

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110118\  
 Data File : VX005727.D  
 Acq On : 01 Nov 2018 14:17  
 Operator : JC/MD  
 Sample : J5737-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 01 15:12:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 31 18:23:06 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 129185   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 221102   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 190835   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 83442    | 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   | 98059    | 51.92  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.84% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 73806    | 48.21  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.42%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 264253   | 49.21  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.42%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 85196    | 42.99  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 85.98%  |          |

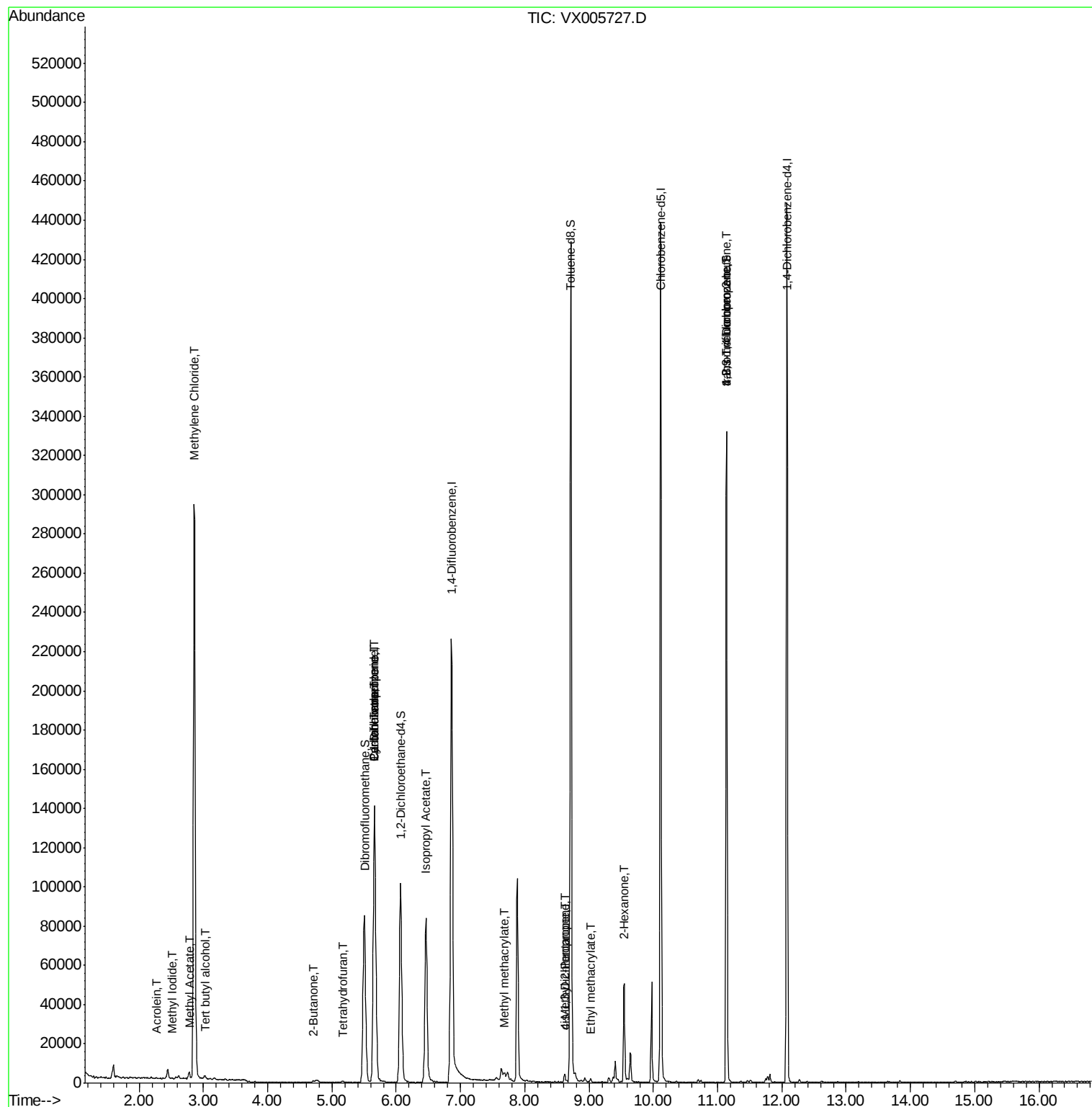
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.73  | 64   | 798      | Below Cal | #      | 73     |
| 10) Methyl Iodide              | 2.51  | 142  | 192      | 2.073     | ug/l # | 39     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1114     | 2.172     | ug/l # | 72     |
| 13) Acrolein                   | 2.26  | 56   | 23       | 12.242    | ug/l # | 14     |
| 16) Acetone                    | 2.45  | 43   | 4899     | Below Cal | #      | 87     |
| 18) Methyl Acetate             | 2.78  | 43   | 4232     | 1.561     | ug/l   | 95     |
| 20) Methylene Chloride         | 2.85  | 84   | 132490   | 81.347    | ug/l   | 99     |
| 25) 2-Butanone                 | 4.71  | 43   | 1604     | 1.007     | ug/l # | 82     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 778      | 0.800     | ug/l # | 58     |
| 31) Cyclohexane                | 5.66  | 56   | 3336     | 1.322     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 11635    | 4.939     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 12799    | 6.014     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.46  | 43   | 109048   | 25.000    | ug/l   | 98     |
| 48) Methyl methacrylate        | 7.68  | 41   | 3932     | 1.862     | ug/l # | 24     |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1833     | 0.616     | ug/l # | 55     |
| 54) cis-1,3-Dichloropropene    | 8.62  | 75   | 742      | 0.297     | ug/l # | 67     |
| 56) Ethyl methacrylate         | 9.03  | 69   | 40       | 2.484     | ug/l # | 1      |
| 59) 2-Hexanone                 | 9.55  | 43   | 5433     | 2.245     | ug/l # | 62     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 45350    | 21.822    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 45350    | 70.504    | ug/l # | 9      |

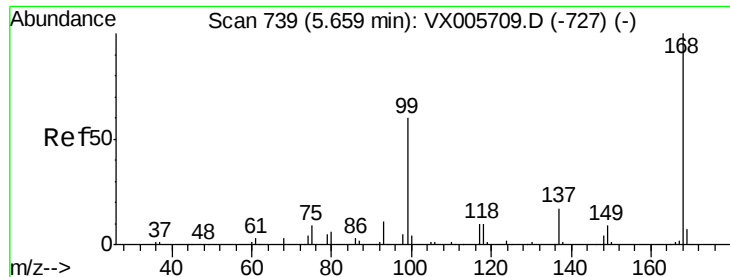
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX110118\  
Data File : VX005727.D  
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Sample : J5737-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Nov 01 15:12:25 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103118W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 31 18:23:06 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

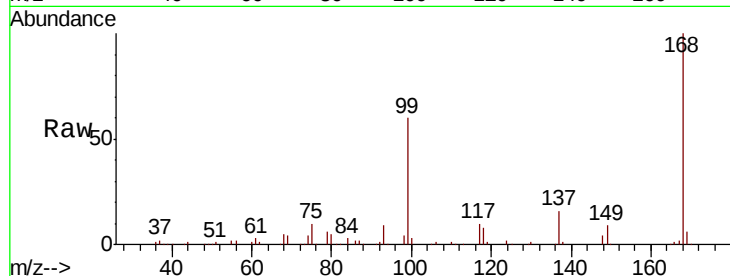
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:168 Resp: 129185

Ion Ratio Lower Upper

168 100

99 59.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

50000

40000

30000

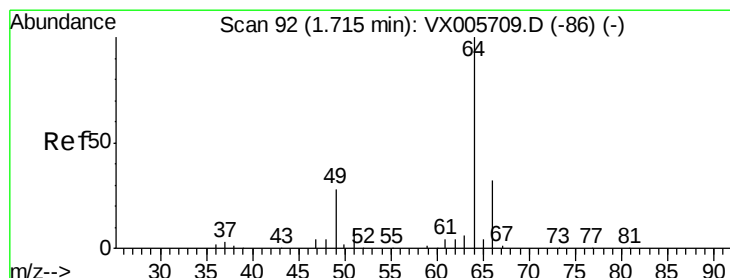
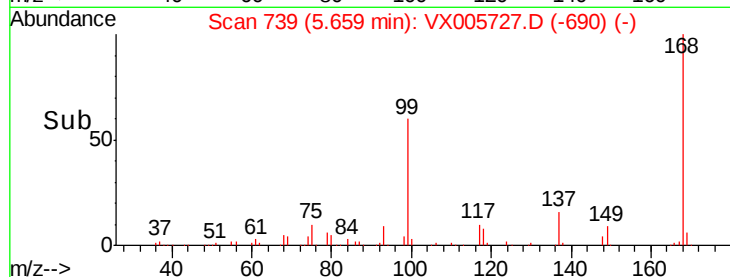
20000

10000

0

Time-->

5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005727.D

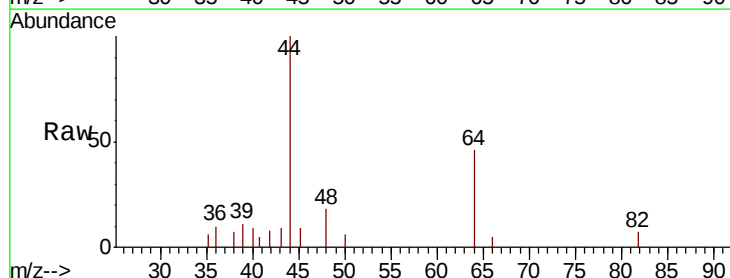
Acq: 01 Nov 2018 14:17

Tgt Ion: 64 Resp: 798

Ion Ratio Lower Upper

64 100

66 17.3 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

600

500

400

300

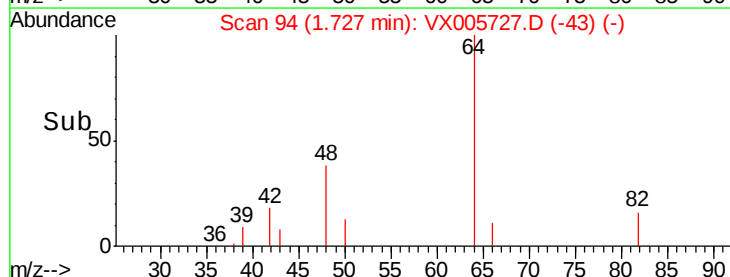
200

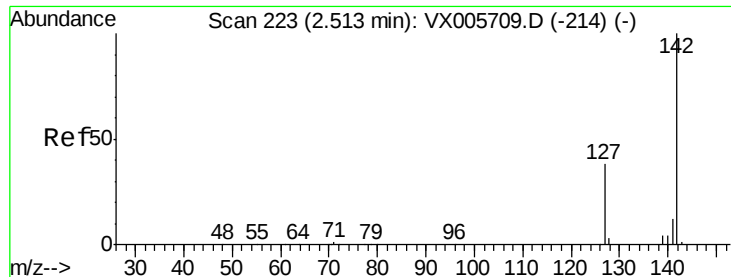
100

0

Time-->

1.65 1.70 1.75

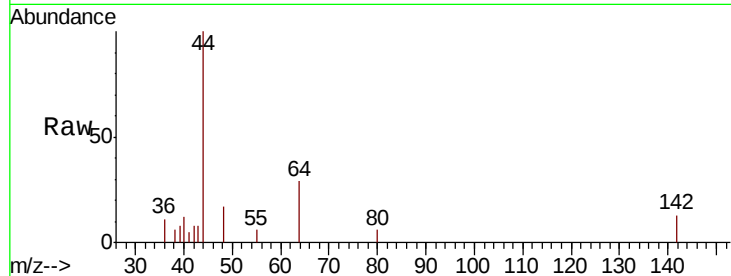




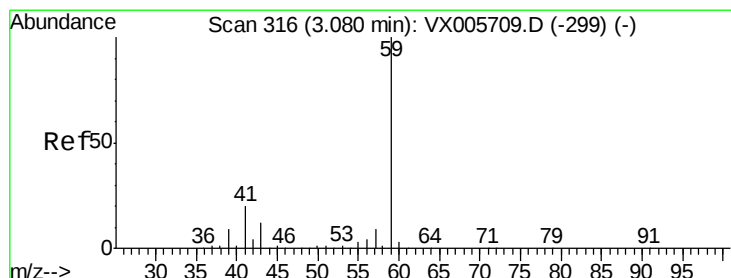
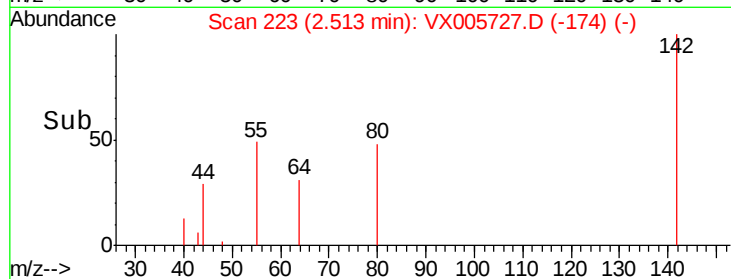
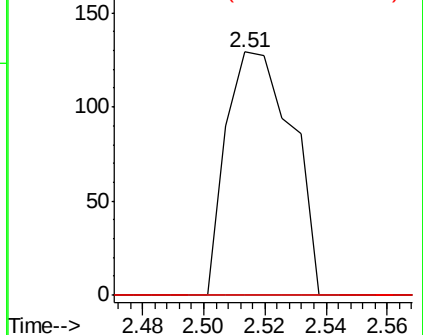
#10  
Methvl Iodide  
Concen: 2.073 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.00 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:142 Resp: 192  
Ion Ratio Lower Upper  
142 100  
127 0.0 36.0 54.0#  
141 0.0 11.7 17.5#

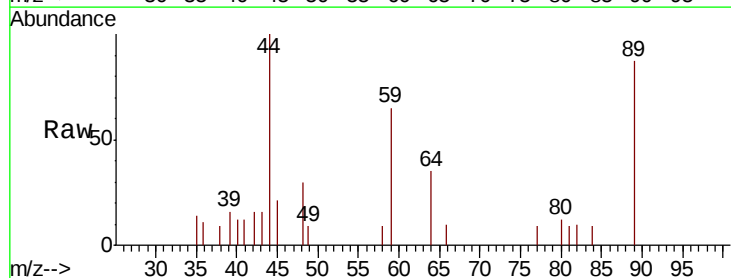


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

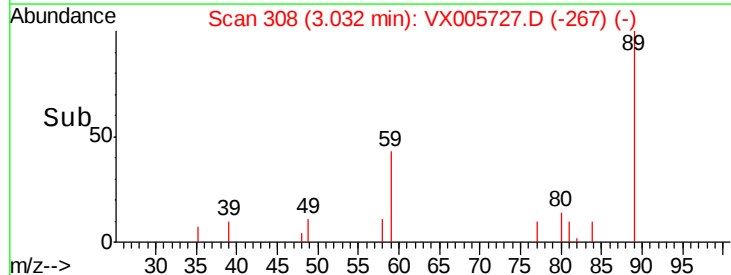
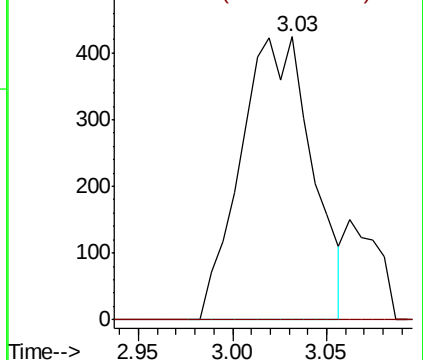


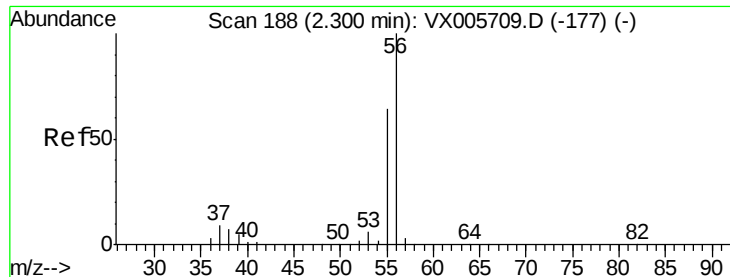
#11  
Tert butyl alcohol  
Concen: 2.172 ug/l  
RT: 3.03 min Scan# 308  
Delta R.T. -0.05 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion: 59 Resp: 1114  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0

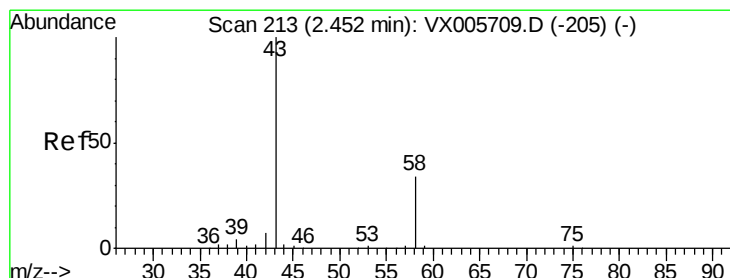
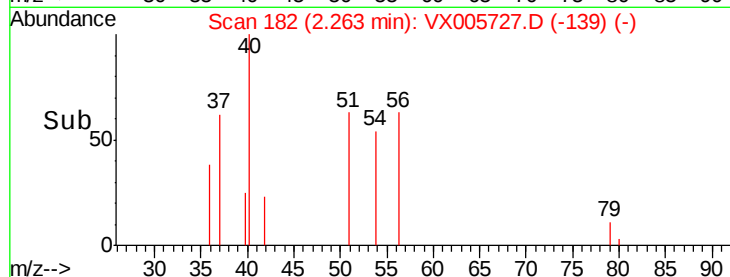
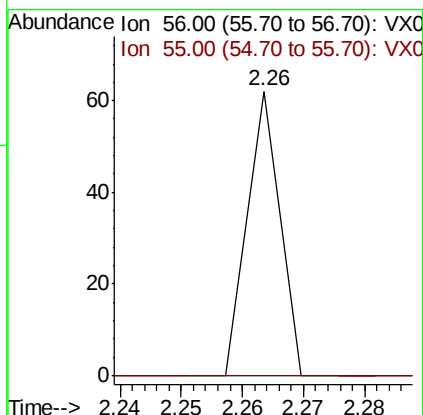
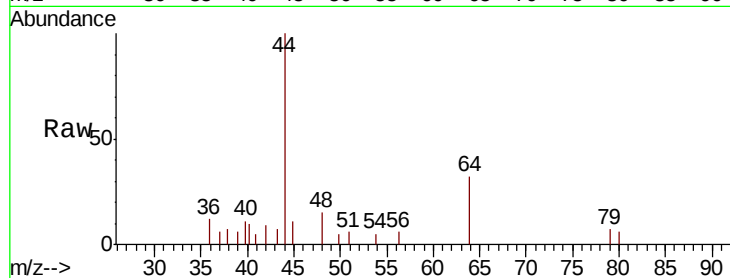




#13  
Acrolein  
Concen: 12.242 ug/l  
RT: 2.26 min Scan# 182  
Delta R.T. -0.04 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

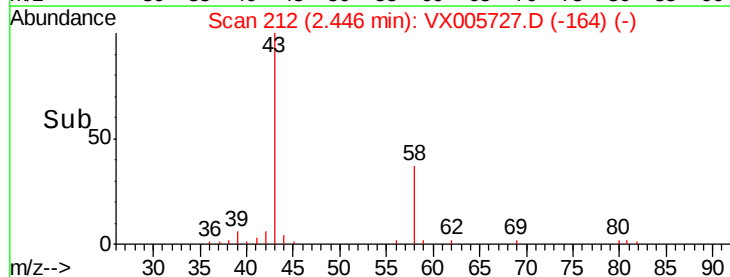
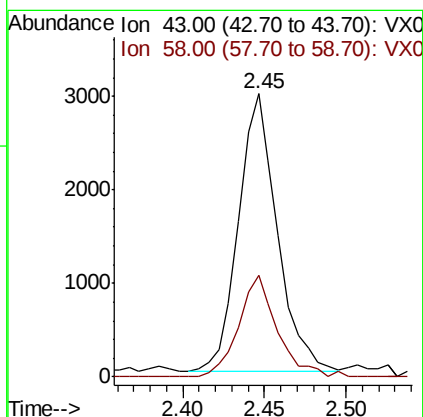
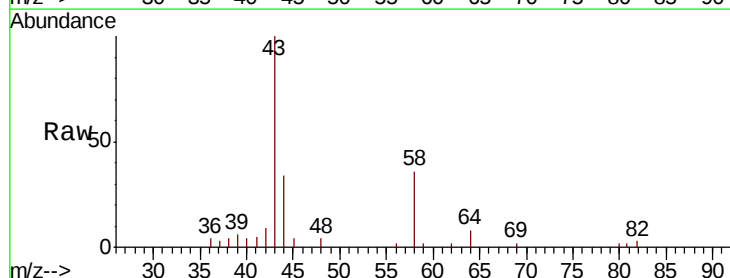
Instrument :  
MSVOA\_X  
ClientSampleId :

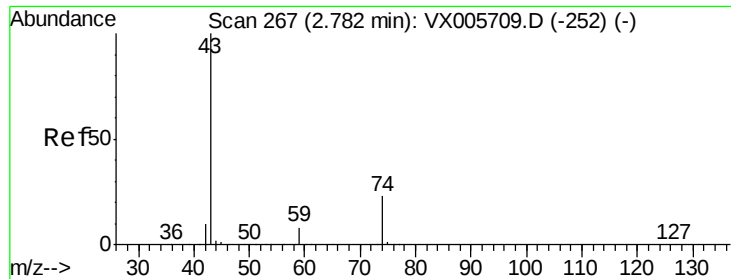
Tot Ion: 56 Resp: 23  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.3 85.9#



#16  
Acetone  
Concen: Below Cal  
RT: 2.45 min Scan# 212  
Delta R.T. -0.01 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion: 43 Resp: 4899  
Ion Ratio Lower Upper  
43 100  
58 36.7 23.8 35.6#

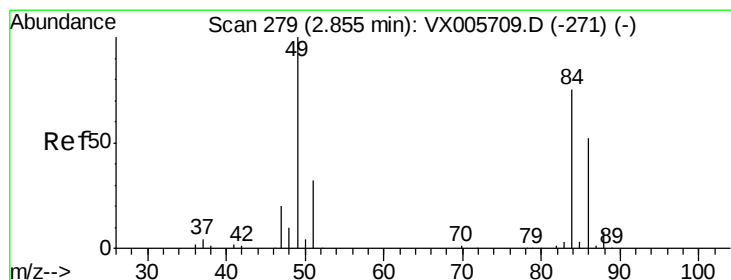
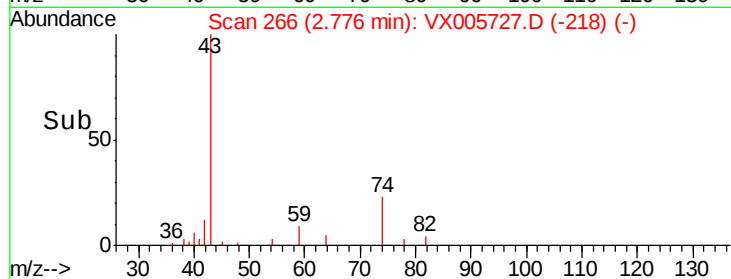
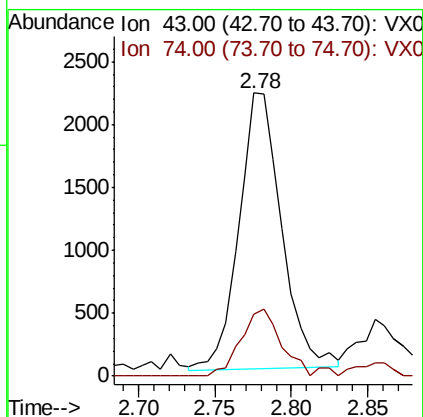
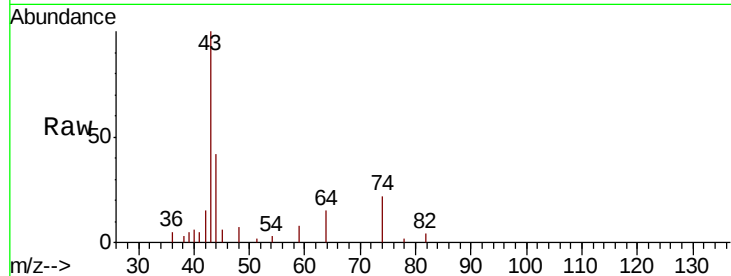




#18  
Methyl Acetate  
Concen: 1.561 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

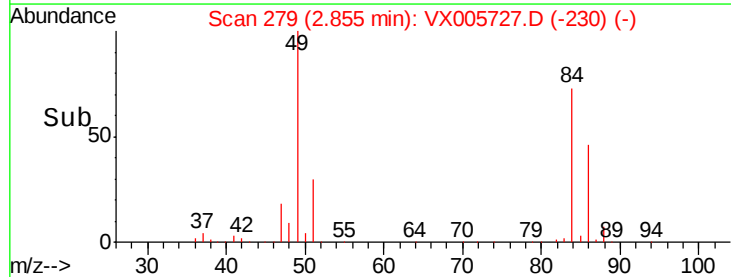
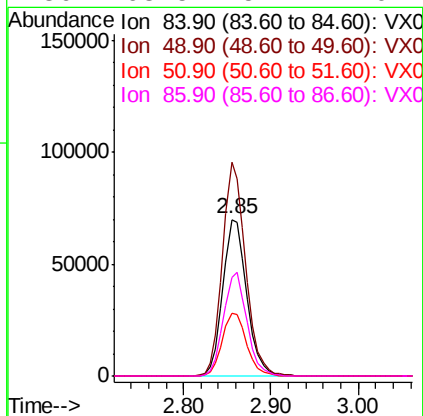
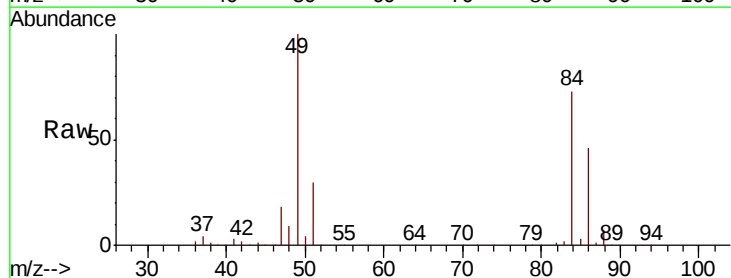
Instrument :  
MSVOA\_X  
ClientSampled :

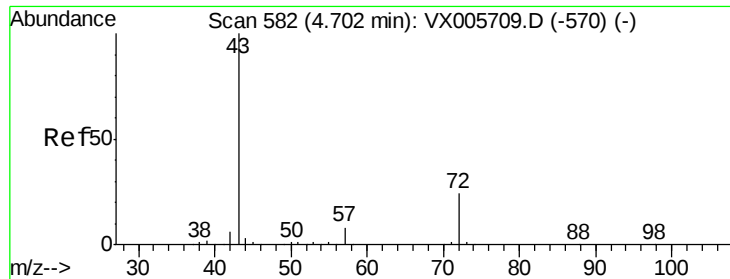
Tot Ion: 43 Resp: 4232  
Ion Ratio Lower Upper  
43 100  
74 23.3 16.8 25.2



#20  
Methylene Chloride  
Concen: 81.347 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. 0.00 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion: 84 Resp: 132490  
Ion Ratio Lower Upper  
84 100  
49 136.7 109.5 164.3  
51 40.5 33.3 49.9  
86 63.5 52.7 79.1





#25

2-Butanone

Concen: 1.007 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

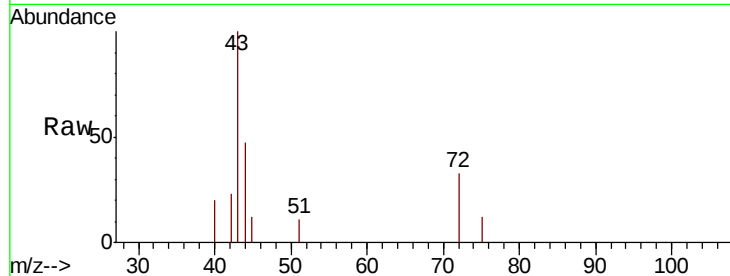
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 43 Resp: 1604

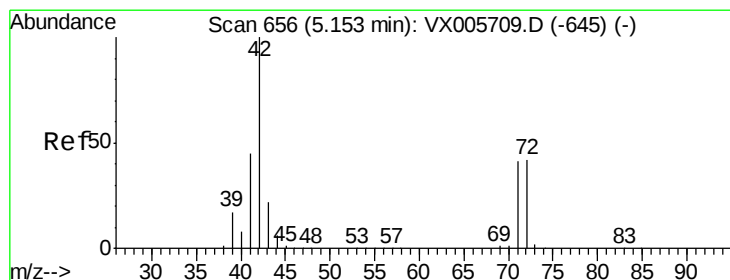
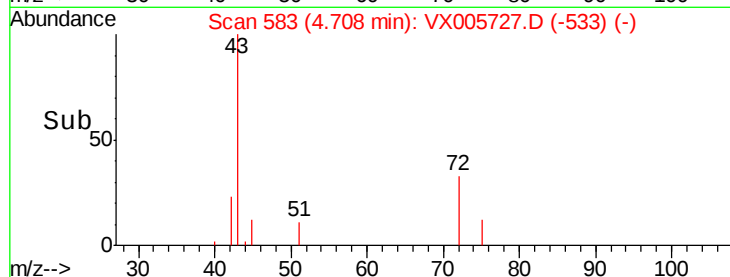
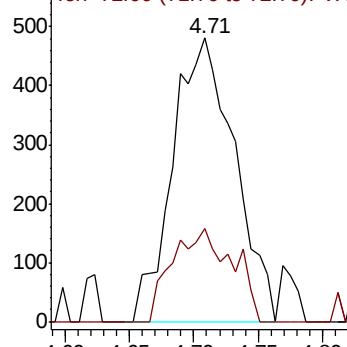
Ion Ratio Lower Upper

43 100

72 32.8 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.800 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

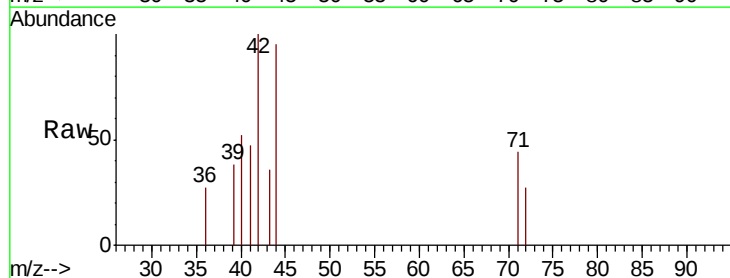
Tgt Ion: 42 Resp: 778

Ion Ratio Lower Upper

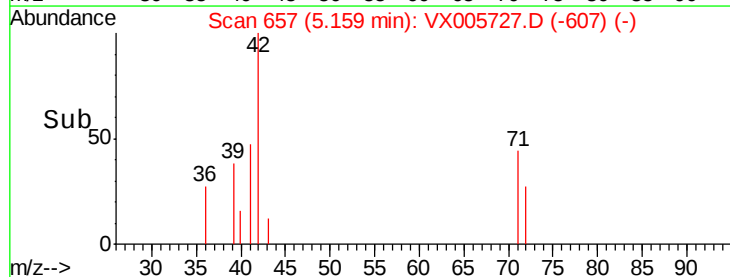
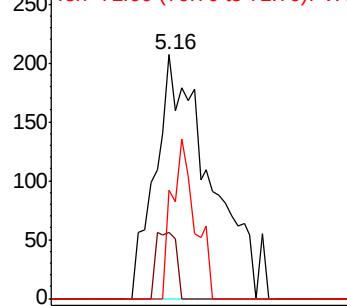
42 100

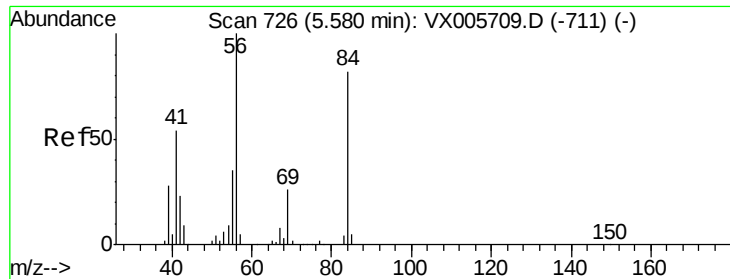
72 0.0 32.0 48.0#

71 27.4 29.8 44.8#



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

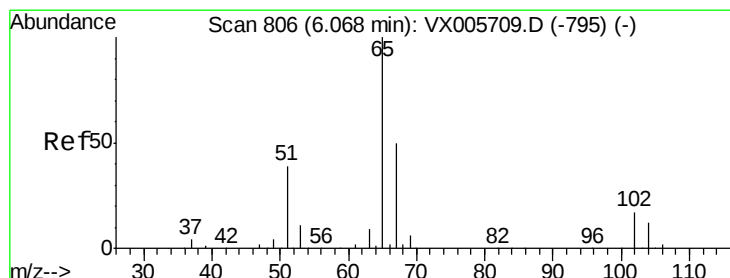
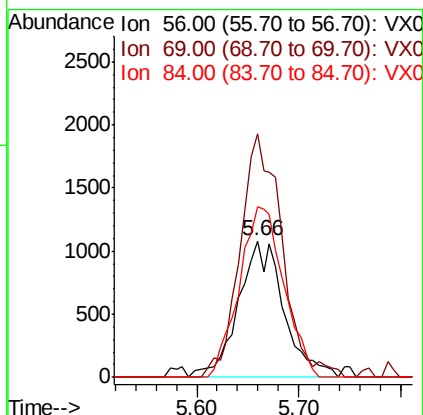
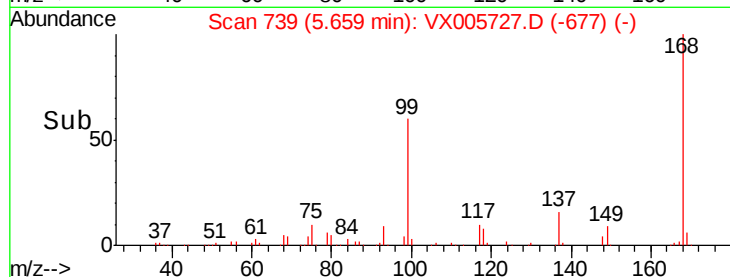
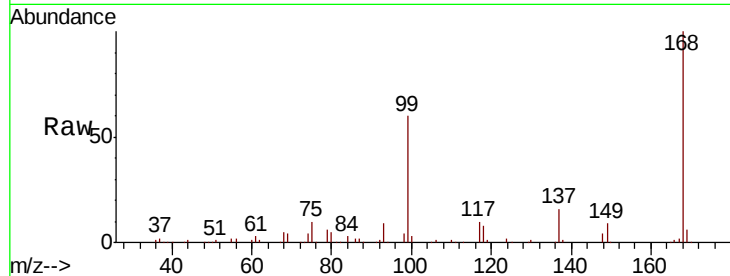




#31  
Cyclohexane  
Concen: 1.322 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

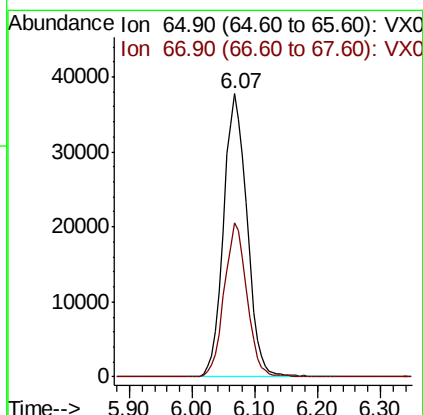
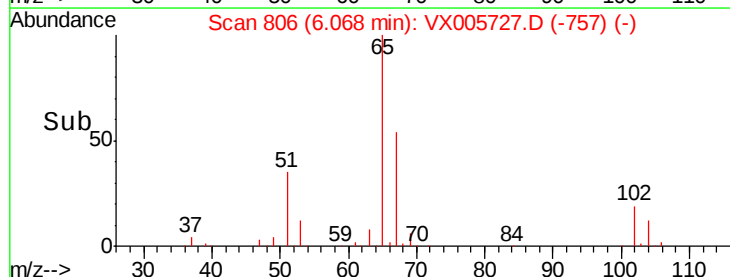
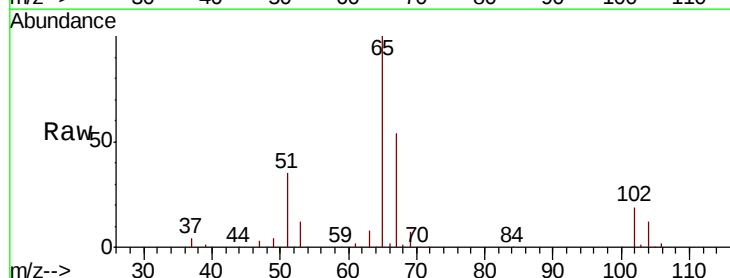
Instrument :  
MSVOA\_X  
ClientSampled :

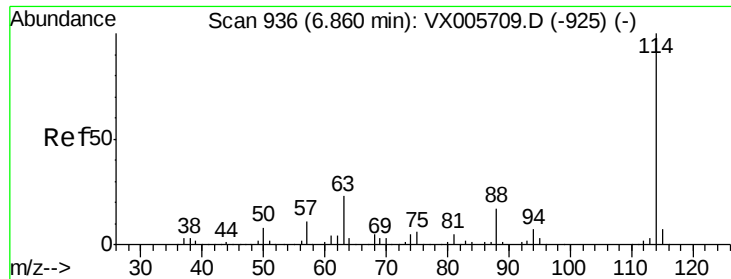
Tot Ion: 56 Resp: 3336  
Ion Ratio Lower Upper  
56 100  
69 178.4 22.6 34.0#  
84 125.0 62.7 94.1#



#33  
1,2-Dichloroethane-d4  
Concen: 51.918 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion: 65 Resp: 98059  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 105.0

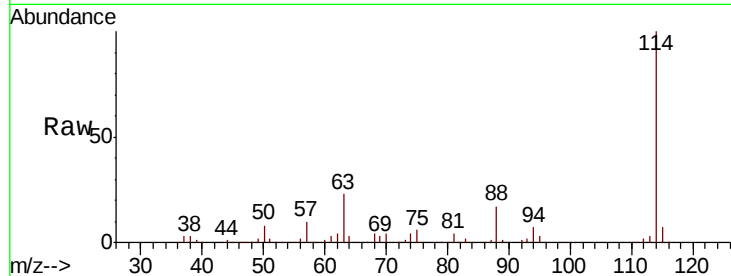




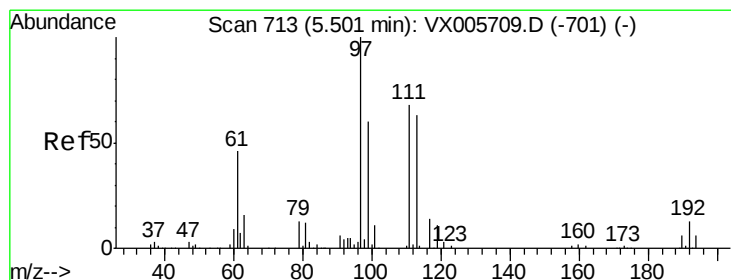
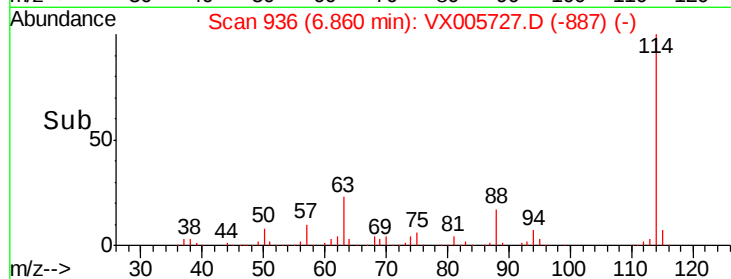
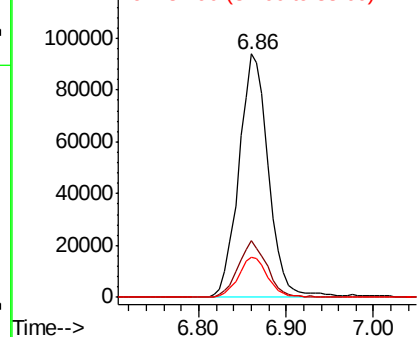
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX005727.D  
 Acq: 01 Nov 2018 14:17

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:114 Resp: 221102  
 Ion Ratio Lower Upper  
 114 100  
 63 23.2 0.0 42.8  
 88 16.6 0.0 31.2

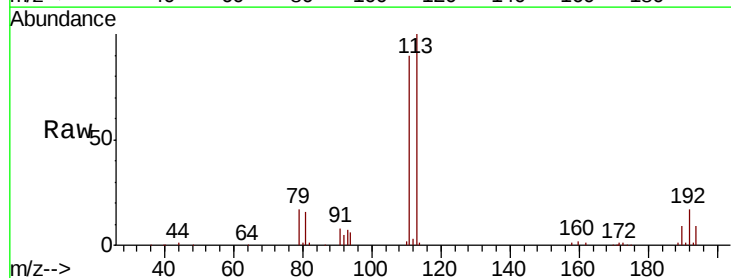


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

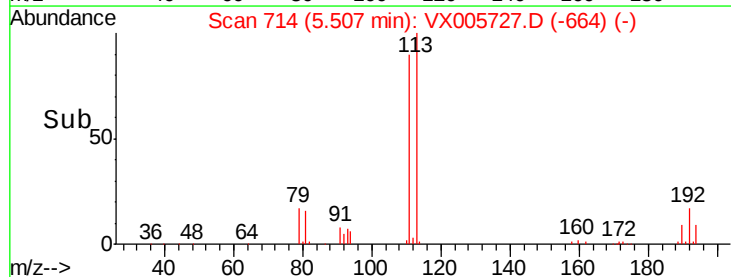
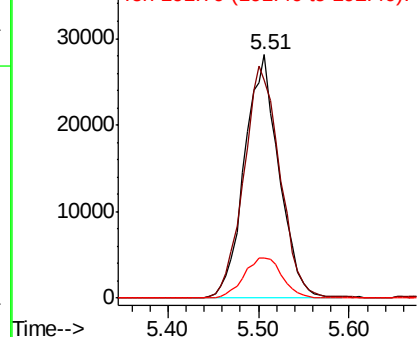


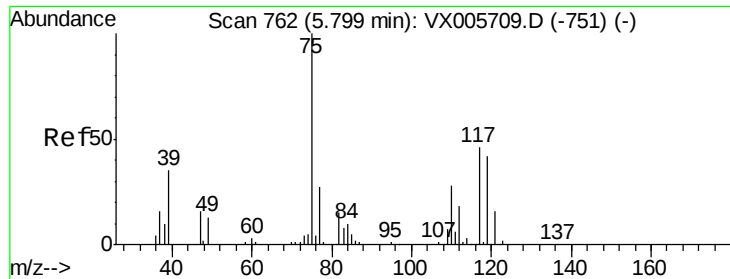
#35  
 Dibromofluoromethane  
 Concen: 48.210 ug/l  
 RT: 5.51 min Scan# 714  
 Delta R.T. 0.01 min  
 Lab File: VX005727.D  
 Acq: 01 Nov 2018 14:17

Tgt Ion:113 Resp: 73806  
 Ion Ratio Lower Upper  
 113 100  
 111 100.6 82.3 123.5  
 192 18.5 17.9 26.9



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: 4.939 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

Instrument :

MSVOA\_X

ClientSampleId :

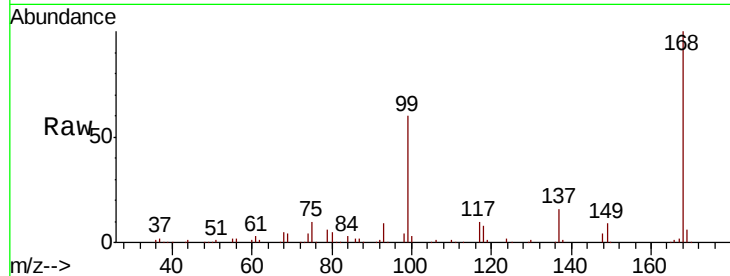
Tot Ion: 75 Resp: 11635

Ion Ratio Lower Upper

75 100

110 8.0 17.4 52.2#

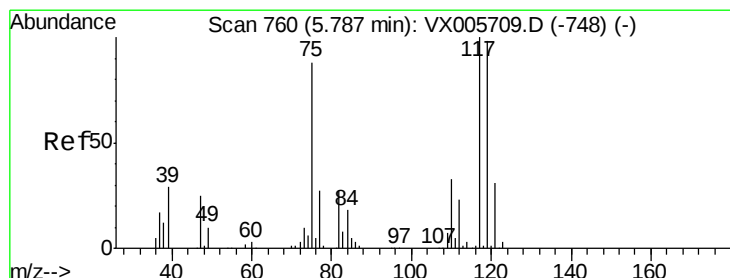
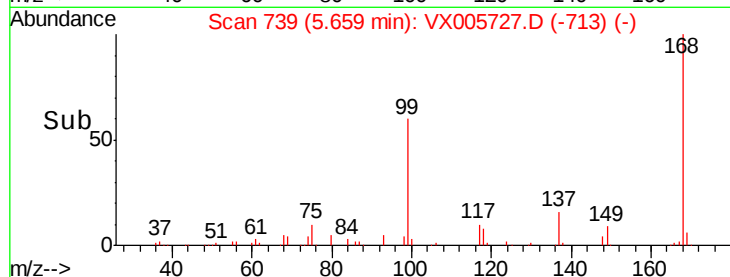
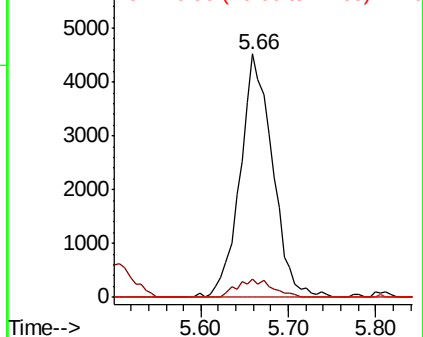
77 0.0 25.8 38.6#



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: 6.014 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

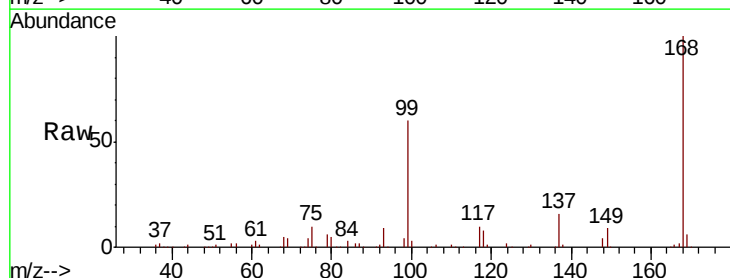
Tgt Ion: 117 Resp: 12799

Ion Ratio Lower Upper

117 100

119 6.3 78.1 117.1#

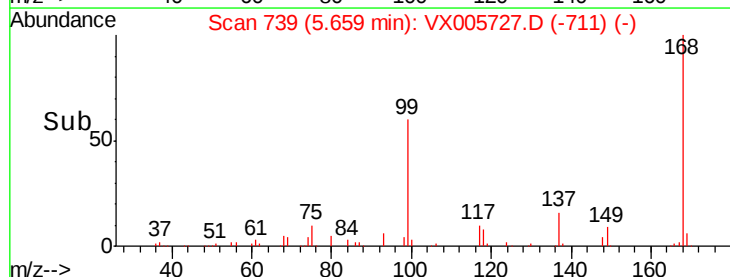
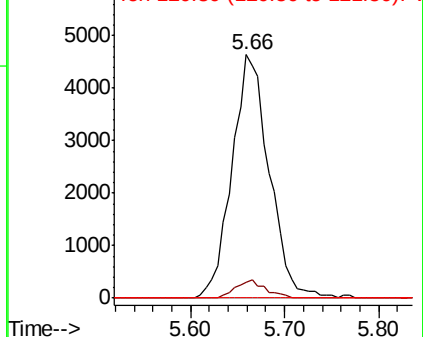
121 0.0 24.6 36.8#

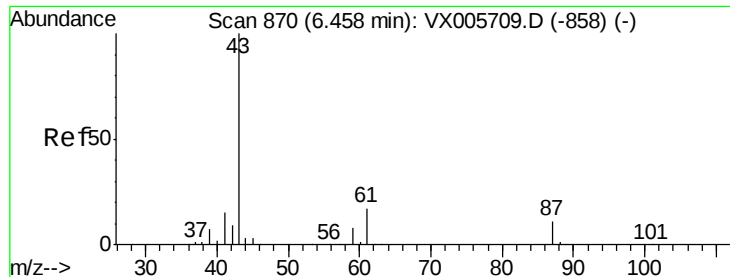


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



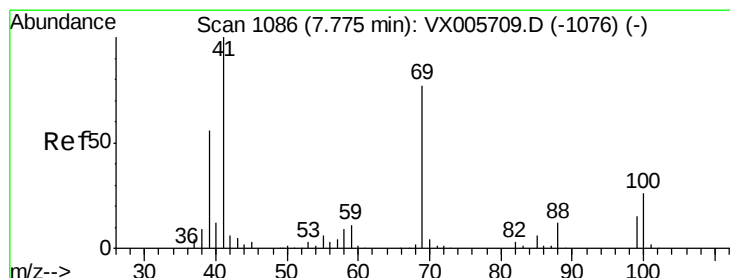
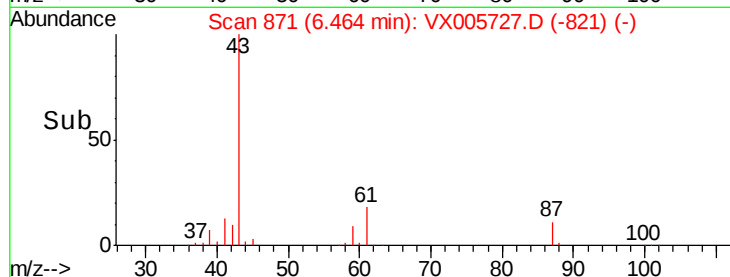
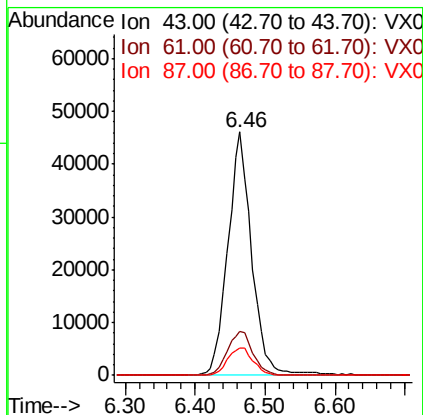
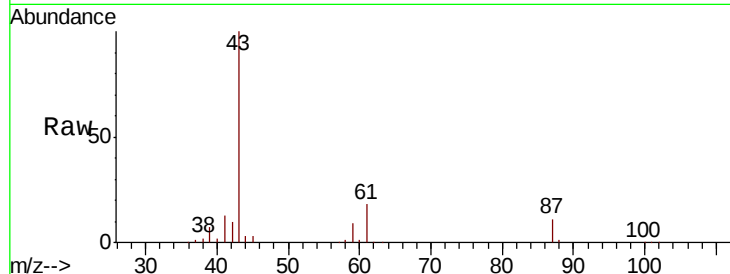


#43

Isopropyl Acetate  
 Concen: 25.000 ug/l  
 RT: 6.46 min Scan# 871  
 Delta R.T. 0.01 min  
 Lab File: VX005727.D  
 Acq: 01 Nov 2018 14:17

Instrument :  
 MSVOA\_X  
 ClientSampled :

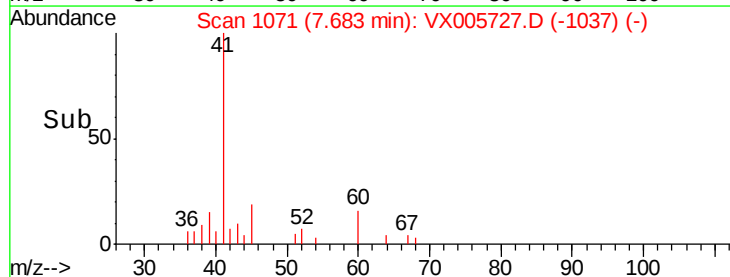
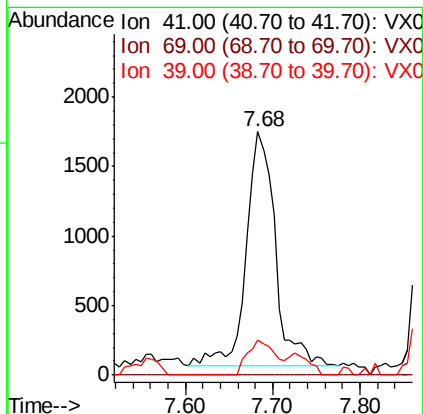
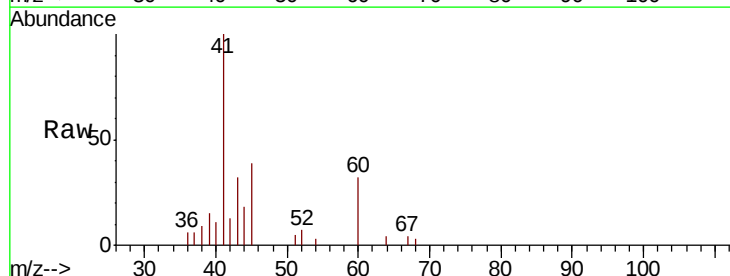
Tot Ion: 43 Resp: 109048  
 Ion Ratio Lower Upper  
 43 100  
 61 19.4 14.6 22.0  
 87 12.3 9.6 14.4

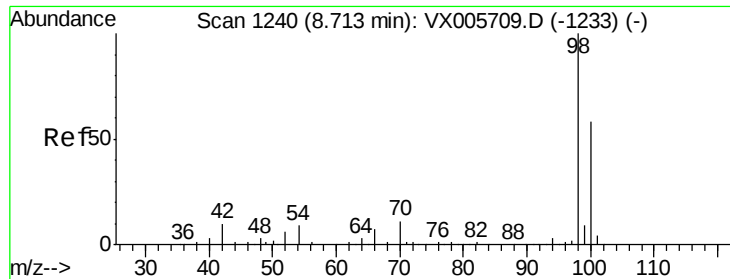


#48

Methyl methacrylate  
 Concen: 1.862 ug/l  
 RT: 7.68 min Scan# 1071  
 Delta R.T. -0.09 min  
 Lab File: VX005727.D  
 Acq: 01 Nov 2018 14:17

Tgt Ion: 41 Resp: 3932  
 Ion Ratio Lower Upper  
 41 100  
 69 0.0 63.2 94.8#  
 39 14.1 42.2 63.2#

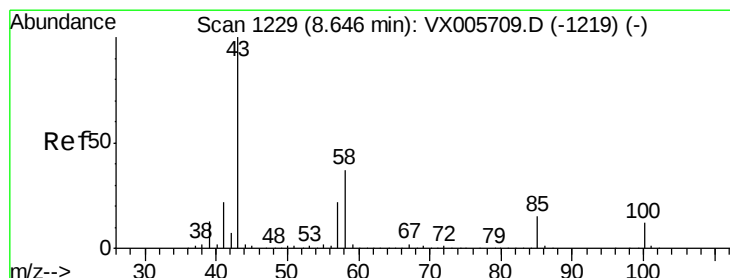
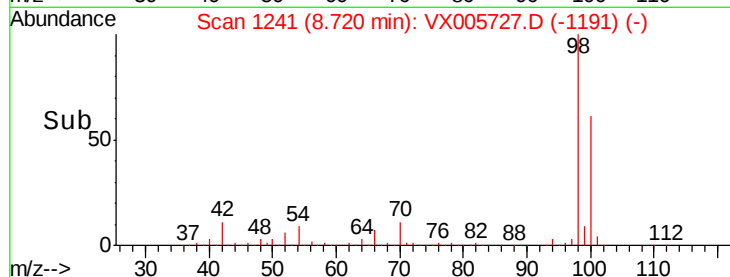
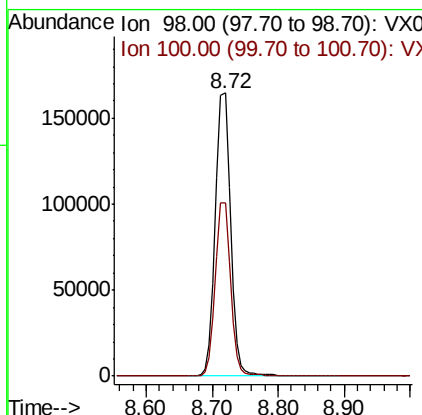
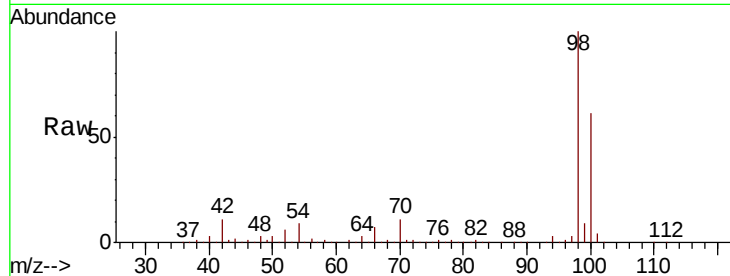




#50  
Toluene-d8  
Concen: 49.214 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. 0.01 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

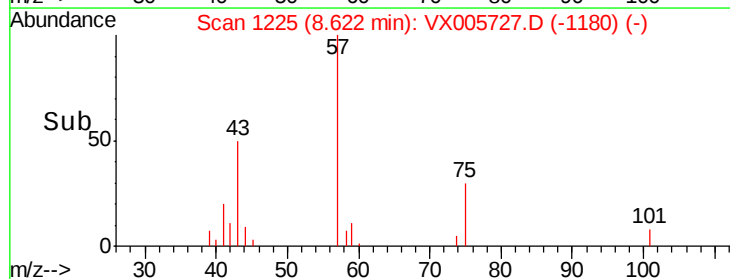
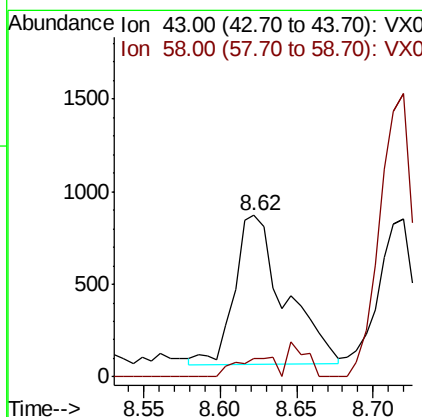
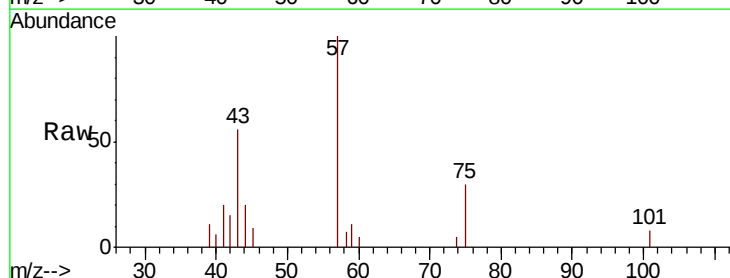
Instrument :  
MSVOA\_X  
ClientSampleId :

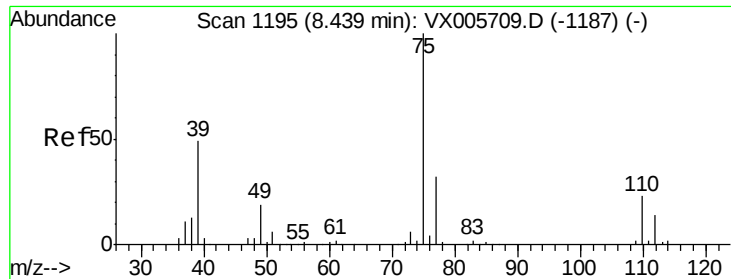
Tot Ion: 98 Resp: 264253  
Ion Ratio Lower Upper  
98 100  
100 61.1 51.3 76.9



#51  
4-Methyl-2-Pentanone  
Concen: 0.616 ug/l  
RT: 8.62 min Scan# 1225  
Delta R.T. -0.02 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion: 43 Resp: 1833  
Ion Ratio Lower Upper  
43 100  
58 10.3 29.7 44.5#

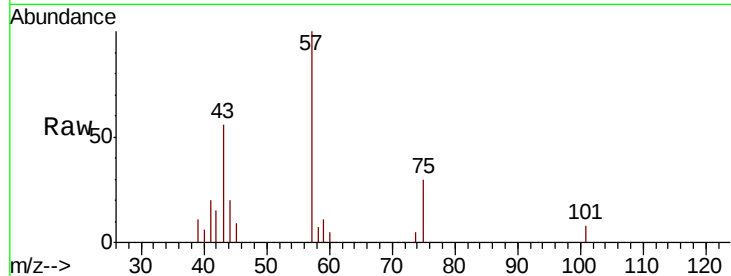




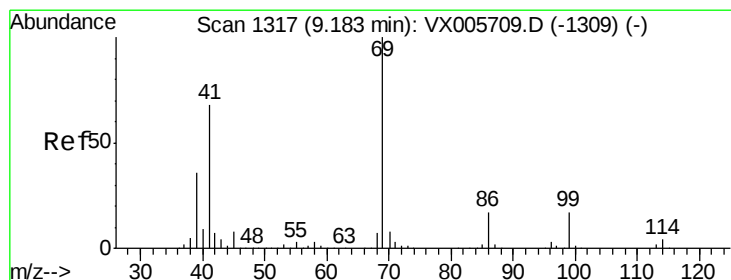
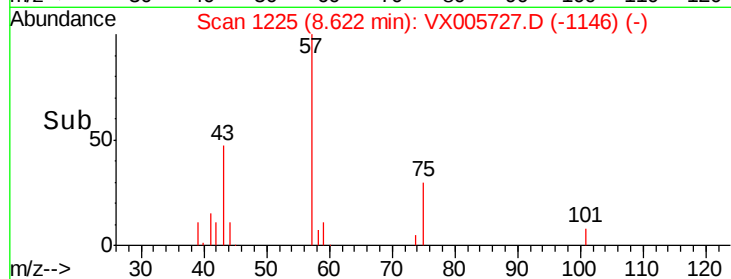
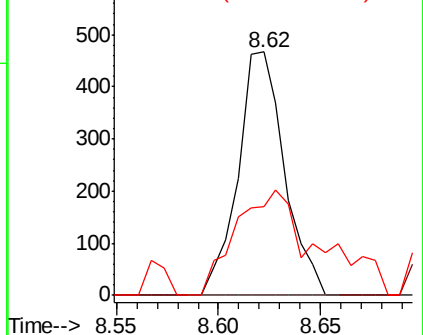
#54  
 cis-1,3-Dichloropropene  
 Concen: 0.297 ug/l  
 RT: 8.62 min Scan# 1225  
 Delta R.T. 0.18 min  
 Lab File: VX005727.D  
 Acq: 01 Nov 2018 14:17

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 75 Resp: 742  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.2 37.8#  
 39 36.6 38.2 57.2#

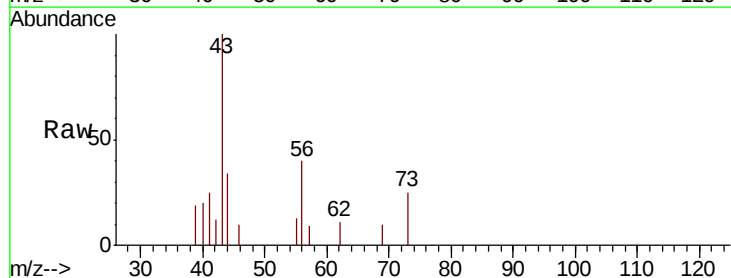


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 76.90 (76.60 to 77.60): VX0  
 Ion 39.00 (38.70 to 39.70): VX0

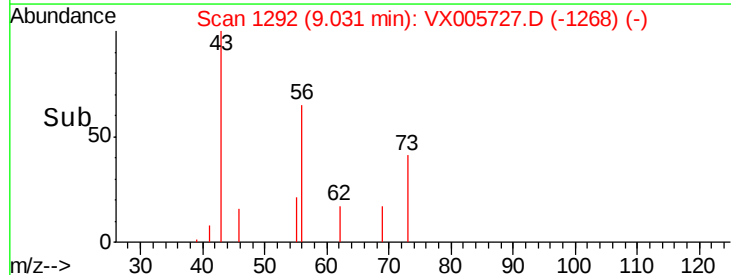
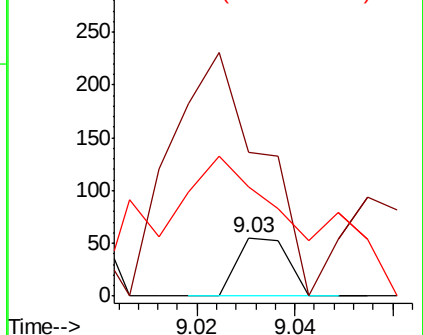


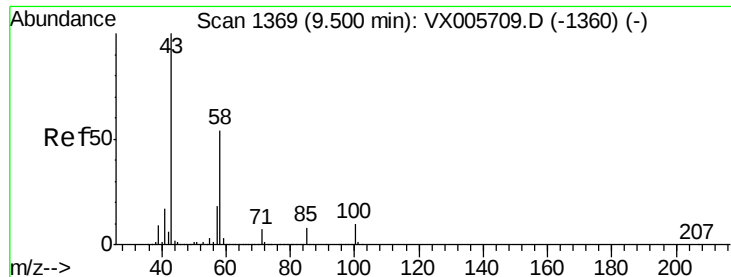
#56  
 Ethyl methacrylate  
 Concen: 2.484 ug/l  
 RT: 9.03 min Scan# 1292  
 Delta R.T. -0.15 min  
 Lab File: VX005727.D  
 Acq: 01 Nov 2018 14:17

Tgt Ion: 69 Resp: 40  
 Ion Ratio Lower Upper  
 69 100  
 41 732.5 57.0 85.6#  
 39 735.0 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VX0  
 Ion 41.00 (40.70 to 41.70): VX0  
 Ion 39.00 (38.70 to 39.70): VX0

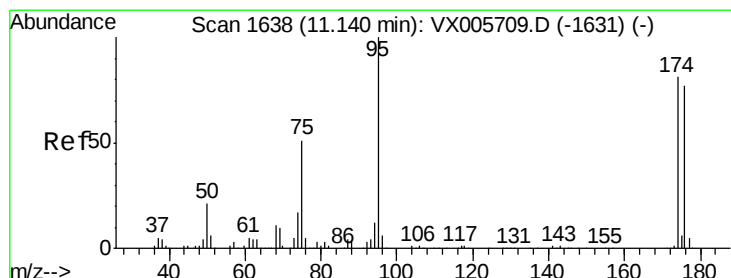
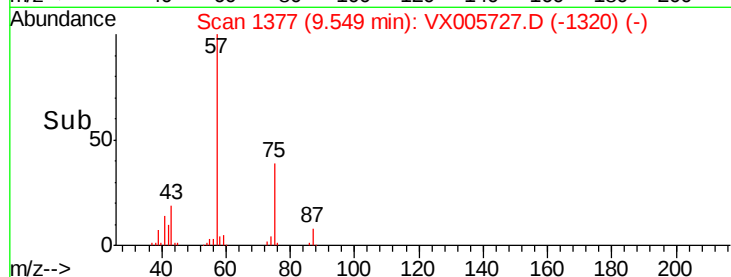
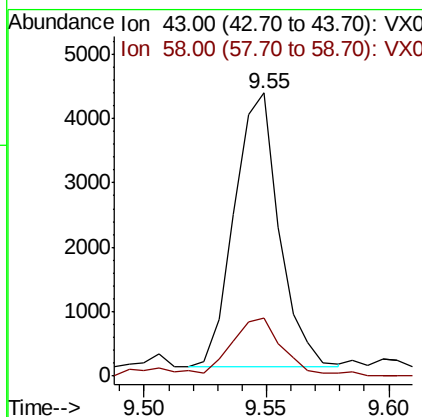
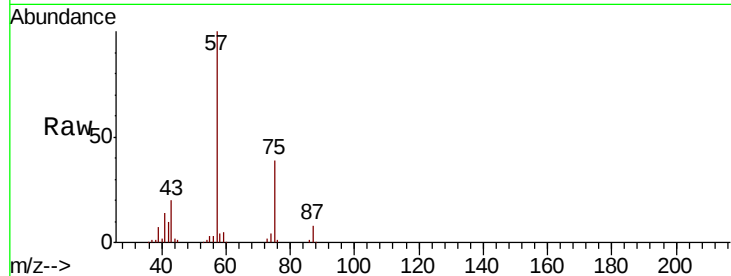




#59  
2-Hexanone  
Concen: 2.245 ug/l  
RT: 9.55 min Scan# 1377  
Delta R.T. 0.05 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

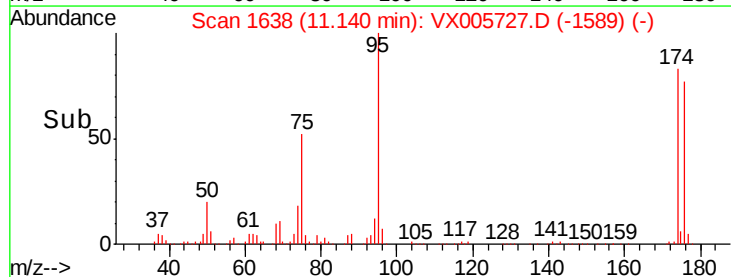
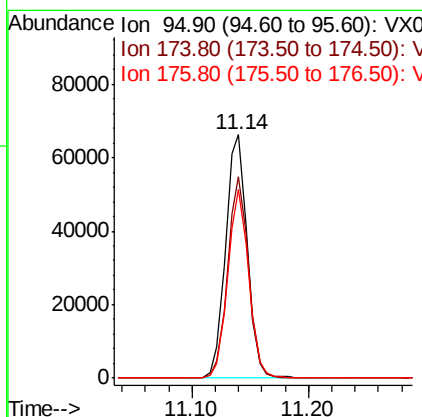
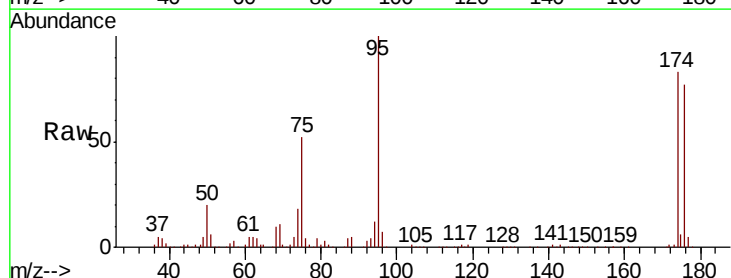
Instrument :  
MSVOA\_X  
ClientSampleId :

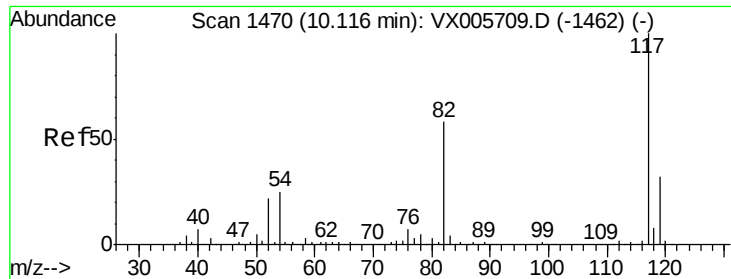
Tot Ion: 43 Resp: 5433  
Ion Ratio Lower Upper  
43 100  
58 25.2 25.9 77.8#



#62  
4-Bromofluorobenzene  
Concen: 42.991 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. 0.00 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion: 95 Resp: 85196  
Ion Ratio Lower Upper  
95 100  
174 80.3 0.0 184.4  
176 75.1 0.0 177.4

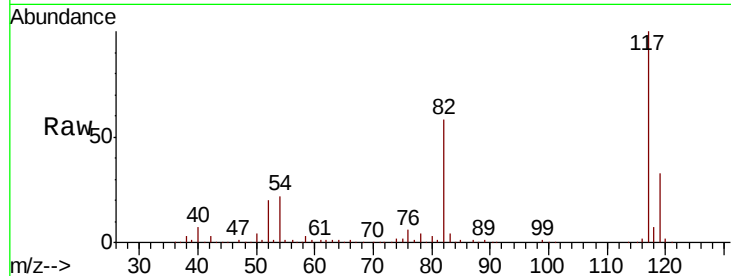




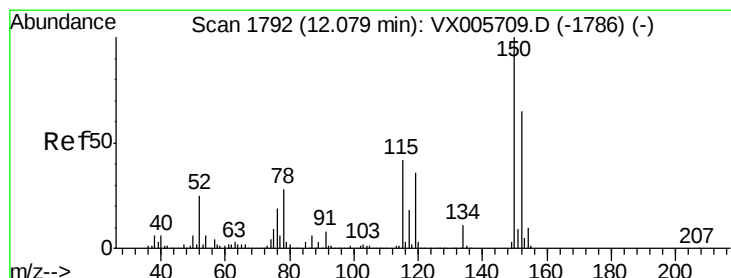
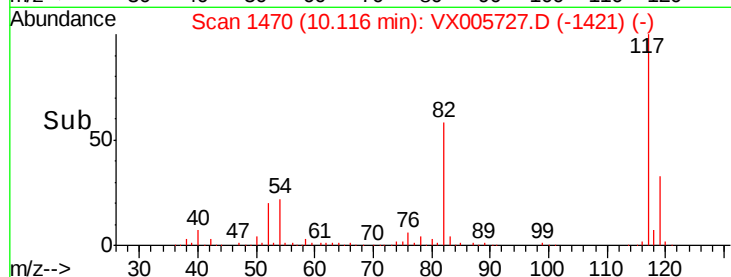
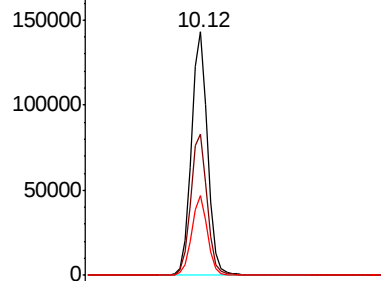
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 190835  
Ion Ratio Lower Upper  
117 100  
82 57.8 44.1 66.1  
119 32.7 26.2 39.2

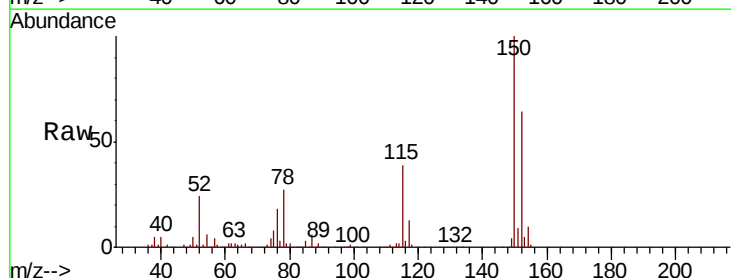


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

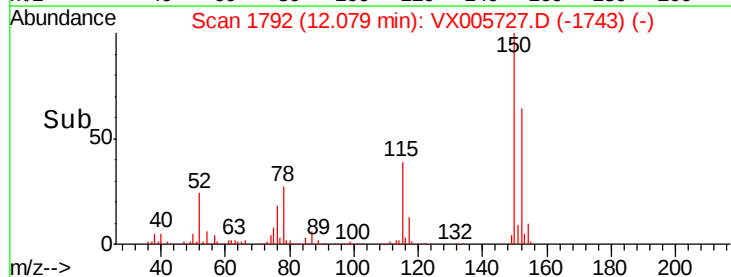
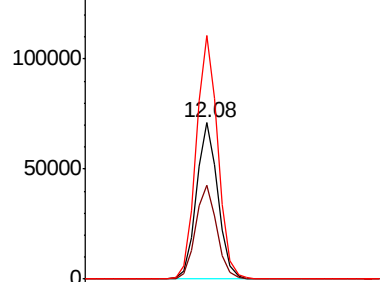


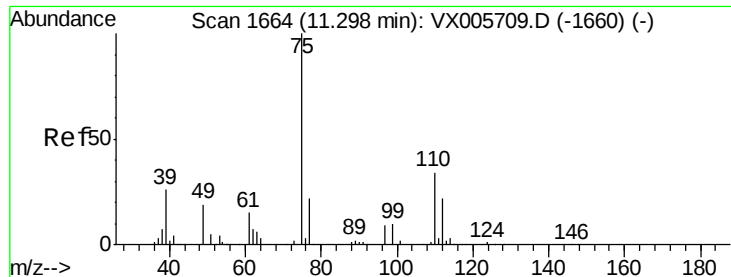
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX005727.D  
Acq: 01 Nov 2018 14:17

Tgt Ion:152 Resp: 83442  
Ion Ratio Lower Upper  
152 100  
115 59.5 39.4 118.1  
150 156.9 0.0 346.4



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: 21.822 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

Instrument :

MSVOA\_X

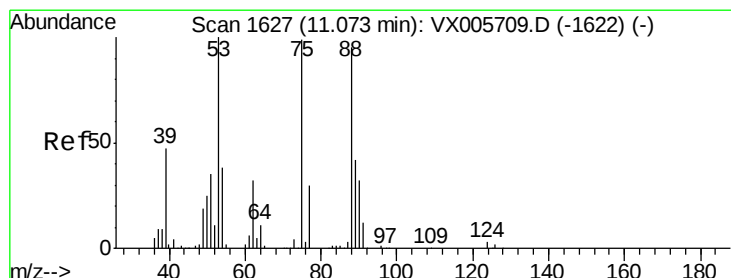
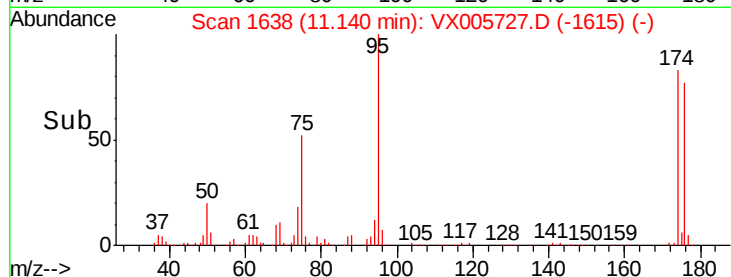
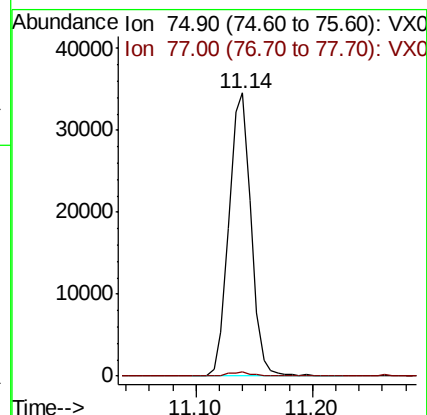
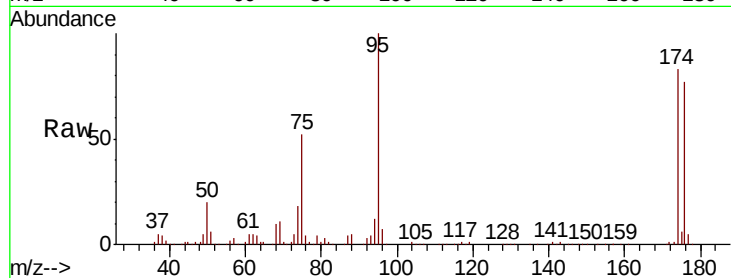
ClientSampleId :

Tot Ion: 75 Resp: 45350

Ion Ratio Lower Upper

75 100

77 1.4 20.5 61.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.504 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005727.D

Acq: 01 Nov 2018 14:17

Tgt Ion: 75 Resp: 45350

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

89 0.0 39.8 59.8#

