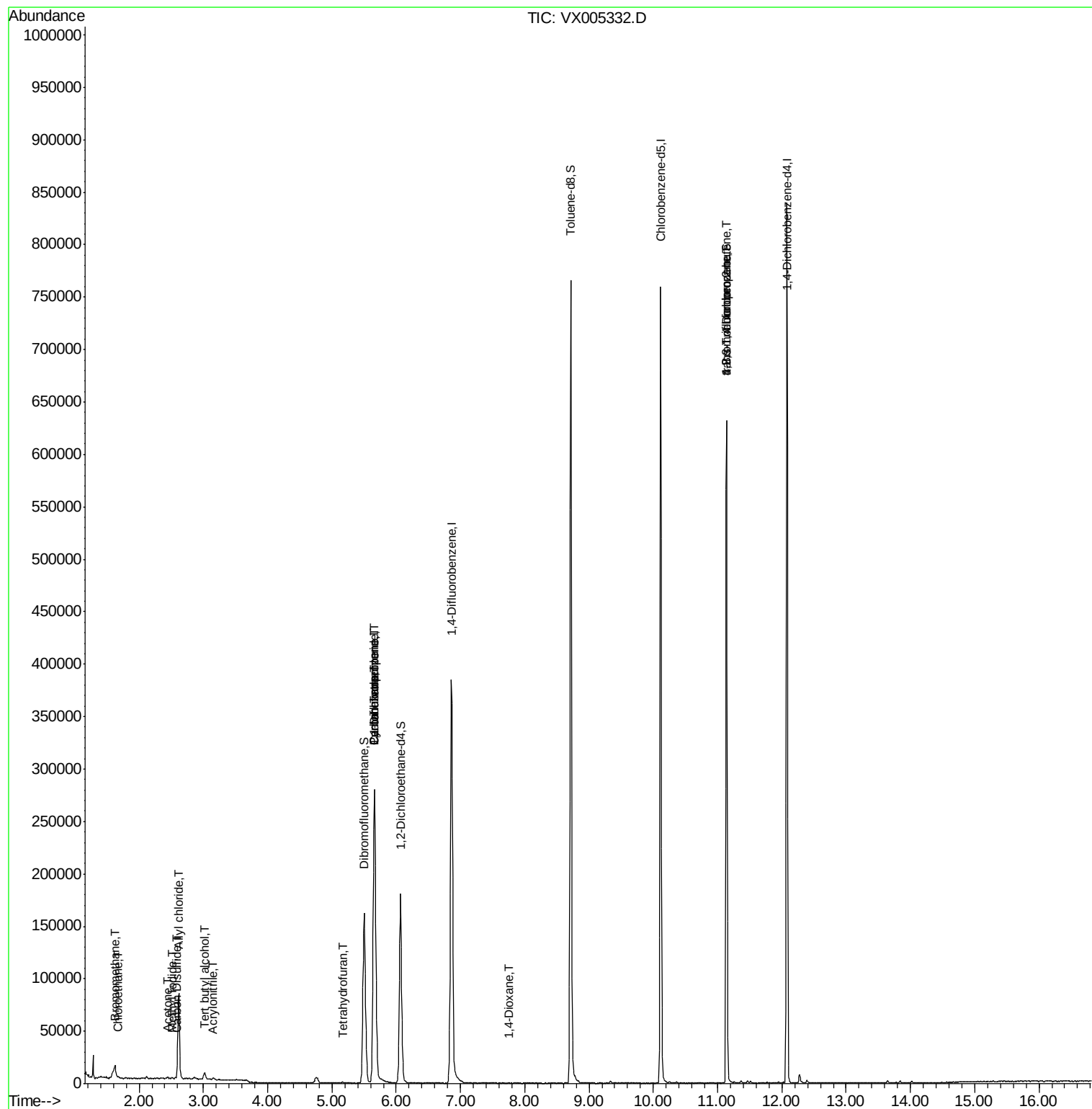
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 926      | 1.065     | ug/l   | 91     |
| 6) Chloroethane                | 1.67  | 64   | 108      | 0.384     | ug/l # | 44     |
| 10) Methyl Iodide              | 2.51  | 142  | 933      | 2.800     | ug/l # | 87     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 4119     | 4.477     | ug/l # | 77     |
| 13) Acrolein                   | 2.28  | 56   | 109      | Below Cal | #      | 1      |
| 14) Allyl chloride             | 2.62  | 41   | 8295     | 1.468     | ug/l # | 64     |
| 15) Acrylonitrile              | 3.14  | 53   | 748      | 0.359     | ug/l # | 84     |
| 16) Acetone                    | 2.44  | 43   | 2242     | 1.189     | ug/l   | 94     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1639     | 0.210     | ug/l   | 97     |
| 20) Methylene Chloride         | 2.86  | 84   | 658      | Below Cal | #      | 66     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 533      | 0.303     | ug/l # | 88     |
| 31) Cyclohexane                | 5.65  | 56   | 5025     | 1.121     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 18957    | 4.827     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 25832    | 6.546     | ug/l # | 17     |
| 44) Trichloroethene            | 7.22  | 130  | 296      | Below Cal |        | 78     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 54       | 0.671     | ug/l # | 4      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 77940    | 23.025    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 77940    | 69.962    | ug/l # | 10     |

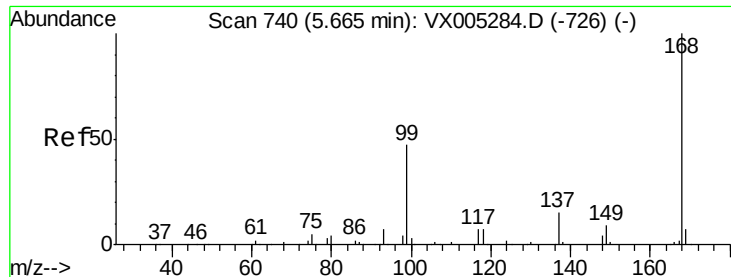
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX101518\  
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Sample : J5459-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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STORAGE-BLANK-SOIL-REF-6

Quant Time: Oct 16 03:17:30 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

Instrument :

MSVOA\_X

ClientSampleId :

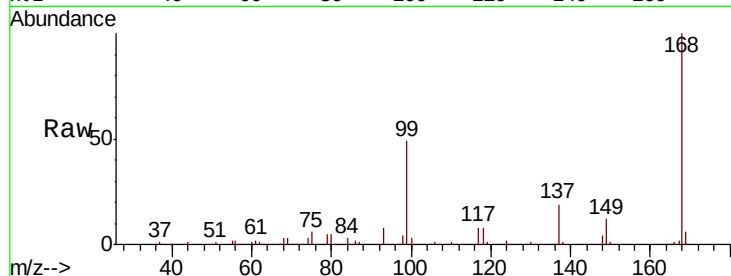
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 293891

Ion Ratio Lower Upper

168 100

99 49.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

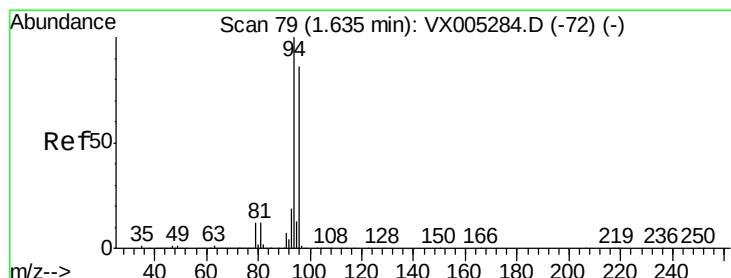
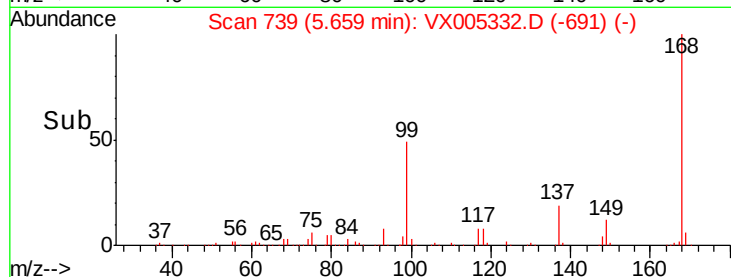
40000

20000

0

Time-->

5.60 5.80



#5

Bromomethane

Concen: 1.065 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005332.D

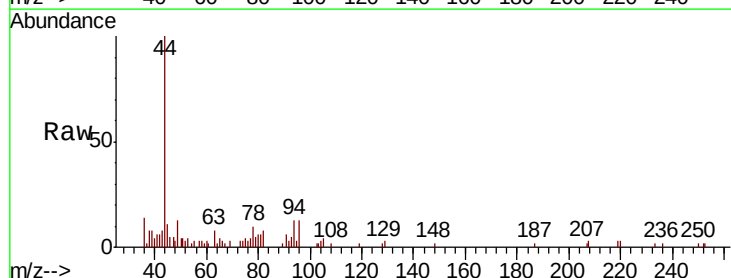
Acq: 15 Oct 2018 10:09

Tgt Ion: 94 Resp: 926

Ion Ratio Lower Upper

94 100

96 101.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

300

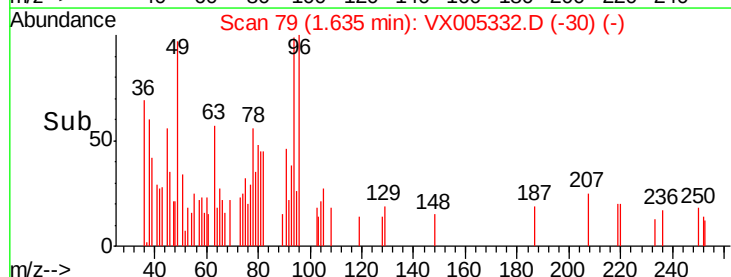
200

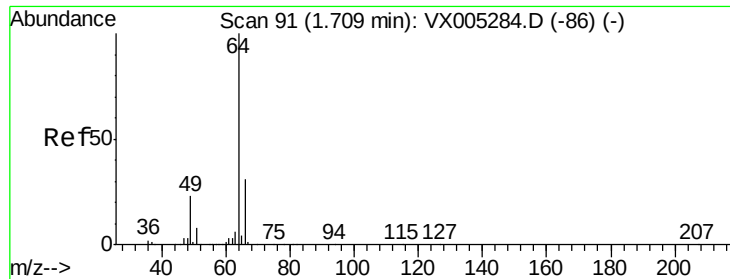
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.384 ug/l

RT: 1.67 min Scan# 84

Delta R.T. -0.04 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

Instrument :

MSVOA\_X

ClientSampleId :

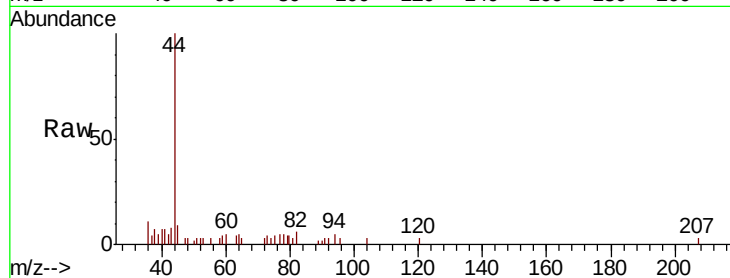
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 64 Resp: 108

Ion Ratio Lower Upper

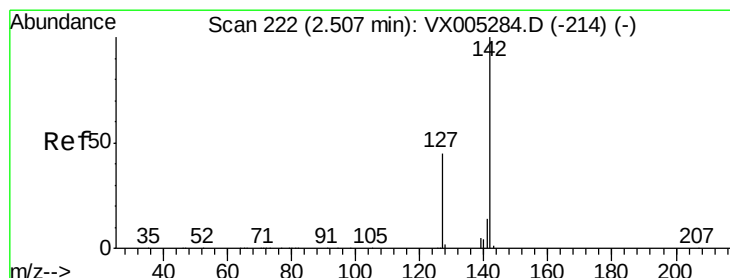
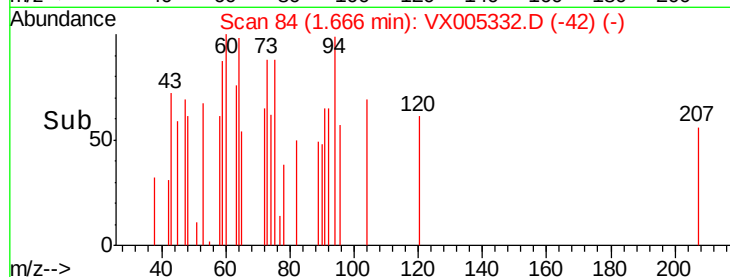
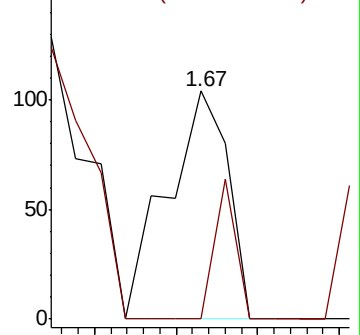
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.800 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

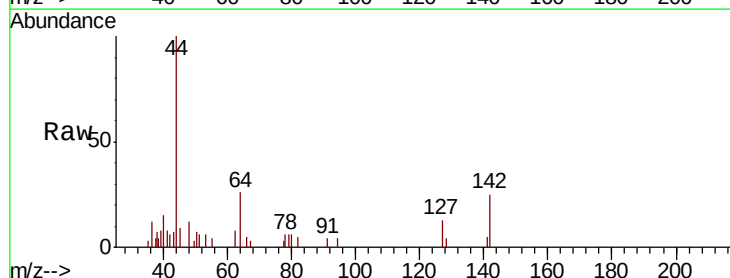
Tgt Ion:142 Resp: 933

Ion Ratio Lower Upper

142 100

127 48.4 33.8 50.6

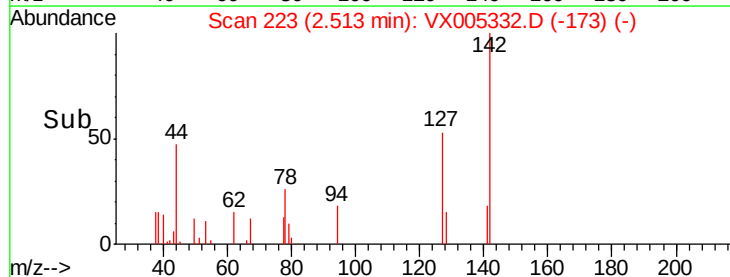
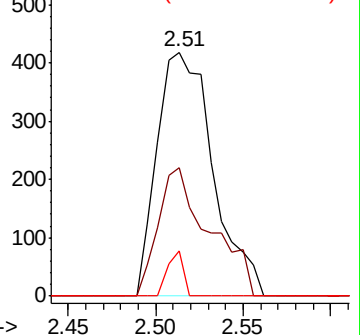
141 5.3 11.4 17.0#

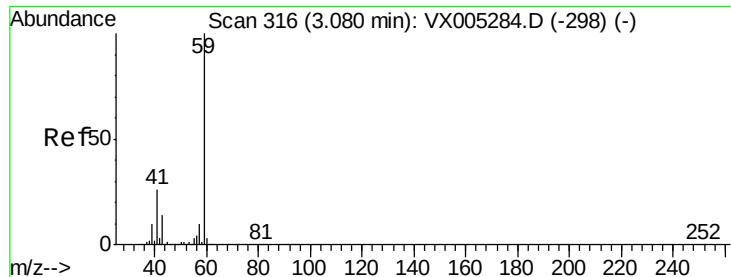


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



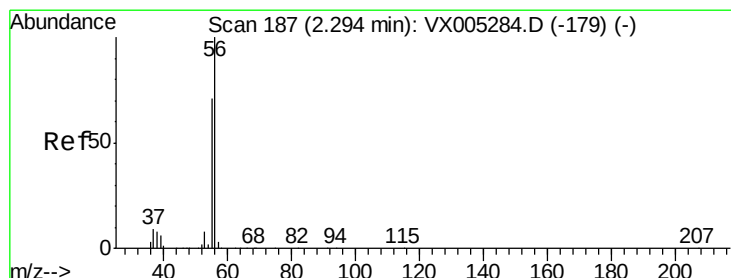
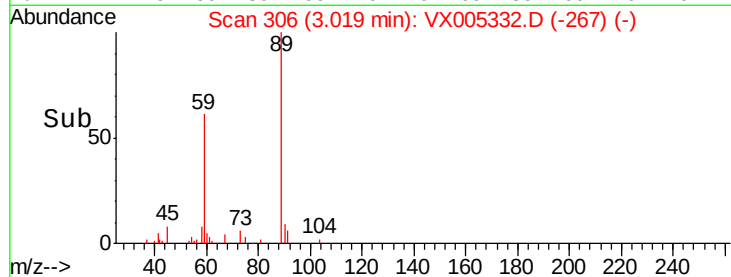
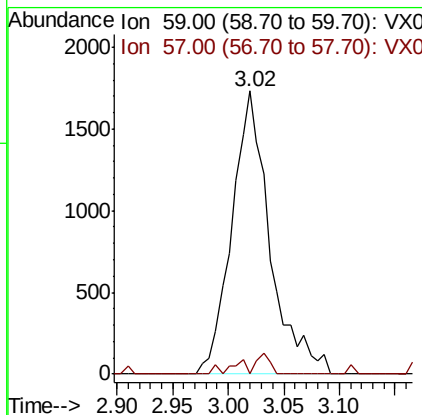
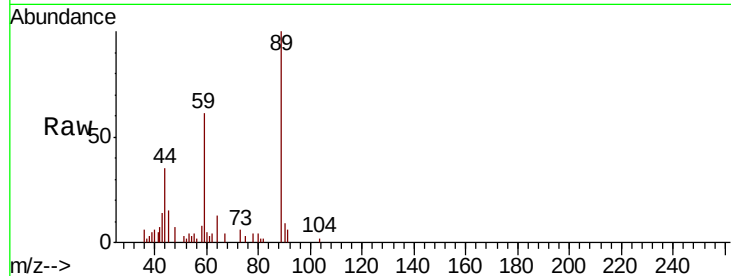


#11

Tert butyl alcohol  
 Concen: 4.477 ug/l  
 RT: 3.02 min Scan# 306  
 Delta R.T. -0.06 min  
 Lab File: VX005332.D  
 Acq: 15 Oct 2018 10:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-6

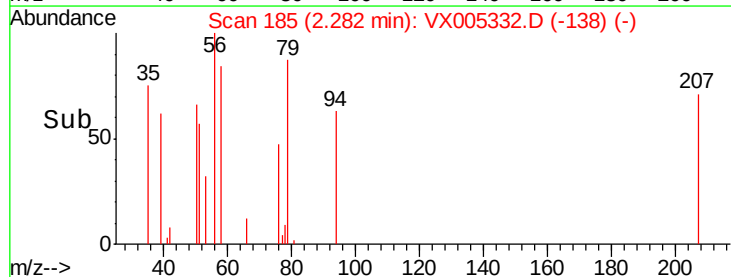
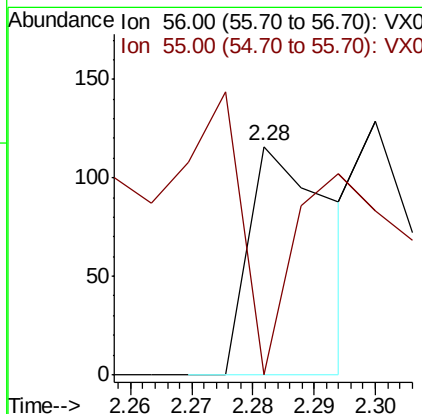
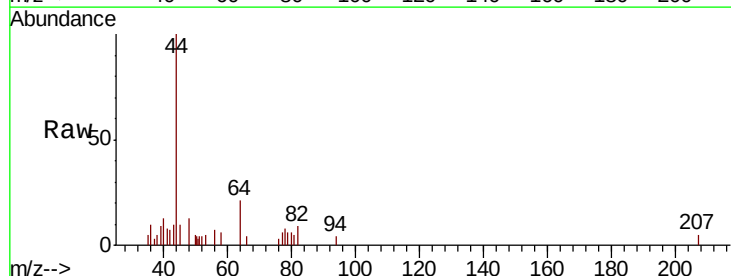
Tot Ion: 59 Resp: 4119  
 Ion Ratio Lower Upper  
 59 100  
 57 1.7 8.2 12.4#

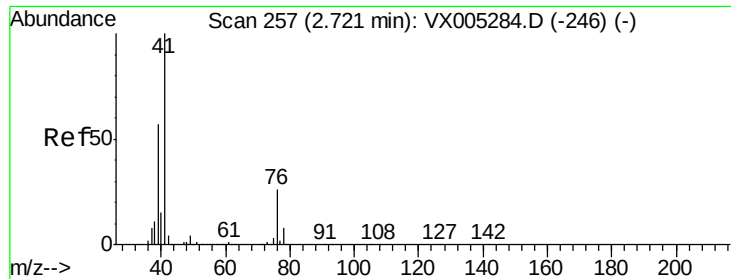


#13

Acrolein  
 Concen: Below Cal  
 RT: 2.28 min Scan# 185  
 Delta R.T. -0.01 min  
 Lab File: VX005332.D  
 Acq: 15 Oct 2018 10:09

Tgt Ion: 56 Resp: 109  
 Ion Ratio Lower Upper  
 56 100  
 55 237.6 54.7 82.1#

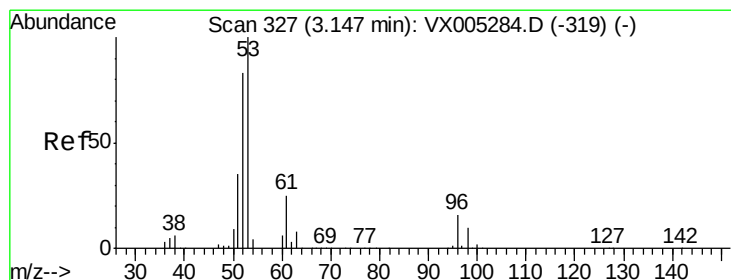
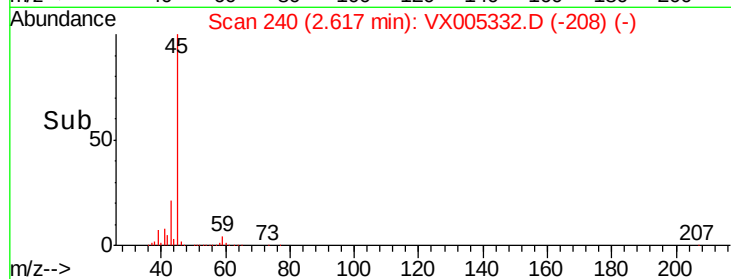
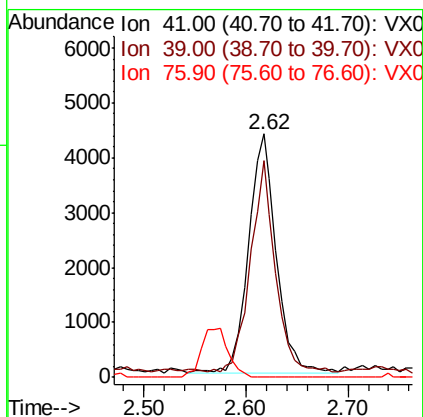
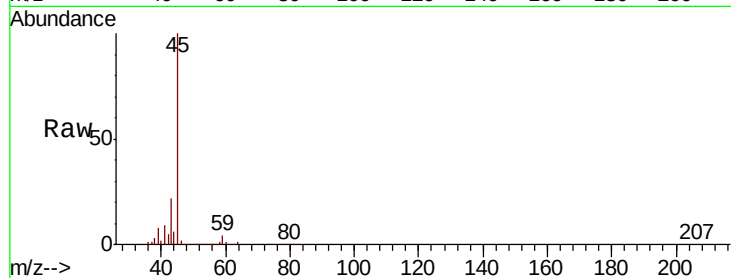




#14  
Allvl chloride  
Concen: 1.468 ug/l  
RT: 2.62 min Scan# 240  
Delta R.T. -0.10 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

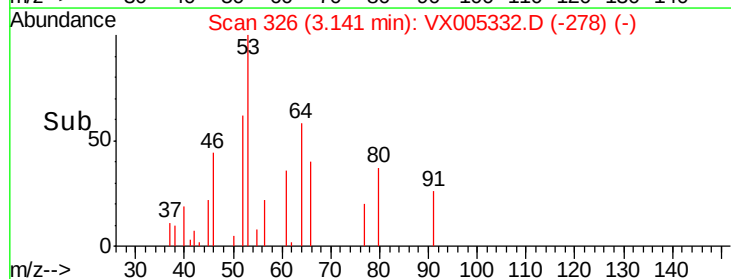
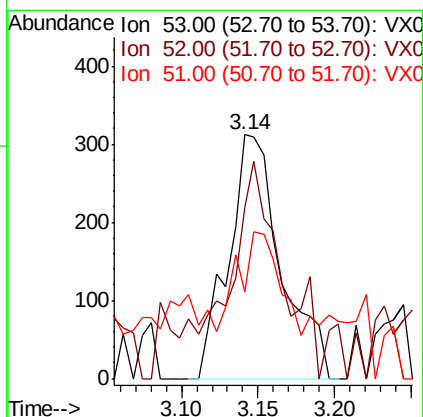
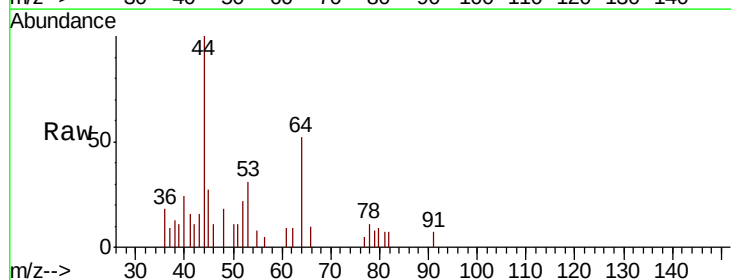
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

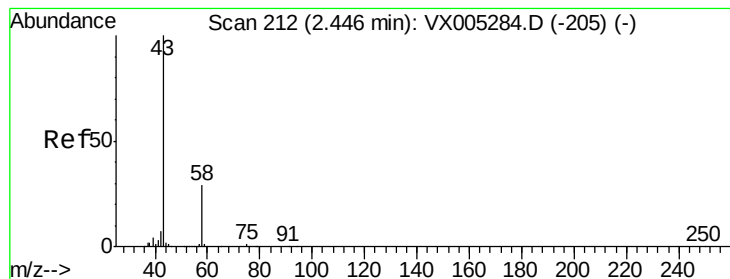
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 79.0  | 48.9  | 73.3# |
| 76      | 0.0   | 26.7  | 40.1# |



#15  
Acrylonitrile  
Concen: 0.359 ug/l  
RT: 3.14 min Scan# 326  
Delta R.T. -0.01 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 53      | 100   |       |       |
| 52      | 62.2  | 65.2  | 97.8# |
| 51      | 34.5  | 28.2  | 42.2  |





#16

Acetone

Concen: 1.189 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

Instrument :

MSVOA\_X

ClientSampleId :

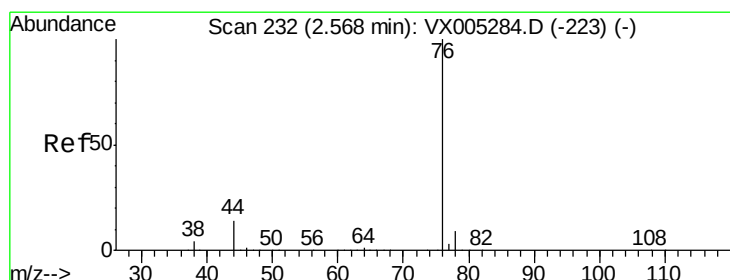
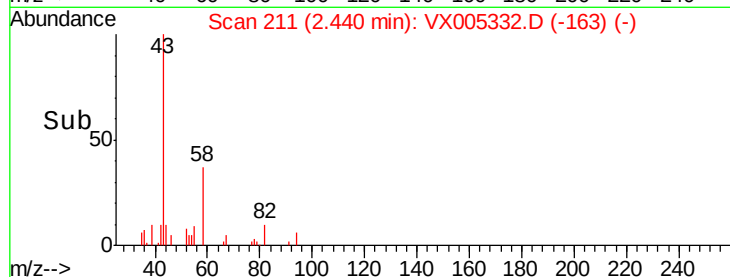
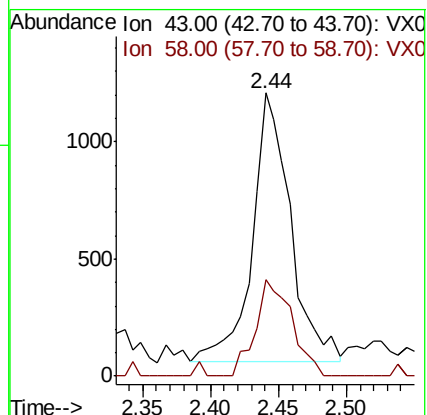
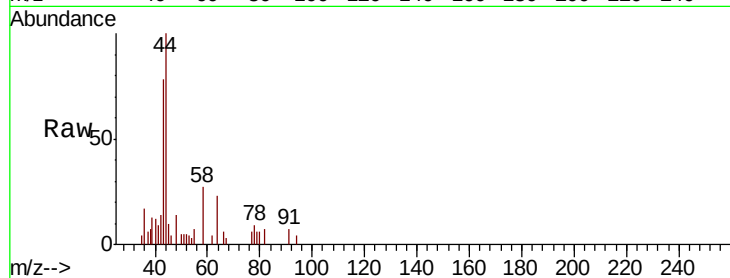
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 2242

Ion Ratio Lower Upper

43 100

58 36.0 26.2 39.4



#17

Carbon Disulfide

Concen: 0.210 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005332.D

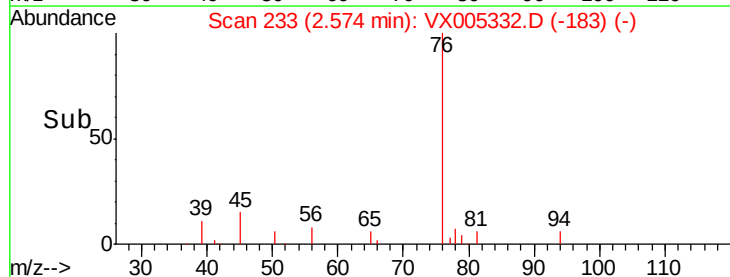
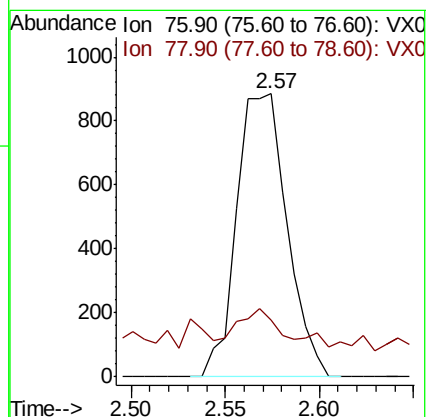
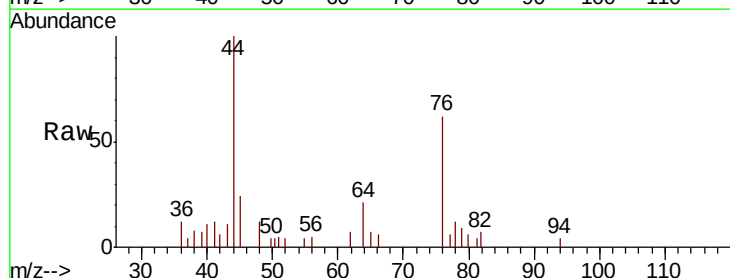
Acq: 15 Oct 2018 10:09

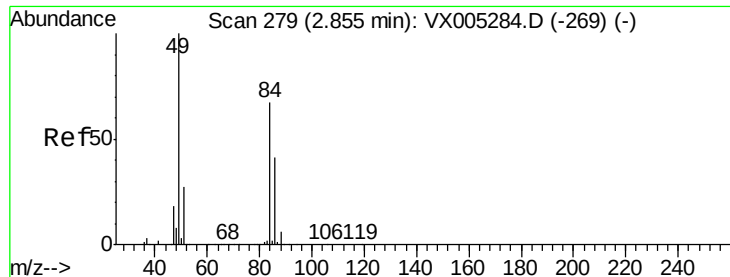
Tgt Ion: 76 Resp: 1639

Ion Ratio Lower Upper

76 100

78 7.8 7.0 10.6

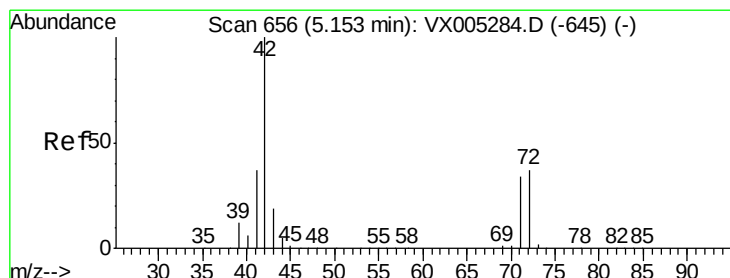
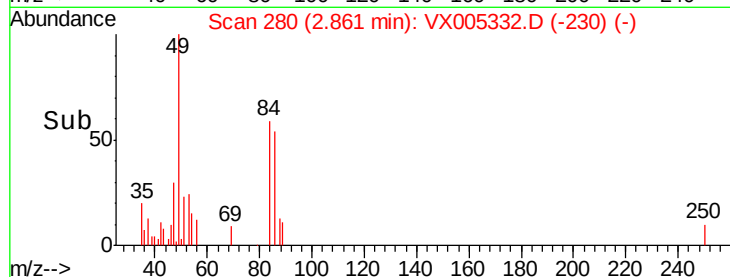
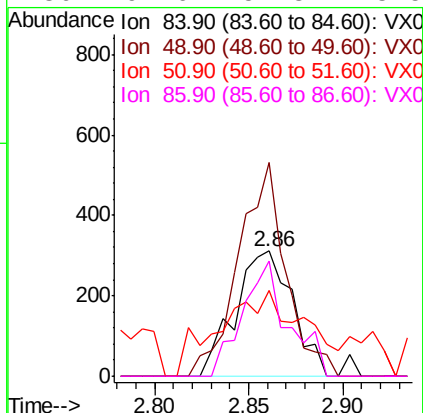
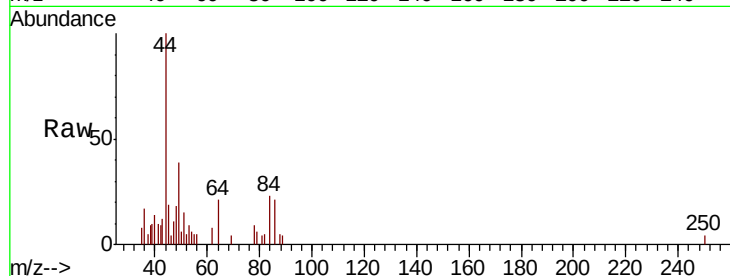




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

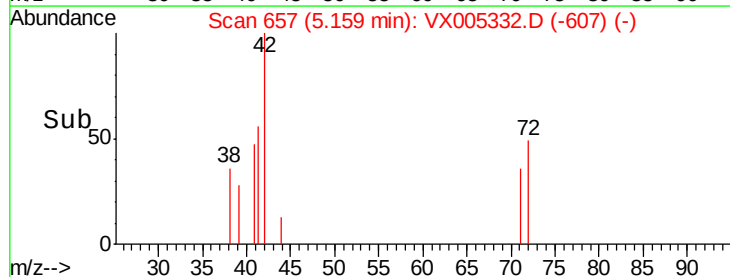
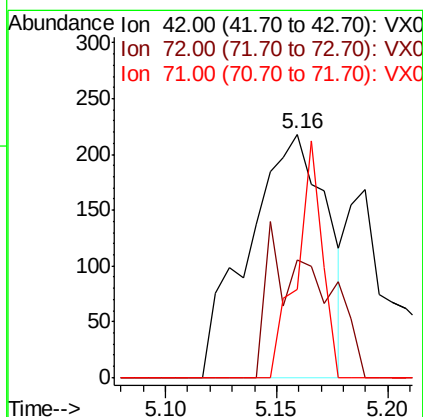
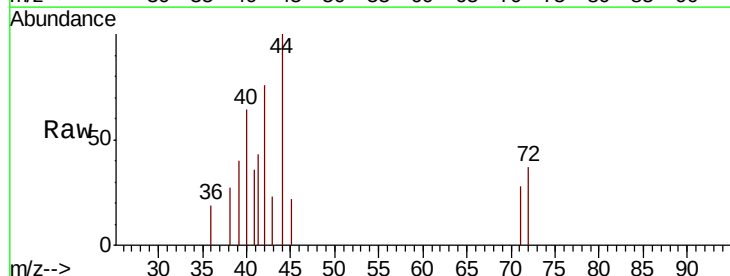
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 84 Resp: 658  
Ion Ratio Lower Upper  
84 100  
49 170.7 101.2 151.8#  
51 47.9 29.5 44.3#  
86 91.6 52.3 78.5#

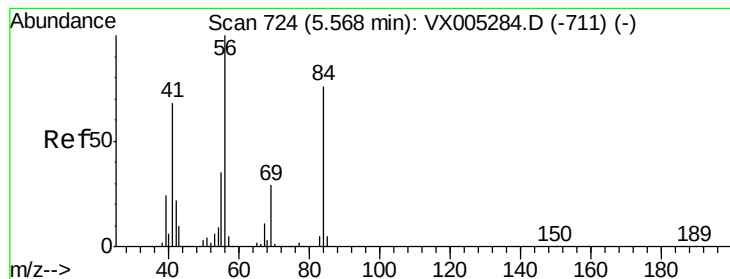


#29  
Tetrahydrofuran  
Concen: 0.303 ug/l  
RT: 5.16 min Scan# 657  
Delta R.T. 0.01 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

Tgt Ion: 42 Resp: 533  
Ion Ratio Lower Upper  
42 100  
72 42.2 37.4 56.0  
71 31.5 34.5 51.7#







#31

Cyclohexane

Concen: 1.121 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.09 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

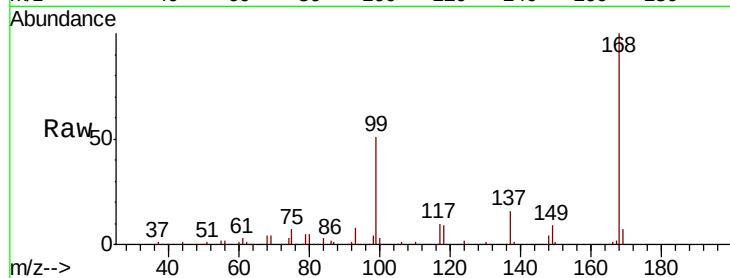
Tot Ion: 56 Resp: 5025

Ion Ratio Lower Upper

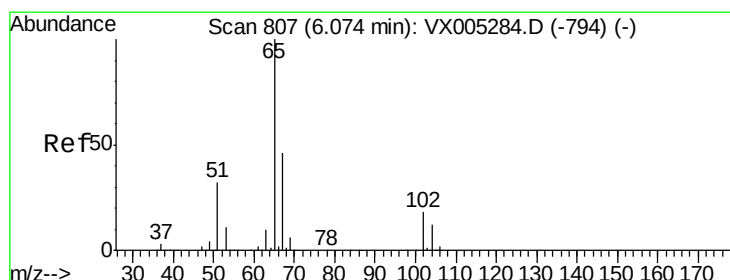
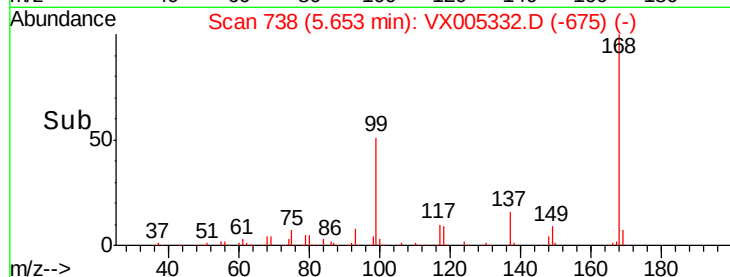
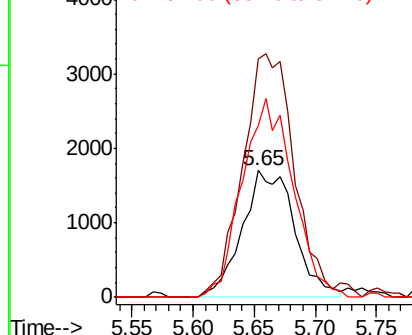
56 100

69 187.6 25.4 38.2#

84 135.3 71.4 107.2#



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: 50.176 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005332.D

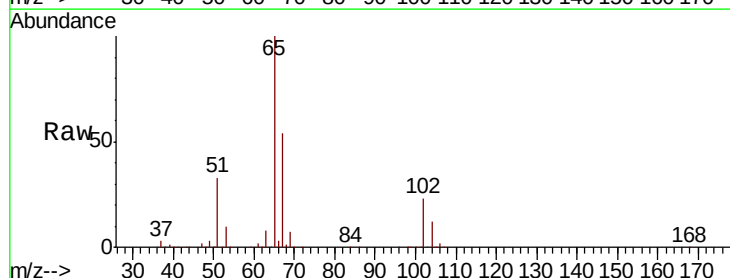
Acq: 15 Oct 2018 10:09

Tgt Ion: 65 Resp: 163660

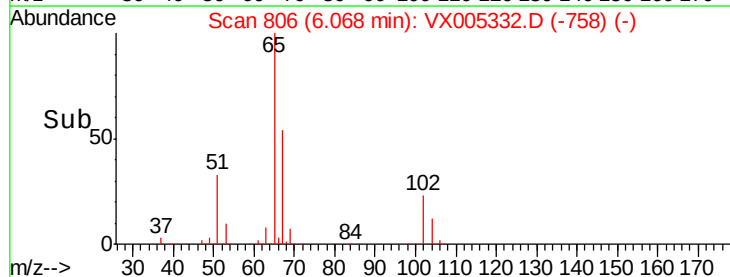
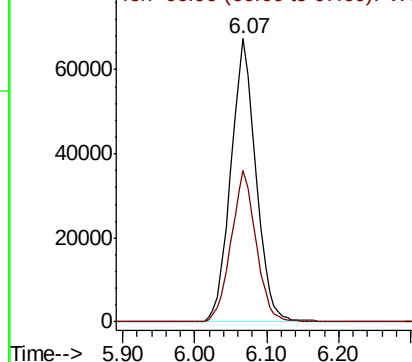
Ion Ratio Lower Upper

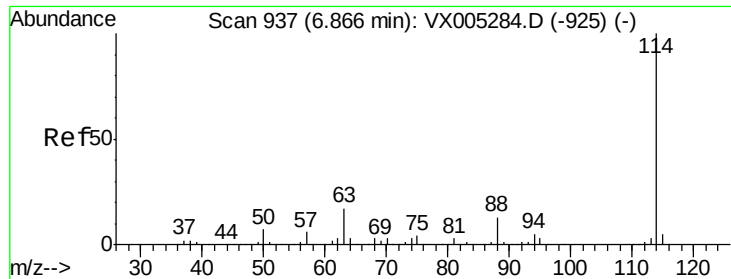
65 100

67 53.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

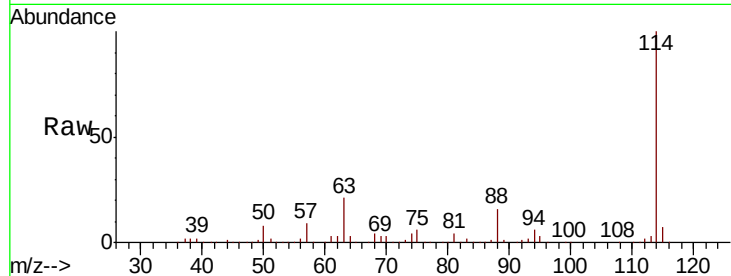




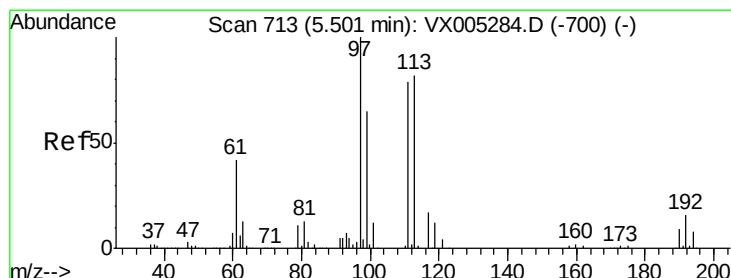
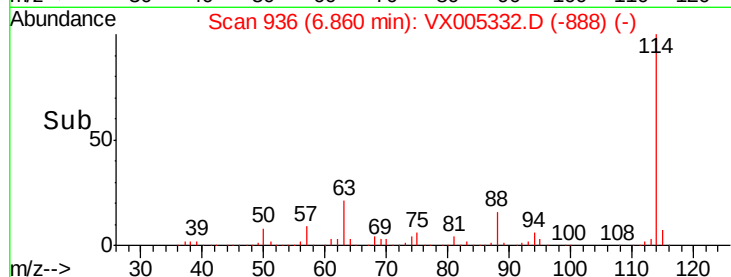
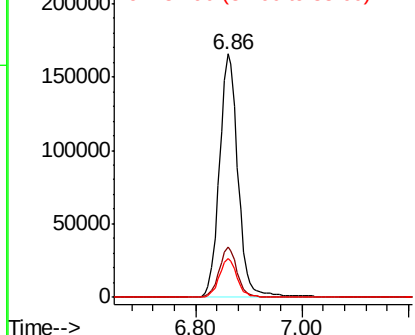
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.01 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

Tot Ion:114 Resp: 405498  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 39.0  
88 15.9 0.0 30.4

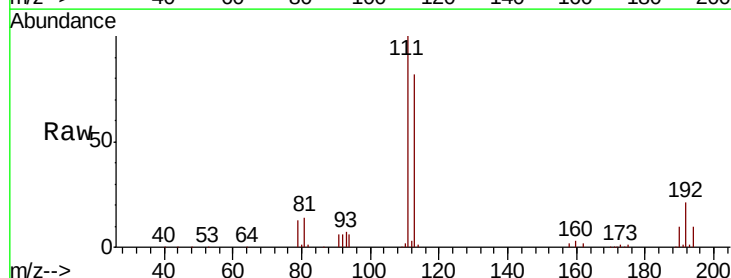


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

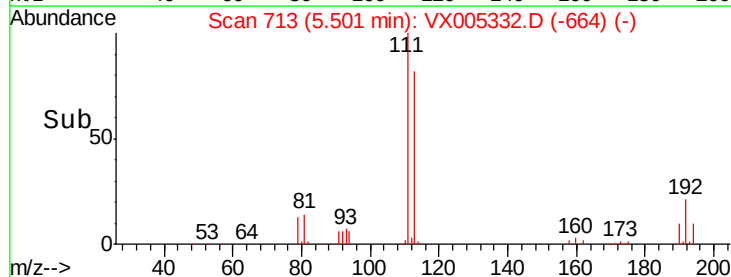
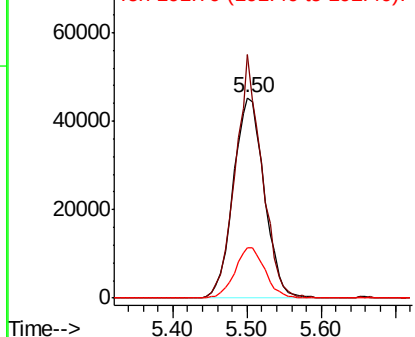


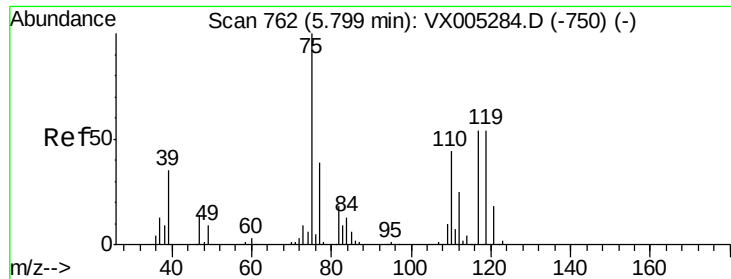
#35  
Dibromofluoromethane  
Concen: 49.321 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.00 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

Tgt Ion:113 Resp: 132461  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.4 123.6  
192 24.3 19.4 29.2



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

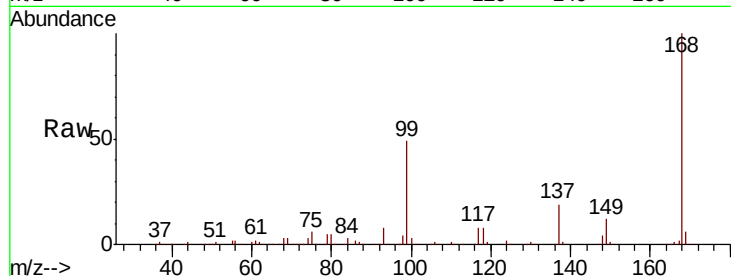




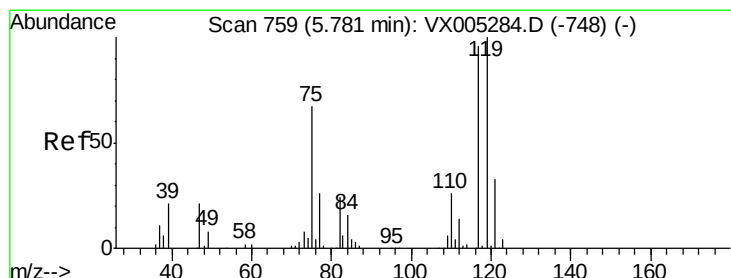
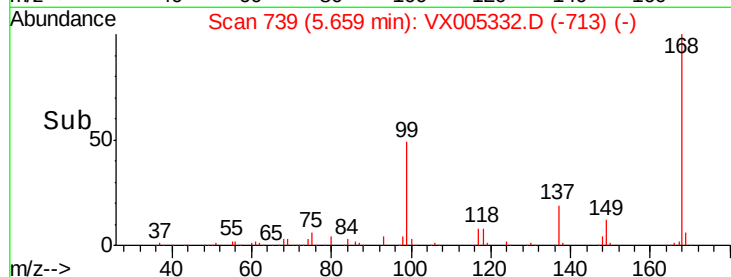
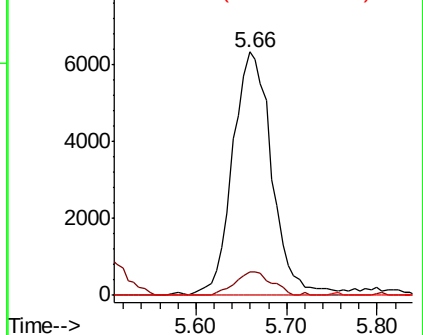
#36  
 1,1-Dichloropropene  
 Concen: 4.827 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX005332.D  
 Acq: 15 Oct 2018 10:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 18.0  | 54.0# |
| 77      | 0.0   | 24.6  | 36.8# |

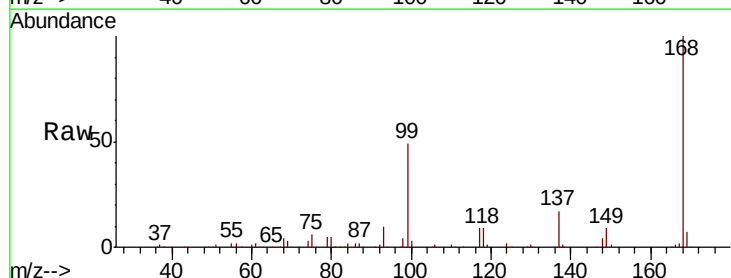


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

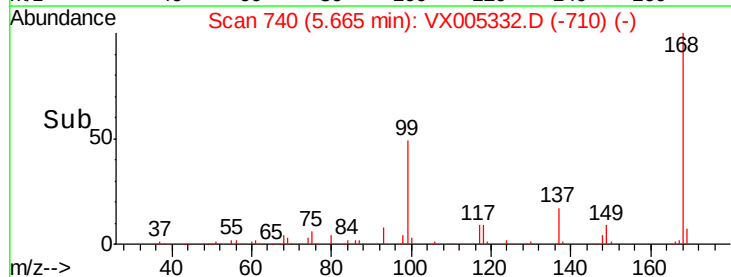
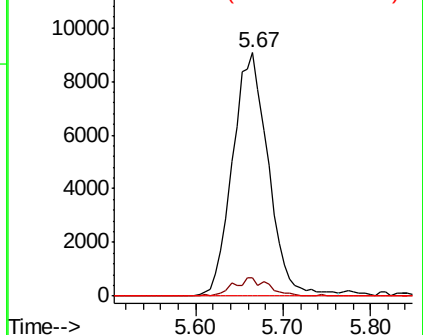


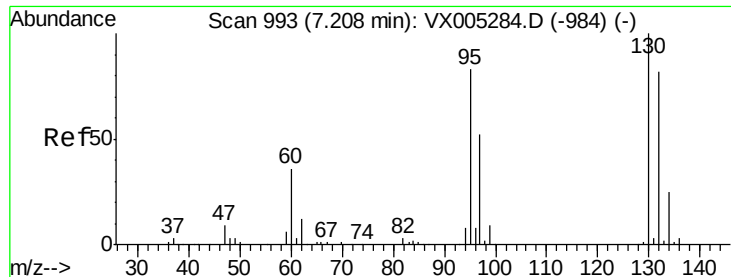
#38  
 Carbon Tetrachloride  
 Concen: 6.546 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX005332.D  
 Acq: 15 Oct 2018 10:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 7.6   | 78.8  | 118.2# |
| 121     | 0.0   | 24.9  | 37.3#  |



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





#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

Instrument :

MSVOA\_X

ClientSampleId :

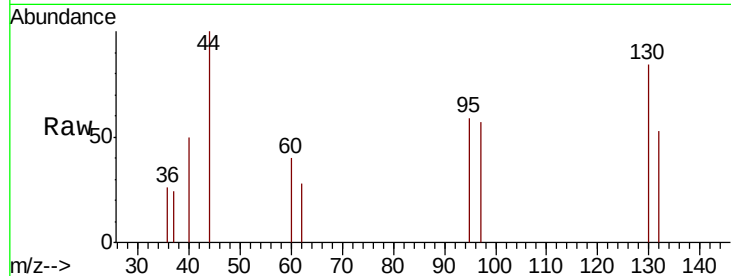
STORAGE-BLANK-SOIL-REF-6

Tot Ion:130 Resp: 296

Ion Ratio Lower Upper

130 100

95 69.8 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

200

150

100

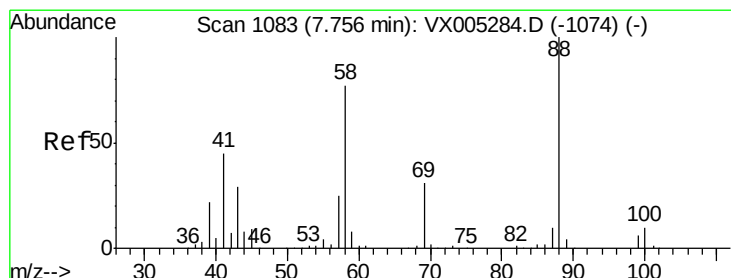
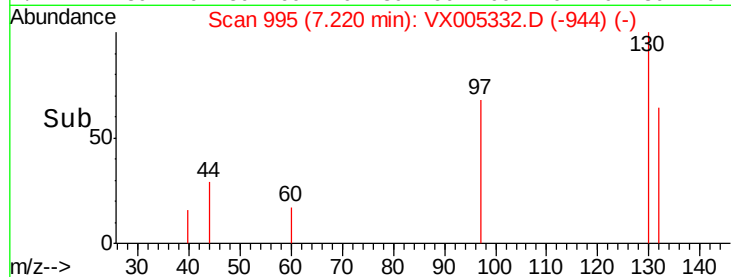
50

0

7.20

7.25

Time-->



#49

1,4-Dioxane

Concen: 0.671 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

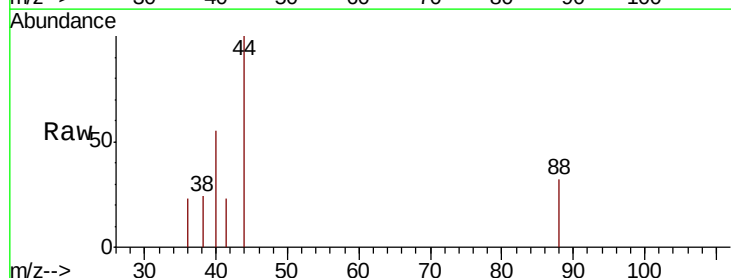
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 98.1 24.7 37.1#

58 0.0 55.3 82.9#



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

120

100

80

60

40

20

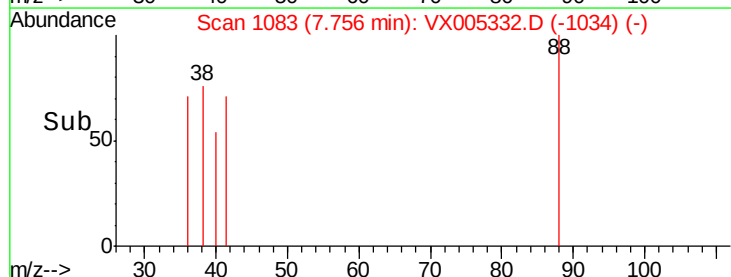
0

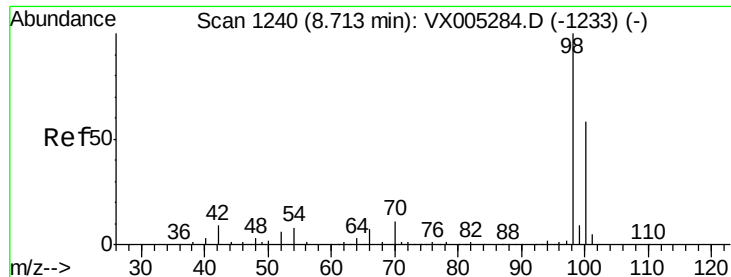
7.74

7.76

7.78

Time-->





#50

Toluene-d8

Concen: 52.053 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

Instrument :

MSVOA\_X

ClientSampleId :

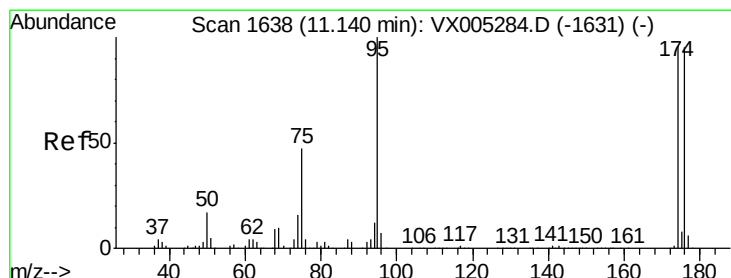
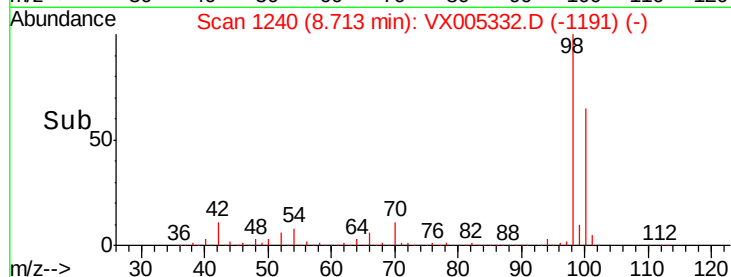
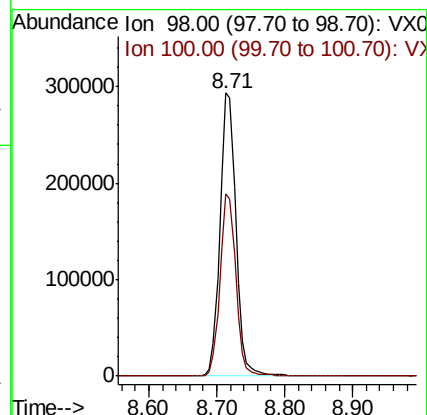
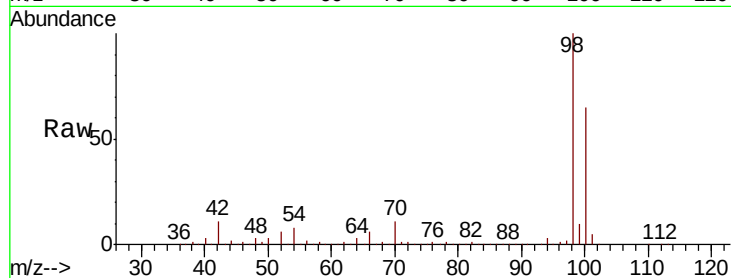
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 98 Resp: 479943

Ion Ratio Lower Upper

98 100

100 64.2 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.430 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005332.D

Acq: 15 Oct 2018 10:09

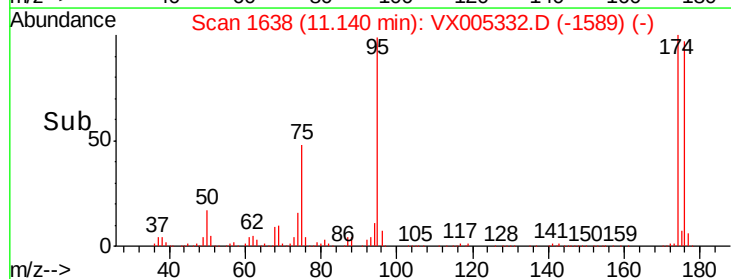
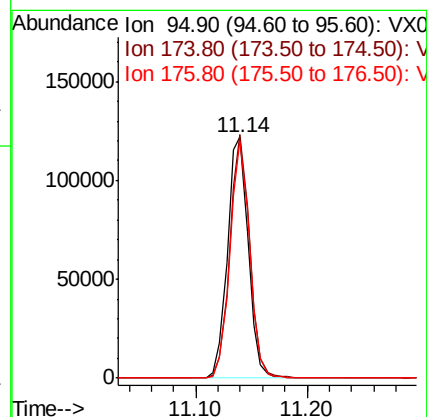
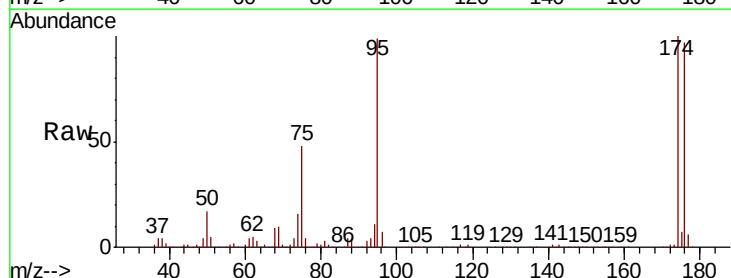
Tgt Ion: 95 Resp: 157356

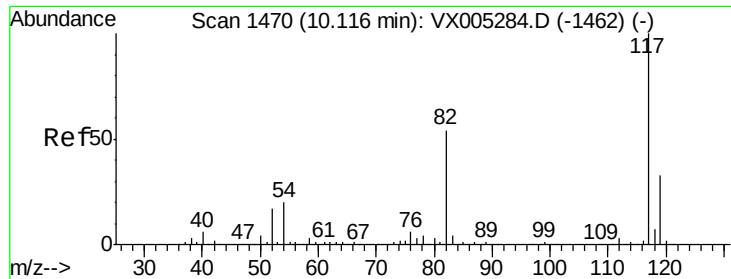
Ion Ratio Lower Upper

95 100

174 96.3 0.0 185.2

176 92.8 0.0 178.6

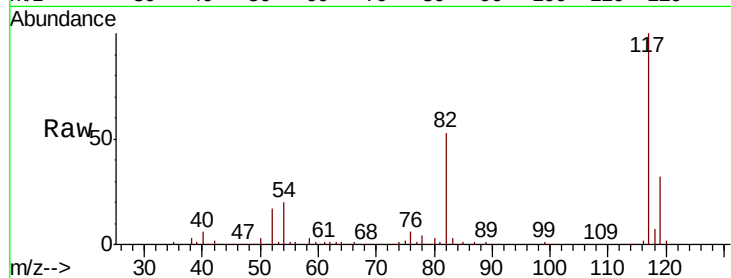




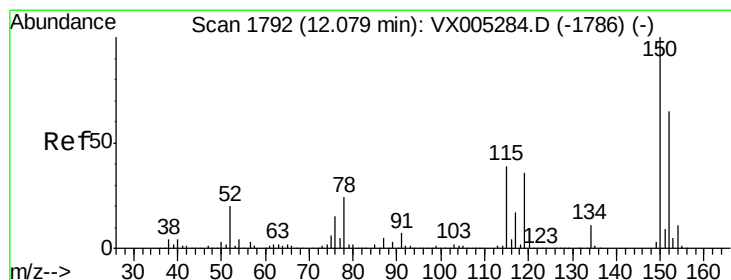
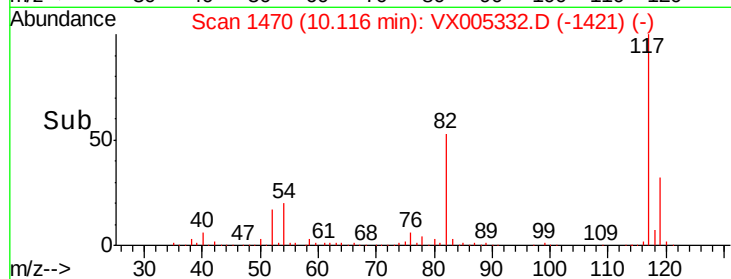
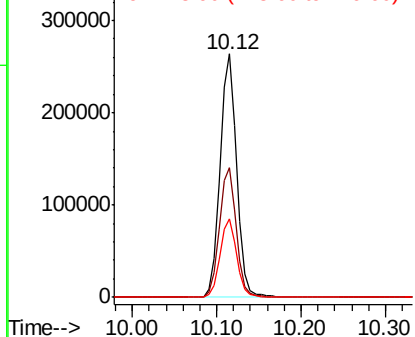
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

Tot Ion:117 Resp: 360510  
Ion Ratio Lower Upper  
117 100  
82 53.3 47.8 71.6  
119 32.0 29.3 43.9

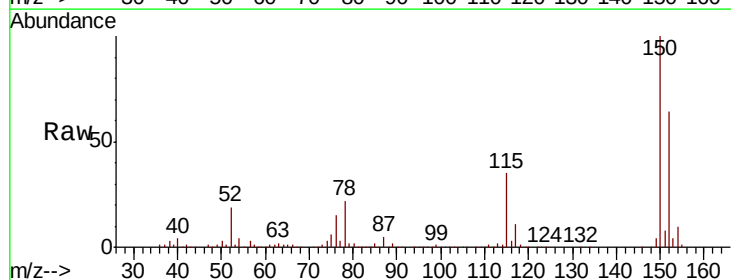


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

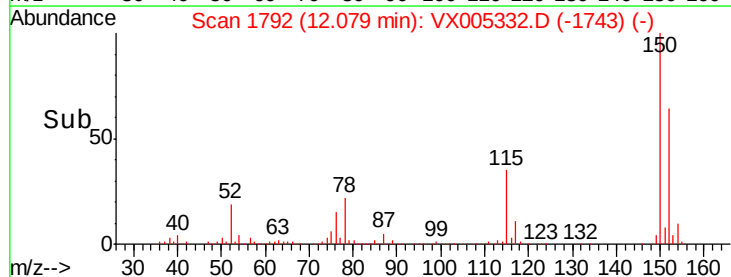
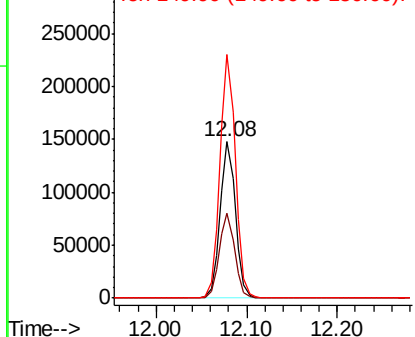


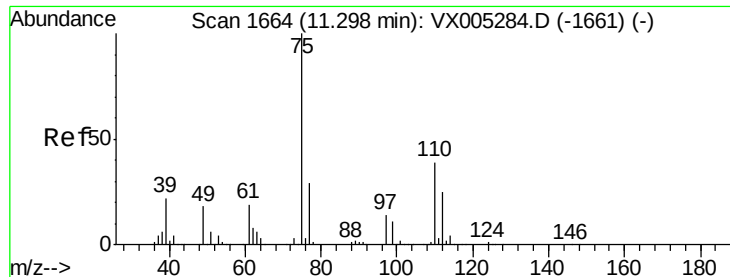
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX005332.D  
Acq: 15 Oct 2018 10:09

Tgt Ion:152 Resp: 174509  
Ion Ratio Lower Upper  
152 100  
115 54.9 39.0 117.0  
150 157.4 0.0 351.0



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

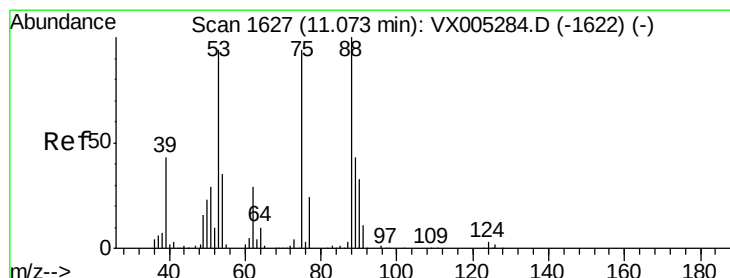
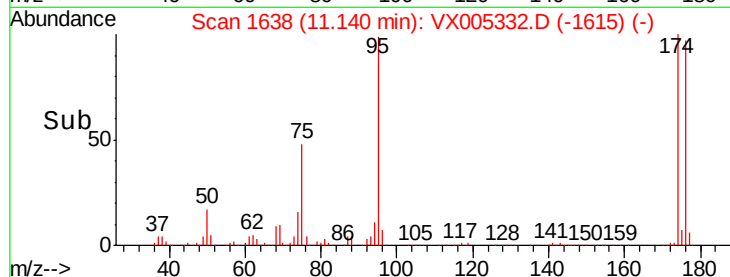
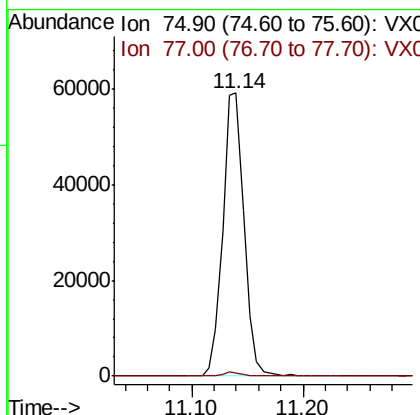
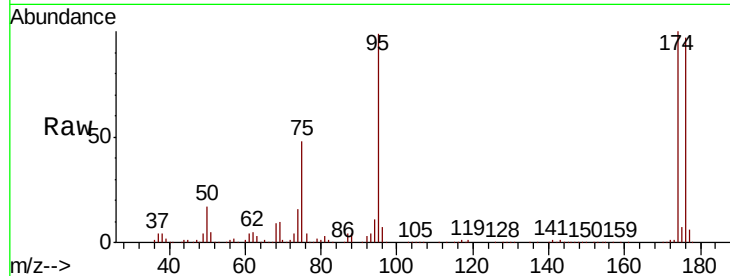




#76  
 1,2,3-Trichloropropane  
 Concen: 23.025 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX005332.D  
 Acq: 15 Oct 2018 10:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 77940  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 20.2 60.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.962 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. 0.07 min  
 Lab File: VX005332.D  
 Acq: 15 Oct 2018 10:09

Tgt Ion: 75 Resp: 77940  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 80.1 120.1#  
 89 0.0 37.2 55.8#

