

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX100918\  
 Data File : VX005199.D  
 Acq On : 10 Oct 2018 10:06  
 Operator : JC/MD  
 Sample : J5303-16  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-TW516-1014

Quant Time: Oct 10 13:56:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 177691   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 274086   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 275895   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 154945   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 135659   | 53.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.88% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 114789   | 49.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.84%  |      |
| 50) Toluene-d8              | 8.72   | 98  | 399021   | 51.67 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.34% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 144239   | 51.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.70% |      |

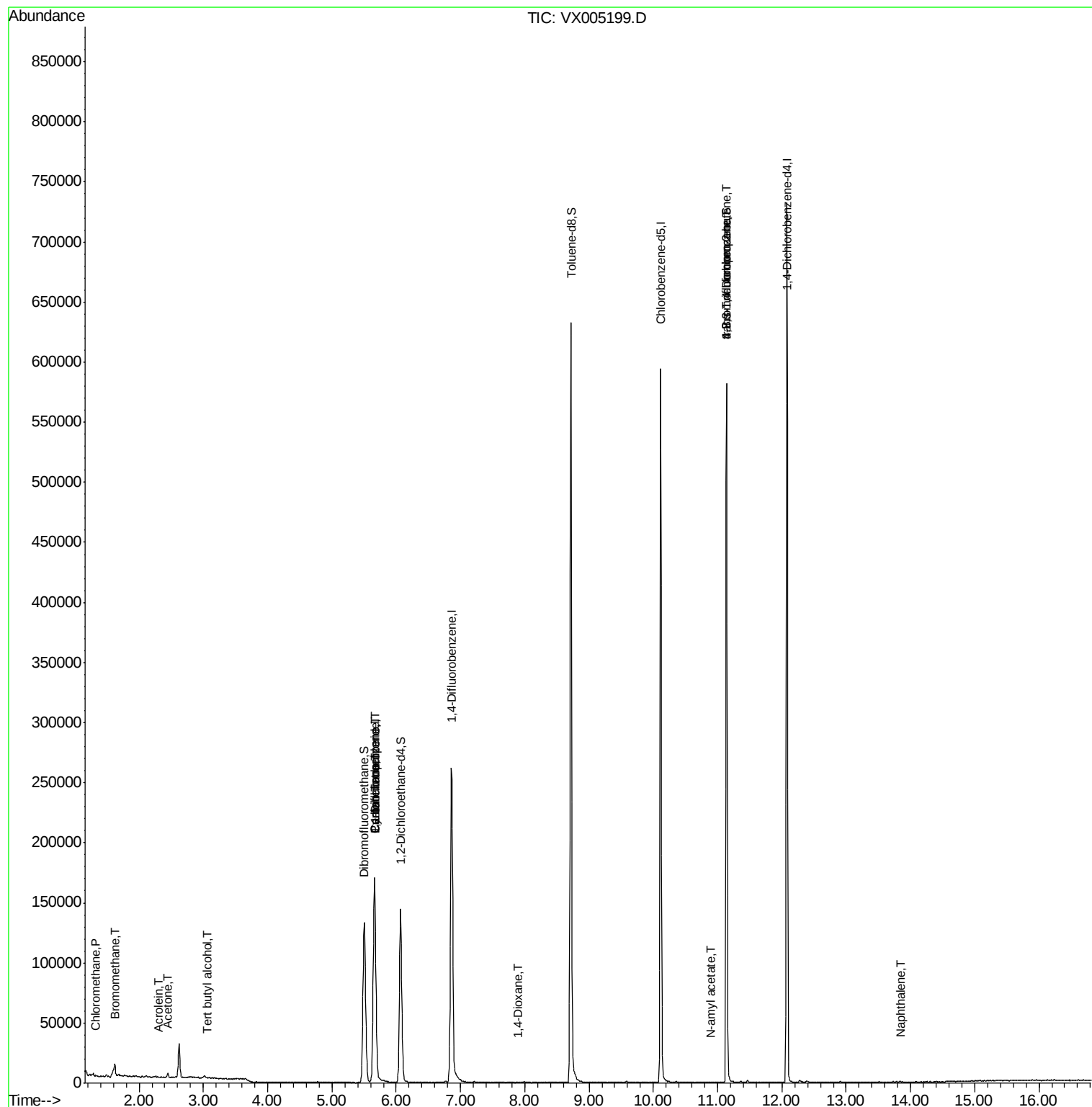
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 980      | 0.33      | ug/l   | 96     |
| 5) Bromomethane                | 1.63  | 94   | 410      | 0.25      | ug/l # | 75     |
| 6) Chloroethane                | 1.69  | 64   | 210      | Below Cal | #      | 45     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 390      | 0.55      | ug/l # | 58     |
| 13) Acrolein                   | 2.31  | 56   | 116      | 0.23      | ug/l   | 85     |
| 16) Acetone                    | 2.45  | 43   | 3727     | 2.51      | ug/l # | 88     |
| 20) Methylene Chloride         | 2.86  | 84   | 213      | Below Cal | #      | 40     |
| 31) Cyclohexane                | 5.67  | 56   | 3510     | 1.09      | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 12157    | 3.84      | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 15857    | 4.76      | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.90  | 88   | 21       | 0.31      | ug/l # | 1      |
| 74) N-amyl acetate             | 10.90 | 43   | 117      | 1.77      | ug/l # | 43     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 72028    | 20.74     | ug/l # | 35     |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 128      | Below Cal | #      | 50     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 72028    | 56.31     | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 230      | Below Cal |        | 98     |
| 95) Naphthalene                | 13.83 | 128  | 364      | 0.75      | ug/l # | 69     |

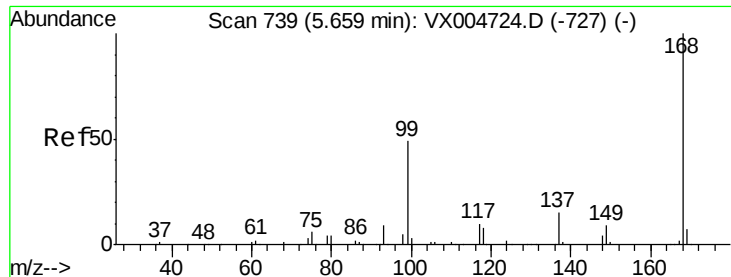
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX100918\  
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Quant Title : SW846 8260  
QLast Update : Wed Oct 03 04:00:03 2018  
Response via : Initial Calibration

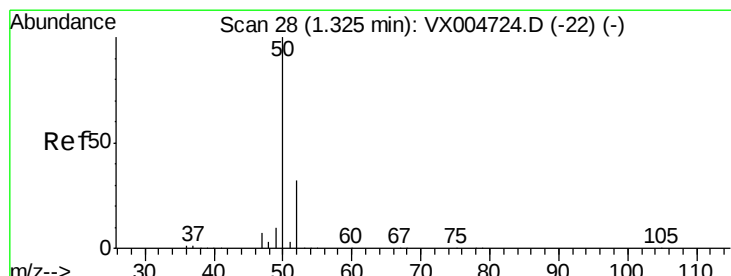
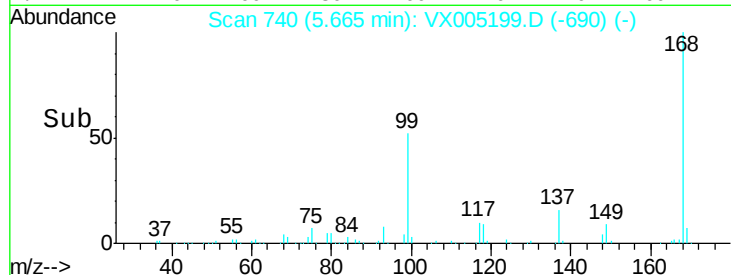
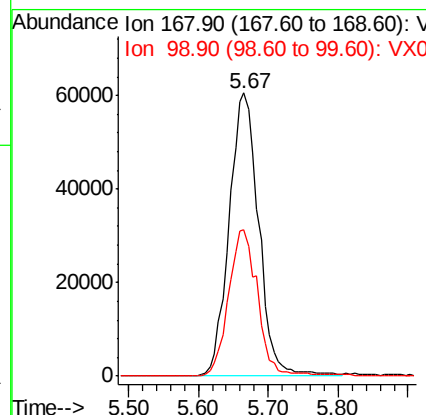
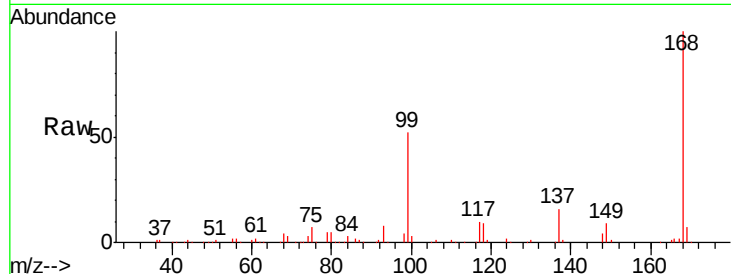




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.01 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

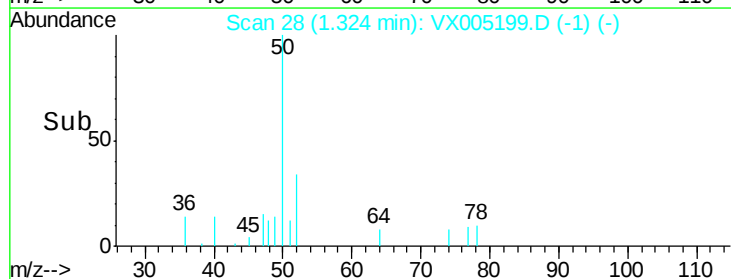
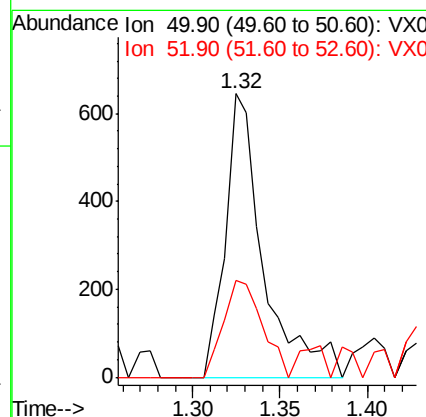
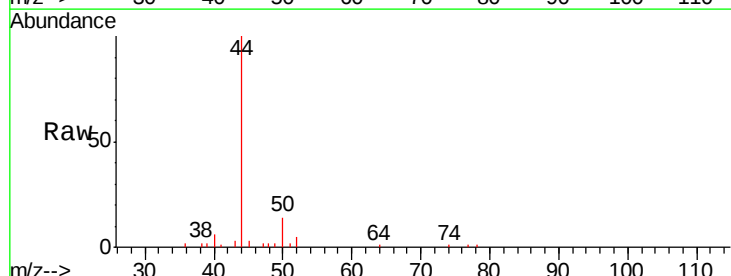
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

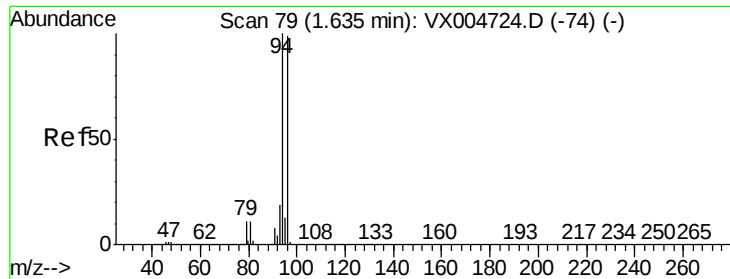
Tgt Ion: 168 Resp: 177691  
Ion Ratio Lower Upper  
168 100  
99 51.6 39.3 58.9



#3  
Chloromethane  
Concen: 0.33 ug/l  
RT: 1.32 min Scan# 28  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion: 50 Resp: 980  
Ion Ratio Lower Upper  
50 100  
52 34.3 25.8 38.6





#5

Bromomethane

Concen: 0.25 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX005199.D

Acq: 10 Oct 2018 10:06

Instrument :

MSVOA\_X

ClientSampleId :

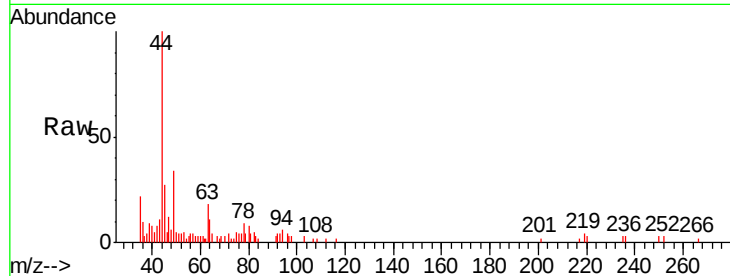
SA-TW516-1014

Tgt Ion: 94 Resp: 410

Ion Ratio Lower Upper

94 100

96 74.1 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

150

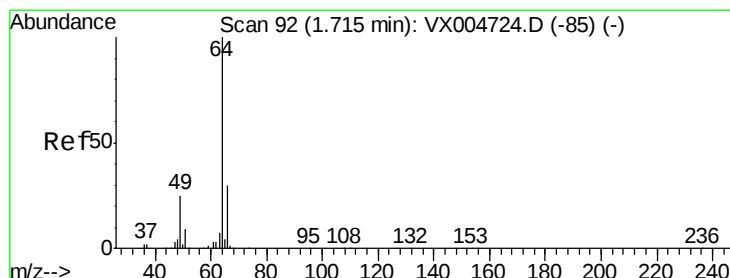
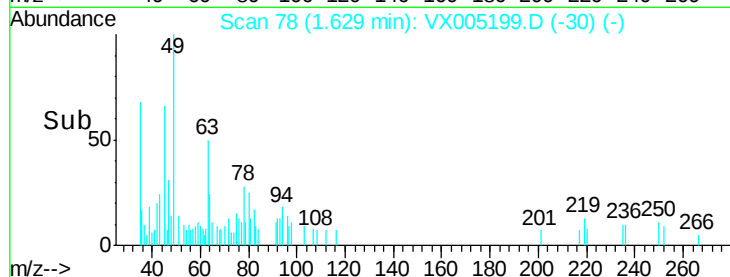
100

50

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX005199.D

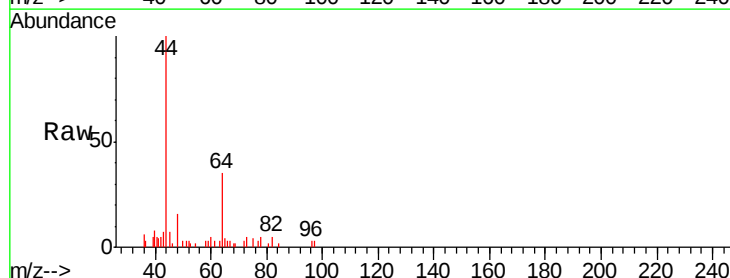
Acq: 10 Oct 2018 10:06

Tgt Ion: 64 Resp: 210

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

800

600

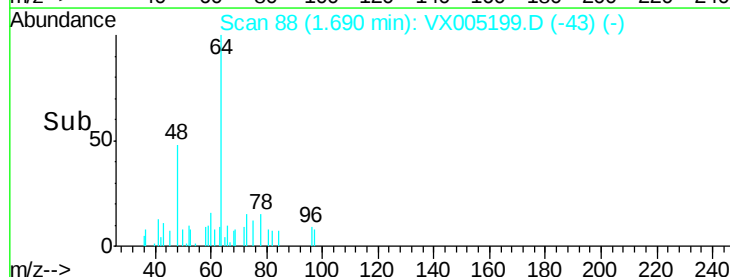
400

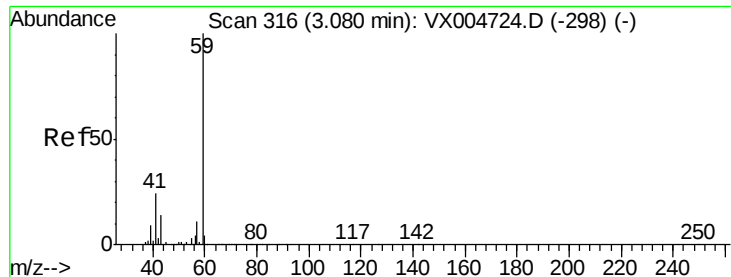
200

0

1.66 1.67 1.68 1.69 1.70

Time-->

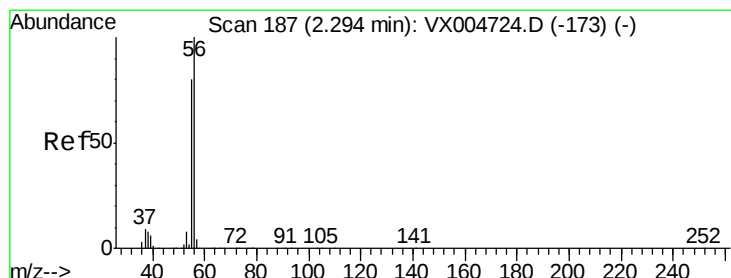
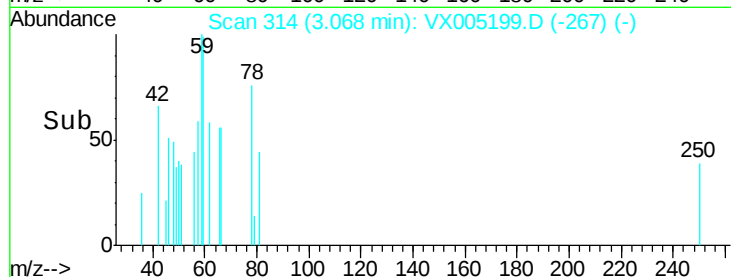
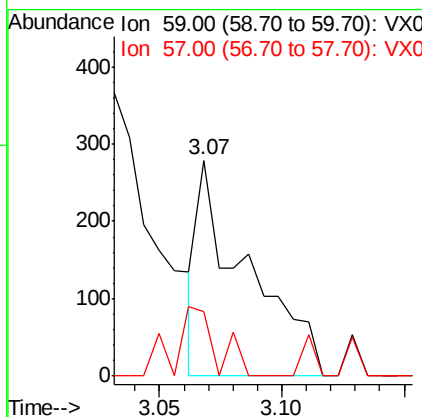
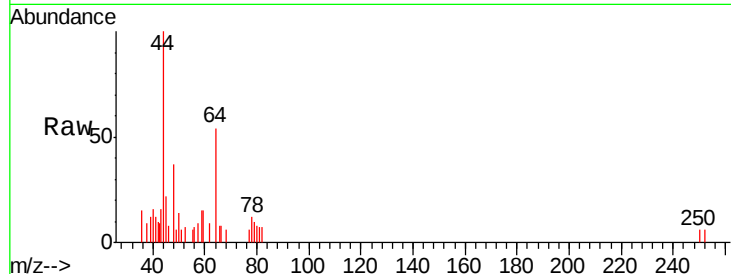




#11  
Tert butyl alcohol  
Concen: 0.55 ug/l  
RT: 3.07 min Scan# 314  
Delta R.T. -0.01 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

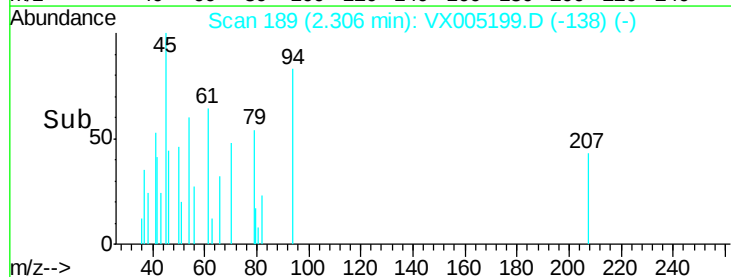
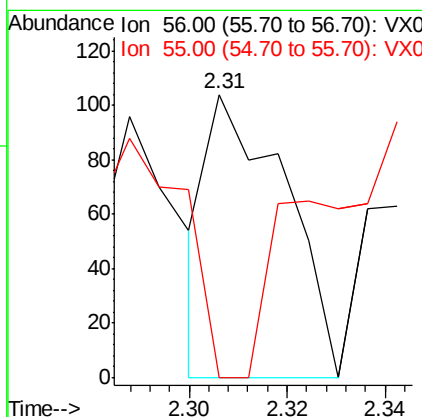
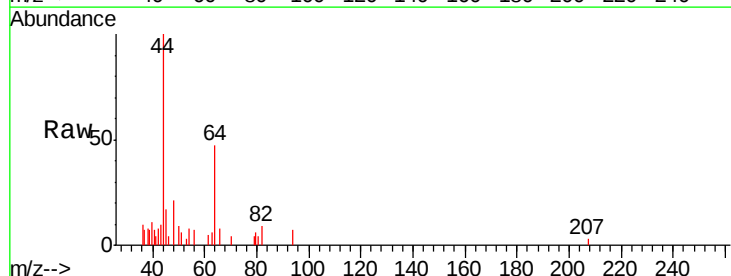
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

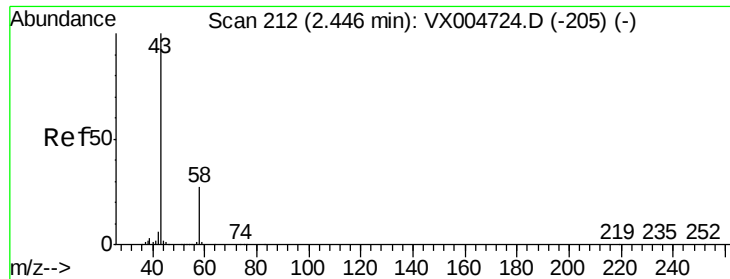
Tgt Ion: 59 Resp: 390  
Ion Ratio Lower Upper  
59 100  
57 26.7 8.6 12.8#



#13  
Acrolein  
Concen: 0.23 ug/l  
RT: 2.31 min Scan# 189  
Delta R.T. 0.01 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion: 56 Resp: 116  
Ion Ratio Lower Upper  
56 100  
55 92.2 63.4 95.2

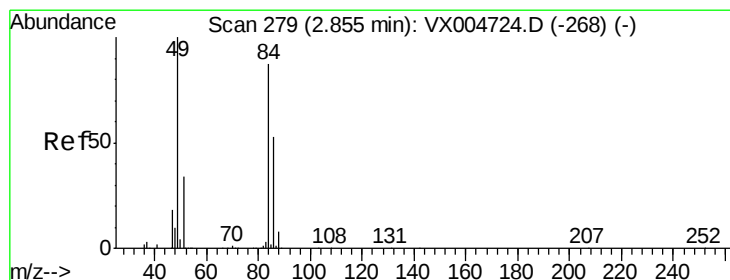
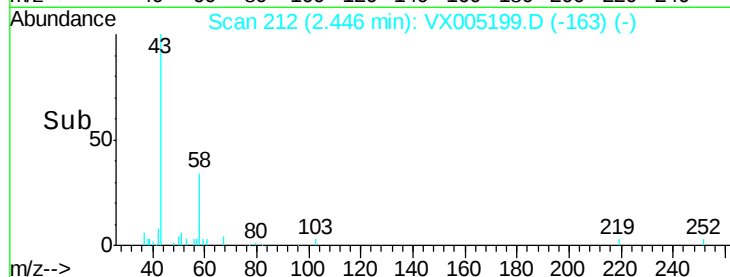
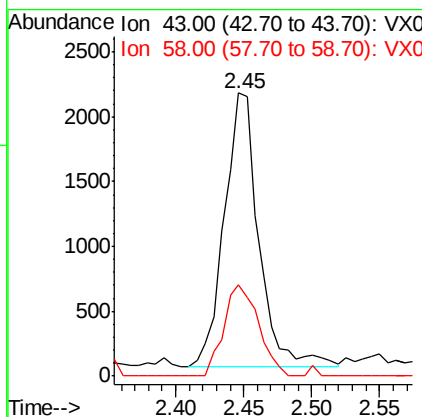
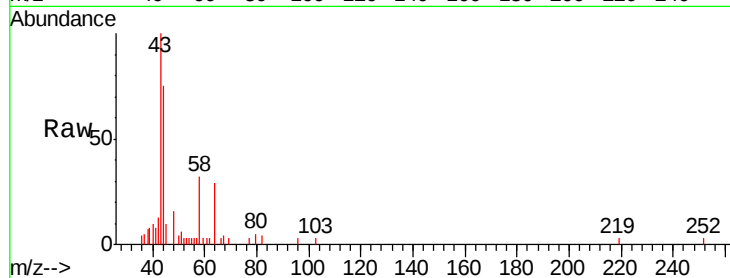




#16  
Acetone  
Concen: 2.51 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

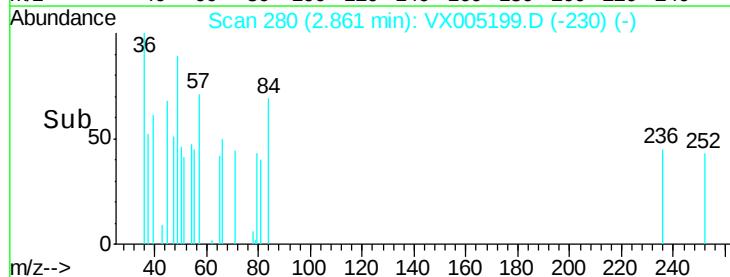
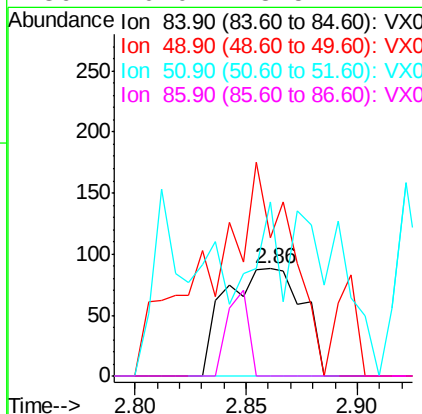
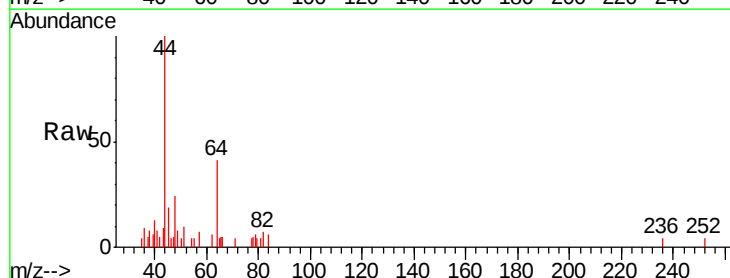
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

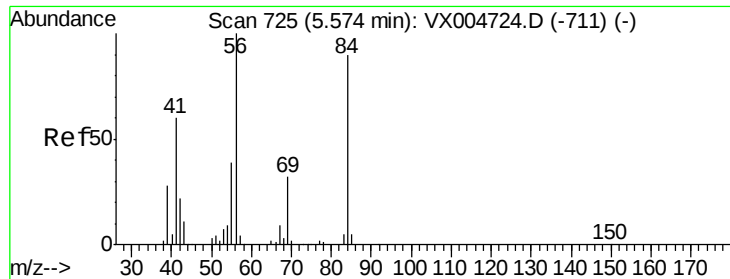
Tgt Ion: 43 Resp: 3727  
Ion Ratio Lower Upper  
43 100  
58 33.5 21.8 32.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion: 84 Resp: 213  
Ion Ratio Lower Upper  
84 100  
49 60.2 92.3 138.5#  
51 75.0 31.8 47.6#  
86 0.0 48.5 72.7#

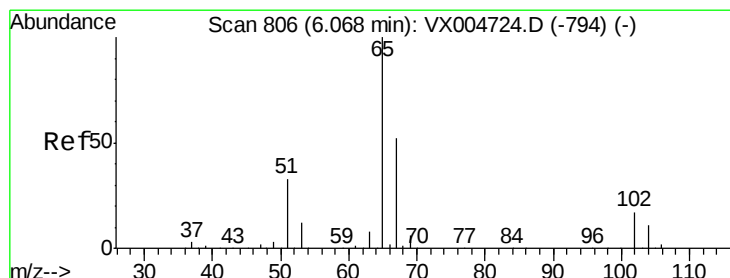
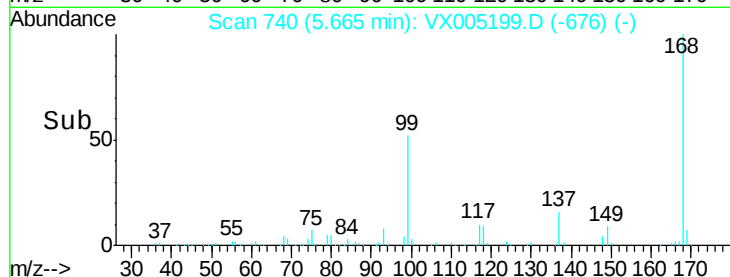
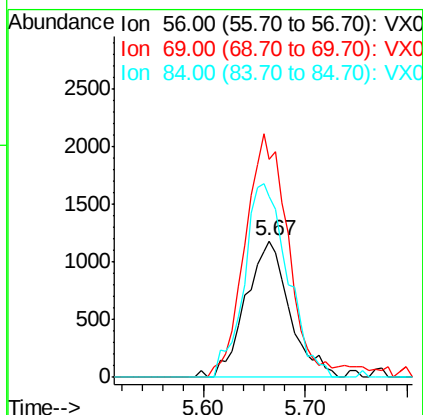
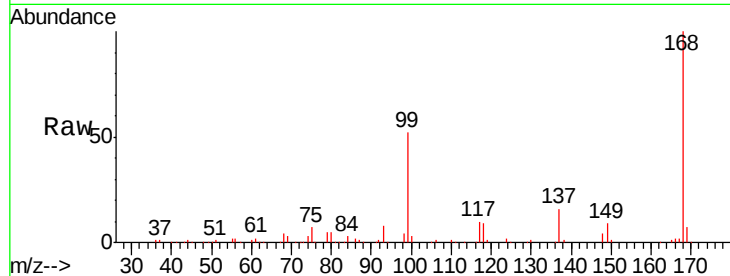




#31  
Cyclohexane  
Concen: 1.09 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

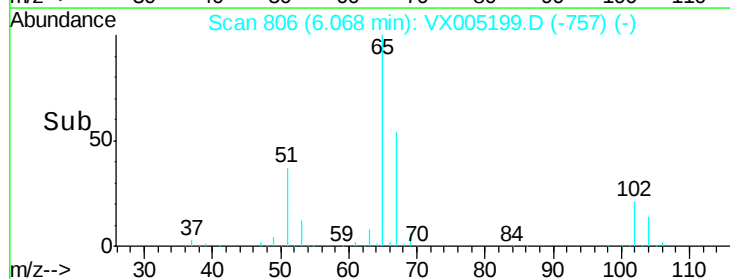
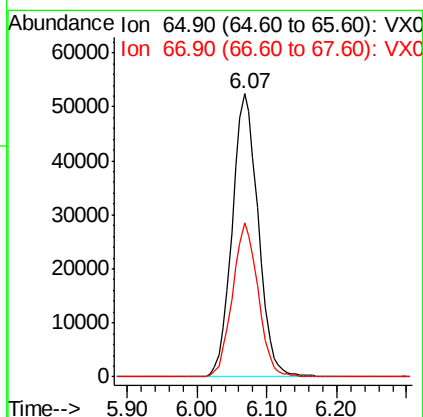
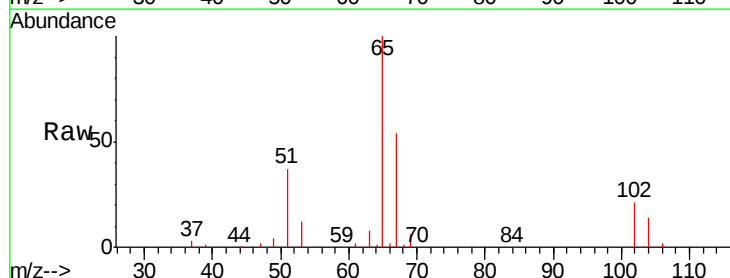
Instrument :  
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ClientSampleId :  
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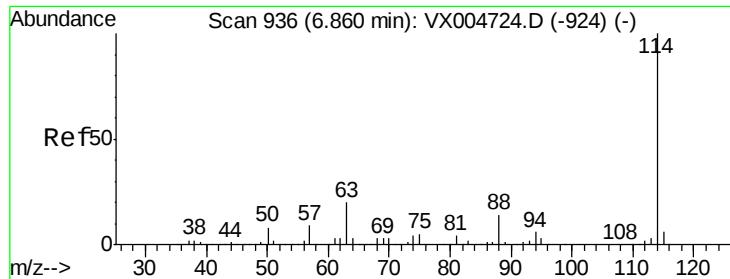
Tgt Ion: 56 Resp: 3510  
Ion Ratio Lower Upper  
56 100  
69 159.6 25.9 38.9#  
84 132.7 71.9 107.9#



#33  
1,2-Dichloroethane-d4  
Concen: 53.44 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion: 65 Resp: 135659  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 107.4

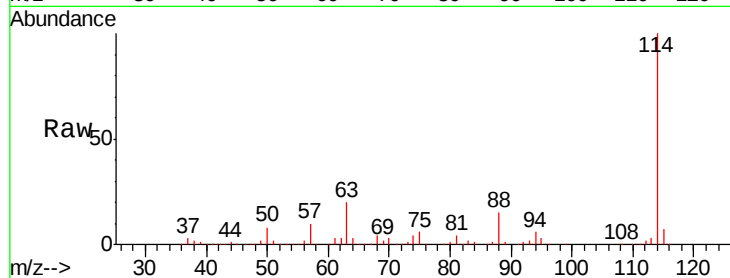




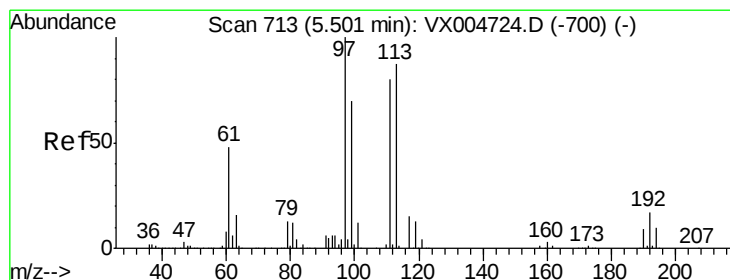
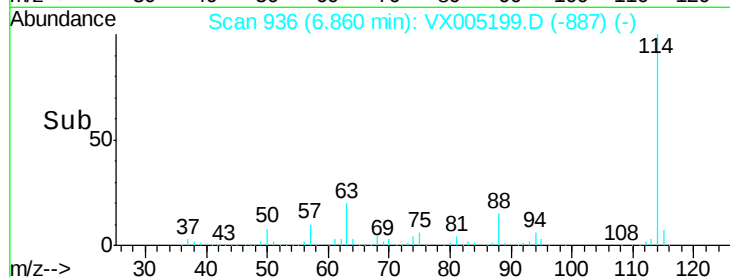
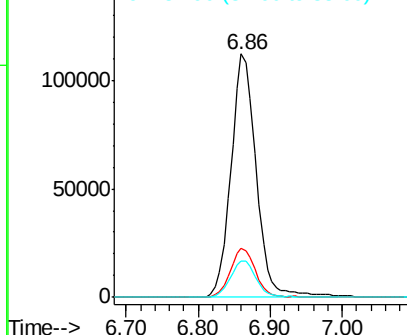
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

Tgt Ion:114 Resp: 274086  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 39.8  
88 15.1 0.0 27.0

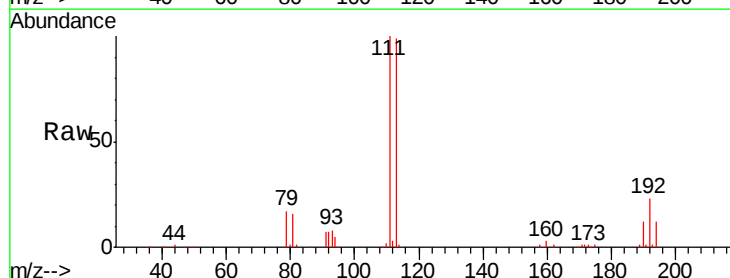


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

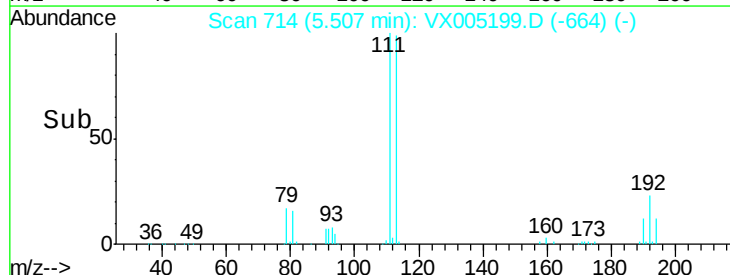
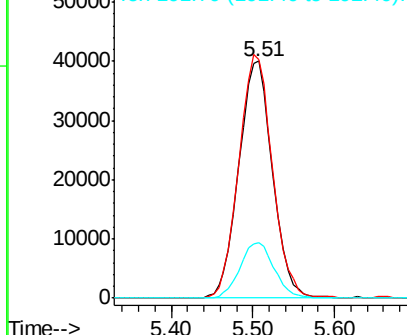


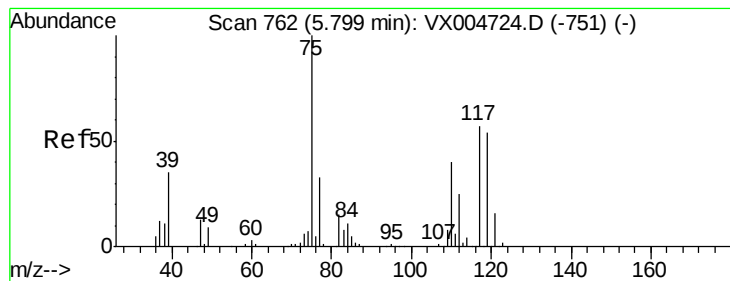
#35  
Dibromofluoromethane  
Concen: 49.42 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.01 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion:113 Resp: 114789  
Ion Ratio Lower Upper  
113 100  
111 102.6 77.0 115.4  
192 23.7 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.84 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005199.D

Acq: 10 Oct 2018 10:06

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW516-1014

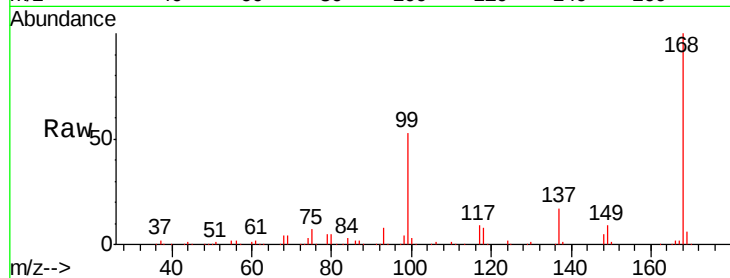
Tgt Ion: 75 Resp: 12157

Ion Ratio Lower Upper

75 100

110 9.3 20.0 59.9#

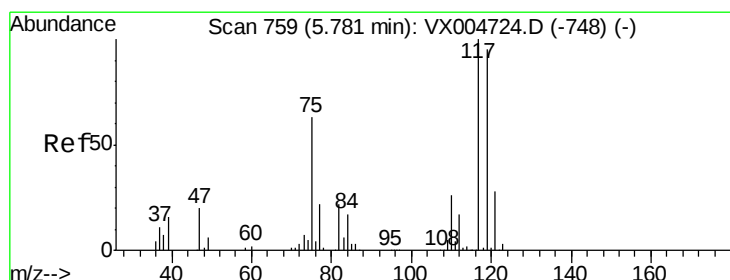
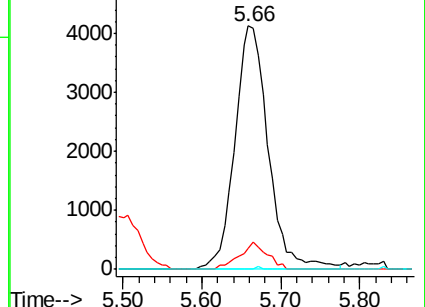
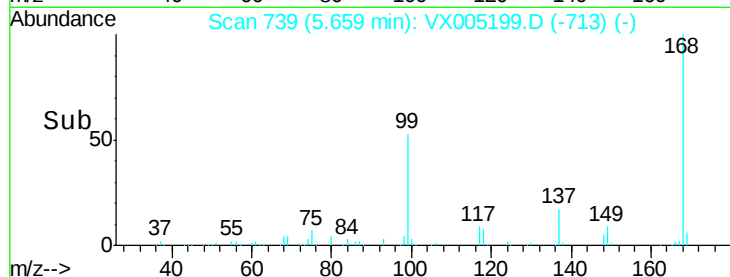
77 0.2 27.1 40.7#



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: 4.76 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005199.D

Acq: 10 Oct 2018 10:06

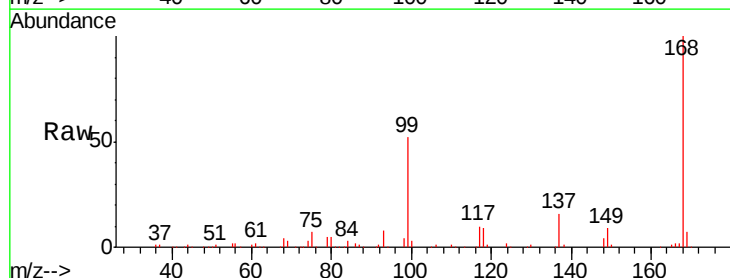
Tgt Ion: 117 Resp: 15857

Ion Ratio Lower Upper

117 100

119 6.1 75.2 112.8#

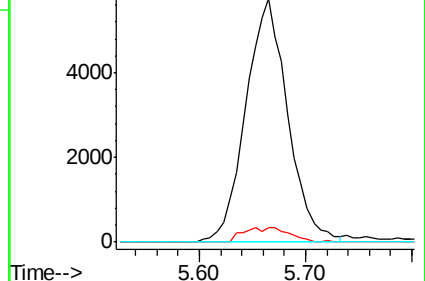
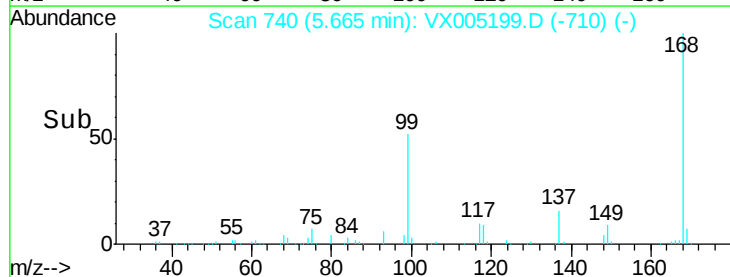
121 0.0 22.5 33.7#

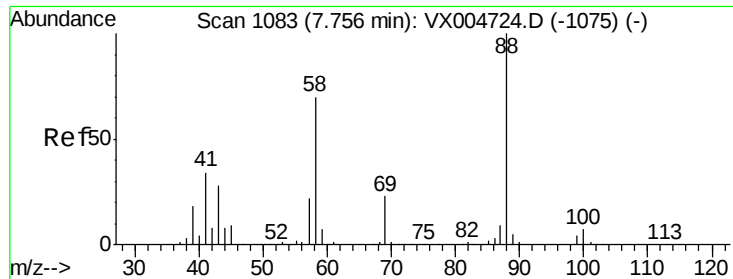


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

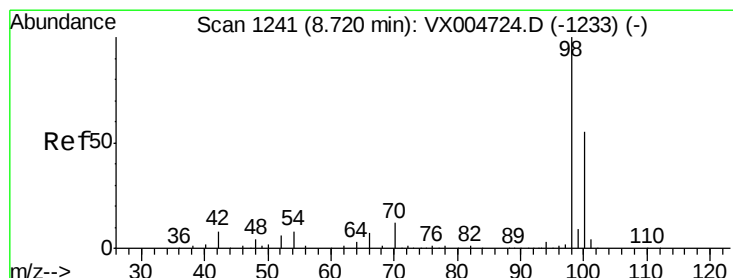
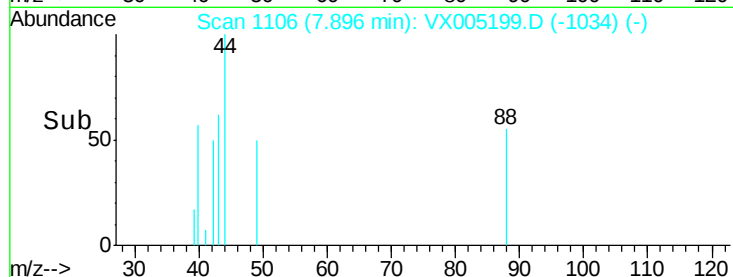
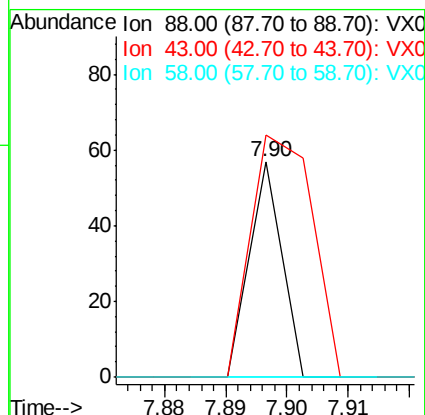
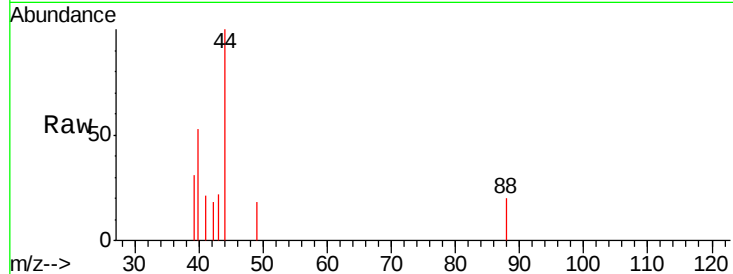




#49  
1,4-Dioxane  
Concen: 0.31 ug/l  
RT: 7.90 min Scan# 1106  
Delta R.T. 0.14 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

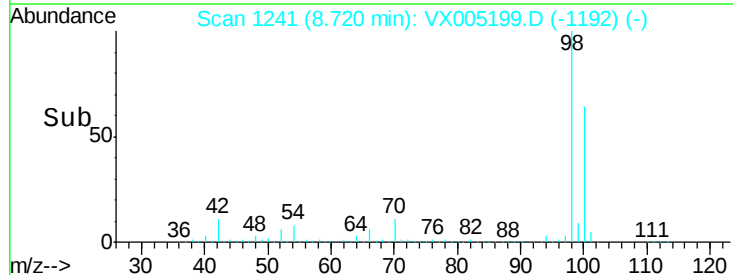
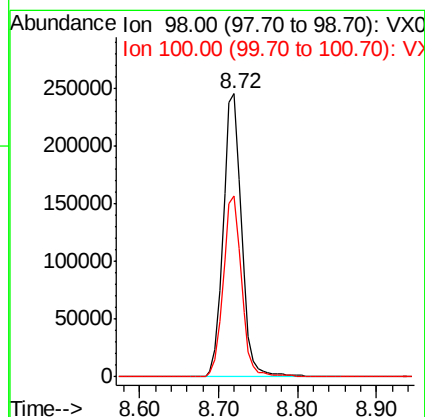
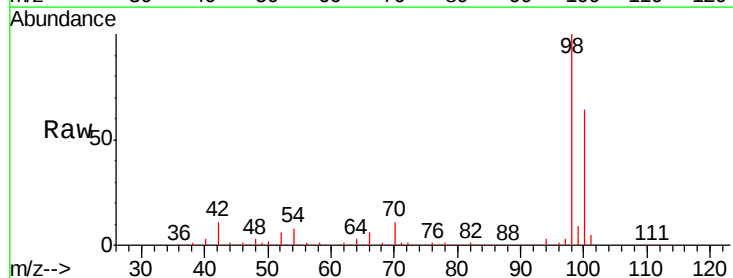
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

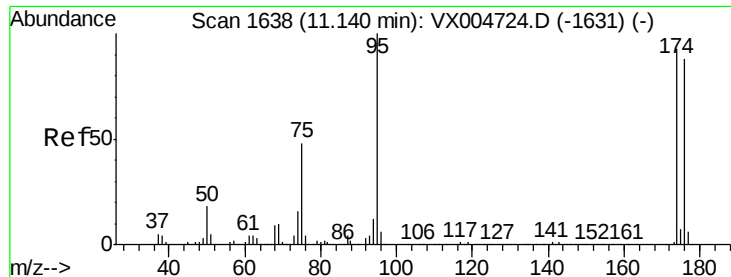
Tgt Ion: 88 Resp: 21  
Ion Ratio Lower Upper  
88 100  
43 214.3 25.1 37.7#  
58 0.0 56.2 84.2#



#50  
Toluene-d8  
Concen: 51.67 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion: 98 Resp: 399021  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.9 77.9

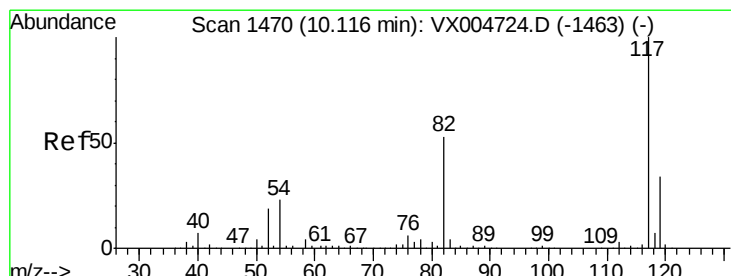
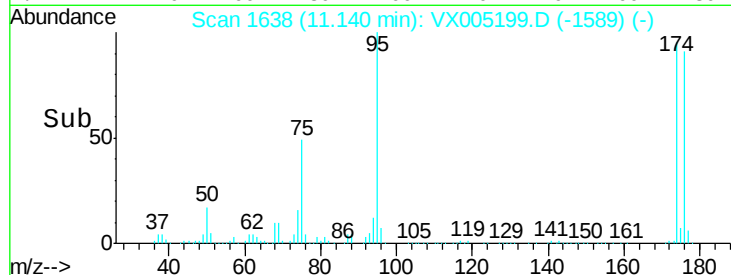
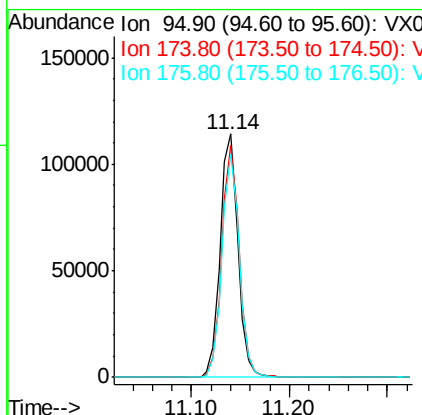
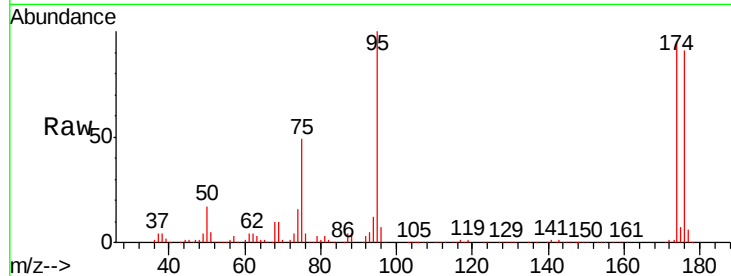




#62  
4-Bromofluorobenzene  
Concen: 51.85 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

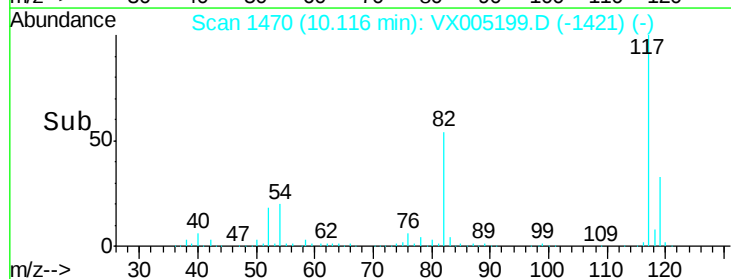
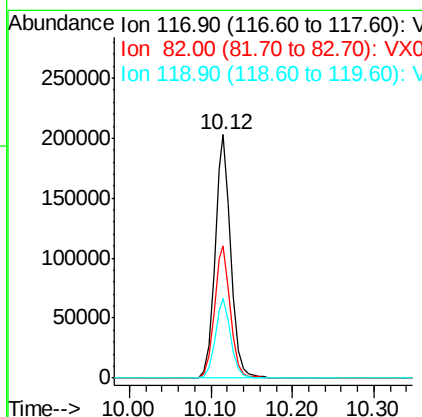
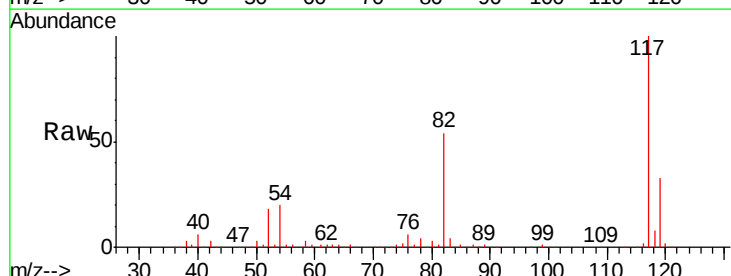
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

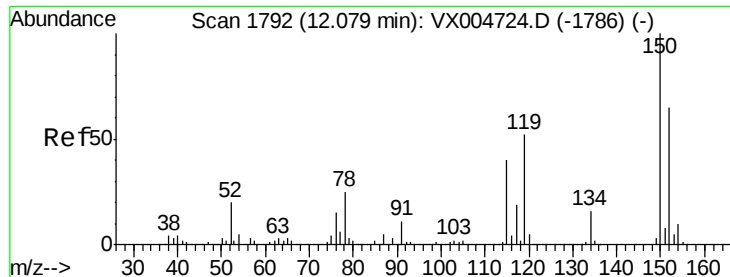
Tgt Ion: 95 Resp: 144239  
Ion Ratio Lower Upper  
95 100  
174 93.8 0.0 185.0  
176 90.1 0.0 180.2



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Tgt Ion: 117 Resp: 275895  
Ion Ratio Lower Upper  
117 100  
82 54.1 42.2 63.4  
119 32.6 27.4 41.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005199.D

Acq: 10 Oct 2018 10:06

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW516-1014

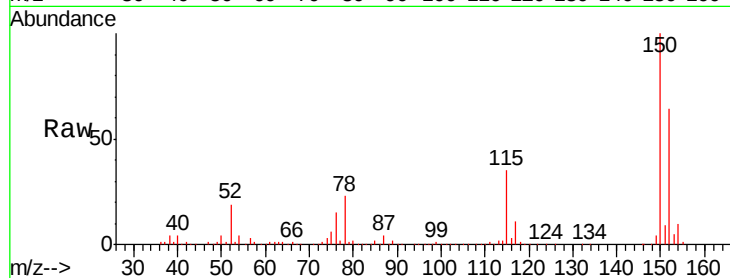
Tgt Ion:152 Resp: 154945

Ion Ratio Lower Upper

152 100

115 54.4 40.2 120.6

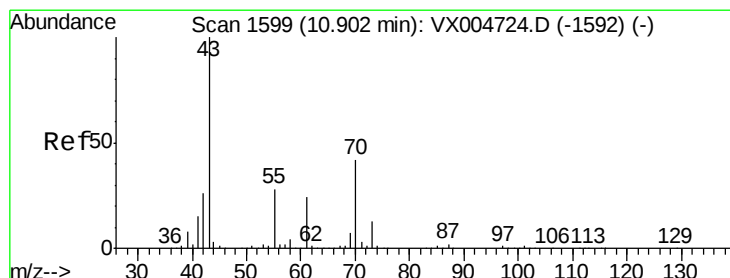
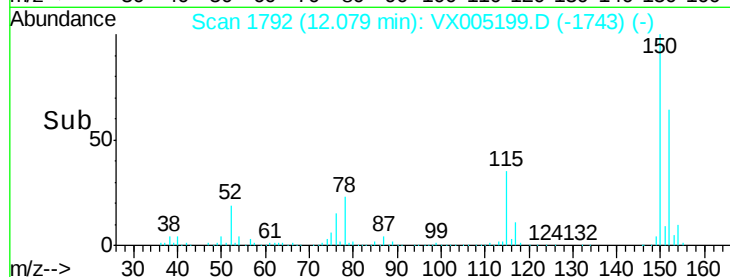
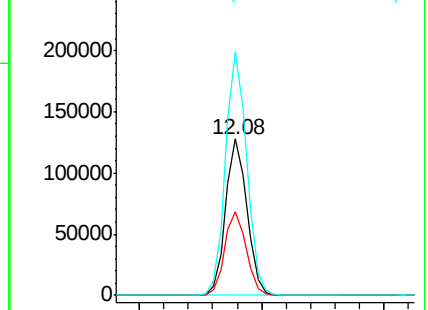
150 155.7 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.77 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VX005199.D

Acq: 10 Oct 2018 10:06

Tgt Ion: 43 Resp: 117

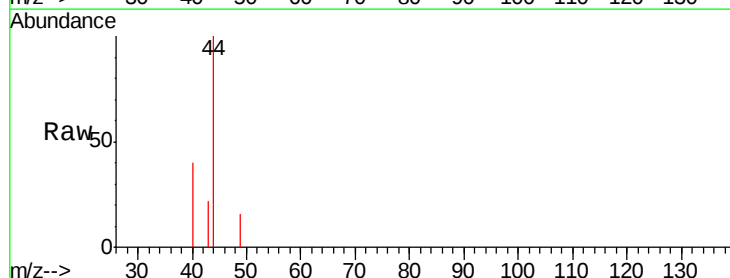
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

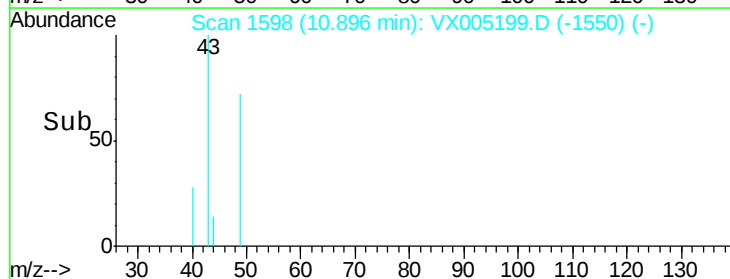
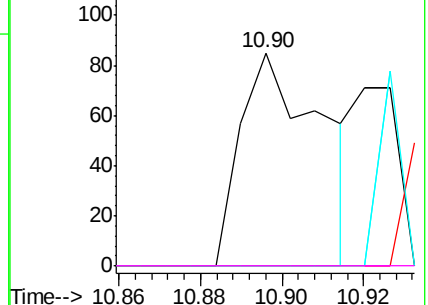


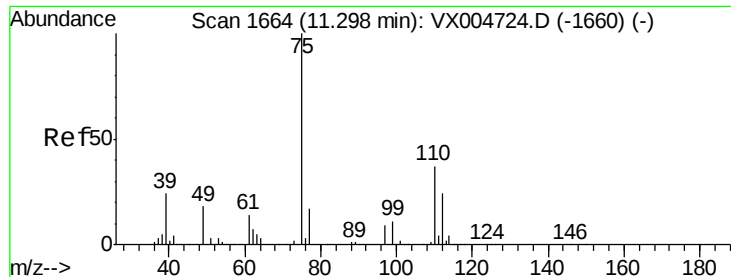
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

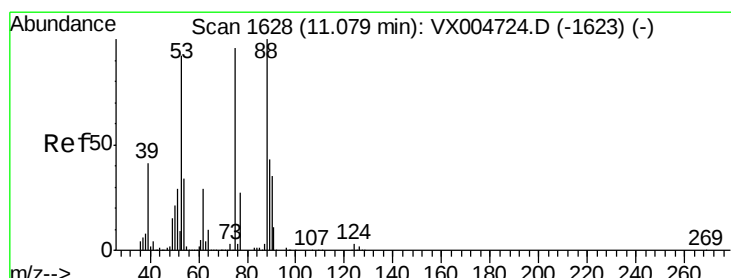
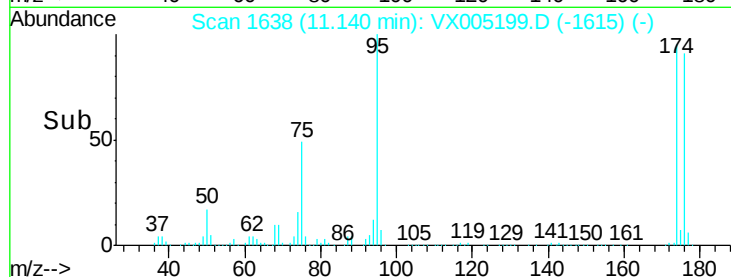
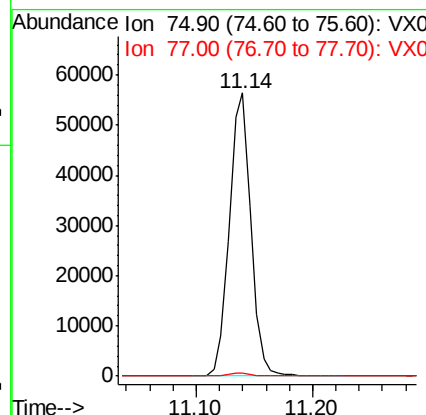
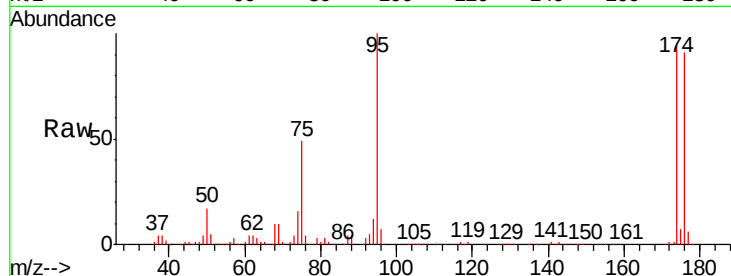




#76  
 1,2,3-Trichloropropane  
 Concen: 20.74 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX005199.D  
 Acq: 10 Oct 2018 10:06

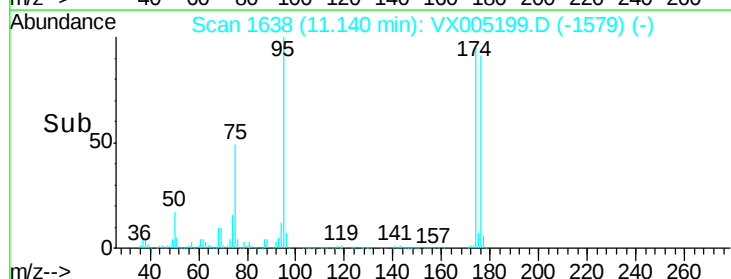
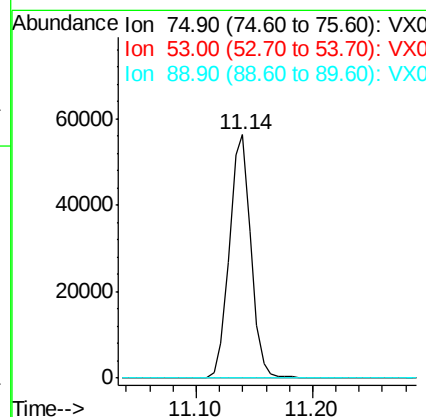
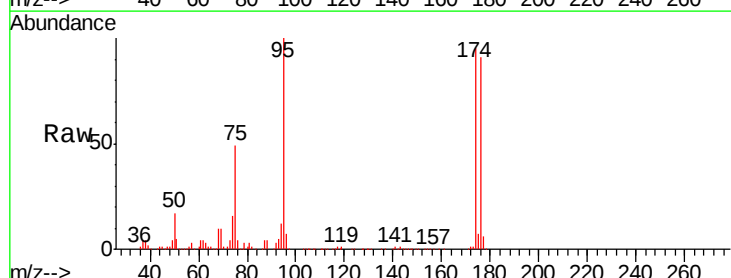
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-TW516-1014

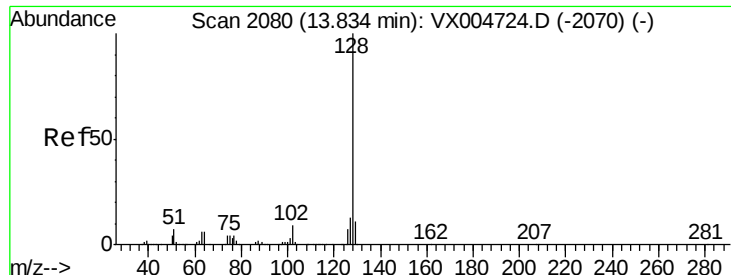
Tgt Ion: 75 Resp: 72028  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 21.4 64.3#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 56.31 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. 0.06 min  
 Lab File: VX005199.D  
 Acq: 10 Oct 2018 10:06

Tgt Ion: 75 Resp: 72028  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 80.2 120.4#  
 89 0.0 37.1 55.7#





#95  
Naphthalene  
Concen: 0.75 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX005199.D  
Acq: 10 Oct 2018 10:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW516-1014

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 364   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.4  | 15.6# |
| 129      | 0.0   | 8.7   | 13.1# |

